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As the festive season lights up homes and hearts across India, we extend our warmest wishes to you and your loved ones.

This time also marks an important milestone for us at **Lauritz Knudsen Electrical & Automation** - a moment to reflect, renew, and reaffirm our commitment to you.

Your continued trust and partnership have been the cornerstone of our journey. Building on a legacy of over 70 years, and following our refreshed identity last year, we remain focused on delivering **innovative, reliable, and high-quality products** that power progress.

As part of this journey, we are pleased to **share an updated price list**. This revision reflects our ongoing commitment to **transparency, quality, and excellence**, ensuring you continue to receive the best value and service.

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At Lauritz Knudsen, our philosophy remains simple yet powerful: **We listen. We partner. We innovate.**

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We look forward to continuing our collaboration and powering up homes, industries, farms, infrastructure, businesses, and lives - with you by our side.

Wishing you a joyful festive season and continued success.

Warm regards,  
Naresh Kumar  
COO & Sr. VP, Electrical Standard Products  
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Note :

[Green colour : HSN code] Current GST 18%, subject to changes as per Govt. notification

# Starters and Controllers Offerings & Composition

## Offerings

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase DOL (Direct On-Line) |     |     |     |      |     |     |     |     |       |     |
|--------------------------------------------------------------------|------------------------------|-----|-----|-----|------|-----|-----|-----|-----|-------|-----|
|                                                                    | Starters                     |     |     |     |      |     |     |     |     |       |     |
|                                                                    | MK1                          | MK2 | MF1 | MU1 | MU1H | MB1 | MU2 | MB2 | MU3 | ML1.5 | ML2 |
| 0.125                                                              |                              |     | ✓   |     |      |     |     |     |     |       |     |
| 0.25 - 2                                                           | ✓                            |     | ✓   |     |      |     |     |     |     |       |     |
| 3 - 6                                                              | ✓                            |     | ✓   |     |      |     |     |     |     |       |     |
| 7.5                                                                | ✓                            | ✓   | ✓   | ✓   | ✓    | ✓   |     |     |     | ✓     | ✓   |
| 10                                                                 |                              |     |     | ✓   | ✓    | ✓   |     |     |     | ✓     | ✓   |
| 12.5                                                               |                              |     |     |     | ✓    |     | ✓   | ✓   |     | ✓     | ✓   |
| 15                                                                 |                              |     |     |     |      |     | ✓   | ✓   | ✓   | ✓     | ✓   |
| 17.5                                                               |                              |     |     |     |      |     |     |     | ✓   |       | ✓   |
| 20                                                                 |                              |     |     |     |      |     |     |     |     |       | ✓   |

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase DOL (Direct On-Line) |        |       |       |       |                                                |        |         |        |        |
|--------------------------------------------------------------------|------------------------------|--------|-------|-------|-------|------------------------------------------------|--------|---------|--------|--------|
|                                                                    | Automatic Starter with SPPR  |        |       |       |       | Automatic MD Starter+ with <i>i</i> -PROTECTOR |        |         |        |        |
|                                                                    | MU-1A                        | MU-1HA | MU-2A | MU-3A | MK1.i | MK2.i                                          | MD1-iU | MD1H-iU | MD2-iU | MD3-iU |
| 0.125                                                              |                              |        |       |       |       |                                                |        |         |        |        |
| 0.25 - 2                                                           |                              |        |       |       |       |                                                |        |         |        |        |
| 3 - 6                                                              | ✓                            |        |       |       | ✓     |                                                | ✓      |         |        |        |
| 7.5                                                                | ✓                            |        |       |       | ✓     | ✓                                              | ✓      |         |        |        |
| 10                                                                 | ✓                            | ✓      |       |       |       |                                                | ✓      |         |        |        |
| 12.5                                                               |                              | ✓      | ✓     |       |       |                                                |        | ✓       | ✓      |        |
| 15                                                                 |                              |        | ✓     | ✓     |       |                                                |        |         | ✓      |        |
| 17.5                                                               |                              |        |       | ✓     |       |                                                |        |         |        | ✓      |
| 20                                                                 |                              |        |       |       |       |                                                |        |         |        | ✓      |

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase DOL (Direct On-Line) |         |        |          |         |                     |                  |         |          |
|--------------------------------------------------------------------|------------------------------|---------|--------|----------|---------|---------------------|------------------|---------|----------|
|                                                                    | Controller                   |         |        |          |         | Controller with WLC | SMART Controller |         |          |
|                                                                    | MU-G6                        | MU-G7.5 | MU-G10 | MU-G10HN | MU-G10H | MU-G10W             | MU-G6S           | MU-G10S | MU-G10HS |
| 0.125                                                              |                              |         |        |          |         |                     |                  |         |          |
| 0.25 - 2                                                           |                              |         |        |          |         |                     |                  |         |          |
| 3 - 6                                                              | ✓                            |         | ✓      |          |         | ✓                   | ✓                | ✓       |          |
| 7.5                                                                |                              | ✓       | ✓      |          |         | ✓                   |                  | ✓       |          |
| 10                                                                 |                              |         | ✓      | ✓        | ✓       | ✓                   |                  | ✓       | ✓        |
| 12.5                                                               |                              |         |        |          |         |                     |                  |         |          |
| 15                                                                 |                              |         |        |          |         |                     |                  |         |          |
| 17.5                                                               |                              |         |        |          |         |                     |                  |         |          |
| 20                                                                 |                              |         |        |          |         |                     |                  |         |          |

# Starters and Controllers Offerings & Composition

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase DOL (Direct On-Line)       |        |       |       |
|--------------------------------------------------------------------|------------------------------------|--------|-------|-------|
|                                                                    | Automatic Starter with M-POWER Pro |        |       |       |
|                                                                    | MU-1M                              | MU-1HM | MU-2M | MU-3M |
| 3-6                                                                | ✓                                  |        |       |       |
| 7.5                                                                | ✓                                  |        |       |       |
| 10                                                                 | ✓                                  |        |       |       |
| 12.5                                                               |                                    | ✓      | ✓     |       |
| 15                                                                 |                                    |        | ✓     |       |
| 17.5                                                               |                                    |        |       | ✓     |
| 20                                                                 |                                    |        |       | ✓     |

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase FASD (Fully Automatic Star-Delta) |     |     |     |       |     |     |     |     |                                            |         |        |        |
|--------------------------------------------------------------------|-------------------------------------------|-----|-----|-----|-------|-----|-----|-----|-----|--------------------------------------------|---------|--------|--------|
|                                                                    | Starters                                  |     |     |     |       |     |     |     |     | Automatic MD Starter+ with<br>i -PROTECTOR |         |        |        |
|                                                                    | MK1                                       | MK2 | MU1 | MB1 | ML1.5 | MU2 | MB2 | ML2 | MU3 | MD1-iU                                     | MD1H-iU | MD2-iU | MD3-iU |
| 6 - 10                                                             | ✓                                         |     |     |     |       |     |     |     |     | ✓                                          |         |        |        |
| 12.5                                                               | ✓                                         |     | ✓   | ✓   | ✓     |     |     | ✓   |     |                                            |         |        |        |
| 15                                                                 | ✓                                         | ✓   | ✓   | ✓   | ✓     |     |     | ✓   |     | ✓                                          |         |        |        |
| 17.5                                                               |                                           |     |     |     |       |     |     |     |     |                                            |         |        |        |
| 20                                                                 |                                           |     |     |     | ✓     | ✓   | ✓   | ✓   |     | ✓                                          |         | ✓      |        |
| 25                                                                 |                                           |     |     |     | ✓     | ✓   | ✓   |     |     |                                            | ✓       | ✓      |        |
| 30                                                                 |                                           |     |     |     |       | ✓   | ✓   | ✓   |     |                                            |         | ✓      | ✓      |
| 35                                                                 |                                           |     |     |     |       |     |     | ✓   | ✓   |                                            |         |        |        |
| 40                                                                 |                                           |     |     |     |       |     |     |     |     |                                            |         |        |        |
| 50                                                                 |                                           |     |     |     |       |     |     |     |     |                                            |         |        |        |
| 75                                                                 |                                           |     |     |     |       |     |     |     |     |                                            |         |        |        |

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase FASD (Fully Automatic Star-Delta) |          |        |          |         |        |        |        |        |        |                     |         |
|--------------------------------------------------------------------|-------------------------------------------|----------|--------|----------|---------|--------|--------|--------|--------|--------|---------------------|---------|
|                                                                    | Controller                                |          |        |          |         |        |        |        |        |        | Controller with WLC |         |
|                                                                    | MU-G15                                    | MU-G17.5 | MU-G20 | MU-G20HN | MU-G20H | MU-G25 | MU-G30 | MU-G40 | MU-G50 | MU-G75 | MU-G20W             | MU-G30W |
| 6 - 10                                                             | ✓                                         |          |        |          |         |        |        |        |        |        |                     |         |
| 12.5                                                               | ✓                                         |          |        |          |         |        |        |        |        |        |                     |         |
| 15                                                                 | ✓                                         |          | ✓      |          |         |        |        |        |        |        | ✓                   |         |
| 17.5                                                               |                                           | ✓        | ✓      |          |         |        |        |        |        |        | ✓                   |         |
| 20                                                                 |                                           |          | ✓      | ✓        | ✓       |        | ✓      |        |        |        | ✓                   |         |
| 25                                                                 |                                           |          |        |          |         | ✓      | ✓      |        |        |        |                     |         |
| 30                                                                 |                                           |          |        |          |         |        | ✓      | ✓      | ✓      |        |                     | ✓       |
| 35                                                                 |                                           |          |        |          |         |        |        | ✓      | ✓      |        |                     |         |
| 40                                                                 |                                           |          |        |          |         |        |        | ✓      | ✓      |        |                     |         |
| 50                                                                 |                                           |          |        |          |         |        |        |        | ✓      | ✓      |                     |         |
| 75                                                                 |                                           |          |        |          |         |        |        |        |        | ✓      |                     |         |

# Starters and Controllers Offerings & Composition

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase FASD (Fully Automatic Star-Delta) |          |         |          |         |         |         |         |         |
|--------------------------------------------------------------------|-------------------------------------------|----------|---------|----------|---------|---------|---------|---------|---------|
|                                                                    | MU-G SMART Controller                     |          |         |          |         |         |         |         |         |
|                                                                    | MU-G15S                                   | MU-G15HS | MU-G20S | MU-G20HS | MU-G25S | MU-G30S | MU-G40S | MU-G50S | MU-G75S |
| 6 - 10                                                             | ✓                                         |          | ✓       |          |         |         |         |         |         |
| 12.5                                                               | ✓                                         |          | ✓       |          |         |         |         |         |         |
| 15                                                                 | ✓                                         | ✓        | ✓       | ✓        |         |         |         |         |         |
| 17.5                                                               |                                           |          | ✓       | ✓        |         |         |         |         |         |
| 20                                                                 |                                           |          | ✓       | ✓        |         | ✓       |         |         |         |
| 25                                                                 |                                           |          |         |          | ✓       | ✓       |         |         |         |
| 30                                                                 |                                           |          |         |          |         | ✓       | ✓       | ✓       |         |
| 35                                                                 |                                           |          |         |          |         |         | ✓       | ✓       |         |
| 40                                                                 |                                           |          |         |          |         |         | ✓       | ✓       |         |
| 50                                                                 |                                           |          |         |          |         |         |         | ✓       | ✓       |
| 75                                                                 |                                           |          |         |          |         |         |         |         | ✓       |

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase SASD (Semi Automatic Star-Delta) |     |     |     |     |     |     |       |     |
|--------------------------------------------------------------------|------------------------------------------|-----|-----|-----|-----|-----|-----|-------|-----|
|                                                                    | Starters                                 |     |     |     |     |     |     |       |     |
|                                                                    | MK1                                      | MK2 | MU1 | MB1 | MU2 | MU3 | MB2 | ML1.5 | ML2 |
| 6 - 10                                                             | ✓                                        |     |     |     |     |     |     |       |     |
| 12.5                                                               | ✓                                        |     | ✓   | ✓   |     |     |     | ✓     | ✓   |
| 15                                                                 | ✓                                        | ✓   | ✓   | ✓   |     |     |     |       |     |
| 20                                                                 |                                          |     |     |     | ✓   |     | ✓   | ✓     | ✓   |
| 25                                                                 |                                          |     |     |     | ✓   |     | ✓   | ✓     |     |
| 30                                                                 |                                          |     |     |     | ✓   |     | ✓   |       | ✓   |
| 35                                                                 |                                          |     |     |     |     | ✓   |     |       | ✓   |

# Starters and Controllers Offerings & Composition

## Composition For Three Phase DOL (Direct On-Line) Starters

|                 |              | Relays used     |         |       |       |      |       |      |       |       |       |       |       |       |       |       |       |
|-----------------|--------------|-----------------|---------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Relay Range (A) | Starter Type | 1-1.6           | 1.5-2.5 | 2.5-4 | 4-6.5 | 6-10 | 9-14  | 9-15 | 11-18 | 13-21 | 13-22 | 14-23 | 15-25 | 20-32 | 20-33 | 24-38 | 28-42 |
|                 | MK1          | MK1             | MK1     | MK1   | MK1   | MK1  | MK1   |      | MK1   |       | MK1   |       |       |       |       |       |       |
|                 | MK2          |                 |         |       |       |      |       |      |       |       | MK2   |       |       | MK2   |       |       |       |
|                 | MU1          |                 |         |       |       |      | MU2   |      |       | MU2   |       |       | MU2   |       |       |       |       |
|                 | MU1H         |                 |         |       |       |      |       |      |       |       |       |       | MU2   | MU2   |       |       |       |
|                 | MU2          |                 |         |       |       |      |       |      |       | MU2   |       |       |       | MU2   |       | MU2   |       |
|                 | MU3          |                 |         |       |       |      |       |      |       |       |       |       |       |       |       | MU2   | MU2   |
|                 | MB1          |                 |         |       |       |      |       | MN2  |       |       |       | MN2   |       |       |       |       |       |
|                 | MB2          |                 |         |       |       |      |       |      |       |       |       | MN2   |       |       | MN2   |       |       |
|                 | ML1.5        |                 |         |       |       |      | ML2/3 |      |       | ML2/3 |       |       |       | ML2/3 |       |       |       |
|                 | ML2          |                 |         |       |       |      | ML2/3 |      |       | ML2/3 |       |       |       | ML2/3 |       |       |       |
|                 | MU-1A        |                 |         |       | MU1   | MU1  | MU2   |      |       | MU2   |       |       | MU2   |       |       |       |       |
|                 | MU-1HA       |                 |         |       |       |      |       |      |       |       |       |       | MU2   | MU2   |       |       |       |
|                 | MU-2A        |                 |         |       |       |      |       |      |       | MU2   |       |       |       | MU2   |       | MU2   |       |
|                 | MU-3A        |                 |         |       |       |      |       |      |       |       |       |       |       |       |       | MU2   | MU2   |
|                 | MK1.i        |                 |         |       | MK1   | MK1  | MK1   |      | MK1   |       | MK1   |       |       |       |       |       |       |
|                 | MK2.i        |                 |         |       |       |      |       |      |       |       | MK2   |       |       | MK2   |       |       |       |
|                 |              | Contactors used |         |       |       |      |       |      |       |       |       |       |       |       |       |       |       |
|                 | MK1          | MK1             | MK1     | MK1   | MK1   | MK1  | MK1   |      | MK1   |       | MK1   |       |       |       |       |       |       |
|                 | MK2          |                 |         |       |       |      |       |      |       |       | MK2   |       |       | MK2   |       |       |       |
|                 | MU1          |                 |         |       |       |      | MU1   |      |       | MU1   |       |       | MU1   |       |       |       |       |
|                 | MU1H         |                 |         |       |       |      |       |      |       |       |       |       | MU1H  | MU1H  |       |       |       |
|                 | MU2          |                 |         |       |       |      |       |      |       | MU2   |       |       |       | MU2   |       | MU2   |       |
|                 | MU3          |                 |         |       |       |      |       |      |       |       |       |       |       |       |       | MU3   | MU3   |
|                 | MB1          |                 |         |       |       |      |       | MU1  |       |       |       | MU1   |       |       |       |       |       |
|                 | MB2          |                 |         |       |       |      |       |      |       |       |       | MU2   |       |       | MU2   |       |       |
|                 | ML1.5        |                 |         |       |       |      | ML1.5 |      |       | ML1.5 |       |       |       | ML1.5 |       |       |       |
|                 | ML2          |                 |         |       |       |      | ML2   |      |       | ML2   |       |       |       | ML2   |       |       |       |
|                 | MU-1A        |                 |         |       | MU1   | MU1  | MU1   |      |       | MU1   |       |       | MU1   |       |       |       |       |
|                 | MU-1HA       |                 |         |       |       |      |       |      |       |       |       |       | MU1H  | MU1H  |       |       |       |
|                 | MU-2A        |                 |         |       |       |      |       |      |       | MU2   |       |       |       | MU2   |       | MU2   |       |
|                 | MU-3A        |                 |         |       |       |      |       |      |       |       |       |       |       |       |       | MU3   | MU3   |
|                 | MK1.i        |                 |         |       | MK1   | MK1  | MK1   |      | MK1   |       | MK1   |       |       |       |       |       |       |
|                 | MK2.i        |                 |         |       |       |      |       |      |       |       | MK2   |       |       | MK2   |       |       |       |

# Starters and Controllers Offerings & Composition

## Composition For MU-M DOL (Direct On-Line) Starters

|              |                 | Contactor Used |      |      |       |       |       |       |       | Relay Type |
|--------------|-----------------|----------------|------|------|-------|-------|-------|-------|-------|------------|
| Starter Type | Relay Range (A) | 4-6.5          | 6-10 | 9-14 | 13-21 | 15-25 | 20-32 | 24-38 | 28-42 |            |
| MU-1M        |                 | MU1            | MU1  |      |       |       |       |       |       | MU1        |
|              |                 |                |      | MU1  | MU1   | MU1   |       |       |       | MU2        |
| MU-1HM       |                 |                |      |      |       | MU1H  | MU1H  |       |       | MU2        |
| MU-2M        |                 |                |      |      | MU2   |       | MU2   | MU2   |       | MU2        |
| MU-3M        |                 |                |      |      |       |       |       | MU3   | MU3   | MU2        |

## Composition For Three Phase SASD (Semi Automatic Star-Delta) Starters

|              |                 | Relays used |      |       |      |       |       |       |       |       |       |       |       |
|--------------|-----------------|-------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Starter Type | Relay Range (A) | 4-6.5       | 6-10 | 9-14  | 9-15 | 11-18 | 13-21 | 13-22 | 14-23 | 20-32 | 20-33 | 24-38 | 28-42 |
| MK1          |                 | MK1         | MK1  | MK1   |      | MK1   |       | MK1   |       |       |       |       |       |
| MK2          |                 |             |      |       |      |       |       | MK2   |       | MN2   |       |       |       |
| MU1          |                 |             |      | MU2   |      |       | MU2   |       |       |       |       |       |       |
| MU2          |                 |             |      |       |      |       | MU2   |       |       | MU2   |       |       |       |
| MU3          |                 |             |      |       |      |       |       |       |       |       |       | MU2   | MU2   |
| MB1          |                 |             |      |       | MN2  |       |       |       | MN2   |       |       |       |       |
| MB2          |                 |             |      |       |      |       |       |       | MN2   |       | MN2   |       |       |
| ML1.5        |                 |             |      | ML2/3 |      |       | ML2/3 |       |       | ML2/3 |       |       |       |
| ML2          |                 |             |      | ML2/3 |      |       | ML2/3 |       |       | ML2/3 |       |       |       |

|              |                 | Contactors used |      |       |      |       |       |       |       |       |       |       |       |
|--------------|-----------------|-----------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Starter Type | Relay Range (A) | 4-6.5           | 6-10 | 9-14  | 9-15 | 11-18 | 13-21 | 13-22 | 14-23 | 20-32 | 20-33 | 24-38 | 28-42 |
| MK1          |                 | MK1             | MK1  | MK1   |      | MK1   |       | MK1   |       |       |       |       |       |
| MK2          |                 |                 |      |       |      |       |       | MK2   |       | MK2   |       |       |       |
| MU1          |                 |                 |      | MU1   |      |       | MU1   |       |       |       |       |       |       |
| MU2          |                 |                 |      |       |      |       | MU2   |       |       | MU2   |       |       |       |
| MU3          |                 |                 |      |       |      |       |       |       |       |       |       | MU3   | MU3   |
| MB1          |                 |                 |      |       | MU1  |       |       |       | MU1   |       |       |       |       |
| MB2          |                 |                 |      |       |      |       |       |       | MU2   |       | MU2   |       |       |
| ML1.5        |                 |                 |      | ML2/3 |      |       | ML1.5 |       |       | ML1.5 |       |       |       |
| ML2          |                 |                 |      | ML2/3 |      |       | ML2   |       |       | ML2   |       |       |       |

# Starters and Controllers Offerings & Composition

## Composition For Three Phase FASD (Fully Automatic Star-Delta) Starters

|              |                 | Relays used |      |       |      |       |       |       |       |       |       |       |       |
|--------------|-----------------|-------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Starter Type | Relay Range (A) | 4-6.5       | 6-10 | 9-14  | 9-15 | 11-18 | 13-21 | 13-22 | 14-23 | 20-32 | 20-33 | 24-38 | 28-42 |
|              |                 |             |      |       |      |       |       |       |       |       |       |       |       |
| MK1          |                 | MK1         | MK1  | MK1   |      | MK1   |       | MK1   |       |       |       |       |       |
| MK2          |                 |             |      |       |      |       |       | MK2   |       | MN2   |       |       |       |
| MU1          |                 |             |      | MU2   |      |       | MU2   |       |       |       |       |       |       |
| MU2          |                 |             |      |       |      |       | MU2   |       |       | MU2   |       |       |       |
| MU3          |                 |             |      |       |      |       |       |       |       |       |       | MU2   | MU2   |
| MB1          |                 |             |      |       | MN2  |       |       |       | MN2   |       |       |       |       |
| MB2          |                 |             |      |       |      |       |       | MN2   |       |       | MN2   |       |       |
| ML1.5        |                 |             |      | ML2/3 |      |       | ML2/3 |       |       | ML2/3 |       |       |       |
| ML2          |                 |             |      | ML2/3 |      |       | ML2/3 |       |       | ML2/3 |       |       |       |

|              |                 | Contactors used |      |       |      |       |       |       |       |       |       |       |       |
|--------------|-----------------|-----------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Starter Type | Relay Range (A) | 4-6.5           | 6-10 | 9-14  | 9-15 | 11-18 | 13-21 | 13-22 | 14-23 | 20-32 | 20-33 | 24-38 | 28-42 |
|              |                 |                 |      |       |      |       |       |       |       |       |       |       |       |
| MK1          |                 | MK1             | MK1  | MK1   |      | MK1   |       | MK1   |       |       |       |       |       |
| MK2          |                 |                 |      |       |      |       |       | MK2   |       | MK2   |       |       |       |
| MU1          |                 |                 |      | MU1   |      |       | MU1   |       |       |       |       |       |       |
| MU2          |                 |                 |      |       |      |       | MU2   |       |       | MU2   |       |       |       |
| MU3          |                 |                 |      |       |      |       |       |       |       |       |       | MU3   | MU3   |
| MB1          |                 |                 |      |       | MU1  |       |       |       | MU1   |       |       |       |       |
| MB2          |                 |                 |      |       |      |       |       |       | MU2   |       | MU2   |       |       |
| ML1.5        |                 |                 |      | ML1.5 |      |       | ML1.5 |       |       | ML1.5 |       |       |       |
| ML2          |                 |                 |      | ML2   |      |       | ML2   |       |       | ML2   |       |       |       |

## Composition for MD Starter+

|              |                 | MD Starter+ DOL |      |       |       |       |       |       | MD Starter+ FASD |      |       |       |       |       |       | Relay Type | <i>i</i> -PROTECTOR Type       |
|--------------|-----------------|-----------------|------|-------|-------|-------|-------|-------|------------------|------|-------|-------|-------|-------|-------|------------|--------------------------------|
|              |                 | Contactors used |      |       |       |       |       |       | Contactors used  |      |       |       |       |       |       |            |                                |
| Starter Type | Relay Range (A) | 6-10            | 9-14 | 13-21 | 15-25 | 20-32 | 24-38 | 28-42 | 6-10             | 9-14 | 13-21 | 15-25 | 20-32 | 24-38 | 28-42 |            |                                |
| MD1-iU       |                 | MU1             |      |       |       |       |       |       | MU1              |      |       |       |       |       |       | MU1        | <i>i</i> -ADSM                 |
|              |                 |                 | MU1  | MU1   | MU1   |       |       |       |                  | MU1  | MU1   |       |       |       |       | MU2        | <i>i</i> -ADSM/ <i>i</i> -VDSM |
| MD1H-iU      |                 |                 |      | MU1H  | MU1H  | MU1H  |       |       |                  |      |       | MU1H  |       |       |       | MU2        | <i>i</i> -ADSM/ <i>i</i> -VDSM |
| MD2-iU       |                 |                 |      | MU2   | MU2   | MU2   | MU2   |       |                  |      | MU2   | MU2   | MU2   |       | MU2   | MU2        | <i>i</i> -ADSM/ <i>i</i> -VDSM |
| MD3-iU       |                 |                 |      |       |       | MU3   | MU3   | MU3   |                  |      |       |       | MU3   | MU3   | MU3   | MU2        | <i>i</i> -ADSM/ <i>i</i> -VDSM |

# Starters and Controllers Offerings & Composition

## Composition For Three Phase Controllers

| Relay Range<br>Controller Type (A) | Relays used |      |      |       |       |       |       |       |       |       |       |       |       |       |        |
|------------------------------------|-------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|                                    | 4-6.5       | 6-10 | 9-14 | 11-18 | 13-21 | 13-22 | 15-25 | 20-32 | 20-33 | 24-38 | 28-42 | 30-50 | 36-60 | 45-75 | 66-110 |
| MU-G6                              | MK1         | MK1  | MK1  |       |       |       |       |       |       |       |       |       |       |       |        |
| MU-G7.5                            |             |      |      |       |       | MK2   |       | MK2   |       |       |       |       |       |       |        |
| MU-G10                             | MU1         | MU1  | MU2  |       | MU2   |       |       |       |       |       |       |       |       |       |        |
| MU-G10HN                           |             |      |      |       |       |       | MU2   | MU2   |       |       |       |       |       |       |        |
| MU-G10H                            |             |      |      |       |       |       |       | MU2   |       |       | MU2   |       |       |       |        |
| MU-G15                             |             | MK1  | MK1  | MK1   |       | MK1   |       |       |       |       |       |       |       |       |        |
| MU-G17.5                           |             |      |      |       |       | MK2   |       | MK2   |       |       |       |       |       |       |        |
| MU-G20                             |             |      | MU2  |       | MU2   |       |       |       |       |       |       |       |       |       |        |
| MU-G20HN                           |             |      |      |       |       |       | MU2   | MU2   |       |       |       |       |       |       |        |
| MU-G20H                            |             |      |      |       |       |       |       | MU2   |       |       | MU2   |       |       |       |        |
| MU-G25                             |             |      |      |       |       |       |       |       |       | MU2   | MU2   |       |       |       |        |
| MU-G30                             |             |      |      |       |       |       |       |       | MN5   |       |       | MN5   |       |       |        |
| MUG40                              |             |      |      |       |       |       |       |       |       |       |       | MN5   | MN5   |       |        |
| MU-G50                             |             |      |      |       |       |       |       |       |       |       |       | MN5   |       | MN5   |        |
| MU-G75                             |             |      |      |       |       |       |       |       |       |       |       |       |       | MN5   | MN5    |
| MU-G10W                            | MU1         | MU1  | MU2  |       | MU2   |       |       | MU2   |       |       | MU2   |       |       |       |        |
| MU-G20W                            |             |      | MU2  |       | MU2   |       |       | MU2   |       |       | MU2   |       |       |       |        |
| MU-G30W                            |             |      |      |       |       |       |       |       |       |       |       | MN5   |       |       |        |

# Starters and Controllers Offerings & Composition

## Composition For Three Phase Controllers

| Relay Range<br>(A)<br>Controller Type | Contactors used |      |      |       |       |       |       |       |       |       |       |       |       |       |        | Single Phase Preventer Used |
|---------------------------------------|-----------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------------------------|
|                                       | 4-6.5           | 6-10 | 9-14 | 11-18 | 13-21 | 13-22 | 15-25 | 20-32 | 20-33 | 24-38 | 28-42 | 30-50 | 36-60 | 45-75 | 66-110 |                             |
| MU-G6                                 | MK1             | MK1  | MK1  |       |       |       |       |       |       |       |       |       |       |       |        | Sz5                         |
| MU-G7.5                               |                 |      |      |       |       | MK2   |       | MK2   |       |       |       |       |       |       |        | Sz5                         |
| MU-G10                                | MU1             | MU1  | MU1  |       | MU1   |       |       |       |       |       |       |       |       |       |        | Sz5                         |
| MU-G10HN                              |                 |      |      |       |       |       | MU1H  | MU1H  |       |       |       |       |       |       |        | Sz5                         |
| MU-G10H                               |                 |      |      |       |       |       |       | MU2   |       |       | MU2   |       |       |       |        | Sz5                         |
| MU-G15                                |                 | MK1  | MK1  | MK1   |       | MK1   |       |       |       |       |       |       |       |       |        | SDz5                        |
| MU-G17.5                              |                 |      |      |       |       | MK2   |       | MK2   |       |       |       |       |       |       |        | SDz5                        |
| MU-G20                                |                 |      | MU1  |       | MU1   |       |       |       |       |       |       |       |       |       |        | SDz5                        |
| MU-G20HN                              |                 |      |      |       |       |       | MU1H  | MU1H  |       |       |       |       |       |       |        | SDz5                        |
| MU-G20H                               |                 |      |      |       |       |       |       | MU2   |       |       | MU2   |       |       |       |        | SDz5                        |
| MU-G25                                |                 |      |      |       |       |       |       |       |       | MU3   | MU3   |       |       |       |        | SDz5                        |
| MU-G30                                |                 |      |      |       |       |       |       |       | ML2W  |       |       | ML2W  |       |       |        | SDz5                        |
| MUG40                                 |                 |      |      |       |       |       |       |       |       |       |       | ML3W  | ML3W  |       |        | SDz5                        |
| MU-G50                                |                 |      |      |       |       |       |       |       |       |       |       | ML4W  |       | ML4W  |        | SDz5                        |
| MU-G75                                |                 |      |      |       |       |       |       |       |       |       |       |       |       | ML6W  | ML6W   | SDz5                        |
| MU-G10W                               | MU1             | MU1  | MU1  |       | MU1   |       |       | MU2   |       |       | MU2   |       |       |       |        | Sz5                         |
| MU-G20W                               |                 |      | MU1  |       | MU1   |       |       | MU2   |       |       | MU2   |       |       |       |        | SDz5                        |
| MU-G30W                               |                 |      |      |       |       |       |       |       |       |       |       | ML2W  |       |       |        | SDz5                        |

## Digital Relay Ranges, Contactors & SCPD Available In MU-G SMART Controller

| Digital Relay Ranges  | 4-22            | 13-32 | 13-42 | 20-42 | 24-42 | 20-50 | 30-60 | 30-75 | 45-90 |                                             |
|-----------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------------------------|
| SMART Controller Type | Contactors used |       |       |       |       |       |       |       |       | SCPD                                        |
| MU-G6S                | MK1             |       |       |       |       |       |       |       |       | 25A 3P MCB K Curve                          |
| MU-G10S               | MU1             |       |       |       |       |       |       |       |       | 25A 3P MCB K Curve                          |
| MU-G10HS              |                 |       |       | MU2   |       |       |       |       |       | 50A 3P MCB K Curve                          |
| MU-G15S               | MK1             |       |       |       |       |       |       |       |       | 63A 3P MCB K Curve                          |
| MU-G15HS              |                 | MK2   |       |       |       |       |       |       |       | 100A 3P MCB K Curve                         |
| MU-G20S               | * MU1           | *MU1H |       |       |       |       |       |       |       | *63A 3P MCB K Curve<br>#100A 3P MCB K Curve |
| MU-G20HS              |                 |       | MU2   |       |       |       |       |       |       | 125A 3P MCB K Curve                         |
| MU-G25S               |                 |       |       |       | MU3   |       |       |       |       | 125A 3P MCB K Curve                         |
| MU-G30S               |                 |       |       |       |       | ML2W  |       |       |       | DZ1-160M-160A MCCB                          |
| MUG40S                |                 |       |       |       |       |       | ML3W  |       |       | DZ1-160M-160A MCCB                          |
| MU-G50S               |                 |       |       |       |       |       |       | ML4W  |       | DN2-250M-250A MCCB                          |
| MU-G75S               |                 |       |       |       |       |       |       |       | ML6W  | DN2-250M-250A MCCB                          |

# Multi-Motor Controller

## Effortless Simplicity, Limitless Control



Individual Motor  
Control



Cloud Connectivity  
through Sub-1GHz  
Module



Timers & Program  
Scheduling



Quick Bypass  
using Rocker Switch



Provides Isolation  
due to in-built  
Isolator



Modular Architecture  
allows fast and  
easy service



Corrosion Resistant  
and also suitable for  
Outdoor Application



**Multi-Motor Controller available for  
4-Motor, 2-Motor and 1-Motor application**



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# Irrigation Automation Solution

Irrigation Automation Solution offers smart and connected solutions for farm irrigation. With SMARTCOMM IMS cloud software and integrated product solutions, it enables time-based, volume-based, and sensor-based complete irrigation automation with remote application. Innovative and smart technology drives this solution, providing flexibility to operate with Sub-1GHz, Wi-Fi, 4G-GSM, and RS485 as per the users' requirements and preferences.

## Features



**Integrated Standard Solution**



**Customisable Parameters and Access Control**



**Remote Application and Control**



**Graphical Analysis**



**Modular Controllers**



**Comprehensive Data Analysis**



**Time based, Volume based and Sensor based Operation**



**Local Weather Integration**



**Program and Schedules**



**EC Management and pH Control for Precise Nutrition**



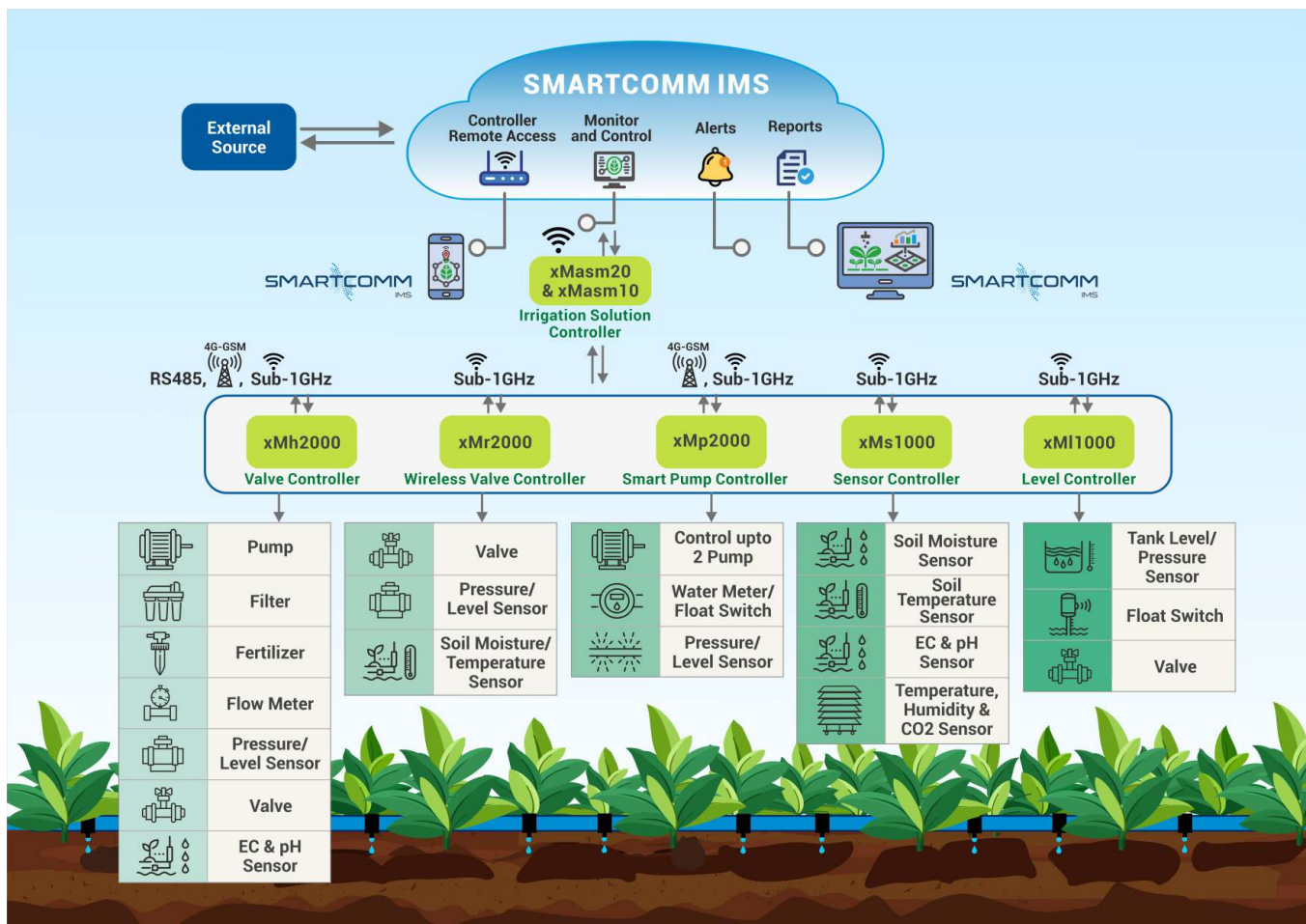
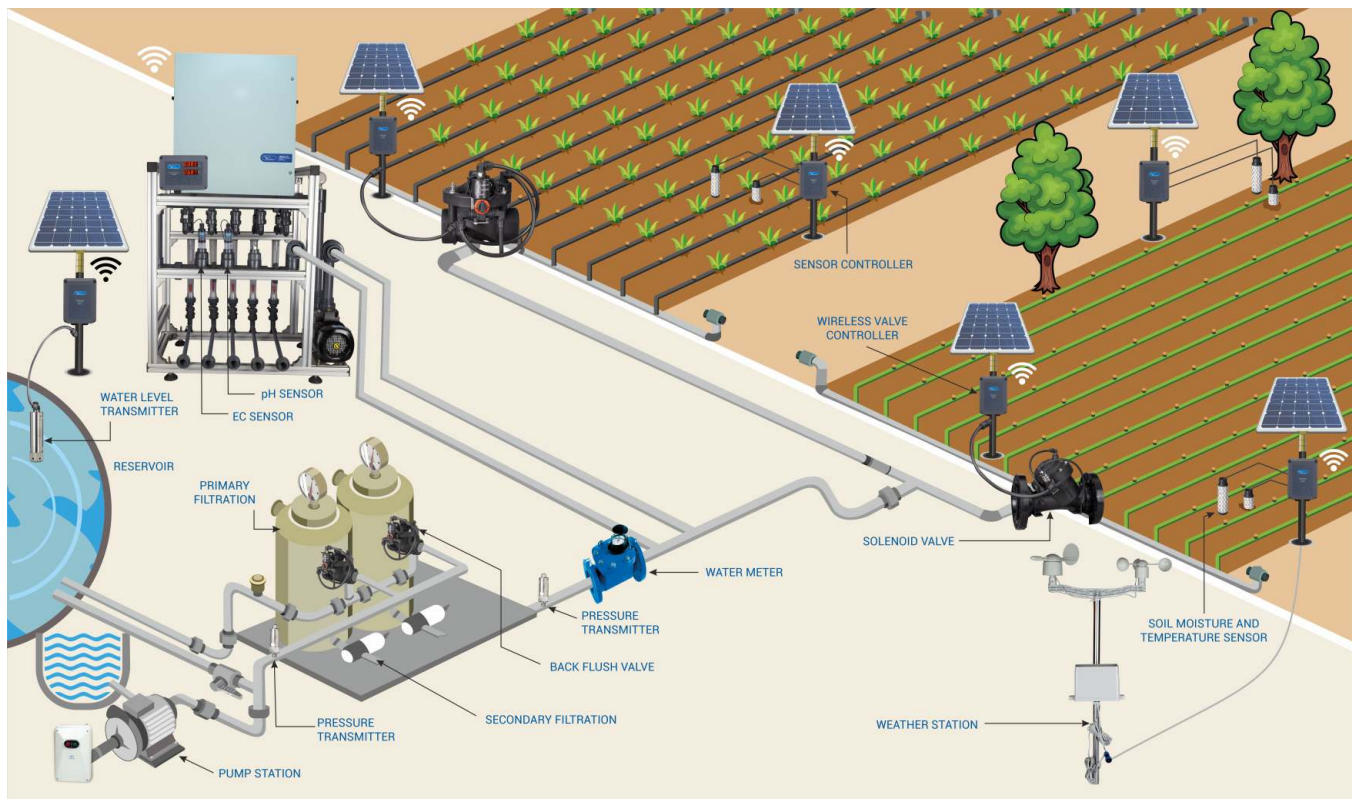
**Real-Time Activity Monitoring**



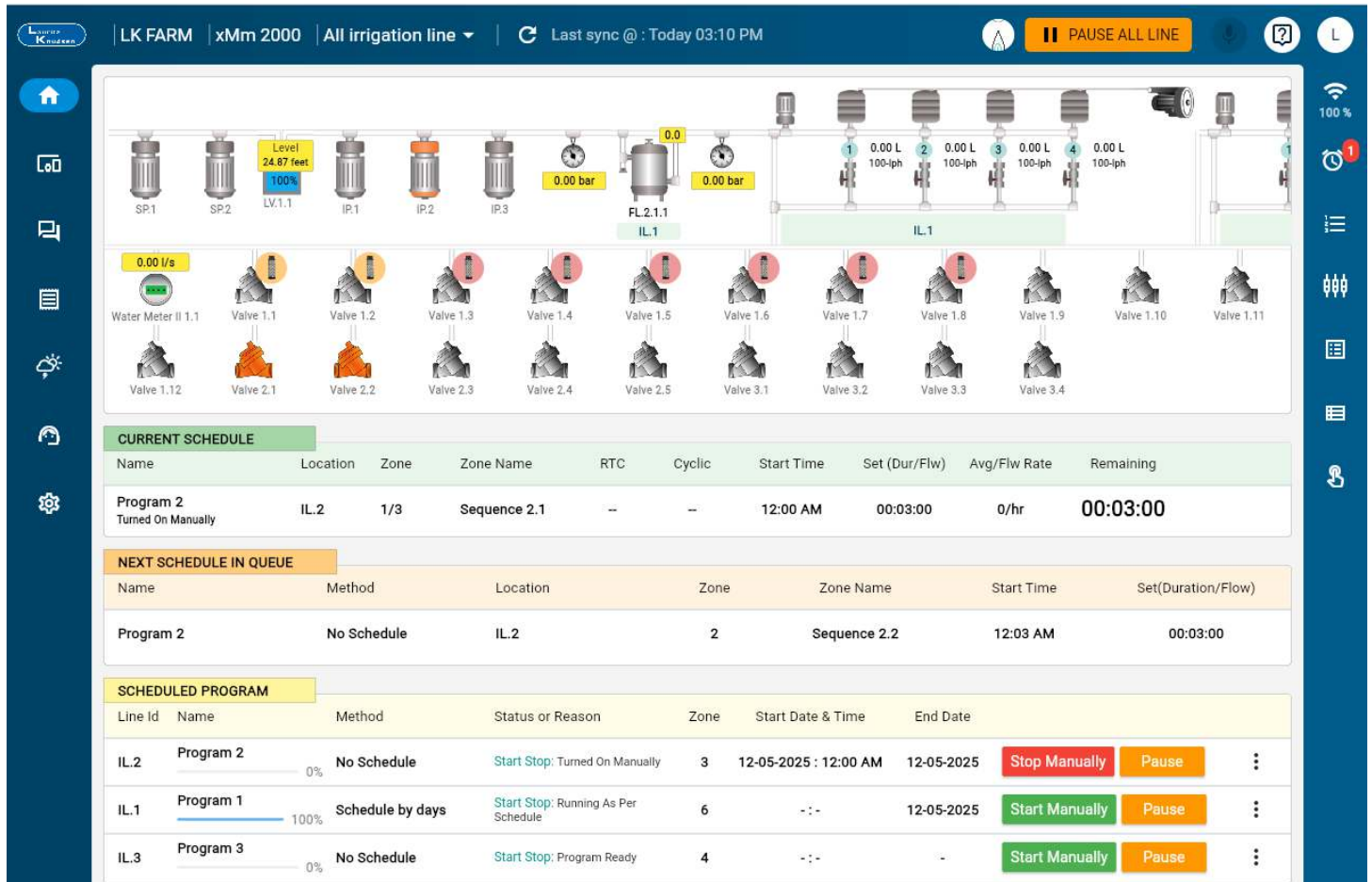
**Alarms and Notifications**



# Irrigation Automation Solution Layout



# SMARTCOMM IMS



**Remote Monitoring and Control**



**Graphs and Reports**



**Mobile and Web Based Application**



**Role Based Access Control**



**Overview of Total Farm**



**Multi-Lingual Support**



**Alerts and Notifications**



**Programming and Scheduling**

# Irrigation Automation Solution

## xMasm10 / xMasm20 Irrigation Solution



Interior View of  
xMasm10 - Wired Solution



xMasm10 ( Wired Solution )



xMasm20 ( Wireless Solution )

### Irrigation Solution [HSN Code 8424]

| Description                          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------------------------|-------------|------------------|-------------------|
| IRRIGATION SOLUTION xMasm10 WIRED    | xMasm100000 | 1                | Price on Request  |
| IRRIGATION SOLUTION xMasm20 WIRELESS | xMasm200000 | 1                |                   |

## Controllers

### xMm1000 / xMm2000 Irrigation Master Controllers

The controller offers time, volume, and sensor-based irrigation with hundreds of programs for main lines and valves. It supports Wi-Fi, Ethernet, Bluetooth, RS485 and Sub-1GHz.



xMm1000



xMm2000

### Irrigation Master Controller [HSN Code 8424]

| Description                                         | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------------------------------------------|-------------|------------------|-------------------|
| IRRIGATION MASTER CONTROLLER xMm2000 RS485 Sub-1GHz | xMm2000ROOL | 1                | Price on Request  |
| IRRIGATION MASTER CONTROLLER xMm1000 RS485          | xMm1000ROOO | 1                |                   |
| IRRIGATION MASTER CONTROLLER xMm1000 RS485 Sub-1GHz | xMm1000ROOL | 1                |                   |

## xMh1000 / xMh2000 Valve Controller

This modular controller can ON/OFF pumps, valves, filtration backwash and fertigation processes efficiently. It is available with Sub-1GHz and 4G-GSM variants, which reduces wiring costs by enabling installation at a central field location. RS485 variant is also available.

xMh1000 is a modular controller supporting 8 outputs for valves, pressure, and level sensors. 4 outputs variants are also available.

xMh2000 operates 16 outputs for valves, water meters, pressure, and level sensors. 8 outputs variants are also available.



xMh1000

### Valve Controller [HSN Code 8424]

| Description                              | Cat. No.     | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------------------|--------------|------------------|-------------------|
| VALVE CONTROLLER xMh1000 RS485 4R        | xMh1000RO40* | 1                | Price on Request  |
| VALVE CONTROLLER xMh1000 RS485 4R ADC    | xMh1000RO4A  | 1                |                   |
| VALVE CONTROLLER xMh1000 RS485 8R        | xMh1000RO80  | 1                |                   |
| VALVE CONTROLLER xMh1000 RS485 8R ADC    | xMh1000RO8A  | 1                |                   |
| VALVE CONTROLLER xMh1000 GSM 4R          | xMh1000GO40  | 1                |                   |
| VALVE CONTROLLER xMh1000 GSM 4R ADC      | xMh1000GO4A  | 1                |                   |
| VALVE CONTROLLER xMh1000 GSM 8R          | xMh1000GO80  | 1                |                   |
| VALVE CONTROLLER xMh1000 GSM 8R ADC      | xMh1000GO8A  | 1                |                   |
| VALVE CONTROLLER xMh1000 Sub-1GHz 4R     | xMh1000LO40  | 1                |                   |
| VALVE CONTROLLER xMh1000 Sub-1GHz 4R ADC | xMh1000LO4A  | 1                |                   |
| VALVE CONTROLLER xMh1000 Sub-1GHz 8R     | xMh1000LO80  | 1                |                   |
| VALVE CONTROLLER xMh1000 Sub-1GHz 8R ADC | xMh1000LO8A  | 1                |                   |
| VALVE CONTROLLER xMh2000 RS485 8R        | xMh2000RO80  | 1                |                   |
| VALVE CONTROLLER xMh2000 RS485 16R       | xMh2000R160  | 1                |                   |
| VALVE CONTROLLER xMh2000 RS485 16R ECpH  | xMh2000R16E  | 1                |                   |
| VALVE CONTROLLER xMh2000 GSM 8R          | xMh2000GO80  | 1                |                   |
| VALVE CONTROLLER xMh2000 GSM 16R         | xMh2000G160  | 1                |                   |
| VALVE CONTROLLER xMh2000 Sub-1GHz 8R     | xMh2000LO80  | 1                |                   |
| VALVE CONTROLLER xMh2000 Sub-1GHz 16R    | xMh2000L160  | 1                |                   |
| VALVE CONTROLLER xMh1000 GSM WiFi 16V    | xMh1000G16D* | 1                |                   |

**Note:** \*Upcoming Cat. Nos.

## xMr1000 / xMr2000 Wireless Valve Controller

xMr1000 and xMr2000 are Wireless Valve Controllers, having variants to operate 4 valves and 8 valves. It integrates with a Soil Moisture Sensor and Soil Temperature Sensor and it receives data from Master Control Unit via Sub-1GHz



xMr1000



xMr2000

### Wireless Valve Controller [HSN Code 8424]

| Description                                              | Cat. No.     | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------------------------|--------------|------------------|-------------------|
| WIRELESS VALVE CONTROLLER xMr1000 4L Sub-1GHz            | xMr1000TO40  | 1                | Price on Request  |
| WIRELESS VALVE CONTROLLER xMr1000 4L ADC Sub-1GHz        | xMr1000TO4A  | 1                |                   |
| WIRELESS VALVE CONTROLLER xMr1000 8L Sub-1GHz            | xMr1000TO80  | 1                |                   |
| WIRELESS VALVE CONTROLLER xMr1000 8L ADC Sub-1GHz        | xMr1000TO8A  | 1                |                   |
| WIRELESS VALVE CONTROLLER xMr2000 4L 4SM ST Sub-1GHz     | xMr2000TS40* | 1                |                   |
| WIRELESS VALVE CONTROLLER xMr2000 4L 4SM ST ADC Sub-1GHz | xMr2000TS4A  | 1                |                   |

Note: \*Upcoming Cat. Nos.

## xMp1000 / xMp2000 Smart Pump Controller

xMp1000 and xMp2000 Pump Controllers can operate up to 2 pumps. It supports Wi-Fi, 4G-GSM and Sub-1GHz. It also can be connected with Level Sensors, Flow Meters and Pressure Sensors.

It offers protection against dry run, overload, voltage fluctuations, phase loss, phase reversal, phase unbalance, etc



xMp1000



xMp2000

### Smart Pump Controller [HSN Code 9032]

| Description                           | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------------|-------------|------------------|-------------------|
| SMART PUMP CONTROLLER xMp1000 GSM     | xMp1000G000 | 1                | Price on Request  |
| SMART PUMP CONTROLLER xMp2000 GSM     | xMp2000G000 | 1                |                   |
| SMART PUMP CONTROLLER xMp1000 WiFi    | xMp1000W000 | 1                |                   |
| SMART PUMP CONTROLLER xMp2000 WiFi    | xMp2000W000 | 1                |                   |
| SMART PUMP CONTROLLER xMp2000 GSM 1PH | xMp2000G1PH | 1                |                   |

## Smart Pump Controller [HSN Code 8424]

| Description                            | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------|-------------|------------------|-------------------|
| SMART PUMP CONTROLLER xMp2000 Sub-1GHz | xMp2000L000 | 1                | Price on Request  |
| SMART PUMP CONTROLLER xMp1000 Sub-1GHz | xMp1000L000 | 1                |                   |

## xMw1000 Weather Station Controller

xMw1000 Weather Station Controller unit collects weather data and send it to Master Control unit. It connects through Sub-1GHz or GPRS.



xMw1000

## Weather Station Controller [HSN Code 8424]

| Description                                 | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------------------|-------------|------------------|-------------------|
| WEATHER STATION CONTROLLER xMw1000 GSM      | xMw1000G000 | 1                | Price on Request  |
| WEATHER STATION CONTROLLER xMw1000 Sub-1GHz | xMw1000L000 | 1                |                   |

## xMI1000 Wireless Tank Level Controller

A simple way to obtain water level data. The Level Monitor unit collects water level data and send to Master Control Unit.



xMI1000

## Wireless Tank Level Controller [HSN Code 8424]

| Description                                                | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------------------------------------|-------------|------------------|-------------------|
| WIRELESS TANK LEVEL CONTROLLER xMI1000 4LS ADC DI Sub-1GHz | xMI1000L00A | 1                | Price on Request  |
| WIRELESS TANK LEVEL CONTROLLER xMI1000 4L 4LS ADC Sub-1GHz | xMI1000L04A | 1                |                   |

## xMs1000 Sensor Controller

xMs1000 Sensor Controller gets soil moisture and temperature data and send to master controller unit

### Sensor Controller [HSN Code 8424]

| Description                    | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------------------|-------------|------------------|-------------------|
| SENSOR CONTROLLER xMs1000 ECpH | xMs1000EP4S | 1                | Price on Request  |

## Monitoring Devices

### xMs1000 EC & pH Monitor

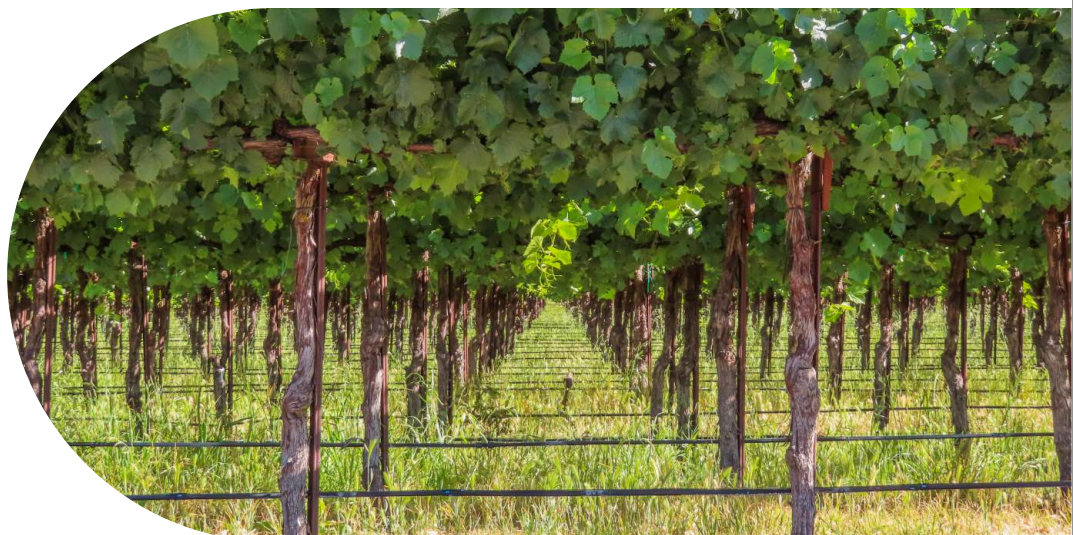
The xMs1000 is a compact and advanced pH and EC (Electrical Conductivity) measuring system. It offers direct and highly accurate measurements of both pH and EC levels through sensors. With its high input impedance, excellent accuracy, the xMs1000 ensures precise readings, making it ideal for a wide range of agricultural applications.



xMs1000

### EC & pH Monitor [HSN Code 8424]

| Description                             | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------------------------------|-------------|------------------|-------------------|
| EC & pH MONITOR xMs1000 4SM ST Sub-1GHz | xMs1000TS4S | 1                | Price on Request  |
| EC & pH MONITOR xMs1000 H CO2 Sub-1GHz  | xMs1000HC4S | 1                |                   |



## Solenoid Valve

Electric control solenoid valves are specially designed for irrigation systems, providing reliable performance with both AC and DC. Solenoid valves are available in 2-Inch, 3-Inch, and 4-Inch sizes.



2-Inch Threaded 3 way



3-Inch Threaded 3 way



4-Inch Flanged 3 way

## Solenoid Valve [HSN Code 8424]

| Description                           | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------------|-------------|------------------|-------------------|
| 2"THREADED 3 WAY 24V AC xMv1200 VALVE | xMv1200ACOT | 1                | Price on Request  |
| 2"THREADED 3 WAY 24V DC xMv2200 VALVE | xMv2200DCOT | 1                |                   |
| 2"THREADED L 6-20V DC xMv2200 VALVE   | xMv2200DCLT | 1                |                   |
| 3"THREADED 3 WAY 24V AC xMv1300 VALVE | xMv1300ACOT | 1                |                   |
| 3"THREADED 3 WAY 24V DC xMv2300 VALVE | xMv2300DCOT | 1                |                   |
| 3"THREADED L 6-20V DC xMv2300 VALVE   | xMv2300DCLT | 1                |                   |
| 4"FLANGED 3 WAY 24V AC xMv1400 VALVE  | xMv1400ACOF | 1                |                   |
| 4"FLANGED 3 WAY 24V DC xMv2400 VALVE  | xMv2400DCOF | 1                |                   |
| 4"FLANGED L 6-20V AC xMv2400 VALVE    | xMv2400PSOT | 1                |                   |

## Pressure Sustaining Valve

The pressure sustaining valve is a hydraulically operated, diaphragm-actuated control valve designed to maintain a minimum upstream pressure, ensuring consistent water flow. It is available in 2-Inch, 3-Inch and 4-Inch variants.

- › **Maintains Upstream Pressure:** Keeps the desired pressure level in the system.
- › **Automatic Operation:** Opens fully when the line pressure exceeds the set limit.
- › **Versatile Use:** Ideal for a variety of irrigation applications.



Pressure Sustaining Value

## Pressure Sustaining Valve [HSN Code 8424]

| Description                                  | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------------|-------------|------------------|-------------------|
| 2"THREADED xMv1200 PRESSURE SUSTAINING VALVE | xMv1200PSOT | 1                | Price on Request  |
| 3"THREADED xMv1300 PRESSURE SUSTAINING VALVE | xMv1300PSOT | 1                |                   |
| 4"THREADED xMv1400 PRESSURE SUSTAINING VALVE | xMv1400PSOF | 1                |                   |

## Pressure Relief Valve

The hydraulically operated, diaphragm-actuated control valve is designed to efficiently relieve excessive line pressure, ensuring the integrity of irrigation system.

- › **Quick Response:** Reacts swiftly to pressure changes for optimal performance.
- › **Adjustable Set Points:** Customize set points for tailored operation.
- › **Protection:** Safeguard your irrigation system from potential damage.



2-Inch Threaded xMv100



3-Inch Threaded xMv200

### Pressure Relief Valve [HSN Code 8424]

| Description                              | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------------------|-------------|------------------|-------------------|
| 2"THREADED xMv100Q PRESSURE RELIEF VALVE | xMv100QPR2T | 1                | Price on Request  |
| 3"THREADED xMv200Q PRESSURE RELIEF VALVE | xMv200QPR3T | 1                |                   |
| 4"FLANGED xMv200Q PRESSURE RELIEF VALVE  | xMv200QPR4T | 1                |                   |

## Back Flush Valve

xMv1300 Back flush valve is designed for automatic backflushing of filters.

### Back Flush Valve [HSN Code 8424]

| Description                     | Cat. No.      | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------|---------------|------------------|-------------------|
| 3"AUTO BACK FLUSH VALVE xMv1300 | xMv1300ABFV * | 1                | Price on Request  |

Note: \*Upcoming Cat. Nos.

## Air Valve

### Air Valve [HSN Code 8424]

| Description               | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------|-------------|------------------|-------------------|
| 1" AIR VALVE 32mm xMv1100 | xMv110032AV | 1                | Price on Request  |

## Water Flow Meter

Low head loss magnetic drive water flow meter is ideal for measuring water that contains solid debris

### Water Flow Meter [HSN Code 8424]

| Description                 | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------------------|-------------|------------------|-------------------|
| 2" WATER FLOW METER xMfl200 | xMfl2000000 | 1                | Price on Request  |
| 3" WATER FLOW METER xMfl300 | xMfl3000000 | 1                |                   |
| 4" WATER FLOW METER xMfl400 | xMfl4000000 | 1                |                   |

## Sensors



### Soil Moisture and Temperature Sensor [HSN Code 8424]

| Description                              | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------------------|-------------|------------------|-------------------|
| SOIL MOISTURE SENSOR xMd1300 5 mtr CABLE | xMd13000005 | 1                | Price on Request  |
| SOIL TEMPERATURE SENSOR xMd1300          | xMd13000000 | 1                |                   |



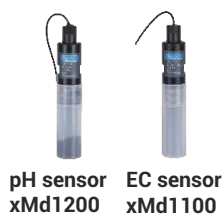
### Pressure Transmitter [HSN Code 9026]

| Description                           | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------------|-------------|------------------|-------------------|
| PRESSURE TRANSMITTER xMd1400 0-10 bar | xMd14000010 | 1                | Price on Request  |



### Water Level Transmitter [HSN Code 9026]

| Description                              | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------------------|-------------|------------------|-------------------|
| WATER LEVEL TRANSMITTER xMd1500 0-15 mtr | xMd15000015 | 1                | Price on Request  |
| WATER LEVEL TRANSMITTER xMd1500 0-30 mtr | xMd15000030 | 1                |                   |



### EC-pH Sensor [HSN Code 8424]

| Description                 | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------------------|-------------|------------------|-------------------|
| EC SENSOR xMd1100           | xMd11000010 | 1                | Price on Request  |
| pH SENSOR 0 TO 14pH xMd1200 | xMd12000014 | 1                |                   |

### Rain and Wind Sensor [HSN Code 8424]

| Description                  | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------|-------------|------------------|-------------------|
| RAIN AND WIND SENSOR xMd1700 | xMd17000000 | 1                | Price on Request  |

## Humidity and CO2 Sensor [HSN Code 8424]

| Description                     | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------|-------------|------------------|-------------------|
| HUMIDITY AND CO2 SENSOR xMd1800 | xMd18000000 | 1                | Price on Request  |

## Lux Sensor [HSN Code 8424]

| Description        | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------|-------------|------------------|-------------------|
| LUX SENSOR xMd1900 | xMd19000000 | 1                | Price on Request  |

## Leaf Wetness Sensor [HSN Code 8424]

| Description                 | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------------------|-------------|------------------|-------------------|
| LEAF WETNESS SENSOR xMd2000 | xMd20000000 | 1                | Price on Request  |

## ACCESSORIES



## Solenoid Coil [HSN Code 8424]

| Description                     | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------|-------------|------------------|-------------------|
| 3 WAY SOLENOID xMsp100 24V AC   | xMsp1003SAC | 1                | Price on Request  |
| 3 WAY SOLENOID xMsp100 24V DC   | xMsp1003SDC | 1                |                   |
| LATCH SOLENOID xMsp100 6-20V DC | xMsp100LSDC | 1                |                   |

## Pressure Sustain Pilot [HSN Code 8424]

| Description                    | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------------------|-------------|------------------|-------------------|
| PRESSURE SUSTAIN PILOT xMsp100 | xMsp100PSPO | 1                | Price on Request  |

## Float Switch [HSN Code 9026]

| Description                     | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------|-------------|------------------|-------------------|
| FLOAT SWITCH xMfs100            | xMfs1001000 | 1                | Price on Request  |
| FLOAT SWITCH 2mtr CABLE xMfs100 | xMfs1002000 | 1                |                   |
| FLOAT SWITCH 4mtr CABLE xMfs100 | xMfs1004000 | 1                |                   |
| FLOAT SWITCH 8mtr CABLE xMfs100 | xMfs1008000 | 1                |                   |

## Irrigation Power Module [HSN Code 8424]

| Description                     | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------|-------------|------------------|-------------------|
| IRRIGATION POWER MODULE xMa1000 | xMa10000000 | 1                | Price on Request  |

## AC to DC Adaptor [HSN Code 8424]

| Description              | Cat. No.      | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------------|---------------|------------------|-------------------|
| AC TO DC ADAPTOR xMsp100 | xMsp100ACDC * | 1                | Price on Request  |

Note: \*Upcoming Cat. Nos.

## Extend [HSN Code 8424]

| Description             | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------------------------|-------------|------------------|-------------------|
| EXTEND xMe1000 Sub-1GHz | xMe1000L000 | 1                | Price on Request  |

## Bluetooth Device [HSN Code 8424]

| Description              | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------------|-------------|------------------|-------------------|
| BLUETOOTH DEVICE xMb1000 | xMb10000000 | 1                | Price on Request  |

## Solar Panel [HSN Code 8541]

| Description                        | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------------|-------------|------------------|-------------------|
| 20W SOLAR PANEL xMa1020 WITH CLAMP | xMa1020C000 | 1                | Price on Request  |
| 20W SOLAR PANEL xMa1020            | xMa10200000 | 1                |                   |

## Other Accessories

### Other Accesssories [HSN Code 9032]

| Description                                 | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------------------|-------------|------------------|-------------------|
| WIRELESS LEVEL MONITOR RECEIVER xMsp100     | xMsp100LMRO | 1                | Price on Request  |
| WIRELESS LEVEL MONITOR TRANSMITTER xMsp100  | xMsp100LMTO | 1                |                   |
| WIRELESS START RECEIVER SSN xMsp100         | xMsp100LSRS | 1                |                   |
| WIRELESS START REPEATER SSN xMsp100         | xMsp100LPRS | 1                |                   |
| WIRELESS START TRANSMITTER SSN xMsp100      | xMsp100LSTS | 1                |                   |
| WIRELESS MULTITANK TRANSCEIVER xMsp100      | xMsp100LSSS | 1                |                   |
| WIRELESS MULTITANK VALVE CONTROLLER xMsp200 | xMsp200MTVC | 1                |                   |
| WIRELESS MULTITANK VALVE REPEATER xMsp200   | xMsp200MTRO | 1                |                   |
| WIRELESS LEVEL MONITOR REPEATER xMsp100     | xMsp100LMRR | 1                |                   |

## xMf1000 / xMf3000 / xMf5000 Irrigation Fertigation Module

A fertigation system delivers fertilizers through irrigation, ensuring efficient and uniform nutrient supply to crops. Available in 1-channel, 3-channel and 5-channel models, it allows precise dosing of multiple fertilizers based on crop needs for advanced nutrient management.



xMf1000



xMf5000

### Irrigation Fertigation Module [HSN Code 8424]

| Description                           | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------------|-------------|------------------|-------------------|
| IRRIGATION FERTIGATION MODULE xMf1000 | xMf10000000 | 1                | Price on Request  |
| IRRIGATION FERTIGATION MODULE xMf3000 | xMf30000000 | 1                |                   |
| IRRIGATION FERTIGATION MODULE xMf5000 | xMf50000000 | 1                |                   |

### Fertigation Accessories [HSN Code 8424]

| Description                  | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------|-------------|------------------|-------------------|
| NEEDLE VALVE xMsp100         | xMsp100NVOO | 1                | Price on Request  |
| ROTAMETER 500 xMsp100        | xMsp100R500 | 1                |                   |
| VENTURI 600 xMsp1V0          | xMsp1V00600 | 1                |                   |
| DOSING SOLENOID COIL xMsp100 | xMsp100SCOO | 1                |                   |



# Irrigation Units & Spares

## Irrigation Unit [HSN Code 8424]

| Description                                   | Cat. No.    |
|-----------------------------------------------|-------------|
| IRRIGATION UNIT WiFi 8R 1PH xMxv10M           | xMxv10M2W08 |
| IRRIGATION UNIT WiFi 16R 1PH xMxv10M          | xMxv10M2W16 |
| IRRIGATION UNIT WiFi 8R 3PH xMxv30M           | xMxv30M2W08 |
| IRRIGATION UNIT WiFi 16R 3PH xMxv30M          | xMxv30M2W16 |
| IRRIGATION UNIT GSM 16R 3PH xMxv30M           | xMxv30M2G16 |
| IRRIGATION UNIT GSM 8R 3PH xMxv30M            | xMxv30M2G08 |
| IRRIGATION UNIT GSM 8R 1PH xMxv10M            | xMxv10M2G08 |
| IRRIGATION UNIT GSM 16R 1PH xMxv10M           | xMxv10M2G16 |
| IRRIGATION UNIT GSM Sub-1GHz 8R 3PH xMxv30M   | xMxv30MSG08 |
| IRRIGATION UNIT GSM Sub-1GHz 16R 3PH xMxv30M  | xMxv30MSG16 |
| IRRIGATION UNIT GSM Sub-1GHz 8R 1PH xMxv10M   | xMxv10MSG08 |
| IRRIGATION UNIT GSM Sub-1GHz 16R 1PH xMxv10M  | xMxv10MSG16 |
| IRRIGATION UNIT WiFi Sub-1GHz 8R 1PH xMxv10M  | xMxv10MSW08 |
| IRRIGATION UNIT WiFi Sub-1GHz 8R 3PH xMxv30M  | xMxv30MSW08 |
| IRRIGATION UNIT WiFi Sub-1GHz 16R 1PH xMxv10M | xMxv10MSW16 |
| IRRIGATION UNIT WiFi Sub-1GHz 16R 3PH xMxv30M | xMxv30MSW16 |
| IRRIGATION UNIT GSM 10R 3PH xMyv30M           | xMyv30M0G10 |
| IRRIGATION UNIT WiFi 10R 1PH xMyv10M          | xMyv10M0W10 |
| IRRIGATION UNIT WiFi 10R 3PH xMyv30M          | xMyv30M0W10 |
| IRRIGATION UNIT GSM 10R 1PH xMyv10M           | xMyv10M0G10 |
| IRRIGATION UNIT GSM 2R 1PH xMzv10M            | xMzv10M0G02 |
| IRRIGATION UNIT GSM 2R 3PH xMzv30M            | xMzv30M0G02 |
| IRRIGATION UNIT GSM 4R 1PH xMzv10M            | xMzv10M0G04 |
| IRRIGATION UNIT GSM 4R 3PH xMzv30M            | xMzv30M0G04 |
| IRRIGATION UNIT GSM 1R 1LIGHT 1PH xMzv1LM     | xMzv1LM0G01 |
| IRRIGATION UNIT GSM 1R 1LIGHT 3PH xMzv3LM     | xMzv3LM0G01 |
| IRRIGATION UNIT WiFi 2R 1PH xMzv10M           | xMzv10M0W02 |
| IRRIGATION UNIT WiFi 2R 3PH xMzv30M           | xMzv30M0W02 |
| IRRIGATION UNIT WiFi 4R 1PH xMzv10M           | xMzv10M0W04 |
| IRRIGATION UNIT WiFi 4R 3PH xMzv30M           | xMzv30M0W04 |
| IRRIGATION UNIT WiFi 1R 1LIGHT 1PH xMzv1LM    | xMzv1LM0W01 |
| IRRIGATION UNIT WiFi 1R 1LIGHT 3PH xMzv3LM    | xMzv3LM0W01 |

## PCB Cards [HSN Code 8424]

| Description                          | Cat. No.    |
|--------------------------------------|-------------|
| 4 RELAY CARD xMsc100                 | xMsc100R004 |
| 8 RELAY CARD xMsc100                 | xMsc100R008 |
| 8 RELAY CARD 2 xMsc100               | xMsc100R208 |
| RS485 MASTER CARD xMsc100            | xMsc100RMOO |
| RS485 CARD xMsc100                   | xMsc100RSOO |
| RS485 CARD 2 xMsc100                 | xMsc100R200 |
| 4 LATCH CARD xMsc100                 | xMsc100L004 |
| 4 TO 20mA CARD xMsc100               | xMsc100ADCO |
| POWER SUPPLY 12V CARD xMsc100        | xMsc100PS12 |
| POWER SUPPLY CARD xMsc100            | xMsc100PS08 |
| POWER SUPPLY PUMP CARD xMsc100       | xMsc100PSPC |
| Sub-1GHz CARD xMsc100                | xMsc100S000 |
| Sub-1GHz PUMP CARD xMsc100           | xMsc100SP00 |
| MOISTURE CARD xMsc100                | xMsc100MOOO |
| DIGITAL INPUT CARD xMsc100           | xMsc100DIOO |
| WEATHER CARD xMsc100                 | xMsc100WE00 |
| MASTER CONTROLLER BASE CARD xMsc100  | xMsc100MB00 |
| VALVE CONTROLLER BASE CARD xMsc100   | xMsc100HB00 |
| VALVE CONTROLLER BASE CARD xMsc200   | xMsc200HB00 |
| RTU BASE CARD xMsc100                | xMsc100RB00 |
| LEVEL BASE CARD xMsc100              | xMsc100LB00 |
| SENSEOR CONTROLLER BASE CARD xMsc100 | xMsc100SB00 |
| Sub-1GHz MASTER CARD1 xMsc100        | xMsc100SM10 |
| Sub-1GHz MASTER CARD2 xMsc100        | xMsc100SM20 |
| EC pH BASE CARD xMsc100              | xMsc100ECPH |
| EC pH 7 SEGMENT DISPLAY CARD xMsc100 | xMsc100EPHD |

## PCB Cards [HSN Code 9032]

| Description                         | Cat. No.    |
|-------------------------------------|-------------|
| GSM CARD xMsc100                    | xMsc100G000 |
| WiFi CARD xMsc100                   | xMsc100W000 |
| WiFi PUMP CARD xMsc100              | xMsc100WP00 |
| GSM PUMP CARD xMsc100               | xMsc100GP00 |
| PUMP BASE CARD xMsc100              | xMsc100PB00 |
| WIRELESS GSM CARD xMsc100           | xMsc1K00G00 |
| WIRELESS GSM CARD 4G xMsc101        | xMsc1K10G40 |
| WIRELESS GSM SP CARD 4G xMsc301     | xMsc3K10G40 |
| WIRELESS GSM SP CARD 4G xMsc301 WLC | xMsc3K10G4W |

## Transformers [HSN Code 9032]

| Description                    | Cat. No.    |
|--------------------------------|-------------|
| TRANSFORMER USP58(A) xMsp10T   | xMsp10TUSPA |
| TRANSFORMER N USP62(A) xMsp10T | xMsp10TUSPB |
| TRANSFORMER USP62(B) xMsp10T   | xMsp10TUSPC |
| TRANSFORMER N USP12 xMsp10T    | xMsp10TUSPD |
| TRANSFORMER N USP07 xMsp10T    | xMsp10TUSPE |

## Batteries [HSN Code 9032]

| Description                       | Cat. No.    |
|-----------------------------------|-------------|
| BATTERY 11.1V 5200mAh xMsp10B     | xMsp10B1101 |
| BATTERY 7.4V 5200mAh xMsp10B      | xMsp10B704V |
| BATTERY 3.7V 2600mAh xMsp10B      | xMsp10B307V |
| BATTERY 3.3V LITHIUM CELL xMsp10B | xMsp10B303L |
| RTC BATTERY xMsp100               | xMsp100BRTC |

## Other Spares [HSN Code 9032]

| Description                             | Cat. No.    |
|-----------------------------------------|-------------|
| MASTER CONTROLLER PCB xMsp100           | xMsp100MCPO |
| ACTIVE COOLER FAN WITH HEATSINK xMsp100 | xMsp100HSCF |
| 12V FAN xMsp100                         | xMsp10012VF |
| USB TO TTL WITH RMC CABLE xMsp100       | xMsp100USBR |
| 10 DBI ANTENNA xMsp100                  | xMsp100AO10 |
| 3 DBI ANTENNA xMsp100                   | xMsp100AO03 |
| SURGE PROTECTOR xMsp100                 | xMsp100SPOO |
| BNC FEMALE CONNECTOR xMsp100            | xMsp100FCOO |
| LCD DISPLAY xMsp100                     | xMsp100LCDD |
| 3CT COIL xMsp100                        | xMsp1003CTC |

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Eliminates  
"fuse wire"  
replacement



Easy to switch  
ON / OFF during  
maintenance



Easy to resume  
supply by  
switching



Saves  
replacement,  
time & money



Longer life



Safe to  
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# MU-GiA / xMU-GiA Multi-Motor Controller

Multi-Motor Controller is an integrated solution enabling operation, control and protection for motor and pump application.

With Add-on Sub-1GHz module, MU-GiA Controller can be connected to the SMARTCOMM IMS.

The xMU-GiA Controller is equipped with an in-built Sub-1GHz module, enabling connectivity to the SMARTCOMM IMS.



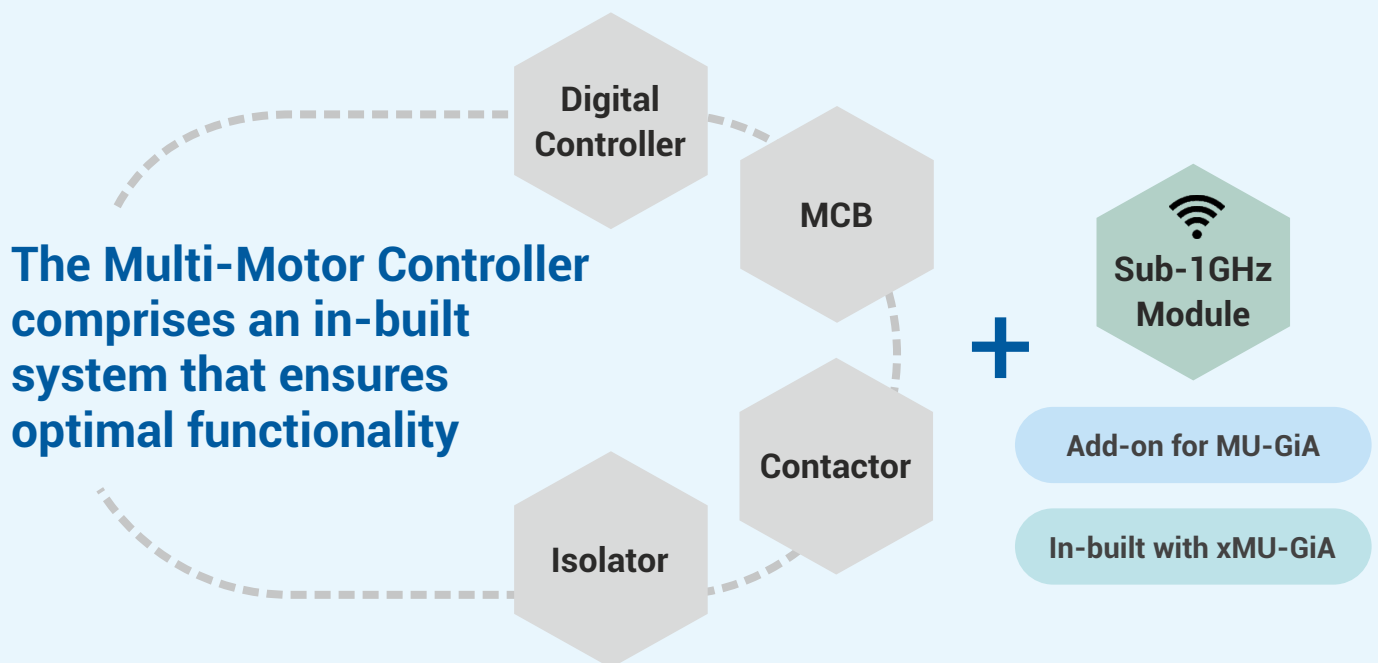
**xMU-GiA Multi Motor Controller**  
4-Motor/2-Motor Controller



**MU-GiA Multi-Motor Controller**  
4-Motor/2-Motor Controller



**MU-GiA Multi-Motor Controller**  
1-Motor Controller



## Multi-Motor Controller

### Features



**Individual Motor Control**



**Timer for Auto Operation**



**Remote Monitoring and Control with Sub-1GHz Module**



**Robust Design, suitable for outdoor applications**

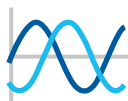


**Auto/Manual/Bypass Modes of Operation**



**Comes with in-built Isolator and K-Curve MCB**

### Protection from



**Phase Failure / Single Phasing**



**Over Voltage and Under Voltage**



**Phase Reversal**



**Overload**



**Voltage and Current Unbalance**



**Short Circuit**



**Interior View of xMU-GiA**



**Sub-1GHz Module**

### Multi-Motor Controller [HSN Code 8536]

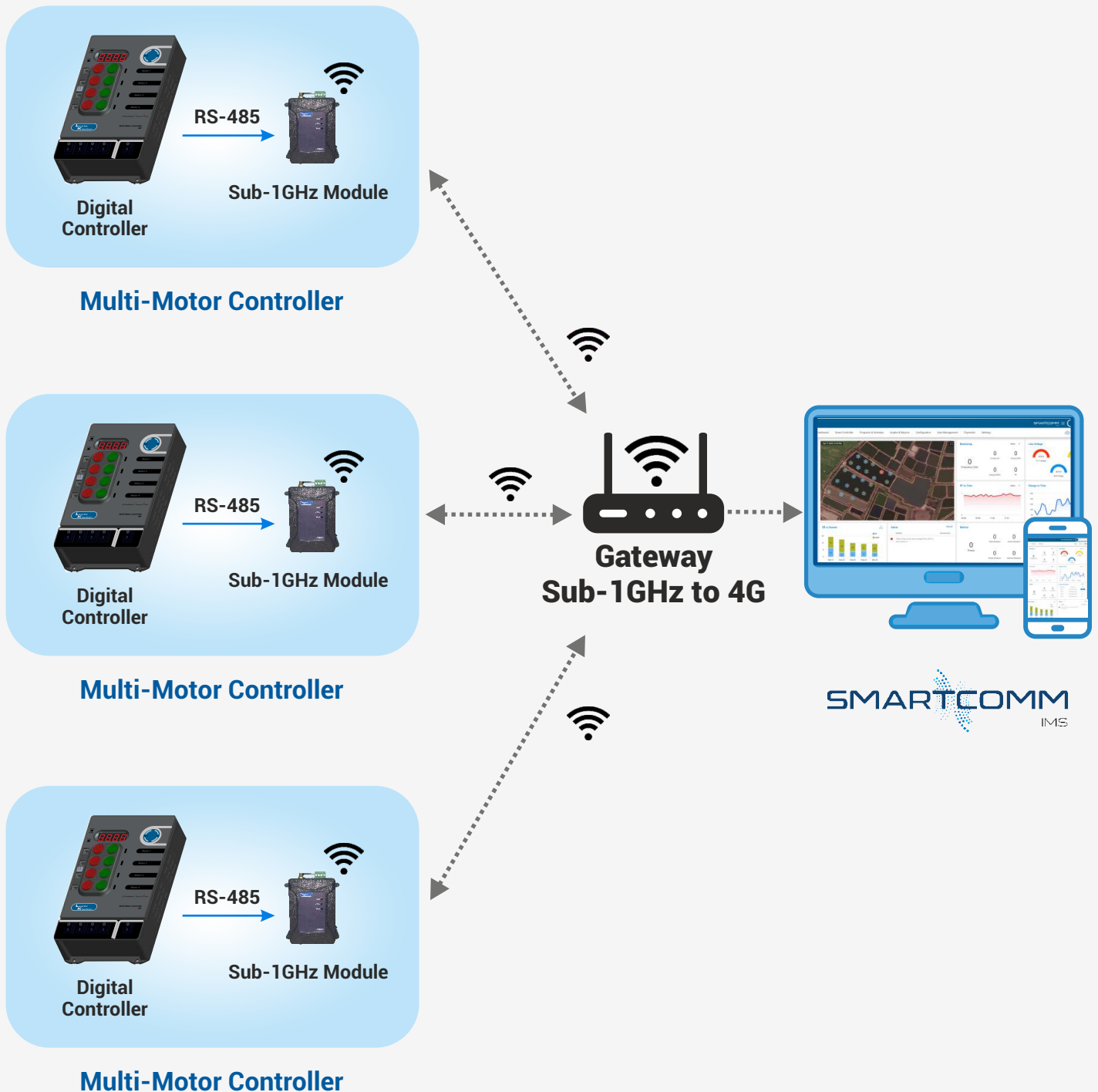
| Model   | Variant                      | Max. Pump Rating (HP) | Load Current (A) | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------|------------------------------|-----------------------|------------------|-------------|------------------|-------------------|
| MU-GiA  | 4-Motor Controller           | 3                     | 0.7-12           | CS92082DOLO | 1                | Price on Request  |
| MU-GiA  | 2-Motor Controller           | 3                     | 0.7-12           | CS92083DOLO | 1                |                   |
| MU-GiA  | 1-Motor Controller*          | 7.5                   | 1.5-22           | CS92084DODO | 1                |                   |
| xMU-GiA | 4-Motor Controller Connected | 3                     | 0.7-12           | CS92073DOLO | 1                |                   |
| xMU-GiA | 2-Motor Controller Connected | 3                     | 0.7-12           | CS92074DOLO | 1                |                   |

**Note:** \*1-Motor Controller can be used with submersible pumps up to 7.5 HP.  
\* Dry Run Protection is available in 1-Motor Controller variant.

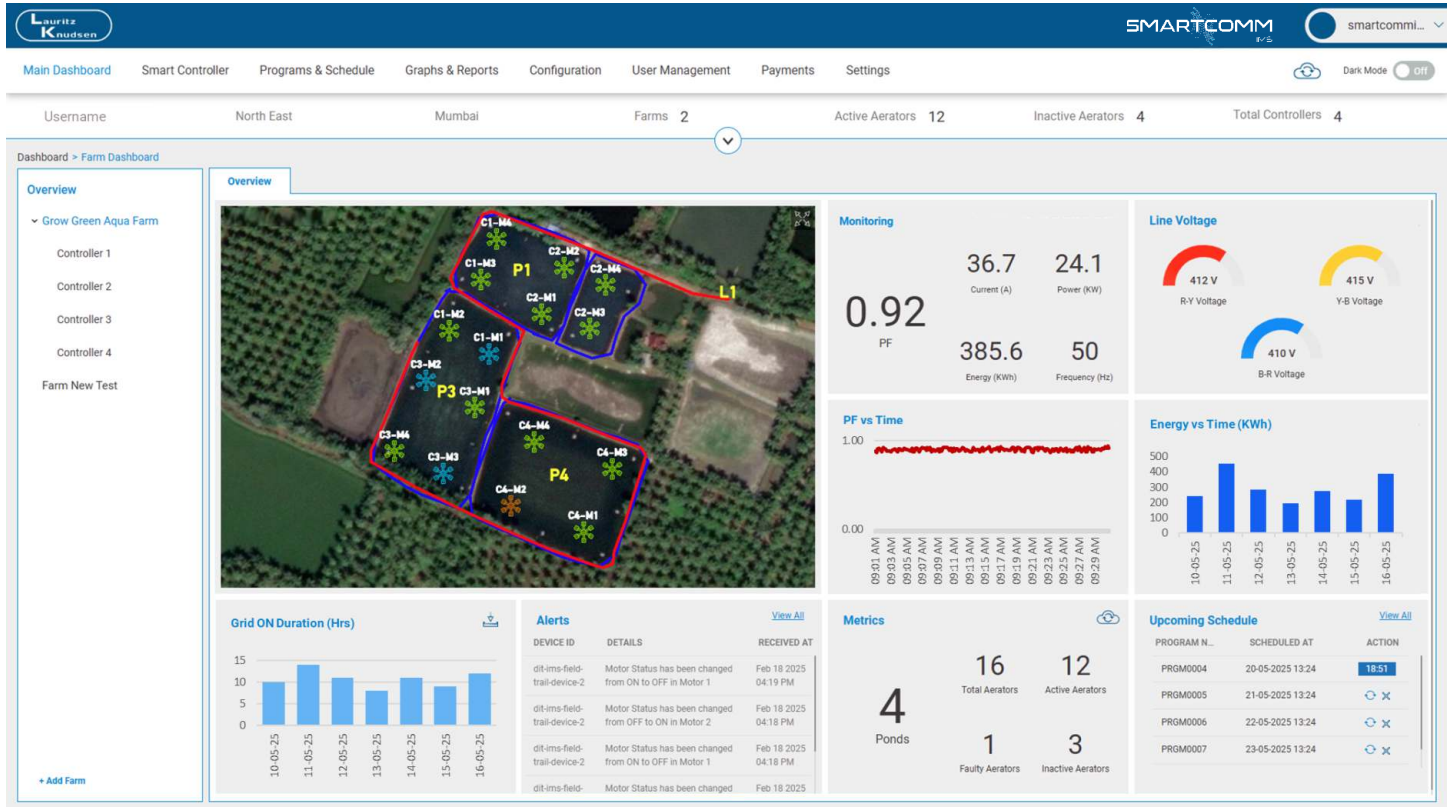
### Multi-Motor Spares [HSN Code 8536]

| Description     | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------|-------------|------------------|-------------------|
| Sub-1GHz Module | CS922550000 | 1                | Price on Request  |

# Communication with Multi-Motor Controller



# SMARTCOMM IMS



\*These visual representations are for illustrative purposes only.



**Remote Monitoring and Control**



**Graphs and Reports**



**Mobile and Web Based Application**



**Role Based Access Control**



**Overview of Total Farm**



**Multi-Lingual Support**



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# MK1 Starters



## MK1 DOL Starters [HSN Code 8536]



Interior View of MK1 DOL

| Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay Range<br>(A) | Cat. No.                                |                      |                          | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|----------------------------------------------|--------------------|-----------------------------------------|----------------------|--------------------------|---------------------|----------------------|
|                                              |                    | Coil Voltage<br>360V-W<br>(200V - 400V) | Coil Voltage<br>360V | Coil Voltage<br>400/440V |                     |                      |
| 0.25 HP                                      | 0.6 - 1            |                                         |                      | SS96210POKO              | 10                  | 2862                 |
| 0.5 HP                                       | 1 - 1.6            |                                         | SS96210COMO          | SS96210POMO              | 10                  | 2862                 |
| 1 HP                                         | 1.5 - 2.5          |                                         | SS96210COPO          | SS96210POPO              | 10                  | 2862                 |
| 2 HP                                         | 2.5 - 4            |                                         | SS96210CORO          | SS96210PORO              | 10                  | 2862                 |
| 4 HP                                         | 4 - 6.5            | SS96210SOTO                             | SS96210COTO          | SS96210POTO              | 10                  | 2862                 |
| 6 HP                                         | 6 - 10             | SS96210SOVO                             | SS96210COVO          | SS96210POVO              | 10                  | 2862                 |
| 7.5 HP                                       | 9 - 14             | SS96210SOAO                             | SS96210COAO          | SS96210POAO              | 10                  | 2862                 |
| 7.5 HP                                       | 11 - 18            | SS96211SOCO                             | SS96211COCO          | SS96211POCO              | 10                  | 2940                 |
| 7.5 HP                                       | 13 - 22            | SS96228SODO                             | SS96228CODO          | SS96228PODO              | 10                  | 3014                 |

Note : For Single Phase Starter application, please refer page no. 73.

## MK1 SASD Starters [HSN Code 8536]



Interior View of MK1 SASD

| Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay Range<br>(A) | Cat. No.             |                      | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|----------------------------------------------|--------------------|----------------------|----------------------|---------------------|----------------------|
|                                              |                    | Coil Voltage<br>360V | Coil Voltage<br>440V |                     |                      |
| 6 HP                                         | 4 - 6.5            | SS96255COTO          |                      | 1                   | 11300                |
| 10 HP                                        | 6 - 10             | SS96255COVO          | SS96255POVO          | 1                   | 11300                |
| 12.5 / 15 HP                                 | 9 - 14             | SS96255COAO          | SS96255POAO          | 1                   | 11300                |
| 15 HP                                        | 11 - 18            | SS96258COCO          | SS96258POCO          | 1                   | 11400                |
| 15 HP                                        | 13 - 22            | SS96260CODO          | SS96260PODO          | 1                   | 11550                |

## MK1 FASD Starters [HSN Code 8536]

Now with ST100 Timer



Interior View of MK1 FASD

| Suitable for Pump/Motor<br>3Ø, 415V<br>50Hz | Relay Range<br>(A) | Cat. No.             |                      | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|---------------------------------------------|--------------------|----------------------|----------------------|---------------------|----------------------|
|                                             |                    | Coil Voltage<br>360V | Coil Voltage<br>440V |                     |                      |
| 6 HP                                        | 4 - 6.5            | SS96254COTO          | SS96254POTO          | 1                   | 13500                |
| 10 HP                                       | 6 - 10             | SS96254COVO          | SS96254POVO          | 1                   | 13500                |
| 12.5 / 15 HP                                | 9 - 14             | SS96254COAO          | SS96254POAO          | 1                   | 13500                |
| 15 HP                                       | 11 - 18            | SS96257COCO          | SS96257POCO          | 1                   | 13650                |
| 15 HP                                       | 13 - 22            | SS96259CODO          | SS96259PODO          | 1                   | 13750                |

Note : Please refer page no.44 for ST100 Timer

# Spares for MK1 Starters

## MK1 Spares [HSN Code 8538]



MK1 Spares

|            | Description                                  | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------|----------------------------------------------|-------------|------------------|-------------------|
| MK1 Spares | Spare kit with hardware (4 sets of contacts) | CS909830000 | 50               | 1010              |
|            | Single moving contact                        | SS910090000 | 10               | 100               |
|            | Push button unit                             | SS900040000 | 1                | 150               |
|            | Arc shield                                   | SS500040000 | 1                | 180               |
|            | Contact bridge without contact               | SS500050000 | 1                | 180               |
|            | Aux. contact block: 1NO + 1NC                | SS901200000 | 50               | 375               |
|            | Thermal timer without combination coil       | SS902240000 | 1                | 970               |
|            | MK1 Cover Screw                              | XS000120000 | 1000             | 25                |

## MK1 Coil [HSN Code 8538]



MK1 Standard Operating Coil

|                             | Description          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------------------|----------------------|-------------|------------------|-------------------|
| MK1 Standard Operating Coil | 220V                 | SS900440000 | 10               | 325               |
|                             | 230 / 250V           | SS900450000 | 10               | 325               |
|                             | 360V                 | SS901650000 | 10               | 315               |
|                             | 400 / 440V           | SS900470000 | 10               | 315               |
| Wide Band Coil              | 360V-W (200V - 400V) | SS909930000 | 10               | 350               |

## MK1 Contactors [HSN Code 8536]



MK1 Contactor

|                | Description          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------|----------------------|-------------|------------------|-------------------|
| MK1 Contactors | 220V                 | SS95200K000 | 10               | 2290              |
|                | 230 / 250V           | SS95200N000 | 10               | 2290              |
|                | 360V                 | SS95200C000 | 10               | 2290              |
|                | 360V-W (200V - 400V) | SS95200S000 | 10               | 2290              |
|                | 400 / 440V           | SS95200P000 | 10               | 2290              |

## MK1 Combination Coil [HSN Code 8538]



MK1 Combination Coil

|                      | Description                      | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------|----------------------------------|-------------|------------------|-------------------|
| MK1 Combination Coil | Combination coils for 400 / 440V | SS904430000 | 10               | 740               |
|                      | Combination coils for 360V       | SS904460000 | 10               | 740               |

## MK1 Relays [HSN Code 8536]



MK1 Relay

| MK1 Relays | Description | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------|-------------|-------------|------------------|-------------------|
|            | 0.6 - 1A    | SS9003500KO | 10               | 1200              |
|            | 1 - 1.6A    | SS9003500MO | 10               | 1200              |
|            | 1.5 - 2.5A  | SS9003500PO | 10               | 1200              |
|            | 2.5 - 4A    | SS9003500RO | 10               | 1200              |
|            | 4 - 6.5A    | SS9003500TO | 10               | 1200              |
|            | 6 - 10A     | SS9003500VO | 10               | 1200              |
|            | 9 - 14A     | SS9003500AO | 10               | 1200              |
|            | 11 - 18A    | SS9003600CO | 10               | 1230              |
|            | 13 - 22A    | SS9188800DO | 10               | 1360              |



# MK2 Starters



## MK2 DOL Starters [HSN Code 8536]



Interior View of MK2 DOL

| Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay Range<br>(A) | Cat. No.                                |                      |                          | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|----------------------------------------------|--------------------|-----------------------------------------|----------------------|--------------------------|---------------------|----------------------|
|                                              |                    | Coil Voltage<br>360V-W<br>(200V - 400V) | Coil Voltage<br>360V | Coil Voltage<br>400/440V |                     |                      |
| 7.5 HP                                       | 13 - 22            | CS90947SODO                             | CS90947CODO          | CS90947PODO              | 10                  | 3640                 |
| 7.5 HP                                       | 20 - 32            | CS90947SOEO                             | CS90947COEO          | CS90947POEO              | 10                  | 3640                 |

## MK2 SASD Starters [HSN Code 8536]



Interior View of MK2 SASD

| Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay Range<br>(A) | Cat. No.                                |                      |                          | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|----------------------------------------------|--------------------|-----------------------------------------|----------------------|--------------------------|---------------------|----------------------|
|                                              |                    | Coil Voltage<br>360V-W<br>(200V - 400V) | Coil Voltage<br>360V | Coil Voltage<br>400/440V |                     |                      |
| 15 HP                                        | 13 - 22            | CS91582SODO                             | CS91582CODO          | CS91582PODO              | 1                   | 12700                |
| 15 HP                                        | 20 - 32            | CS91582SOEO                             | CS91582COEO          | CS91582POEO              | 1                   | 12700                |

Now with ST100 Timer

## MK2 FASD Starters [HSN Code 8536]



Interior View of MK2 FASD

| Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay Range<br>(A) | Cat. No.             |                          | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|----------------------------------------------|--------------------|----------------------|--------------------------|---------------------|----------------------|
|                                              |                    | Coil Voltage<br>360V | Coil Voltage<br>400/440V |                     |                      |
| 15 HP                                        | 13 - 22            | CS91583CODO          | CS91583PODO              | 1                   | 15200                |
| 15 HP                                        | 20 - 32            | CS91583COEO          | CS91583POEO              | 1                   | 15200                |

Note : Please refer page no.44 for ST100 Timer



# Spares for MK2 Starters

## Spares for MK2 Starters [HSN Code 8538]



MK2 Spares

|            | Description                                  | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------|----------------------------------------------|-------------|------------------|-------------------|
| MK2 Spares | Spare kit with hardware (4 sets of contacts) | CS909560000 | 50               | 1450              |
|            | Single moving contact                        | CS909510000 | 10               | 140               |
|            | Push button unit                             | SS900040000 | 1                | 150               |
|            | Arc shield                                   | CS910130000 | 1                | 180               |
|            | Contact bridge without contact               | CS910140000 | 1                | 180               |

## MK1 / MK2 Coil [HSN Code 8538]



MK1 / MK2 Standard Operating Coil

|                                   | Description          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------------------------|----------------------|-------------|------------------|-------------------|
| MK1 / MK2 Standard Operating Coil | 220V                 | SS900440000 | 10               | 325               |
|                                   | 230 / 250V           | SS900450000 | 10               | 325               |
|                                   | 360V                 | SS901650000 | 10               | 315               |
|                                   | 400 / 440V           | SS900470000 | 10               | 315               |
| Wide Band Coil                    | 360V-W (200V - 400V) | SS909930000 | 10               | 350               |

## MK2 Contactors [HSN Code 8536]



MK2 Contactor

|                | Description          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------|----------------------|-------------|------------------|-------------------|
| MK2 Contactors | 360V                 | CS90945C000 | 10               | 2600              |
|                | 360V-W (200V - 400V) | CS90945S000 | 10               | 2600              |
|                | 400 / 440V           | CS90945P000 | 10               | 2600              |

## MK2 Relays [HSN Code 8536]



MK2 Relay

|            | Description | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------|-------------|-------------|------------------|-------------------|
| MK2 Relays | 13 - 22A    | CS9094600D0 | 10               | 1540              |
|            | 20 - 32A    | CS9094600E0 | 10               | 1540              |

# MK.i Starters

## Features

- › Equipped with a built-in SPPR, hence no need of separate wire connection and mounting of SPPR.
- › It provides voltage single phase protection, phase reversal and phase unbalance protection
- › Overload protection through Thermal Overload Relay
- › Wide Band Coil provides wide voltage range for coil operation
- › Auto/Manual/Bypass mode of operation
- › Benefits of emergency rocker switch and Auto/Manual/Bypass mode toggle switch which can be accessed from outside of the starter box.
- › In-built ON Delay Timer
- › Manual lock for OFF push button



## MK.i DOL Starters [HSN Code 8536]

NEW



Interior View of MK1.i

| Starter Type | Suitable for Pump/Motor<br>3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage<br>360V-W<br>(200V - 400V) | Cat. No.          |                       | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------|-------------------------------------------|-----------------|-----------------------------------------|-------------------|-----------------------|------------------|-------------------|
|              |                                           |                 |                                         | Coil Voltage 360V | Coil Voltage 400/440V |                  |                   |
| MK1.i        | 4 HP                                      | 4-6.5           | CS91646SOTO                             | CS91646COTO       | CS91646POTO           | 10               | 3840              |
| MK1.i        | 6 HP                                      | 6-10            | CS91646SOVO                             | CS91646COVO       | CS91646POVO           | 10               | 3840              |
| MK1.i        | 7.5 HP                                    | 9-14            | CS91646SOAO                             | CS91646COAO       | CS91646POAO           | 10               | 3840              |
| MK1.i        | 7.5 HP                                    | 11-18           | CS91646SOCO                             | CS91646COCO       | CS91646POCO           | 10               | 3910              |
| MK1.i        | 7.5 HP                                    | 13-22           | CS91646SODO                             | CS91646CODO       | CS91646PODO           | 10               | 3980              |
| MK2.i        | 7.5 HP                                    | 13-22           | CS91647SODO                             | CS91647CODO       | CS91647PODO           | 10               | 4190              |
| MK2.i        | 7.5 HP                                    | 20-32           | CS91647SOEO                             | CS91647COEO       | CS91647POEO           | 10               | 4190              |

NEW

## MK1.i Contactors [HSN Code 8536]

| MK1.i Contactors | Description          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------|----------------------|-------------|------------------|-------------------|
|                  | 360V                 | CS92199C000 | 10               | 2290              |
|                  | 360V-W (200V - 400V) | CS92199S000 | 10               | 2290              |
|                  | 400 / 440V           | CS92199P000 | 10               | 2290              |

NEW

## MK2.i Contactors [HSN Code 8536]

| MK2.i Contactors | Description          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------|----------------------|-------------|------------------|-------------------|
|                  | 360V                 | CS92200C000 | 10               | 2600              |
|                  | 360V-W (200V - 400V) | CS92200S000 | 10               | 2600              |
|                  | 400 / 440V           | CS92200P000 | 10               | 2600              |

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SASD & FASD)



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# MU / MB Starters



## MU / MB DOL Starters [HSN Code 8536]



Interior View of  
MU DOL

| Starter Type                | Suitable for<br>Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|-----------------------------|-------------------------------------------------|-----------------------|----------------------|----------------------|---------------------|----------------------|
|                             |                                                 |                       | Coil Voltage<br>360V | Coil Voltage<br>415V |                     |                      |
| MU1 DOL<br>(with MU relay)  | 7.5 HP                                          | 9 - 14                | SS95647COAO          | SS95647DOAO          | 10                  | 4940                 |
|                             | 10 HP                                           | 13 - 21               | SS95647COCO          | SS95647DOCO          | 10                  | 5120                 |
|                             | 10 HP                                           | 15 - 25               | SS95647CODO          | SS95647DODO          | 10                  | 5220                 |
| MU1H DOL<br>(with MU relay) | 10 HP                                           | 15 - 25               | CS90622CODO          | CS90622DODO          | 10                  | 5560                 |
|                             | 12.5 HP                                         | 20 - 32               | CS90622COEO          | CS90622DOEO          | 10                  | 5870                 |
| MU2 DOL<br>(with MU relay)  | 12.5 HP                                         | 13 - 21               | SS95648COCO          | SS95648DOCO          | 10                  | 6470                 |
|                             | 15 HP                                           | 20 - 32               | SS95648COEO          | SS95648DOEO          | 10                  | 6900                 |
|                             | 15 HP                                           | 24 - 38               | SS95648COGO          | SS95648DOGO          | 10                  | 7090                 |
| MU3 DOL<br>(with MU relay)  | 15 HP                                           | 24 - 38               | CS90613COGO          | CS90613DOGO          | 10                  | 8100                 |
|                             | 17.5 HP                                         | 28 - 42               | CS90613COFO          | CS90613DOFO          | 10                  | 8420                 |
| MB1 DOL<br>(with MN relay)  | 7.5 HP                                          | 9 - 15                | SS95649COBO          | SS95649DOBO          | 8                   | 5980                 |
|                             | 10 HP                                           | 14 - 23               | SS95649CODO          | SS95649DODO          | 8                   | 6100                 |
| MB2 DOL<br>(with MN relay)  | 12.5 HP                                         | 14 - 23               | SS95650CODO          | SS95650DODO          | 8                   | 8270                 |
|                             | 15 HP                                           | 20 - 33               | SS95650COEO          | SS95650DOEO          | 8                   | 8650                 |

## MU / MB SASD Starters [HSN Code 8536]



Interior View of  
MU SASD

| Starter Type                | Suitable for<br>Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|-----------------------------|-------------------------------------------------|-----------------------|----------------------|----------------------|---------------------|----------------------|
|                             |                                                 |                       | Coil Voltage<br>360V | Coil Voltage<br>415V |                     |                      |
| MU1 SASD<br>(with MU relay) | 12.5 HP                                         | 9 - 14                | SS95891COAO          | SS95891DOAO          | 1                   | 14000                |
|                             | 15 HP                                           | 13 - 21               | SS95891COCO          | SS95891DOCO          | 1                   | 14200                |
| MU2 SASD<br>(with MU relay) | 20 HP                                           | 13 - 21               | SS95893COCO          | SS95893DOCO          | 1                   | 17700                |
|                             | 30 HP                                           | 20 - 32               | SS95893COEO          | SS95893DOEO          | 1                   | 18150                |
| MU3 SASD<br>(With MU Relay) | 35 HP                                           | 24 - 38               | CS91885COGO          | CS91885DOGO          | 1                   | 22880                |
|                             | 35 HP                                           | 28 - 42               | CS91886COFO          | CS91886DOFO          | 1                   | 23100                |
| MB1 SASD<br>(with MN relay) | 15 HP                                           | 14 - 23               | SS95895CODO          | SS95895DODO          | 1                   | 17300                |
| MB2 SASD<br>(with MN relay) | 20 HP                                           | 14 - 23               | SS95897CODO          | SS95897DODO          | 1                   | 20350                |
|                             | 30 HP                                           | 20 - 33               | SS95897COEO          | SS95897DOEO          | 1                   | 20850                |

## MU / MB FASD Starters [HSN Code 8536]



Interior View of  
MU FASD

| Starter Type                | Suitable for<br>Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|-----------------------------|-------------------------------------------------|-----------------------|----------------------|----------------------|---------------------|----------------------|
|                             |                                                 |                       | Coil Voltage<br>360V | Coil Voltage<br>415V |                     |                      |
| MU1 FASD<br>(with MU relay) | 12.5 HP                                         | 9 - 14                | SS95890COAO          | SS95890DOAO          | 1                   | 16470                |
|                             | 15 HP                                           | 13 - 21               | SS95890COCO          | SS95890DOCO          | 1                   | 16650                |
| MU2 FASD<br>(with MU relay) | 20 HP                                           | 13 - 21               | SS95892COCO          | SS95892DOCO          | 1                   | 19930                |
|                             | 30 HP                                           | 20 - 32               | SS95892COEO          | SS95892DOEO          | 1                   | 20370                |
| MU3 FASD<br>(With MU Relay) | 35 HP                                           | 24 - 38               | CS91887COGO          | CS91887DOGO          | 1                   | 24950                |
|                             | 35 HP                                           | 28 - 42               | CS91888COFO          | CS91888DOFO          | 1                   | 25150                |
| MB1 FASD<br>(with MN relay) | 12.5 HP                                         | 9 - 15                | SS95894COBO          | SS95894DOBO          | 1                   | 18600                |
|                             | 15 HP                                           | 14 - 23               | SS95894CODO          | SS95894DODO          | 1                   | 18800                |
| MB2 FASD<br>(with MN relay) | 20 HP                                           | 14 - 23               | SS95896CODO          | SS95896DODO          | 1                   | 23050                |
|                             | 30 HP                                           | 20 - 33               | SS95896COEO          | SS95896DOEO          | 1                   | 23480                |

**Note :** MN relay is with single phase prevention feature.



# Spares for MU / MB Starters



MU1 Contactor

## MU Contactor [HSN Code 8536]

| Component      | AC3 Rating | AC1 Rating | Type      | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------|------------|------------|-----------|-------------|-----------------|-------------------|
| MU1 Contactor  | 16A        | 55A        | MU1 360V  | CS94007C000 | 10              | 3320              |
|                |            |            | MU1 415V  | CS94007D000 | 10              | 3320              |
| MU1H Contactor | 22A        | 55A        | MU1H 360V | CS90623C000 | 10              | 3540              |
|                |            |            | MU1H 415V | CS90623D000 | 10              | 3540              |
| MU2 Contactor  | 25A        | 63A        | MU2 360V  | CS94008C000 | 10              | 4790              |
|                |            |            | MU2 415V  | CS94008D000 | 10              | 4790              |
| MU3 Contactor  | 32A        | 63A        | MU3 360V  | CS90609C000 | 10              | 5890              |
|                |            |            | MU3 415V  | CS90609D000 | 10              | 5890              |



MU1 Relay



MU2 Relay

## MU Relay [HSN Code 8536]

| Component | Type     | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|----------|-------------|-----------------|-------------------|
| MU1 Relay | 4 - 6.5A | SS9655700TO | 1               | 1520              |
|           | 6 - 10A  | SS9655700VO | 1               | 1520              |
| MU2 Relay | 9 - 14A  | SS9597900AO | 1               | 1740              |
|           | 13 - 21A | SS9597900CO | 1               | 1840              |
|           | 15 - 25A | SS9597900DO | 1               | 1990              |
|           | 20 - 32A | SS9597900EO | 1               | 2270              |
|           | 24 - 38A | SS9597900GO | 1               | 2470              |
|           | 28 - 42A | SS9597900FO | 1               | 2670              |

## MU Contactor Spares [HSN Code 8538]



MU Contact Bridge



MU ADD-ON Block

| Type                              | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------------------------|-------------|-----------------|-------------------|
| MU1 contact bridge                | CS949940000 | 10              | 185               |
| MU1H contact bridge               | CS910990000 | 10              | 185               |
| MU2 contact bridge                | CS949940000 | 10              | 185               |
| MU3 contact bridge                | CS910960000 | 10              | 185               |
| MU1 single moving contact         | CS949950000 | 1               | 205               |
| MU1H single moving contact        | CS911020000 | 1               | 305               |
| MU2 single moving contact         | CS949960000 | 1               | 435               |
| MU3 single moving contact         | CS911030000 | 1               | 590               |
| MU-Add ON Block - 1NO + 1NC (LHS) | SS940720000 | 10              | 400               |
| ADD-ON Block MU-A1 (1NC) (Left)   | SS940740000 | 10              | 310               |

## Spares For MU / MB [HSN Code 8538]



MU Spare Kit



MU Coil



MU Spare Housing



Relay Extension Knob

| Component                                    | Type | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------------|------|-------------|-----------------|-------------------|
| Spare Kit                                    | MU1  | CS940100000 | 1               | 1430              |
|                                              | MU1H | CS906240000 | 1               | 1835              |
|                                              | MU2  | CS940110000 | 1               | 2595              |
|                                              | MU3  | CS906120000 | 1               | 3180              |
| MU Coils                                     | 240V | CS94009B000 | 10              | 725               |
|                                              | 360V | CS94009C000 | 10              | 725               |
|                                              | 415V | CS94009D000 | 10              | 725               |
| Spare Relay Extension Knob (Pack of 20 Nos.) | MU1  | CS943360000 | 1               | 175               |
|                                              | MU2  | CS943370000 | 1               | 175               |
| Spare Housing                                | MU1  | CS949980000 | 10              | 380               |
|                                              | MU1H | CS910980000 | 10              | 380               |
|                                              | MU2  | CS949990000 | 10              | 380               |
|                                              | MU3  | CS910600000 | 10              | 380               |

## Electronic Star-Delta Timer [HSN Code 9107]

| Description                                                          | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|----------------------------------------------------------------------|-------------|-----------------|------------------|
| Electronic Star-Delta Timer type ST100<br>160 - 500V, for 3 - 30 sec | ST803280000 | 1               | 2090             |

Note : ST100 supplied with mounting kit, suitable for ET100 replacement.



Timer ST100



# ML Starters



## ML DOL Starters [HSN Code 8536]



Interior View of  
ML DOL

| Starter Type            | Suitable for<br>Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|-------------------------|-------------------------------------------------|-----------------------|----------------------|----------------------|---------------------|----------------------|
|                         |                                                 |                       | Coil Voltage<br>360V | Coil Voltage<br>440V |                     |                      |
| ML1.5 DOL               | 7.5 HP                                          | 9 - 14                | SS91854COAO          | SS91854POAO          | 1                   | 9960                 |
|                         | 12.5 HP                                         | 13 - 21               | SS91854COCO          | SS91854POCO          | 1                   | 9960                 |
|                         | 15 HP                                           | 20 - 32               | SS91854COEO          | SS91854POEO          | 1                   | 9960                 |
| ML2 DOL<br>(Heavy duty) | 7.5 HP                                          | 9 - 14                |                      | SS90702POAO          | 1                   | 17150                |
|                         | 10/12.5 HP                                      | 13 - 21               | SS90702COCO          | SS90702POCO          | 1                   | 17150                |
|                         | 20 HP                                           | 20 - 32               | SS90702COEO          | SS90702POEO          | 1                   | 17150                |

## ML SASD Starters [HSN Code 8536]



Interior View of  
ML SASD

| Starter Type             | Suitable for<br>Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|--------------------------|-------------------------------------------------|-----------------------|----------------------|----------------------|---------------------|----------------------|
|                          |                                                 |                       | Coil Voltage<br>360V | Coil Voltage<br>440V |                     |                      |
| ML1.5 SASD               | 20 HP                                           | 13 - 21               | SS91856COCO          | SS91856POCO          | 1                   | 23980                |
|                          | 25 HP                                           | 20 - 32               | SS91856COEO          | SS91856POEO          | 1                   | 23980                |
| ML2 SASD<br>(Heavy duty) | 20 HP                                           | 13 - 21               | SS90707COCO          | SS90707POCO          | 1                   | 42350                |
|                          | 35 HP                                           | 20 - 32               | SS90707COEO          | SS90707POEO          | 1                   | 42350                |

## ML FASD Starters [HSN Code 8536]



Interior View of  
ML FASD

| Starter Type             | Suitable for<br>Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|--------------------------|-------------------------------------------------|-----------------------|----------------------|----------------------|---------------------|----------------------|
|                          |                                                 |                       | Coil Voltage<br>360V | Coil Voltage<br>440V |                     |                      |
| ML1.5 FASD               | 12.5 HP                                         | 9 - 14                | SS91855COAO          | SS91855POAO          | 1                   | 27670                |
|                          | 20 HP                                           | 13 - 21               | SS91855COCO          | SS91855POCO          | 1                   | 27670                |
|                          | 25 HP                                           | 20 - 32               | SS91855COEO          | SS91855POEO          | 1                   | 27670                |
| ML2 FASD<br>(Heavy duty) | 12.5 HP                                         | 9 - 14                |                      | SS90705POAO          | 1                   | 44760                |
|                          | 20 HP                                           | 13 - 21               | SS90705COCO          | SS90705POCO          | 1                   | 44760                |
|                          | 35 HP                                           | 20 - 32               | SS90705COEO          | SS90705POEO          | 1                   | 44760                |

# Spares for ML Starters



ML1.5 Contactor



ML2W Contactor



Standard Operating Coil ML1.5



Standard Operating Coil ML2 / ML3



Standard Operating Coil ML4 / ML4W



Spare kit

## ML Contactor [HSN Code 8536]

| Component    | Type  | AC3 Rating (A) | AC1 Rating (A) | Aux. Contacts | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------|-------|----------------|----------------|---------------|-------------|------------------|-------------------|
| ML Contactor | ML1.5 | 25             | 25             | 2 NO + 2 NC   | SS91851C000 | 1                | 5430              |
|              | ML2W  | 32             | 40             | 2 NO + 2 NC   | CS96005L000 | 1                | 10270             |
|              | ML3W  | 40             | 45             | 2 NO + 2 NC   | CS90907L000 | 1                | 15400             |
|              | ML4W  | 70             | 100            | 2 NO + 2 NC   | CS96006L000 | 1                | 25200             |
|              | ML6W  | 110            | 125            | 2 NO + 2 NC   | CS90168L000 | 1                | 40600             |

## ML Coil [HSN Code 8538]

| Component                          | Voltage | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------------|---------|-------------|------------------|-------------------|
| Standard Operating Coils for ML1.5 | 240V    | SS90873B000 | 10               | 1065              |
|                                    | 360V    | SS90873C000 | 10               | 1065              |
|                                    | 380V    | SS90873L000 | 10               | 1065              |
|                                    | 440V    | SS90873P000 | 10               | 1065              |

|                                                          |      |             |    |      |
|----------------------------------------------------------|------|-------------|----|------|
| Standard Operating Coils for ML2/ML2W/ML3/ML3W Contactor | 240V | SS90545B000 | 10 | 1970 |
|                                                          | 360V | SS90545C000 | 10 | 1970 |
|                                                          | 380V | SS90545L000 | 10 | 1970 |
|                                                          | 440V | SS90545P000 | 10 | 1970 |

|                                                 |      |             |    |      |
|-------------------------------------------------|------|-------------|----|------|
| Standard Operating Coils for ML4/ML4W Contactor | 240V | SS91258B000 | 10 | 3860 |
|                                                 | 360V | SS91258C000 | 10 | 3860 |
|                                                 | 380V | SS91258L000 | 10 | 3860 |
|                                                 | 440V | SS91258P000 | 10 | 3860 |

## ML1.5 [HSN Code 8538]

|                                   |       |             |    |      |
|-----------------------------------|-------|-------------|----|------|
| Spare kit without coil            | ML1.5 | SS953050000 | 50 | 2750 |
| Moving contacts kit               | ML1.5 | SS928170000 | 10 | 940  |
| Front Housing & Moving Bridge kit | ML1.5 | ST287340000 | 10 | 1020 |

## ML2 [HSN Code 8538]

|                                   |     |             |    |      |
|-----------------------------------|-----|-------------|----|------|
| Spare kit without coil            | ML2 | SS953070000 | 10 | 5030 |
| Moving contacts kit               | ML2 | SS928180000 | 10 | 1470 |
| Front Housing & Moving Bridge kit | ML2 | ST238660000 | 10 | 1395 |

## ML Relay [HSN Code 8536]



ML1 Relay



ML2 / ML3 Relay

| Type of Mounting (Operation)           | Relay Range (A) | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------|-----------------|-------------|-----------------|-------------------|
| (Directly Operated)<br>Direct Mounting | ML1             |             |                 |                   |
|                                        | 4 - 6.5         | SS9185800TO | 10              | 3760              |
|                                        | 6 - 10          | SS9185800VO | 10              | 3760              |
|                                        | 10 - 16         | SS9185800BO | 10              | 3760              |
| (Directly Operated)<br>Direct Mounting | ML2 / ML3       |             |                 |                   |
|                                        | 9 - 14          | SS9185900AO | 2               | 5560              |
|                                        | 13 - 21         | SS9185900CO | 2               | 5560              |
|                                        | 20 - 32         | SS9185900EO | 2               | 5560              |
|                                        | 28 - 42         | SS9185900FO | 2               | 5560              |



# MN / ML Starters

## MN / ML DOL Starters [HSN Code 8536]

in Sheet-Steel Enclosure Type MN / ML  
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)



MN 16



ML 3

| Max. Motor Output at 415V, 3-Ph |      | Relay\Max. Range (A) | Description | Cat. No. | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------|------|----------------------|-------------|----------|------------------|-------------------|
| HP                              | kW   |                      |             |          |                  |                   |
| 10                              | 7.5  | 9 - 15               | MN 16 DOL   | SS94351  | 1                | 5500              |
| 15                              | 11   | 14 - 23              | MN 25 DOL   | SS94352  | 1                | 8390              |
| 20                              | 15   | 20 - 33              | MN 32 DOL   | SS94353  | 1                | 13500             |
| 30                              | 22.5 | 30 - 50              | MN 45 DOL   | SS94017  | 1                | 23100             |
| 45                              | 33.5 | 45 - 75              | MN 65 DOL   | SS94018  | 1                | 31700             |
| 30                              | 22.5 | 28 - 42              | ML 3 DOL    | SS90722  | 1                | 29800             |

## MN / ML FASD Starters [HSN Code 8536]

in Sheet-Steel Enclosure Type MN / ML  
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)

| Max. Motor Output at 415V, 3-Ph |      | Relay\Max. Range (A) | Description | Cat. No. | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------|------|----------------------|-------------|----------|------------------|-------------------|
| HP                              | kW   |                      |             |          |                  |                   |
| 17.5                            | 13   | 9 - 15               | MN 16 FASD  | SS94362  | 1                | 18500             |
| 30                              | 22.5 | 14 - 23              | MN 25 FASD  | SS94364  | 1                | 20700             |
| 40                              | 30   | 20 - 33              | MN 32 FASD  | SS94366  | 1                | 34000             |
| 50                              | 37.5 | 30 - 50              | MN 45 FASD  | SS94021  | 1                | 54600             |
| 75                              | 55   | 45 - 75              | MN 65 FASD  | SS94022  | 1                | 90600             |
| 90                              | 67.5 | 45 - 75              | MN 80 FASD  | SS94705  | 1                | 98900             |
| 150                             | 110  | 66 - 110             | MN 110 FASD | SS94706  | 1                | 129600            |
| 180                             | 132  | 90 - 150             | MN 140 FASD | SS94707  | 1                | 141500            |
| 50                              | 37.5 | 28 - 42              | ML3 FASD    | SS90730  | 1                | 71900             |
| 75                              | 55   | 45 - 75              | ML4 FASD    | SS90913  | 1                | 123200            |
| 125                             | 90   | 66 - 110             | ML6 FASD    | SS90923  | 1                | 202100            |

## Ordering Suffix for ML & MN Starters

| Coil Voltages |  | Relay Range (A) |               |
|---------------|--|-----------------|---------------|
|               |  | ML              | MN            |
| B - 240 V     |  | A : 9 - 14      | B : 9 - 15    |
| C - 360 V     |  | B : 10 - 16     | D : 14 - 23   |
| D - 415 V     |  | C : 13 - 21     | E : 20 - 33   |
| P - 440 V     |  | E : 20 - 32     | G : 30 - 50   |
|               |  | F : 28 - 42     | J : 45 - 75   |
|               |  | G : 30 - 50     | K : 66 - 110  |
|               |  | J : 45 - 75     | Q : 2 - 3.3   |
|               |  | K : 66 - 110    | S : 3 - 5     |
|               |  | M : 90 - 150    | T : 36 - 60   |
|               |  | P : 135 - 225   | U : 4.5 - 7.5 |
|               |  | Q : 180 - 310   | V : 6 - 10    |
|               |  | R : 2.5 - 4     | M : 90 - 150  |
|               |  | T : 13 - 21     |               |

## Spares for MN Starters [HSN Code 8538]

| Description                            | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------|-------------|------------------|-------------------|
| Bracket for Mounting cont. MNX 25 - 32 | SS940300000 | 20               | 180               |
| MN DOL/FASD Push Button                | SS939410000 | 10               | 310               |

## Timers

### Electronic Timers Type ST100 [HSN Code 9107]

| Description                | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------|-------------|------------------|-------------------|
| 240 / 360 / 415V, 50Hz for |             |                  |                   |
| 12 - 120 secs.             | ST803290000 | 1                | 2090              |

**Note:**

ST 100 supplied with Mounting Kit, suitable for ET 100 replacement.

For Complete range of Timing Devices, please refer the Panel Accessories Price List.

# Operate your pump from anywhere at anytime

## M-POWER Pro



### EASE OF OPERATION

Ease and convenience in operating pump from anywhere, anytime through SMS, IVRS and SMARTCOMM app



### COMPLETE PROTECTION

Offers dry run protection with dry run reset and protection from OV, UV, Phase Loss, Phase Reversal & Phase unbalance



### EASE IN MONITORING

Easily check key parameters such as pump status(ON/OFF), metering, etc from the convenience of the SMARTCOMM app



### CONVENIENCE IN USAGE

The same device can be used with both 3-phase DOL and Star - Delta starters, eliminating the need for any additional device.



### SELECTIVE PROTECTION

Easily enable or disable individual protection features based on your needs. Customise voltage and current settings to suit your specific requirements.



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# MU-Automatic DOL Starters



Now available with emergency  
OFF rocker switch

## MU-Automatic DOL Starter [HSN Code 8536]



Interior View of MU-A DOL

| Starter Type                  | Suitable for<br>Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std.Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|-------------------------------|-------------------------------------------------|-----------------------|----------------------|----------------------|--------------------|----------------------|
|                               |                                                 |                       | Coil Voltage<br>360V | Coil Voltage<br>415V |                    |                      |
| MU-1A DOL<br>(with Sz5 SPPR)  | 3 HP                                            | 4 - 6.5               | CS90898COTO          | CS90898DOTO          | 1                  | 7070                 |
|                               | 5 HP                                            | 6 - 10                | CS90898COVO          | CS90898DOVO          | 1                  | 7070                 |
|                               | 7.5 HP                                          | 9 - 14                | CS90898COAO          | CS90898DOAO          | 1                  | 7200                 |
|                               | 10 HP                                           | 13 - 21               | CS90898COCO          | CS90898DOCOCO        | 1                  | 7330                 |
|                               | 10 HP                                           | 15 - 25               | CS90898CODO          | CS90898DODO          | 1                  | 7470                 |
| MU-1HA DOL<br>(with Sz5 SPPR) | 10 HP                                           | 15 - 25               | CS90899CODO          | CS90899DODO          | 1                  | 7760                 |
|                               | 12.5 HP                                         | 20 - 32               | CS90899COEO          | CS90899DOEO          | 1                  | 7990                 |
| MU-2A DOL<br>(with Sz5 SPPR)  | 12.5 HP                                         | 13 - 21               | CS90900COCO          |                      | 1                  | 8760                 |
|                               | 15 HP                                           | 20 - 32               | CS90900COEO          | CS90900DOEO          | 1                  | 9100                 |
|                               | 15 HP                                           | 24 - 38               | CS90900COGO          | CS90900DOGO          | 1                  | 9260                 |
| MU-3A DOL<br>(with Sz5 SPPR)  | 15 HP                                           | 24 - 38               | CS90901COGO          | CS90901DOGO          | 1                  | 9630                 |
|                               | 17.5 HP                                         | 28 - 42               | CS90901COFO          | CS90901DOFO          | 1                  | 9850                 |



# MU-M DOL Starters

- › In-built with M-POWER Pro, no extra wiring needed - easy installation
- › Operate and monitor your pump via SMS, IVRS, Call, or **SMARTCOMM** App
- › Offers protection from phase loss, voltage imbalance, phase reversal, over voltage, under voltage and dry run fault with individual protection Enable/Disable feature
- › Auto/Manual/Bypass mode of operation
- › Up to 4 users along with 1 master can be connected for controlling your pump operation



Available with in-built  
M-POWER Pro

NEW

## MU-M DOL Starter [HSN Code 8536]

| Starter Type | Suitable for Pump/<br>Motor 3Ø, 415V, 50Hz | Relay Range<br>(A) | Cat. No.             |                      | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|--------------|--------------------------------------------|--------------------|----------------------|----------------------|---------------------|----------------------|
|              |                                            |                    | Coil Voltage<br>360V | Coil Voltage<br>415V |                     |                      |
| MU-1M        | 3 HP                                       | 4-6.5              | CS92215COTO          | CS92215DOTO          | 1                   | 20240                |
|              | 5 HP                                       | 6-10               | CS92215COVO          | CS92215DOVO          | 1                   | 20240                |
|              | 7.5 HP                                     | 9-14               | CS92215COAO          | CS92215DOAO          | 1                   | 20240                |
|              | 10 HP                                      | 13-21              | CS92215COCO          | CS92215DOCOC         | 1                   | 20240                |
|              | 10 HP                                      | 15-25              | CS92215CODO          | CS92215DODO          | 1                   | 20240                |
| MU-1HM       | 12.5 HP                                    | 15-25              | CS92216CODO          | CS92216DODO          | 1                   | 20450                |
|              | 12.5 HP                                    | 20-32              | CS92216COEO          | CS92216DOEO          | 1                   | 20450                |
| MU-2M        | 12.5 HP                                    | 13-21              | CS92217COCO          |                      | 1                   | 21620                |
|              | 15 HP                                      | 20-32              | CS92217COEO          | CS92217DOEO          | 1                   | 21620                |
|              | 15 HP                                      | 24-38              | CS92217COGO          | CS92217DOGO          | 1                   | 21620                |
| MU-3M        | 17.5 HP                                    | 24-38              | CS92218COGO          | CS92218DOGO          | 1                   | 22800                |
|              | 20 HP                                      | 28-42              | CS92218COFO          | CS92218DOFO          | 1                   | 22800                |

## Upcoming

### MU-AS Starter [HSN Code 8536]

| Starter Type | Suitable for Pump/Motor<br>3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.             |                      | Std. Pkg.<br>(Nos.) |
|--------------|-------------------------------------------|-----------------|----------------------|----------------------|---------------------|
|              |                                           |                 | Coil Voltage<br>360V | Coil Voltage<br>415V |                     |
| MU-1AS       | 3 HP                                      | 4-6.5           | CS92201COTO          | CS92201DOTO          | 1                   |
|              | 5 HP                                      | 6-10            | CS92201COVO          | CS92201DOVO          | 1                   |
|              | 7.5 HP                                    | 9-14            | CS92201COAO          | CS92201DOAO          | 1                   |
|              | 10 HP                                     | 11-18           | CS92201COCO          | CS92201DOCOC         | 1                   |
|              | 10 HP                                     | 13-22           | CS92201CODO          | CS92201DODO          | 1                   |
| MU-2AS       | 12.5 HP                                   | 13-22           | CS92202CODO          | CS92202DODO          | 1                   |
|              | 15 HP                                     | 20-32           | CS92202COEO          | CS92202DOEO          | 1                   |

# MF1 Three Phase Starters



## MF1 Three Phase Starters [HSN Code 8536]



Interior View of MF1 DOL - 3Ø Starter

| Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------|-----------------|-------------|-----------------|-------------------|
| 0.125 HP                               | 0.4 - 0.65      | SS9721000HO | 1               | 2760              |
| 0.25 HP                                | 0.6 - 1         | SS9721000KO | 1               | 2760              |
| 0.5 HP                                 | 1 - 1.6         | SS9721000MO | 1               | 2760              |
| 1.25 HP                                | 1.5 - 2.5       | SS9721000PO | 1               | 2760              |
| 2 HP                                   | 2.5 - 4         | SS9721000RO | 1               | 2760              |
| 4 HP                                   | 4 - 6.5         | SS9721000TO | 1               | 2760              |
| 6 HP                                   | 6 - 10          | SS9721000VO | 1               | 2760              |
| 7.5 HP                                 | 9 - 15          | SS9721000BO | 1               | 2760              |
| 7.5 HP                                 | 11 - 18         | SS9721000CO | 1               | 2760              |

**Note:** These are make-to-order products and are subject to availability. Please contact the nearest sales office for order queries and further details.



For Your Pump Applications

# DY125U MCCB



25A to 100A,  
3P, 415 V AC



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Marking



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(Ics=100%Icu)



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# Automatic Operation With Extra Protection **STARTER+**



## MD Starter+

With *i*-ADSM - Current Sensing-Based Protection  
With *i*-VD SM - Voltage Sensing-Based Protection



**Dry Run  
Protection**



**Current/Voltage Based Protections:**  
Phase Loss, Phase Unbalance,  
Phase Reversal



**Under Voltage and  
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# MD Starter+



## MD Starter+ DOL [HSN CODE 8536]

| Starter Type | Suitable for Pump/ Motor (3Ø, 415V, 50Hz) | i-PROTECTOR | Relay Range (A) | Cat. No.           |                    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------|-------------------------------------------|-------------|-----------------|--------------------|--------------------|-----------------|-------------------|
|              |                                           |             |                 | Coil Voltage 360 V | Coil Voltage 415 V |                 |                   |
| MD1-iU       | 5 HP                                      | i-ADSM      | 6-10            |                    | CS91753DOVO        | 1               | 10100             |
| MD1-iU       | 7.5 HP                                    | i-ADSM      | 9-14            | CS91753COAO        | CS91753DOAO        | 1               | 10100             |
| MD1-iU       | 10 HP                                     | i-ADSM      | 13-21           | CS91753COCO        | CS91753DOCO        | 1               | 10170             |
| MD1-iU       | 10 HP                                     | i-ADSM      | 15-25           | CS91753CODO        | CS91753DODO        | 1               | 10270             |
| MD1H-iU      | 12.5 HP                                   | i-ADSM      | 13-21           | CS91754COCO        | CS91754DOCO        | 1               | 10370             |
| MD1H-iU      | 12.5 HP                                   | i-ADSM      | 15-25           | CS91754CODO        | CS91754DODO        | 1               | 10500             |
| MD1H-iU      | 12.5 HP                                   | i-ADSM      | 20-32           | CS91754COEO        | CS91754DOEO        | 1               | 10650             |
| MD2-iU       | 12.5 HP                                   | i-ADSM      | 13-21           | CS91755COCO        | CS91755DOCO        | 1               | 11370             |
| MD2-iU       | 12.5 HP                                   | i-ADSM      | 15-25           | CS91755CODO        | CS91755DODO        | 1               | 11470             |
| MD2-iU       | 15 HP                                     | i-ADSM      | 20-32           | CS91755COEO        | CS91755DOEO        | 1               | 11600             |
| MD2-iU       | 15 HP                                     | i-ADSM      | 24-38           | CS91755COGO        | CS91755DOGO        | 1               | 11700             |
| MD3-iU       | 17.5 HP                                   | i-ADSM      | 20-32           | CS91756COEO        | CS91756DOEO        | 1               | 12120             |
| MD3-iU       | 17.5 HP                                   | i-ADSM      | 24-38           | CS91756COGO        | CS91756DOGO        | 1               | 12200             |
| MD3-iU       | 20 HP                                     | i-ADSM      | 28-42           | CS91756COFO        | CS91756DOFO        | 1               | 12280             |
| MD1-iU       | 7.5 HP                                    | i-VDSM      | 9-14            | CS91757COAO        | CS91757DOAO        | 1               | 10100             |
| MD1-iU       | 10 HP                                     | i-VDSM      | 13-21           | CS91757COCO        | CS91757DOCO        | 1               | 10170             |
| MD1-iU       | 10 HP                                     | i-VDSM      | 15-25           | CS91757CODO        | CS91757DODO        | 1               | 10270             |
| MD1H-iU      | 12.5 HP                                   | i-VDSM      | 13-21           | CS91758COCO        | CS91758DOCO        | 1               | 10370             |
| MD1H-iU      | 12.5 HP                                   | i-VDSM      | 15-25           | CS91758CODO        | CS91758DODO        | 1               | 10500             |
| MD1H-iU      | 12.5 HP                                   | i-VDSM      | 20-32           | CS91758COEO        | CS91758DOEO        | 1               | 10650             |
| MD2-iU       | 12.5 HP                                   | i-VDSM      | 13-21           | CS91759COCO        | CS91759DOCO        | 1               | 11370             |
| MD2-iU       | 12.5 HP                                   | i-VDSM      | 15-25           | CS91759CODO        | CS91759DODO        | 1               | 11470             |
| MD2-iU       | 15 HP                                     | i-VDSM      | 20-32           | CS91759COEO        | CS91759DOEO        | 1               | 11600             |
| MD2-iU       | 15 HP                                     | i-VDSM      | 24-38           | CS91759COGO        | CS91759DOGO        | 1               | 11700             |
| MD3-iU       | 17.5 HP                                   | i-VDSM      | 20-32           | CS91760COEO        | CS91760DOEO        | 1               | 12120             |
| MD3-iU       | 17.5 HP                                   | i-VDSM      | 24-38           | CS91760COGO        | CS91760DOGO        | 1               | 12200             |
| MD3-iU       | 20 HP                                     | i-VDSM      | 28-42           | CS91760COFO        | CS91760DOFO        | 1               | 12280             |



Interior View of MD Starter+ DOL Starter

## MD Starter+ FASD [HSN CODE 8536]

| Starter Type | Suitable for Pump/ Motor (3Ø, 415V, 50Hz) | i-PROTECTOR | Relay Range (A) | Cat. No.           |                    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------|-------------------------------------------|-------------|-----------------|--------------------|--------------------|-----------------|-------------------|
|              |                                           |             |                 | Coil Voltage 360 V | Coil Voltage 415 V |                 |                   |
| MD1-iU       | 10 HP                                     | i-ADSM      | 6-10            |                    | CS91778DOVO        | 1               | 19700             |
| MD1-iU       | 15 HP                                     | i-ADSM      | 9-14            | CS91778COAO        | CS91778DOAO        | 1               | 19700             |
| MD1-iU       | 20 HP                                     | i-ADSM      | 13-21           | CS91778COCO        | CS91778DOCO        | 1               | 19900             |
| MD1H-iU      | 25 HP                                     | i-ADSM      | 15-25           | CS91779COEO        | CS91779DOEO        | 1               | 20800             |
| MD2-iU       | 20 HP                                     | i-ADSM      | 13-21           | CS91780COCO        | CS91780DOCO        | 1               | 24270             |
| MD2-iU       | 25 HP                                     | i-ADSM      | 15-25           | CS91780CODO        | CS91780DODO        | 1               | 24470             |
| MD2-iU       | 30 HP                                     | i-ADSM      | 20-32           | CS91780COEO        | CS91780DOEO        | 1               | 24770             |
| MD2-iU       | 30 HP                                     | i-ADSM      | 28-42           | CS91780COFO        | CS91780DOFO        | 1               | 25320             |
| MD3-iU       | 30 HP                                     | i-ADSM      | 20-32           | CS91781COEO        | CS91781DOEO        | 1               | 28780             |
| MD3-iU       | 30 HP                                     | i-ADSM      | 24-38           | CS91781COGO        | CS91781DOGO        | 1               | 29100             |
| MD3-iU       | 30 HP                                     | i-ADSM      | 28-42           | CS91781COFO        | CS91781DOFO        | 1               | 29300             |
| MD1-iU       | 15 HP                                     | i-VDSM      | 9-14            | CS91768COAO        | CS91768DOAO        | 1               | 19700             |
| MD1-iU       | 20 HP                                     | i-VDSM      | 13-21           | CS91768COCO        | CS91768DOCO        | 1               | 19900             |
| MD1H-iU      | 25 HP                                     | i-VDSM      | 15-25           | CS91782COEO        | CS91782DOEO        | 1               | 20800             |
| MD2-iU       | 20 HP                                     | i-VDSM      | 13-21           | CS91783COCO        | CS91783DOCO        | 1               | 24270             |
| MD2-iU       | 25 HP                                     | i-VDSM      | 15-25           | CS91783CODO        | CS91783DODO        | 1               | 24470             |
| MD2-iU       | 30 HP                                     | i-VDSM      | 20-32           | CS91783COEO        | CS91783DOEO        | 1               | 24770             |
| MD2-iU       | 30 HP                                     | i-VDSM      | 28-42           | CS91783COFO        | CS91783DOFO        | 1               | 25320             |
| MD3-iU       | 30 HP                                     | i-VDSM      | 20-32           | CS91784COEO        | CS91784DOEO        | 1               | 28780             |
| MD3-iU       | 30 HP                                     | i-VDSM      | 24-38           | CS91784COGO        | CS91784DOGO        | 1               | 29100             |
| MD3-iU       | 30 HP                                     | i-VDSM      | 28-42           | CS91784COFO        | CS91784DOFO        | 1               | 29300             |



# MU-GS SMART CONTROLLER

A complete solution for smart and sustainable irrigation



AVAILABLE  
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# MU-G6 / 7.5 / 10 Three Phase Submersible Pump Controllers (With Single Phase Preventer)



## MU-G6 DOL (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G6 DOL

| Type      | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage       | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|---------------------------------------------------|-----------------|--------------------|-------------|-----------------|-------------------|
| MU-G6 DOL | 3 HP                                              | 4 - 6.5         | 360V-W (200V-400V) | SS97756COTO | 1               | 8950              |
|           | 5 HP                                              | 6 - 10          | 360V-W (200V-400V) | SS97756COVO | 1               | 8950              |
|           | 6 HP                                              | 9 - 14          | 360V-W (200V-400V) | SS97756COAO | 1               | 8950              |

## MU-G7.5 DOL (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G7.5 DOL

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |     | Relay Range (A) | Coil Voltage         | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------------|---------------------------------------------------|-----|-----------------|----------------------|-------------|-----------------|-------------------|
|             | HP                                                | KW  |                 |                      |             |                 |                   |
| MU-G7.5 DOL | 7.5                                               | 5.5 | 13 - 22         | 360V-W (200V - 400V) | CS92103SODO | 1               | 9530              |
|             | 7.5                                               | 5.5 | 20 - 32         | 360V-W (200V - 400V) | CS92103SOEO | 1               | 9530              |

## MU-G10 DOL (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G10 DOL

| Type                     | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |         | Relay Range (A) | Cat. No.          |                   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------------|---------------------------------------------------|---------|-----------------|-------------------|-------------------|-----------------|-------------------|
|                          | HP                                                | KW      |                 | Coil Voltage 360V | Coil Voltage 415V |                 |                   |
| MU-G10 DOL               | 3                                                 | 2.2     | 4 - 6.5         | SS95983COTO       | SS95983DOTO       | 1               | 10390             |
|                          | 5                                                 | 3.7     | 6 - 10          | SS95983COVO       | SS95983DOVO       | 1               | 10390             |
|                          | 6                                                 | 4.5     | 9 - 14          | SS95983COAO       | SS95983DOAO       | 1               | 10500             |
|                          | 7.5/10                                            | 5.5/7.5 | 13 - 21         | SS95983COCO       | SS95983DOCOC      | 1               | 10700             |
| MU-G10HN DOL             | 10                                                | 7.5     | 15 - 25         | CS92102CODO       | CS92102DODO       | 1               | 10880             |
|                          | 10                                                | 7.5     | 20 - 32         | CS92102COEO       | CS92102DOEO       | 1               | 11080             |
| MU-G10H DOL (Heavy duty) | 10                                                | 7.5     | 20 - 32         | SS95974COEO       | SS95974DOEO       | 1               | 12100             |
|                          | 10                                                | 7.5     | 28 - 42         | SS95974COFO       | SS95974DOFO       | 1               | 12400             |

# MU-G15 / 17.5 / 20 / 25 Three Phase Submersible Pump Controllers (With Single Phase Preventer)



## MU-G15 FASD (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G15 FASD

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |     | Relay Range (A) | Cat. No.                          | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------------|---------------------------------------------------|-----|-----------------|-----------------------------------|-----------------|-------------------|
|             | HP                                                | KW  |                 | Coil Voltage 360V-W (200V - 400V) |                 |                   |
| MU-G15 FASD | 7.5                                               | 5.5 | 6 - 10          | CS94091SOVO                       | 1               | 17430             |
|             | 10                                                | 7.5 | 9 - 14          | CS94091SOAO                       | 1               | 17430             |
|             | 15                                                | 11  | 11 - 18         | CS94091SOCO                       | 1               | 17600             |
|             | 15                                                | 11  | 13 - 22         | CS94091SODO                       | 1               | 17670             |

## MU-G17.5 FASD (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G17.5 FASD

| Type          | Suitable for<br>Pump/Motor 3Ø,<br>415V, 50Hz | Relay<br>Range<br>(A) | Cat. No.                                | Std.Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|---------------|----------------------------------------------|-----------------------|-----------------------------------------|--------------------|----------------------|
|               | HP                                           |                       | Coil Voltage<br>360V-W<br>(200V - 400V) |                    |                      |
| MU-G17.5 FASD | 17.5                                         | 13 - 22               | CS91880SODO                             | 1                  | 19280                |
|               | 17.5                                         | 20 - 32               | CS91880SOEO                             | 1                  | 19280                |

## MU-G20 FASD (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G20 FASD

| Type                      | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |       | Relay Range (A) | Cat. No.          |                   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------|---------------------------------------------------|-------|-----------------|-------------------|-------------------|-----------------|-------------------|
|                           | HP                                                | KW    |                 | Coil Voltage 360V | Coil Voltage 415V |                 |                   |
|                           |                                                   |       |                 |                   |                   |                 |                   |
| MU-G20 FASD               | 10                                                | 7.5   | 9 - 14          | SS95984COAO       | SS95984DOAO       | 1               | 20420             |
|                           | 15/20                                             | 11/15 | 13 - 21         | SS95984COCO       | SS95984DOCO       | 1               | 20540             |
| MU-G20HN FASD             | 20                                                | 15    | 15 - 25         | CS92101CODO       | CS92101DODO       | 1               | 21470             |
|                           | 20                                                | 15    | 20 - 32         | CS92101COEO       | CS92101DOEO       | 1               | 21760             |
| MU-G20H FASD (Heavy duty) | 20                                                | 15    | 20 - 32         | SS95975COEO       | SS95975DOEO       | 1               | 25370             |
|                           | 20                                                | 15    | 28 - 42         | SS95975COFO       | SS95975DOFO       | 1               | 25920             |



Interior View of  
MU-G25 FASD

**MU-G25 FASD (With Wideband Coil) [HSN Code 8536]**

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz HP | Relay Range (A) | Cat. No.          |                   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------------|------------------------------------------------------|-----------------|-------------------|-------------------|-----------------|-------------------|
|             |                                                      |                 | Coil Voltage 360V | Coil Voltage 415V |                 |                   |
| MU-G25 FASD | 25                                                   | 24 - 38         | CS91969COGO       | CS91969DOGO       | 1               | 31000             |
|             | 25                                                   | 28 - 42         | CS91969COFO       | CS91969DOFO       | 1               | 31300             |



# MU-G30 / 40 / 50 / 75 Three Phase Submersible Pump Controllers (With Single Phase Preventer)



With ML Contactor & MN5 Relay

## MU-G30 FASD (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G30 FASD

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----------------|--------------|-------------|-----------------|------------------|
| MU-G30 FASD | 20 HP                                             | 20 - 33         | 380V         | CS96008COEO | 1               | 40200            |
|             | 30 HP                                             | 30 - 50         | 380V         | CS96008COGO | 1               | 41200            |

## MU-G40 FASD (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G40 FASD

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----------------|--------------|-------------|-----------------|------------------|
| MU-G40 FASD | 30 HP                                             | 30 - 50         | 380V         | CS90908LOGO | 1               | 48850            |
|             | 40 HP                                             | 36 - 60         | 380V         | CS90908LOTO | 1               | 49650            |

## MU-G50 FASD (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G50 FASD

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----------------|--------------|-------------|-----------------|------------------|
| MU-G50 FASD | 30 HP                                             | 30 - 50         | 380V         | CS96009COGO | 1               | 65200            |
|             | 50 HP                                             | 45 - 75         | 380V         | CS96009COJO | 1               | 67200            |

## MU-G75 FASD (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G75 FASD

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----------------|--------------|-------------|-----------------|------------------|
| MU-G75 FASD | 50 HP                                             | 45 - 75         | 380V         | CS96451LOJO | 1               | 93200            |
|             | 75 HP                                             | 66 - 110        | 380V         | CS96451LOKO | 1               | 93200            |

# MU-G 10W / 20W / 30W Three Phase Submersible Controllers (With WLC & SPPR)



## MU-G10W DOL (With Wideband Coil) [HSN Code 8536]

| Type                                       | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |     | Relay Range (A) | Cat. No.          |                   | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|--------------------------------------------|---------------------------------------------------|-----|-----------------|-------------------|-------------------|-----------------|------------------|
|                                            | HP                                                | KW  |                 | Coil Voltage 360V | Coil Voltage 415V |                 |                  |
| MU-G10W DOL with in-built WLC              | 3                                                 | 2.2 | 4 - 6.5         | CS91037COTO       | CS91037DOTO       | 1               | 15620            |
|                                            | 5                                                 | 3.7 | 6 - 10          | CS91037COVO       | CS91037DOVO       | 1               | 15620            |
|                                            | 7.5                                               | 5.5 | 9 - 14          | CS91037COAO       | CS91037DOAO       | 1               | 15620            |
| MU-G10W DOL (Heavy duty) with in-built WLC | 10                                                | 7.5 | 13 - 21         | CS91037COCO       | CS91037DOCO       | 1               | 15620            |
|                                            | 10                                                | 7.5 | 20 - 32         |                   | CS91037DOEO       | 1               | 17640            |
|                                            | 10                                                | 7.5 | 28 - 42         | CS91037COFO       |                   | 1               | 17640            |

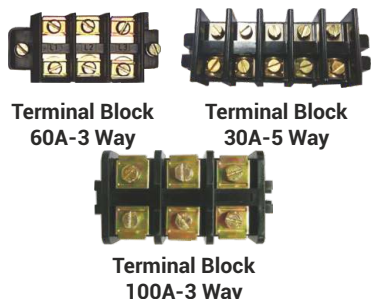
## MU-G20W FASD (With Wideband Coil) [HSN Code 8536]

| Type                                        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |    | Relay Range (A) | Cat. No.          |                   | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------------------------|---------------------------------------------------|----|-----------------|-------------------|-------------------|-----------------|------------------|
|                                             | HP                                                | KW |                 | Coil Voltage 360V | Coil Voltage 415V |                 |                  |
| MU-G20W FASD with in-built WLC              | 15                                                | 11 | 9 - 14          |                   | CS91038DOAO       | 1               | 26680            |
|                                             | 20                                                | 15 | 13 - 21         | CS91038COCO       | CS91038DOCO       | 1               | 26680            |
| MU-G20W FASD (Heavy duty) with in-built WLC | 20                                                | 15 | 20 - 32         | CS91038COEO       | CS91038DOEO       | 1               | 31900            |
|                                             | 20                                                | 15 | 28 - 42         |                   | CS91038DOFO       | 1               | 31900            |

## MU-G30W FASD (With Wideband Coil) [HSN Code 8536]

| Type                           | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|--------------------------------|---------------------------------------------------|-----------------|--------------|-------------|-----------------|------------------|
| MU-G30W FASD with in-built WLC | 30 HP                                             | 30 - 50         | 380V         | CS91039COGO | 1               | 49500            |

# Spares for MU-G Submersible Pump Controllers



## Terminal Block [HSN Code 8538]

| Description                                 | Cat. No.     | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------------------------|--------------|------------------|------------------|
| Terminal Block 30A - 5 way (For MR-G2)      | CS9603200000 | 1                | 280              |
| Terminal Block 30A - 3 way (For MU-G6)      | XM8075000000 | 1                | 230              |
| Terminal Block 60A - 3 way (For MU-G10/20)  | CS9480600000 | 1                | 240              |
| Terminal Block 100A - 3 way (For MU-G30/50) | CS9433800000 | 1                | 1350             |
| Terminal Block 125A - 3 way (For MU-G75)    | CS9017200000 | 1                | 4960             |



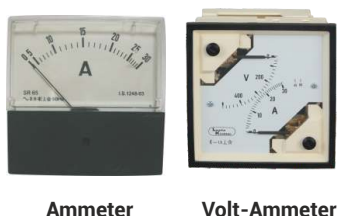
## Indicating lamp [HSN Code 8531]

| Description                 | Cat. No.     | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------------------|--------------|------------------|------------------|
| Indicating lamp Red 415V    | CS94810D0000 | 1                | 360              |
| Indicating lamp Green 415V  | CS94812D0000 | 1                | 360              |
| Spare Lamp, MR-G Controller | CS9612600000 | 1                | 100              |

## Rocker switch [HSN Code 8538]

| Description                          | Cat. No.     | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|--------------------------------------|--------------|------------------|------------------|
| Rocker switch (For MU-G6 to MU-G20)  | CS9028400000 | 1                | 105              |
| Rocker switch (For MU-G30 to MU-G75) | CS9027200000 | 1                | 175              |
| Voltage selector switch              | CS9433500000 | 1                | 510              |

## Volt-Ammeter [HSN Code 9030]



| Description                                     | Cat. No.     | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------------------------------------------|--------------|------------------|------------------|
| Volt-Ammeter 500V, 30A (Screw Type)             | CS94817EOEO  | 1                | 1600             |
| Volt-Ammeter 500V, 30A (Nut-Bolt Type)          | CS92180EOEO  | 1                | 1630             |
| Volt-Ammeter 500V, 60A                          | CS94817EOTO  | 1                | 1650             |
| Volt-Ammeter 500V, 0-75A                        | CS9005500000 | 1                | 1650             |
| Volt-Ammeter 500V, 0-100A                       | CS9005600000 | 1                | 1650             |
| Volt-Ammeter 500V, 0-125A                       | CS9005700000 | 1                | 1650             |
| 30A Ammeter Spare for MR-G Controller           | CS9602600000 | 1                | 700              |
| Volt-Ammeter (30A, 300V AC) for MR-G Controller | CS9602800000 | 1                | 1220             |

## SPPR [HSN Code 9032]

With Settable Time  
ON Delay 30sec - 5min



SPPR Type Sz5 (7 Wire & 6 Wire)

With Settable Time  
ON Delay 30sec - 5min



SPPR Type SDz5

| SPPR Type | Modes of Operation |        |        | Timer |
|-----------|--------------------|--------|--------|-------|
|           | Auto               | Manual | Bypass |       |
| Sz5       | ✓                  | ✓      | ✓      |       |
| SDz5      | ✓                  | ✓      | ✓      | ✓     |

| Description                                        | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|----------------------------------------------------|-------------|------------------|------------------|
| SPPR type Sz5 (7 Wire), 380V                       | ST921660000 | 1                | 1020             |
| SPPR type Sz5 (6 Wire), 360V (For MU-G10/10H)      | CS94824C000 | 1                | 1020             |
| SPPR type Sz5 (6 Wire), 380V (For MU-G6)           | CS94824L000 | 1                | 1020             |
| SPPR type Sz5 (6 Wire), 415V (For MU-G10/10H)      | CS94824D000 | 1                | 1020             |
| SPPR type SDz5, 360V (For MU-G20/20H)              | XM818080000 | 1                | 1920             |
| SPPR type SDz5, 380V (For MU-G30/40/50/75)         | XM818070000 | 1                | 1920             |
| SPPR type SDz5, 415V (For MU-G15/20/20H)           | XM818090000 | 1                | 1920             |
| SPPR type Sz5 (6 long wire), 360V (FOR MU-G10/10H) | CS94855C000 | 1                | 1130             |
| SPPR type Sz5 (6 long wire), 415V (FOR MU-G10/10H) | CS94855D000 | 1                | 1130             |

## ON-OFF Plugs & Extension Kit [HSN Code 8538]



Spare  
ON-OFF plug

| Description                                                | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|------------------------------------------------------------|-------------|------------------|------------------|
| Spare plug MU-G6 (Bulk of 10)                              | ST155910000 | 1                | 135              |
| Spare plug MU-10 (Bulk of 10)                              | ST155920000 | 1                | 150              |
| Spare plug MU-15 (Bulk of 10)                              | ST155930000 | 1                | 160              |
| Spare plug MU-20 (Bulk of 10)                              | ST155940000 | 1                | 165              |
| Spare plug MU-30 (Bulk of 10)                              | ST155950000 | 1                | 170              |
| Spare plug MU-50 (Bulk of 10)                              | ST155960000 | 1                | 175              |
| Spare plug MU-75 (Bulk of 10)                              | ST155970000 | 1                | 175              |
| Red & Green, Relay Extension Button Kit (For MN 2/5 Relay) | SS949680000 | 100              | 75               |

# MN Relay & ML Spares

## Spare MN Relay [HSN Code 8536]



MN 2



MN 5

| Type of Mounting (Operation)           | Relay Range (A) | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|----------------------------------------|-----------------|-------------|-----------------|------------------|
| (Directly Operated)<br>Direct Mounting | <b>MN 2</b>     |             |                 |                  |
|                                        | 6 - 10          | SS9414200VO | 10              | <b>1820</b>      |
|                                        | 9 - 15          | SS9414200BO | 10              | <b>1890</b>      |
|                                        | 14 - 23         | SS9414400DO | 10              | <b>2020</b>      |
|                                        | 20 - 33         | SS9414500EO | 10              | <b>3020</b>      |

|                                        |             |             |    |             |
|----------------------------------------|-------------|-------------|----|-------------|
| (Directly Operated)<br>Direct Mounting | <b>MN 5</b> |             |    |             |
|                                        | 20 - 33     | SS9413600EO | 10 | <b>3760</b> |
|                                        | 30 - 50     | SS9413600GO | 10 | <b>4800</b> |
|                                        | 36 - 60     | SS9413600TO | 10 | <b>5030</b> |
|                                        | 45 - 75     | SS9413700JO | 10 | <b>5450</b> |
|                                        | 66 - 110    | SS9413700KO | 10 | <b>6210</b> |

## ML Spares [HSN Code 8538]

| Type                                      | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------------------------------------|-------------|-----------------|------------------|
| Spare Kit ML3                             | SS953090000 | 10              | <b>8885</b>      |
| Spare Kit ML4                             | SS953110000 | 10              | <b>13170</b>     |
| Spare Kit ML6                             | SS953130000 | 10              | <b>24365</b>     |
| Front Housing & Bridge Assembly Kit ML3   | ST238660000 | 1               | <b>1395</b>      |
| Front Housing & Bridge Assembly Kit ML4/6 | ST287350000 | 1               | <b>2530</b>      |

# MU-GS SMART Controllers

## Features

- › In-built Theft protection, gives emergency alert to your mobile when someone steals your pump, cable or controller
- › With Dry Run, Locked Rotor and Short Circuit protection (In-built MCB with K-Curve & MCCB)
- › Voltage and current based protection for all faults with individual protection Enable/Disable feature
- › In-built hour based and Real Time Clock based timers with time compensation feature
- › With Line Voltage, Phase Current, Power Factor, Power, Energy metering and total run time information for your pump
- › Complete operation (Remote ON/OFF, parameter setting, monitoring and troubleshooting) through SMS or SMARTCOMM App or IVRS
- › Available in Hindi, Gujarati, Marathi, Tamil, Telugu, Kannada, Malayalam, Bengali, Oriya, Punjabi and English languages with different language selection for individual users
- › Microcontroller based technology
- › Easy installation with factory fitted complete wiring and terminal block, need to connect only the supply and motor wires

With in-built short-circuit protection device



SMARTCOMM  
Net Connect

## MU-G6S SMART Controller DOL [HSN Code 8536]



Interior View of  
MU-G6S

| Suitable Region | IVRS Languages                             | Type   | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.                        |                       | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|--------|----------------------------------------|-----------------|---------------------------------|-----------------------|-----------------|------------------|
|                 |                                            |        |                                        |                 | Coil Voltage 360V-W (200V-400V) | Coil Voltage 400/440V |                 |                  |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G6S | 6 HP                                   | 4 - 22          | CS91206CSDO                     | CS91206PSDO           | 1               | 20800            |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G6S | 6 HP                                   | 4 - 22          | CS91206CND0                     | CS91206PND0           | 1               | 20800            |
| East            | English, Hindi, Odia, Assamese, Bengali    | MU-G6S | 6 HP                                   | 4 - 22          | CS91206CEDO                     | CS91206PEDO           | 1               | 20800            |

## MU-G10S & MU-G10HS SMART Controller DOL [HSN Code 8536]



Interior View of  
MU-G10S

| Suitable Region | IVRS Languages                             | Type     | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          |                   | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|----------|----------------------------------------|-----------------|-------------------|-------------------|-----------------|------------------|
|                 |                                            |          |                                        |                 | Coil Voltage 360V | Coil Voltage 415V |                 |                  |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G10S  | 10 HP                                  | 4 - 22          | CS91205CSDO       | CS91205DSDO       | 1               | 22000            |
|                 |                                            | MU-G10HS | 10 HP                                  | 20 - 42         | CS91207CSFO       | CS91207DSFO       | 1               | 23250            |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G10S  | 10 HP                                  | 4 - 22          | CS91205CND0       | CS91205DNDO       | 1               | 22000            |
|                 |                                            | MU-G10HS | 10 HP                                  | 20 - 42         | CS91207CNFO       | CS91207DNFO       | 1               | 23250            |
| East            | English, Hindi, Odia, Assamese, Bengali    | MU-G10S  | 10 HP                                  | 4 - 22          | CS91205CEDO       | CS91205DEDO       | 1               | 22000            |
|                 |                                            | MU-G10HS | 10 HP                                  | 20 - 42         | CS91207CEFO       | CS91207DEFO       | 1               | 23250            |

# MU-GS SMART Controllers



With in-built short-circuit protection device

## MU-G15S SMART Controller FASD [HSN Code 8536]



Interior View of MU-G15S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.                       |                       | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|--------------------------------|-----------------------|------------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 360-W (200V-400V) | Coil Voltage 400/440V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G15S | 15 HP                                  | 4 - 22          | CS91529CND0                    | CS91529PND0           | 1                | 28350            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G15S | 15 HP                                  | 4 - 22          | CS91529CSD0                    | CS91529PSD0           | 1                | 28350            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G15S | 15 HP                                  | 4 - 22          | CS91529CED0                    | CS91529PED0           | 1                | 28350            |

## MU-G15HS SMART Controller FASD [HSN Code 8536]



Interior View of MU-G15HS

| Suitable Region | IVRS Languages                             | Type     | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.                       |                       | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|----------|----------------------------------------|-----------------|--------------------------------|-----------------------|------------------|------------------|
|                 |                                            |          |                                        |                 | Coil Voltage 360-W (200V-400V) | Coil Voltage 400/440V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G15HS | 15 HP                                  | 13 - 32         | CS91530CNE0                    | CS91530PNE0           | 1                | 32170            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G15HS | 15 HP                                  | 13 - 32         | CS91530CSE0                    | CS91530PSE0           | 1                | 32170            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G15HS | 15 HP                                  | 13 - 32         | CS91530CEE0                    | CS91530PEE0           | 1                | 32170            |

## MU-G20S SMART Controller FASD [HSN Code 8536]



Interior View of MU-G20S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.           |                    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|--------------------|--------------------|------------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 360 V | Coil Voltage 415 V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G20S | 20 HP                                  | 4 - 22          | CS91531CND0        | CS91531DND0        | 1                | 31250            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G20S | 20 HP                                  | 4 - 22          | CS91531CSD0        | CS91531DSD0        | 1                | 31250            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G20S | 20 HP                                  | 4 - 22          | CS91531CED0        | CS91531DED0        | 1                | 31250            |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G20S | 20 HP                                  | 13 - 32         | CS91531CNE0        | CS91531DNE0        | 1                | 35150            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G20S | 20 HP                                  | 13 - 32         | CS91531CSE0        | CS91531DSE0        | 1                | 35150            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G20S | 20 HP                                  | 13 - 32         | CS91531CEE0        | CS91531DEE0        | 1                | 35150            |

## MU-G20HS SMART Controller FASD [HSN Code 8536]



Interior View of  
MU-G20HS

| Suitable Region | IVRS Languages                             | Type     | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.           |                    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|----------|----------------------------------------|-----------------|--------------------|--------------------|-----------------|------------------|
|                 |                                            |          |                                        |                 | Coil Voltage 360 V | Coil Voltage 415 V |                 |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G20HS | 20 HP                                  | 13 - 42         | CS91532CNFO        | CS91532DNFO        | 1               | 40900            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G20HS | 20 HP                                  | 13 - 42         | CS91532CSFO        | CS91532DSFO        | 1               | 40900            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G20HS | 20 HP                                  | 13 - 42         | CS91532CEFO        | CS91532DEFO        | 1               | 40900            |

## MU-G25S SMART Controller FASD [HSN Code 8536]



Interior View of  
MU-G25S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.           |                    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|--------------------|--------------------|-----------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 360 V | Coil Voltage 415 V |                 |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G25S | 25 HP                                  | 24 - 42         | CS91533CNFO        | CS91533DNFO        | 1               | 43700            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G25S | 25 HP                                  | 24 - 42         | CS91533CSFO        | CS91533DSFO        | 1               | 43700            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G25S | 25 HP                                  | 24 - 42         | CS91533CEFO        | CS91533DEFO        | 1               | 43700            |



# MU-GS SMART Controllers

## MU-G30S SMART Controller FASD [HSN Code 8536]



Interior View of  
MU-G30S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|-------------------|-----------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 380V |                 |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G30S | 30 HP                                  | 20 - 50         | CS91651LNGO       | 1               | 58100            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G30S | 30 HP                                  | 20 - 50         | CS91651LSGO       | 1               | 58100            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G30S | 30 HP                                  | 20 - 50         | CS91651LEGO       | 1               | 58100            |

## MU-G40S SMART Controller FASD [HSN Code 8536]



Interior View of  
MU-G40S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|-------------------|-----------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 380V |                 |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G40S | 40 HP                                  | 30 - 60         | CS91652LNTO       | 1               | 66250            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G40S | 40 HP                                  | 30 - 60         | CS91652LSTO       | 1               | 66250            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G40S | 40 HP                                  | 30 - 60         | CS91652LETO       | 1               | 66250            |

## MU-G50S SMART Controller FASD [HSN Code 8536]



Interior View of  
MU-G50S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|-------------------|-----------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 380V |                 |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G50S | 50 HP                                  | 30 - 75         | CS91653LNJO       | 1               | 96000            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G50S | 50 HP                                  | 30 - 75         | CS91653LSJO       | 1               | 96000            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G50S | 50 HP                                  | 30 - 75         | CS91653LEJO       | 1               | 96000            |

## MU-G75S SMART Controller FASD [HSN Code 8536]

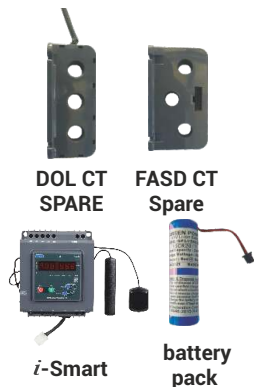


Interior View of  
MU-G75S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|-------------------|-----------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 380V |                 |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G75S | 75 HP                                  | 45 - 90         | CS91654LNKO       | 1               | 122000           |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G75S | 75 HP                                  | 45 - 90         | CS91654LSKO       | 1               | 122000           |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G75S | 75 HP                                  | 45 - 90         | CS91654LEKO       | 1               | 122000           |

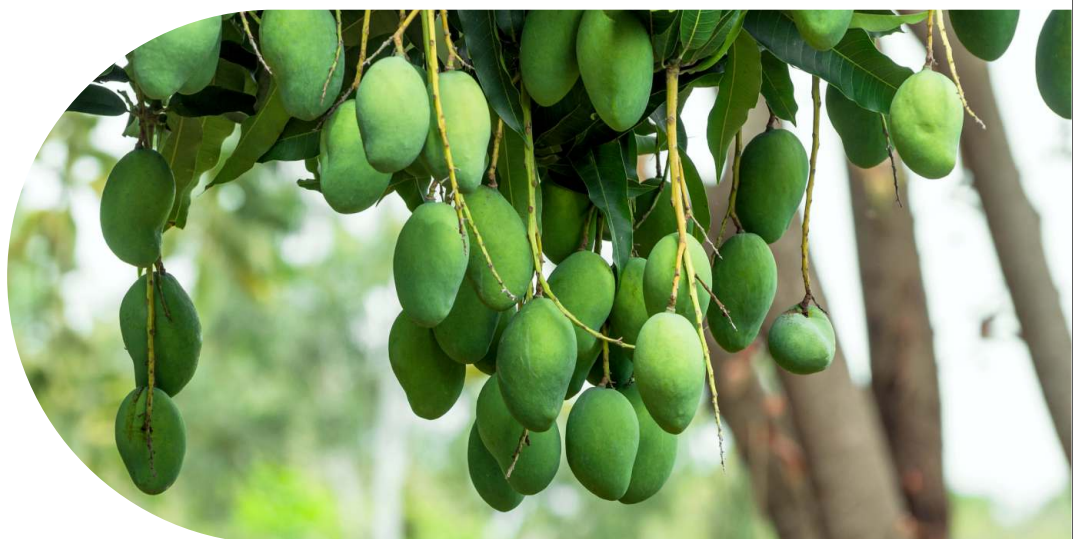
# Spares for MU-GS SMART Controllers

## SMART Controller Spares [HSN Code 8538]



| Description                                      | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|--------------------------------------------------|-------------|-----------------|------------------|
| <i>i</i> -Smart for DOL without WLC              | CS914130*00 | 1               | 19990            |
| <i>i</i> -Smart for FASD without WLC (upto 25HP) | CS914140*00 | 1               | 24520            |
| <i>i</i> -Smart for FASD without WLC (30-75HP)   | CS914150*00 | 1               | 29440            |
| Spare CT Assembly DOL (And FASD Upto 25 HP)      | CS910950000 | 1               | 2570             |
| Spare CT Assembly FASD (30-75 HP)                | CS916480000 | 1               | 3380             |
| Spare Battery Pack                               | CS914170000 | 1               | 1880             |

**Note :** Please write S for South, N for North and E for East language variants in place of \* in the *i*-Smart ordering CAT No.



# Px3000



## SOLAR DRIVE CONTROLLER

| Px3000<br>Solar Drive Controller | Cat. No.        |
|----------------------------------|-----------------|
| 5 HP                             | EAVF-P4009P5BAA |
| 7.5 HP                           | EAVF-P4014P0BAA |
| 10 HP                            | EAVF-P4018P0BAA |



True MPPT



Robust design to  
handle high input DC  
voltage up to 850V



Grid Compatible



Auto & Adaptable  
MPPT



Rugged design, best-in-class  
performance even at 50 degrees  
ambient without derating



Built-in RS-485



Plug &  
Play Drive



Automatic  
Start & Stop



Wide operation range-  
Vmpp Range: 250V~750Vdc  
Voc Range: 300V~850Vdc

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# Single Phase Starters

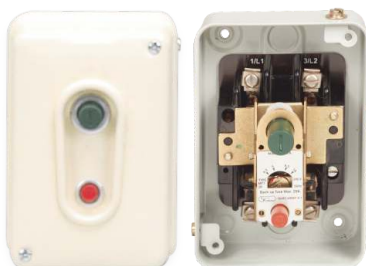
## MU-2P Single Phase Starters [HSN Code 8536]



MU-2P DOL Starter

| Suitable for Pump/Motor 1Ø, 230V, 50Hz | Relay Range (A) | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|----------------------------------------|-----------------|-------------|-----------------|------------------|
| 0.125 HP                               | 1 - 1.6         | CS90319KOM0 | 1               | 2660             |
| 0.25 HP                                | 1.5 - 2.5       | CS90319KOPO | 1               | 2660             |
| 0.5 HP                                 | 2.5 - 4         | CS90319KORO | 1               | 2660             |
| 0.75 HP                                | 4 - 6.5         | CS90319KOTO | 1               | 2660             |
| 1 HP                                   | 6 - 10          | CS90319KOVO | 1               | 2660             |
| 2 HP                                   | 9 - 14          | CS90319KOA0 | 1               | 2660             |
| 2 HP                                   | 11 - 18         | CS90319KOCO | 1               | 2660             |
| 3 HP                                   | 13 - 22         | CS90319KODO | 1               | 2700             |

## MF1 Single Phase Starters [HSN Code 8536]



MF1 DOL - 1Ø Starter

| Suitable for Pump/Motor 1Ø, 230V, 50Hz | Relay Range (A) | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|----------------------------------------|-----------------|-------------|-----------------|------------------|
| 0.75 HP                                | 4.5 - 7         | SS9722700TO | 1               | 2090             |
| 1.25 HP                                | 6.5 - 11        | SS9722700VO | 1               | 2090             |
| 2 HP                                   | 10.5 - 17.5     | SS9722700BO | 1               | 2090             |
| 3 HP                                   | 12 - 20         | SS9722700CO | 1               | 2090             |

**Note:** These are make-to-order products and are subject to availability.  
Please contact the nearest sales office for order queries and further details.



# MF-G1 Single Phase Submersible Pump Controllers



With MF1 Starter

## MF-G1 Controller [HSN Code 8536]

| Starter Type                     | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Relay Range (A) | Cat. No.                                  | Run Condenser 440V, 50Hz MFD | M.R.P ₹ Per Unit |
|----------------------------------|---------------------------------------------------|-----------------|-------------------------------------------|------------------------------|------------------|
| MF-G1 with Ammeter and Voltmeter | 0.5 HP                                            | 6.5 - 11        | SS9772800VE                               | 1 x 36                       | 4290             |
| MF-G1 with Ammeter Only          | 0.5 HP                                            | 6.5 - 11        | SS9773400VC                               | 1 x 25                       | 3960             |
| MF-G1 with Ammeter and Voltmeter | 1 HP                                              | 6.5 - 11        | SS9773000VE<br>SS9773000VG                | 1 x 36<br>1 x 50             | 4490             |
| MF-G1 with Ammeter Only          | 1 HP                                              | 6.5 - 11        | SS9773600VE<br>SS9773600VG                | 1 x 36<br>1 x 50             | 4130             |
| MF-G1 with Ammeter and Voltmeter | 1 HP                                              | 12 - 20         | SS9773000CE<br>SS9773000CG                | 1 x 36<br>1 x 50             | 4490             |
| MF-G1 with Ammeter Only          | 1 HP                                              | 12 - 20         | SS9773600CE<br>SS9773600CG                | 1 x 36<br>1 x 50             | 4130             |
| MF-G1 with Ammeter and Voltmeter | 1.5 HP                                            | 6.5 - 11        | SS9773100VG<br>SS9773100VF                | 1 x 50<br>2 x 36             | 4620             |
| MF-G1 with Ammeter Only          | 1.5 HP                                            | 6.5 - 11        | SS9773700VF                               | 2 x 36                       | 4280             |
| MF-G1 with Ammeter and Voltmeter | 1.5 HP                                            | 12 - 20         | SS9773100CG<br>SS9773100CF                | 1 x 50<br>2 x 36             | 4620             |
| MF-G1 with Ammeter Only          | 1.5 HP                                            | 12 - 20         | SS9773700CG<br>SS9773700CF                | 1 x 50<br>2 x 36             | 4280             |
| MF-G1 with Ammeter and Voltmeter | 2 HP                                              | 12 - 20         | SS9773200CG<br>SS9773200CF                | 1 x 50<br>2 x 36             | 4700             |
| MF-G1 with Ammeter Only          | 2 HP                                              | 12 - 20         | SS9773800CG<br>SS9773800CF<br>SS9773800CH | 1 x 50<br>2 x 36<br>2 x 50   | 4330             |

**Note:** These are make-to-order products and are subject to availability.  
Please contact the nearest sales office for order queries and further details.

# DIGITAL SINGLE PHASE CONTROLLER

REDUCE WATER WASTAGE THROUGH AUTOMATION



## MANUAL VERSION

- Microcontroller Based Solution
- Dry Run Protection
- UV/OV Protection
- Current, Voltage Metering
- Start & Run Capacitor
- Bypass Mode
- OFF Timer
- Digital Display
- Capacitor cut-off
- Automatic Current Setting



## AUTO VERSION

- All features of Manual Version
- Inbuilt Water Level Controller
- WLC bypass feature
- Auto start capacitor switching
- Power ON delay
- Dry Run auto reset timer
- Auto & Manual mode
- RTC based daily ON/OFF timer
- Timer count down display
- Cyclic timer
- Time Compensation

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FLEXIBILITY  
AND  
VERSATILITY**



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# MR-G2 / MR-G3 Single Phase Submersible Pump Controllers



With MU-2P Contactor & MU-2P Relay

## MR-G2 / MR-G3 Controller [HSN Code 8536]

| Type  | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Relay Range (A) | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | With Ammeter & Voltmeter | With Ammeter Only | M.R.P ₹ Per Unit |
|-------|---------------------------------------------------|-------------|-----------------|----------------------------|------------------------------|--------------------------|-------------------|------------------|
| MR-G2 | 0.5 HP                                            | SS97720BATC | 4 - 6.5         | 80 / 100                   | 1 x 25                       | Yes                      | -                 | 5080             |
|       |                                                   | SS97720BAVC | 6 - 10          | 80 / 100                   | 1 x 25                       |                          |                   |                  |
|       |                                                   | SS97720BAVE | 6 - 10          | 80 / 100                   | 1 x 36                       | -                        | Yes               | 4830             |
|       |                                                   | SS96988BATC | 4 - 6.5         | 80 / 100                   | 1 x 25                       |                          |                   |                  |
|       |                                                   | SS96988BAVC | 6 - 10          | 80 / 100                   | 1 x 25                       |                          |                   |                  |
|       |                                                   | SS96988BAVE | 6 - 10          | 80 / 100                   | 1 x 36                       |                          |                   |                  |
|       | 1 HP                                              | SS97721BBVE | 6 - 10          | 100/120                    | 1 x 36                       | Yes                      | -                 | 5520             |
|       |                                                   | SS97721BBVG | 6 - 10          | 100 / 120                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97721BCVE | 6 - 10          | 120 / 150                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS97721BCVG | 6 - 10          | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97721BBAE | 9 - 14          | 100 / 120                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS97721BBAG | 9 - 14          | 100 / 120                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97721BCAE | 9 - 14          | 120 / 150                  | 1 x 36                       | -                        | Yes               | 5260             |
|       |                                                   | SS97721BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96560BBVE | 6 - 10          | 100 / 120                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS96560BBVG | 6 - 10          | 100 / 120                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96560BCVE | 6 - 10          | 120 / 150                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS96560BCVG | 6 - 10          | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96560BBAE | 9 - 14          | 100 / 120                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS96560BBAG | 9 - 14          | 100 / 120                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96560BCAE | 9 - 14          | 120 / 150                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS96560BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       | 1.5 HP                                            | SS97722BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       | Yes                      | -                 | 5950             |
|       |                                                   | SS97722BCAF | 9 - 14          | 120 / 150                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97722BCAJ | 9 - 14          | 120 / 150                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97722BDAG | 9 - 14          | 150 / 200                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97722BDAF | 9 - 14          | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97722BDAJ | 9 - 14          | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97722BCCG | 11 - 18         | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97722BCCF | 11 - 18         | 120 / 150                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97722BCCJ | 11 - 18         | 120 / 150                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97722BDCG | 11 - 18         | 150 / 200                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97722BDCF | 11 - 18         | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97722BDCJ | 11 - 18         | 150 / 200                  | 1 x 72                       |                          |                   |                  |

# MR-G2 / MR-G3 Single Phase Submersible Pump Controllers

## MR-G2 / MR-G3 Controller [HSN Code 8536]

| Type  | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Relay Range (A) | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | With Ammeter & Voltmeter | With Ammeter Only | M.R.P ₹ Per Unit |
|-------|---------------------------------------------------|-------------|-----------------|----------------------------|------------------------------|--------------------------|-------------------|------------------|
| MR-G2 | 1.5 HP                                            | SS96989BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       | -                        | Yes               | 5740             |
|       |                                                   | SS96989BCAF | 9 - 14          | 120 / 150                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96989BCAJ | 9 - 14          | 120 / 150                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96989BDAG | 9 - 14          | 150 / 200                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96989BDAF | 9 - 14          | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96989BDAJ | 9 - 14          | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96989BCCG | 11 - 18         | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96989BCCF | 11 - 18         | 120 / 150                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96989BCCJ | 11 - 18         | 120 / 150                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96989BDCG | 11 - 18         | 150 / 200                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96989BDCF | 11 - 18         | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96989BDCJ | 11 - 18         | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       | 2 HP                                              | SS97723BDCF | 11 - 18         | 150 / 200                  | 2 x 36                       | Yes                      | -                 | 6260             |
|       |                                                   | SS97723BDCJ | 11 - 18         | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97723BECF | 11 - 18         | 200 / 250                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97723BECJ | 11 - 18         | 200 / 250                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97723BDDF | 13 - 22         | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97723BDDJ | 13 - 22         | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97723BEDF | 13 - 22         | 200 / 250                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97723BEDG | 13 - 22         | 200 / 250                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97723BEDJ | 13 - 22         | 200 / 250                  | 1 x 72                       | -                        | Yes               | 5980             |
|       |                                                   | SS96990BDCF | 11 - 18         | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96990BDCJ | 11 - 18         | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96990BECF | 11 - 18         | 200 / 250                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96990BECJ | 11 - 18         | 200 / 250                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96990BDDF | 13 - 22         | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96990BDDJ | 13 - 22         | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96990BEDF | 13 - 22         | 200 / 250                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96990BEDG | 13 - 22         | 200 / 250                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96990BEDJ | 13 - 22         | 200 / 250                  | 1 x 72                       |                          |                   |                  |
|       | 3 HP                                              | SS97724BEDH | 13 - 22         | 200 / 250                  | 2 x 50                       | Yes                      | -                 | 6910             |
|       |                                                   | CS96468BEBH | 16 - 26         | 200 / 250                  | 2 x 50                       |                          |                   |                  |
|       |                                                   | SS97725BEDH | 13 - 22         | 200 / 250                  | 2 x 50                       | -                        | Yes               | 6560             |
|       |                                                   | CS96461BEBH | 16 - 26         | 200 / 250                  | 2 x 50                       |                          |                   |                  |
| MR-G3 | 5 HP                                              | CS90490BEEJ | 20 - 32         | 200 / 250                  | 3 x 50                       | Yes                      | -                 | 9880             |

# MR-G2W Single Phase Submersible Controllers (With WLC)

## MR-G2W with in-built WLC (Ammeter & Voltmeter version only) [HSN Code 8536]

| Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Relay Range (A) | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | M.R.P ₹ Per Unit |
|---------------------------------------------------|-------------|-----------------|----------------------------|------------------------------|------------------|
| 0.5HP                                             | CS91040BATC | 4 - 6.5         | 80 / 100                   | 1 x 25                       | 11600            |
|                                                   | CS91040BAVE | 6 - 10          | 80 / 100                   | 1 x 36                       |                  |
| 1HP                                               | CS91041BBVE | 6 - 10          | 100 / 120                  | 1 x 36                       | 12080            |
|                                                   | CS91041BBVG | 6 - 10          | 100 / 120                  | 1 x 50                       |                  |
|                                                   | CS91041BCVE | 6 - 10          | 120 / 150                  | 1 x 36                       |                  |
|                                                   | CS91041BCVG | 6 - 10          | 120 / 150                  | 1 x 50                       |                  |
|                                                   | CS91041BBAE | 9 - 14          | 100 / 120                  | 1 x 36                       |                  |
|                                                   | CS91041BBAG | 9 - 14          | 100 / 120                  | 1 x 50                       |                  |
|                                                   | CS91041BCAE | 9 - 14          | 120 / 150                  | 1 x 36                       |                  |
|                                                   | CS91041BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       |                  |
| 1.5HP                                             | CS91042BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       | 12650            |
|                                                   | CS91042BDAG | 9 - 14          | 150 / 200                  | 1 x 50                       |                  |
|                                                   | CS91042BDAF | 9 - 14          | 150 / 200                  | 2 x 36                       |                  |
|                                                   | CS91042BCCF | 11 - 18         | 120 / 150                  | 2 x 36                       |                  |
|                                                   | CS91042BDCG | 11 - 18         | 150 / 200                  | 1 x 50                       |                  |
|                                                   | CS91042BDCF | 11 - 18         | 150 / 200                  | 2 x 36                       |                  |
| 2HP                                               | CS91043BECF | 11 - 18         | 200 / 250                  | 2 x 36                       | 12980            |
|                                                   | CS91043BDDF | 13 - 22         | 150 / 200                  | 2 x 36                       |                  |
|                                                   | CS91043BEDF | 13 - 22         | 200 / 250                  | 2 x 36                       |                  |
|                                                   | CS91043BEDG | 13 - 22         | 200 / 250                  | 1 x 50                       |                  |
| 3HP                                               | CS91044BEDH | 13 - 22         | 200 / 250                  | 2 x 36                       | 13450            |

## Water Level Controller [HSN Code 9032]



WLC

| Description                                             | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------------------------------------|-------------|-----------------|------------------|
| Water Level Controller (240V)(Double Tank application)  | XM810520000 | 1               | 1520             |
| Water Level Controller (415V)(Double Tank application)  | XM810530000 | 1               | 1520             |
| Water Level Controller (240V) (Single Tank application) | XM810550000 | 1               | 1450             |
| Water Level Controller (415V) (Single Tank application) | XM810560000 | 1               | 1450             |
| WLC probes (set of 3 nos.)                              | XM810510000 | 1               | 520              |
| WLC probes (set of 6 nos.)                              | XM810760000 | 1               | 1020             |

# Spares for MR-G Submersible Pump Controllers



MR-G  
Plug ON



MR-G  
Plug OFF



MR 11W Aux.  
Contact Block



MR G Spare  
ADD ON Block

## MR-G Spares [HSN Code 8538]

| Description                                        | Cat. No.     | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|----------------------------------------------------|--------------|-----------------|------------------|
| Add on Auxiliary Contact Block (Contact Type 1NO)  | CS941790000  | 10              | 345              |
| MR 11W, Spare Coil, 240V, 50Hz                     | CS94102B000* | 10              | 810              |
| MR-G2 Plug ON & OFF (Bulk of 10 ON & 10 OFF Plugs) | CS916960000  | 1               | 320              |
| SPARE ADD ON BLOCK, MR-G2                          | CS964360000  | 1               | 255              |

\* Note: Cat No. is available till stocks last.



MU-2P  
Contactor



MR 11W  
Contactor

## Contactor Type MU-2P [HSN Code 8536]

| Component       | AC3 Rating | Type               | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|------------|--------------------|-------------|-----------------|------------------|
| MU-2P Contactor | 16A        | MU16-2P (160-220V) | CS90117N000 | 10              | 1130             |
|                 | 25A        | MU25-2P (160-220V) | CS90118N000 | 10              | 1370             |
|                 | 40A        | MU40-2P (160-220V) | CS90119N000 | 10              | 1750             |

## Contactor Type-MR 11W [HSN Code 8536]

| Component        | AC3 Rating | Type    | Cat. No.     | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|------------------|------------|---------|--------------|-----------------|------------------|
| MR 11W Contactor | 25A        | MR 11 W | CS94176B000* | 10              | 1580             |

\* Note: Cat No. is available till stocks last.

## MU-2P Relay [HSN Code 8536]

| Component   | Type       | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|------------|-------------|-----------------|------------------|
| MU-2P Relay | 1 - 1.6A   | CS9020700MO | 1               | 850              |
|             | 1.5 - 2.5A | CS9020700PO | 1               | 850              |
|             | 2.5 - 4A   | CS9020700RO | 1               | 850              |
|             | 4 - 6.5A   | CS9020700TO | 1               | 850              |
|             | 6 - 10A    | CS9020700VO | 1               | 850              |
|             | 9 - 14A    | CS9020700AO | 1               | 850              |
|             | 11 - 18A   | CS9020700CO | 1               | 950              |
|             | 13 - 22A   | CS9020700DO | 1               | 950              |
|             | 16 - 26A   | CS9020700BO | 1               | 950              |
|             | 20 - 32A   | CS9020700EO | 1               | 1190             |



MU-2P  
Relay

## MU-2P Spares [HSN Code 8538]

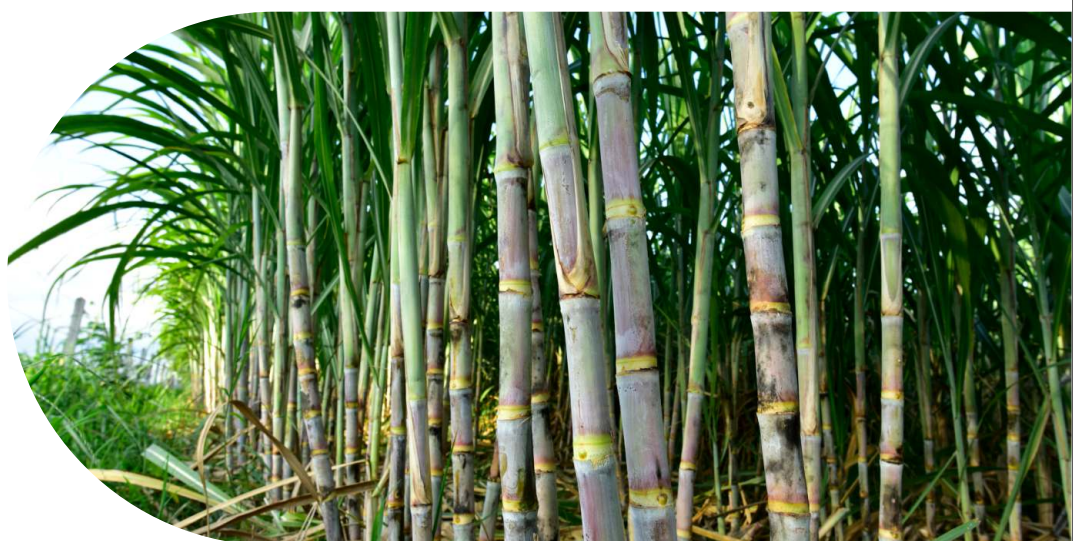


MU-2P Coil

| Component                     | Type                    | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------------------------|-------------------------|-------------|-----------------|------------------|
| MU-2P Spare Contact Kit       | MU16-2P                 | CS902170000 | 1               | 360              |
|                               | MU25-2P                 | CS902180000 | 1               | 475              |
|                               | MU40-2P                 | CS902190000 | 1               | 680              |
| MU-2P Spare Coil & Top Add-on | MU-2P Coil (220V)       | CS90793N000 | 1               | 425              |
|                               | MU-2P Coil (300V)       | CS90793R000 | 1               | 425              |
|                               | MI-A2 Top ADD-ON (1 NO) | CS906950000 | 1               | 235              |

## Wiring Harness for MU-G/ MR-G Controllers [HSN Code 8538]

| Description                                                               | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------------------------------------------------------|-------------|-----------------|------------------|
| Wiring Harness, MU-G6 (Flexible Type)                                     | CS961310000 | 1               | 1210             |
| Wiring Harness, MU-G10 (Flexible Type)                                    | CS961300000 | 1               | 1730             |
| Wiring Harness, MU-G10H (Flexible Type)                                   | CS961340000 | 1               | 2240             |
| Wiring Harness, MU-G15 (Flexible Type)                                    | CS905670000 | 1               | 2550             |
| Wiring Harness, MU-G20 (SDz5 SPPR) (Flexible Type)                        | CS961290000 | 1               | 3800             |
| Wiring Harness, MU-G20H (SDz5 SPPR) (Flexible Type)                       | CS961350000 | 1               | 4050             |
| Wiring Harness, MU-G30 (Flexible Type)                                    | CS961280000 | 1               | 4970             |
| Wiring Harness, MU-G50 (Flexible Type)                                    | CS961270000 | 1               | 7070             |
| Wiring Harness, MU-G75 (Flexible Type)                                    | CS901710000 | 1               | 10160            |
| Wiring Harness 2.5 sq. mm, MR-G2 (Flexible Type, For upto 11 - 18A Relay) | CS961330000 | 1               | 1410             |



# MR-Gi Digital Single Phase Controllers - Manual & Auto

## Manual version

## FEATURES

## Auto version



- Microcontroller Based Solution
- Dry Run Protection
- UV/OV Protection
- Current, Voltage Metering
- Start & Run Capacitor
- Bypass Feature
- OFF Timer
- Digital Display
- Capacitor cut-off
- Automatic Current Setting

- All features of Manual Version
- In-built Water Level Controller
- WLC bypass feature
- Auto start capacitor switching
- Power on delay
- Dry Run auto reset timer
- Auto & Manual mode
- RTC based daily ON/OFF timer
- Timer count down display
- Cyclic timer
- Time Compensation

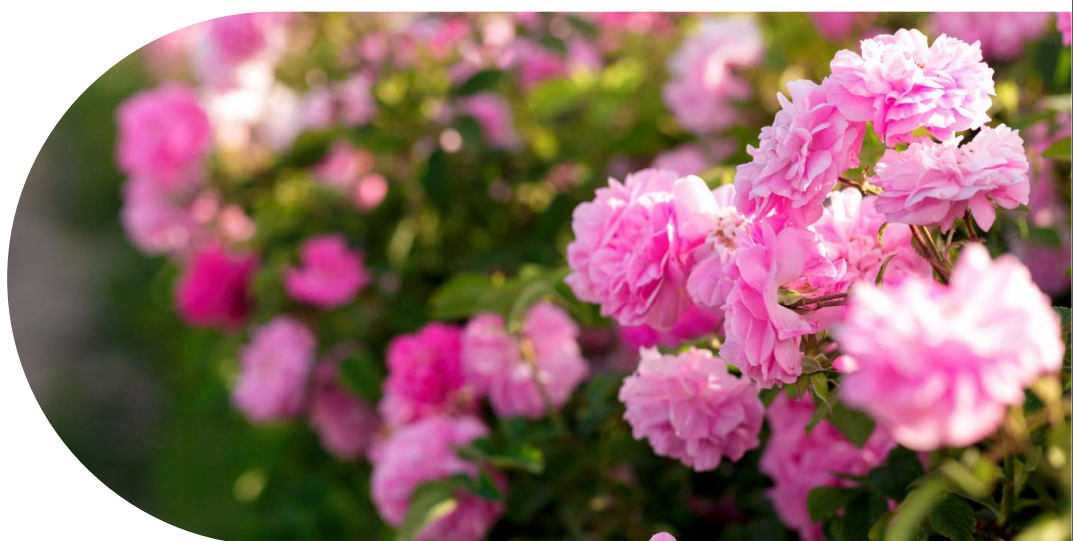


## MR-Gi (Manual) [HSN Code 8536]

| Type           | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | M.R.P ₹ Per Unit |
|----------------|---------------------------------------------------|-------------|----------------------------|------------------------------|------------------|
| MR-Gi (Manual) | 0.5 HP                                            | CS91321NAOC | 80 / 100                   | 1 x 25                       | 4470             |
|                |                                                   | CS91321NAOE | 80 / 100                   | 1 x 36                       |                  |
|                | 1 HP                                              | CS91322NBOE | 100 / 120                  | 1 x 36                       | 4700             |
|                |                                                   | CS91322NBOG | 100 / 120                  | 1 x 50                       |                  |
|                |                                                   | CS91322NCOE | 120 / 150                  | 1 x 36                       |                  |
|                |                                                   | CS91322NCOG | 120 / 150                  | 1 x 50                       |                  |
|                | 1.5 HP                                            | CS91323NCOG | 120 / 150                  | 1 x 50                       | 4930             |
|                |                                                   | CS91323NCOF | 120 / 150                  | 2 x 36                       |                  |
|                |                                                   | CS91323NCOJ | 120 / 150                  | 1 x 72                       |                  |
|                |                                                   | CS91323NDOG | 150 / 200                  | 1 x 50                       |                  |
|                |                                                   | CS91323NDOF | 150 / 200                  | 2 x 36                       |                  |
|                | 2 HP                                              | CS91324NDOF | 150 / 200                  | 2 x 36                       | 5130             |
|                |                                                   | CS91324NDOH | 150 / 200                  | 2 x 50                       |                  |
|                |                                                   | CS91324NDOJ | 150 / 200                  | 1 x 72                       |                  |
|                |                                                   | CS91324NEOF | 200 / 250                  | 2 x 36                       |                  |
|                |                                                   | CS91324NEOG | 200 / 250                  | 1 x 50                       |                  |
|                |                                                   | CS91324NEOJ | 200 / 250                  | 1 x 72                       |                  |
|                | 3 HP                                              | CS91325NEOH | 200 / 250                  | 2 x 50                       | 5350             |

## MR-GiB (Auto) [HSN Code 8536]

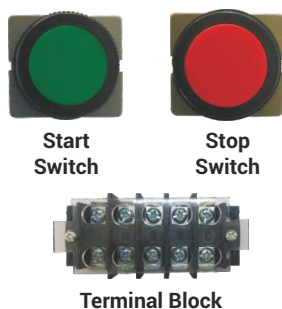
| Type          | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | M.R.P ₹ Per Unit |
|---------------|---------------------------------------------------|-------------|----------------------------|------------------------------|------------------|
| MR-GiB (Auto) | 0.5 HP                                            | CS91718NAOC | 80 / 100                   | 1 x 25                       | 5620             |
|               |                                                   | CS91718NAOE | 80 / 100                   | 1 x 36                       |                  |
|               | 1 HP                                              | CS91719NBOE | 100 / 120                  | 1 x 36                       | 5830             |
|               |                                                   | CS91719NBOG | 100 / 120                  | 1 x 50                       |                  |
|               |                                                   | CS91719NCOE | 120 / 150                  | 1 x 36                       |                  |
|               |                                                   | CS91719NCOG | 120 / 150                  | 1 x 50                       |                  |
|               | 1.5 HP                                            | CS91720NCOG | 120 / 150                  | 1 x 50                       | 6040             |
|               |                                                   | CS91720NCOF | 120 / 150                  | 2 x 36                       |                  |
|               |                                                   | CS91720NCOJ | 120 / 150                  | 1 x 72                       |                  |
|               |                                                   | CS91720NDOG | 150 / 200                  | 1 x 50                       |                  |
|               |                                                   | CS91720NDOF | 150 / 200                  | 2 x 36                       |                  |
|               | 2 HP                                              | CS91721NDOF | 150 / 200                  | 2 x 36                       | 6260             |
|               |                                                   | CS91721NDOH | 150 / 200                  | 2 x 50                       |                  |
|               |                                                   | CS91721NDOJ | 150 / 200                  | 1 x 72                       |                  |
|               |                                                   | CS91721NEOF | 200 / 250                  | 2 x 36                       |                  |
|               |                                                   | CS91721NEOG | 200 / 250                  | 1 x 50                       |                  |
|               |                                                   | CS91721NEOJ | 200 / 250                  | 1 x 72                       |                  |
|               | 3 HP                                              | CS91722NEOH | 200 / 250                  | 2 x 50                       | 6480             |



## MR-GiA (Auto with WLC) [HSN Code 8536]

| Type                   | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | M.R.P ₹ Per Unit |
|------------------------|---------------------------------------------------|-------------|----------------------------|------------------------------|------------------|
| MR-GiA (Auto with WLC) | 0.5 HP                                            | CS91331NAOC | 80 / 100                   | 1 x 25                       | 6200             |
|                        |                                                   | CS91331NAOE | 80 / 100                   | 1 x 36                       |                  |
|                        | 1 HP                                              | CS91332NBOE | 100 / 120                  | 1 x 36                       | 6420             |
|                        |                                                   | CS91332NBOG | 100 / 120                  | 1 x 50                       |                  |
|                        |                                                   | CS91332NCOE | 120 / 150                  | 1 x 36                       |                  |
|                        |                                                   | CS91332NCOG | 120 / 150                  | 1 x 50                       |                  |
|                        | 1.5 HP                                            | CS91333NCOG | 120 / 150                  | 1 x 50                       | 6620             |
|                        |                                                   | CS91333NCOF | 120 / 150                  | 2 x 36                       |                  |
|                        |                                                   | CS91333NCOJ | 120 / 150                  | 1 x 72                       |                  |
|                        |                                                   | CS91333NDOG | 150 / 200                  | 1 x 50                       |                  |
|                        |                                                   | CS91333NDOF | 150 / 200                  | 2 x 36                       |                  |
|                        | 2 HP                                              | CS91334NDOF | 150 / 200                  | 2 x 36                       | 6830             |
|                        |                                                   | CS91334NDOH | 150 / 200                  | 2 x 50                       |                  |
|                        |                                                   | CS91334NDOJ | 150 / 200                  | 1 x 72                       |                  |
|                        |                                                   | CS91334NEOF | 200 / 250                  | 2 x 36                       |                  |
|                        |                                                   | CS91334NEOG | 200 / 250                  | 1 x 50                       |                  |
|                        |                                                   | CS91334NEOJ | 200 / 250                  | 1 x 72                       |                  |
|                        | 3 HP                                              | CS91335NEOH | 200 / 250                  | 2 x 50                       | 7050             |

## Digital Single Phase Controller Spares [HSN Code 8538]



| Description                         | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------------------------------|-------------|-----------------|------------------|
| Spare start switch (Manual Version) | CS913630000 | 1               | 290              |
| Spare stop switch (Manual Version)  | CS913640000 | 1               | 220              |
| Mounting kit accessory              | CS913650000 | 1               | 170              |
| Spare 5 way terminal block          | CS913660000 | 1               | 210              |
| Spare 2 way terminal block          | CS913670000 | 1               | 150              |
| Spare Digital Module Manual         | CS920250000 | 1               | 3960             |
| Spare Digital Module Auto           | CS920260000 | 1               | 4890             |



MR-GiA WLC Spare

## Digital Single Phase Controller Spares [HSN Code 9032]

| Description      | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|------------------|-------------|-----------------|------------------|
| Spare WLC Module | CS913680000 | 1               | 1390             |

# SIMPLIFYING WATER CONTROL CHALLENGES



## WLC SzLC Series



**Settable OFF-timer**  
ranging from  
15-150 minutes



**Power ON  
Delay Timer-**  
3-30 seconds



**Application:**  
Single & Double  
Tank



**LED  
Indication**



**Auto/Manual/ Bypass**  
operating mode available\*.



**Use for Single Phase Monoset  
and Submersible Pump  
upto 3 HP and for  
Three Phase  
Submersible Pump**

\*Auto/ON/OFF - SzLC  
Auto/MANUAL/BYPASS - SzLC1 & SzLC3



### AGRI CUSTOMER CARE

Tel: +91-22-69327800  
E-mail: cic@LK-EA.com



### SMARTSHOP

Buy only authentic products.  
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# M-POWER Pro Module For Mobile Starters

## M-POWER Pro

### Features

- › Only 3 wire connection ensures easy installation with DOL and Star Delta starters
- › Enables the operation (Remote ON/OFF, parameter setting, monitoring and troubleshooting) of your pump through SMS, IVRS, Call and **SMARTCOMM** App, thus provides the convenience in controlling the pump operation from anywhere at anytime
- › Offers protection from phase loss, voltage imbalance, phase reversal, over voltage, under voltage and dry run fault with individual protection Enable/Disable feature.
- › Same unit works for Three Phase DOL and Star Delta starter
- › Hour based and Network based daily timers (4 Time slot) with time compensation
- › Up to 4 users along with 1 master can be connected for controlling your pump operation
- › Auto/Manual/Bypass mode and total run time information for your pump



**SMARTCOMM**  
Agri Connect

### M-POWER Pro [HSN Code 8536]

| Suitable Region | IVRS Languages                             | Product     | Cat. No.          |                   |                   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------|--------------------------------------------|-------------|-------------------|-------------------|-------------------|-----------------|-------------------|
|                 |                                            |             | Coil Voltage 360V | Coil Voltage 380V | Coil Voltage 415V |                 |                   |
| North & West    | English, Hindi, Marathi, Gujarati, Punjabi | M-POWER Pro | CS91313MOOO       | CS91313LOOO       | CS9131300000      | 1               | 8900              |
| South           | English, Hindi, Kannada, Telugu, Tamil     |             | CS91313MOSO       | CS91313LOSO       | CS9131300SO       | 1               | 8900              |
| East            | English, Hindi, Odia, Assamese, Bengali    |             | CS91313MOEO       | CS91313LOEO       | CS9131300EO       | 1               | 8900              |

**Note :** Different voltage variants of M-POWER Pro are as per the coil voltages of our agri contactors and are to be suitably selected.



# M-POWER++ & M-POWER+ Module For Mobile Starters

## M-POWER++

### Features

- M-POWER++ is compatible with LTE 4G / VoLTE. It also supports 2G network
- Enables remote operation (Pump ON / OFF) through any GSM networks
- It can be operated through Missed Call / IVRS / SMS. Regional languages are available for SMS / IVRS
- All events communicated to User by SMS & total pump run time can be checked
- Wide range of selection for operating modes like Auto / Manual / Timer (duration based) / 4 Daily Timers (RTC based)
- Compatible with 1 phase and 3 phase Starters & Controllers (DOL, SASD & FASD)



### M-POWER++ [HSN Code 8538]

| Description                                        | IVRS Languages                            | Suitable Region | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------------------|-------------------------------------------|-----------------|-------------|-----------------|-------------------|
| M-POWER++ Module for Mobile Starter - 1P/3P 3 Wire | English,Hindi, Marathi, Punjabi, Gujarati | North & West    | CS9214500NO | 1               | 6500              |
|                                                    | English, Hindi, Kannada, Telugu, Tamil    | South           | CS9214500SO | 1               | 6500              |
|                                                    | English, Hindi, Bengali, Odiya, Assamese  | East            | CS9214500EO | 1               | 6500              |

## M-POWER+

### M-POWER+ [HSN Code 8538]

| Description                                       | IVRS Languages                            | Suitable Region | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------------------------|-------------------------------------------|-----------------|-------------|-----------------|-------------------|
| M-POWER+ Module for Mobile Starter - 1P/3P 3 Wire | English,Hindi, Marathi, Punjabi, Gujarati | North & West    | GSM030100NO | 1               | 5480              |
|                                                   | English, Hindi, Kannada, Telugu, Tamil    | South           | GSM030100SO | 1               | 5480              |
|                                                   | English, Hindi, Bengali, Odiya, Assamese  | East            | GSM030100EO | 1               | 5480              |



### M-POWER+ & M-POWER++ Accessories

| Description                         | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------------------------------------|-------------|-----------------|-------------------|
| Wire Type Antenna [8538]            | GSM0301A000 | 1               | 570               |
| Controller-side Wire Harness [8544] | GSM0301C000 | 1               | 220               |
| Module-side Wire Harness [8544]     | GSM0301G000 | 1               | 320               |



Controller-side Wire Harness & Module-side Wire Harness Wire Type Antenna

# Auto WLC

WLC monitors the water level in the tanks and controls the actuation of the motor/pump. The WLC can be used for applications like filling & draining the tank, filling only one tank with dual levels monitoring, draining only one tank with dual level monitoring.

This Auto WLC comes with three variants:

- › **SzLC** - Used for Single Phase Monoblock & Self Priming Pump (Upto 3HP)
- › **SzLC1** - Used for Single Phase Submersible Pump (Upto 3HP)
- › **SzLC3** - Used for Three Phase Submersible

## Features

- › Two level detection of water in a tank
- › One/Two tank monitoring for draining or filling or draining and filling the water
- › High load switching capacity of output up to 30A. (For SzLC & SzLC1)
- › Separate LED indication for water level, power, and relay status
- › Settable Power ON Delay and OFF timer
- › Multiple operating modes like AUTO/ ON/ OFF (For SzLC) and AUTO/ MANUAL/ BYPASS (For SzLC1 & SzLC3)
- › Protections against dry run and over filling, means trip against tank emptying and over filling through probe sensing only



## Auto WLC [HSN Code 9032]

| Description                                                  | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------------------------------------------------|-------------|-----------------|-------------------|
| Auto WLC, SzLC : For Single Phase Double Tank                | XM810600000 | 1               | 2130              |
| Auto WLC, SzLC1 : For Single Phase (STARTER+CAP) Double Tank | XM810620000 | 1               | 2630              |
| Auto WLC, SzLC : For Single Phase Single Tank                | XM810660000 | 1               | 2090              |
| Auto WLC, SzLC1 : For Single Phase (STARTER+CAP) Single Tank | XM810670000 | 1               | 2540              |
| Auto WLC, SzLC3 : For Three Phase Double Tank                | XM810650000 | 1               | 3450              |
| Auto WLC, SzLC3 : For Three Phase Single Tank                | XM810680000 | 1               | 3360              |



# SASDz5 & Sz1A Auto Switch

## SASDz5

SASDz5 Auto Switch SPPR is specially designed for the SASD starters. With the help of SASDz5, a Semi-Automatic (SASD) Starter can be converted into Fully Automatic (FASD) Starters. This SASDz5 is compatible with both two-button SASD starters (Start and Stop button) and three-button SASD starter (Start, Run and Stop button).

### Features

- › Auto / Manual / OFF Mode (Bypass)
- › Phase loss, phase reversal, voltage unbalance, over voltage protection
- › ON delay timer and Star-Delta timer
- › LED indications for all voltage faults
- › Compatible with all types of Semi-Automatic Star-Delta (SASD) starters
- › Easy connection



### SASDz5 [HSN Code 9032]

| Description                                        | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------------------|-------------|-----------------|-------------------|
| SASDz5, AUTO SWITCH SPPR FOR 2 BUTTON SASD STARTER | XM818100000 | 1               | 1730              |
| SASDz5, AUTO SWITCH SPPR FOR 3 BUTTON SASD STARTER | XM818110000 | 1               | 1730              |

## Sz1A

Sz1A Auto Switch is designed for single phase submersible pump application up to 3HP as well as Monoblock pump application. It enables automatic operation of single phase pump/motor.

### Features

- › In-built ON Delay Timer, Range: 30 sec to 5 minute Settable
- › Auto/Manual mode of operation
- › Multiple LED indicators for ease of monitoring

### Sz1A [HSN Code 9032]



| Description                                     | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------------------------------------------------|-------------|-----------------|-------------------|
| Sz1A, AUTO SWITCH SPPR FOR SINGLE PHASE STARTER | XM818120000 | 1               | 1630              |

# i-PROTECTOR

Now with dedicated & separate buttons for Dry Run threshold & Dry Run reset delay

## Features

- › Micro-controller based protection design
- › Digital Ammeter and Voltmeter in select variants
- › Auto / Manual / Bypass Mode available
- › Suitable for all starters - upto 40A
- › Protections available - Voltage Single Phasing, Current Single Phasing, Voltage Unbalance fault from supply side, Current Unbalance fault from motor side, Phase reversal fault, Under voltage fault, Overvoltage fault
- › Dry-Run fault protection (With adjustable current setting and adjustable reset time)



## Recommended i-PROTECTOR for our starters

| Product | DOL             |                        |           |                     |         |                             | Star - Delta                 |           |           |                           |          |                             |
|---------|-----------------|------------------------|-----------|---------------------|---------|-----------------------------|------------------------------|-----------|-----------|---------------------------|----------|-----------------------------|
|         | 3-Phase Starter |                        |           | 3- Phase Controller |         |                             | 3-Phase SASD / FASD Starters |           |           | 3-Phase Controller (FASD) |          |                             |
|         | MK1 / MK2       | MU1 / MU1H / MU2 / MU3 | MB1 / MB2 | MU-G6               | MU-G7.5 | MU-G10 / MU-G10H / MU-G10HN | MK1                          | MU1 / MU2 | MB1 / MB2 | MU-G15                    | MU-G17.5 | MU-G20 / MU-G20H / MU-G20HN |
| i-ADSM  | ✓               | ✓                      | ✓         | ✓*                  | ✓*      | ✓*                          | ✓                            | ✓         | ✗         | ✓*                        | ✓*       | ✓*                          |
| i-VDSM  | ✓               | ✓                      | ✓         | ✓*                  | ✓*      | ✓*                          | ✓                            | ✓         | ✗         | ✓*                        | ✓*       | ✓*                          |

\* Note : MU-G Controller is provided with Sz5 /SDz5. In case of upgradation, use i-ADSM, i-VDSM in place of SPPR

✓ Note : i-PROTECTOR is compatible with the mentioned starter

## i-PROTECTOR [HSN Code 8536]

| Product Designation | Product Details                                                                | 360 V       | 415 V       | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------|--------------------------------------------------------------------------------|-------------|-------------|-----------------|-------------------|
| i-ADSM              | Single phasing preventer & dry run protection relay + VI meter (current based) | CS90863C000 | CS90863D000 | 1               | 3980              |
| i-VDSM              | Single phasing preventer & dry run protection relay + VI meter (voltage based) | CS90875C000 | CS90875D000 | 1               | 3980              |

Note: Different voltage variants of i-PROTECTOR are as per the coil voltages of our Agri contactors and are to be suitably selected.

## WIRE HARNESS FOR i-PROTECTOR [HSN Code 8544]

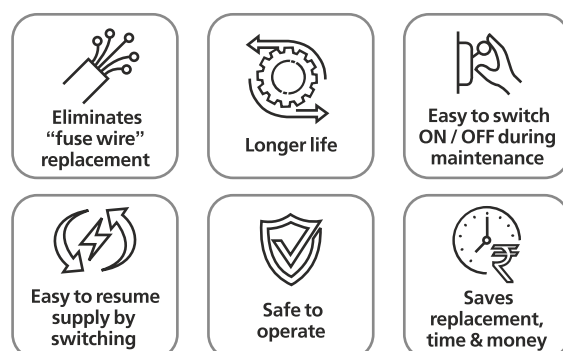
| Description                  | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------|-------------|-----------------|-------------------|
| Wire Harness, i-ADSM, i-VDSM | CS916350000 | 1               | 430               |



# MCB with K-Curve Exclusively for Agricultural Pumps

## Features

- Range available from 10A to 125A - 3 Pole and 10A to 32A - 2 Pole
- Specially designed MCBs with K-Curve
  - Short circuit tripping band suitable for submersible pumps
  - Offers effective short circuit protection
- Rated Voltage: 240V & 415V AC
- Breaking Capacity
  - 10kA as per IEC 60947-2 up to 63A
  - 15kA as per IEC 60947-2 up to 100A-125A
- Distinct advantages over rewirable fuse



## MCB Selection for Controllers

| 2 Pole  |             |                | 3 Pole  |             |                |
|---------|-------------|----------------|---------|-------------|----------------|
| Product | Relay Range | MCB Rating (A) | Product | Relay Range | MCB Rating (A) |
| MR-G2   | 4-6.5       | 10             | MU-G6   | 4-6.5       | 10             |
|         | 06-10       | 10             |         | 06-10       | 10             |
|         | 09-14       | 16             |         | 09-14       | 16             |
|         | 10-18       | 20             | MU-G10  | 4-6.5       | 10             |
|         | 13-22       | 25             |         | 06-10       | 10             |
| MR-G3   | 16-26       | 32             |         | 09-14       | 16             |
|         | 20-32       | 32             |         | 13-21       | 25             |
|         |             |                | MU-G10H | 20-32       | 32             |
|         |             |                |         | 28-42       | 50             |
|         |             |                | MU-G20  | 09-14       | 40             |
|         |             |                |         | 13-21       | 50             |
|         |             |                | MU-G20H | 20-32       | 100            |
|         |             |                |         | 28-42       | 125            |

## MCB CAT NOS. & Ratings [HSN Code 8536]



| MCB Pole | Cat. No. | MCB Rating (A) | Module 1Mod=17.5mm | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------|----------|----------------|--------------------|-----------------|-------------------|
| 2 - Pole | LK20100K | 10             | 2                  | 6               | 935               |
|          | LK20160K | 16             | 2                  | 6               | 935               |
|          | LK20200K | 20             | 2                  | 6               | 935               |
|          | LK20250K | 25             | 2                  | 6               | 935               |
|          | LK20320K | 32             | 2                  | 6               | 935               |



| MCB Pole | Cat. No. | MCB Rating (A) | Module 1Mod=17.5mm | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------|----------|----------------|--------------------|-----------------|-------------------|
| 3 - Pole | LK30100K | 10             | 3                  | 4               | 1500              |
|          | LK30160K | 16             | 3                  | 4               | 1500              |
|          | LK30200K | 20             | 3                  | 4               | 1500              |
|          | LK30250K | 25             | 3                  | 4               | 1500              |
|          | LK30320K | 32             | 3                  | 4               | 1500              |
|          | LK30400K | 40             | 3                  | 4               | 2310              |
|          | LK30500K | 50             | 3                  | 4               | 2310              |
|          | LK30630K | 63             | 3                  | 4               | 2310              |
|          | LK31000K | 100            | 4.5                | 1               | 10060             |
|          | LK31250K | 125            | 4.5                | 1               | 11175             |

# DY125U MCCB

## For your Pump Applications

### Features

- › Conforms to IS / IEC 60947-2, IEC 60947-2 & EN 60947-2
- › Range: 25A to 100A, 3P, 415V AC
- › Breaking capacity Icu -10kA (Ics=100% Icu)
- › High Electrical & Mechanical life
- › Thermal Magnetic Release
- › No Load-Line Bias
- › ON-TRIP-OFF indication
- › Suitable for Isolation
- › Rated insulation voltage (Ui) - 800VAC
- › Rated impulse withstand voltage (Uimp)-8kV
- › CE Marking



### MCCB Cat Nos. & Ratings [HSN Code 8536]

| Type   | Poles | Current Rating (A) | Breaking Capacity Icu (kA)                                                | Cat. No.    | Description                            | M.R.P. ₹ Per Unit |
|--------|-------|--------------------|---------------------------------------------------------------------------|-------------|----------------------------------------|-------------------|
| DY125U | 3P    | 25                 | AC: 10kA@ 415V AC,<br>50 Hz/60 Hz<br>DC : 10kA@ 250V DC<br>(3P in series) | EM9098300DO | MCCB DY125U 25A 3P 10kA FTFM           | 2520              |
|        |       | 32                 |                                                                           | EM9098300EO | MCCB DY125U 32A 3P 10KA FTFM           | 2520              |
|        |       | 40                 |                                                                           | EM9098300FO | MCCB DY125U 40A 3P 10KA FTFM           | 2520              |
|        |       | 50                 |                                                                           | EM9098300GO | MCCB DY125U 50A 3P 10KA FTFM           | 2520              |
|        |       | 63                 |                                                                           | EM9098300HO | MCCB DY125U 63A 3P 10KA FTFM           | 2450              |
|        |       | 80                 |                                                                           | EM9081300JO | MCCB DY125U 80A 3P 10KA FTFM           | 2450              |
|        |       | 100                |                                                                           | EM9081300KO | MCCB DY125U 100A 3P 10KA FTFM W/O SPRD | 2450              |



# Power Factor Correction Capacitors

## Features

- › Self-healing property ensures longer life of capacitor
- › Leak proof and high viscous resin construction, hence no leakage or spillage
- › Superior quality Metalized Polypropylene (MPP) film, ingress free construction and low losses ensures capacitance value and longer life of capacitor
- › Metal construction allows natural cooling in ambient
- › Suitable to work on high voltage
- › Improved power factor and low losses ensures optimized cable usage, lesser overheating of motor and hence lesser damage and maintenance



## Power Capacitors suitable for Agricultural Applications Box Capacitors [HSN Code 8532]

| Rating    | Voltage | Cat. No.   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|---------|------------|-----------------|-------------------|
| 1 kVAr    | 440V    | LTBCA301B2 | 1               | 250               |
| 2 kVAr    | 440V    | LTBCA302B2 | 1               | 480               |
| 3 kVAr    | 440V    | LTBCA303B2 | 1               | 725               |
| 4 kVAr    | 440V    | LTBCA304B2 | 1               | 970               |
| 5 kVAr    | 440V    | LTBCA305B2 | 1               | 1215              |
| 6 kVAr    | 440V    | LTBCA306B2 | 1               | 1460              |
| 7.5 kVAr  | 440V    | LTBCA307B2 | 1               | 1825              |
| 8.33 kVAr | 440V    | LTBCA308B2 | 1               | 2025              |
| 10 kVAr   | 440V    | LTBCA310B2 | 1               | 2435              |
| 12.5 kVAr | 440V    | LTBCA312B2 | 1               | 3035              |
| 15 kVAr   | 440V    | LTBCA315B2 | 1               | 3640              |
| 20 kVAr   | 440V    | LTBCA320B2 | 1               | 4855              |
| 25 kVAr   | 440V    | LTBCA325B2 | 1               | 6065              |
| 30 kVAr   | 440V    | LTBCA330B2 | 1               | 7265              |

## Cylindrical Capacitors [HSN Code 8532]

| Rating    | Voltage | Cat. No.   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|---------|------------|-----------------|-------------------|
| 1 kVAr    | 440V    | LTCCA301B2 | 1               | 205               |
| 2 kVAr    | 440V    | LTCCA302B2 | 1               | 405               |
| 3 kVAr    | 440V    | LTCCA303B2 | 1               | 605               |
| 4 kVAr    | 440V    | LTCCA304B2 | 1               | 810               |
| 5 kVAr    | 440V    | LTCCA305B2 | 1               | 1010              |
| 6 kVAr    | 440V    | LTCCA306B2 | 1               | 1215              |
| 7.5 kVAr  | 440V    | LTCCA307B2 | 1               | 1520              |
| 8.33 kVAr | 440V    | LTCCA308B2 | 1               | 1685              |
| 10 kVAr   | 440V    | LTCCA310B2 | 1               | 2025              |
| 12.5 kVAr | 440V    | LTCCA312B2 | 1               | 2520              |
| 15 kVAr   | 440V    | LTCCA315B2 | 1               | 3025              |
| 20 kVAr   | 440V    | LTCCA320B2 | 1               | 4040              |
| 25 kVAr   | 440V    | LTCCA325B2 | 1               | 5035              |
| 30 kVAr   | 440V    | LTCCA330B2 | 1               | 6045              |

## Cylindrical Capacitors with Clamps [HSN Code 8532]

| Rating    | Voltage | Cat. No.   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|---------|------------|-----------------|-------------------|
| 1 kVAr    | 440V    | LTCCC301B2 | 1               | 235               |
| 2 kVAr    | 440V    | LTCCC302B2 | 1               | 435               |
| 3 kVAr    | 440V    | LTCCC303B2 | 1               | 635               |
| 4 kVAr    | 440V    | LTCCC304B2 | 1               | 845               |
| 5 kVAr    | 440V    | LTCCC305B2 | 1               | 1035              |
| 6 kVAr    | 440V    | LTCCC306B2 | 1               | 1245              |
| 7.5 kVAr  | 440V    | LTCCC307B2 | 1               | 1555              |
| 8.33 kVAr | 440V    | LTCCC308B2 | 1               | 1715              |
| 10 kVAr   | 440V    | LTCCC310B2 | 1               | 2050              |
| 15 kVAr   | 440V    | LTCCC315B2 | 1               | 3060              |
| 20 kVAr   | 440V    | LTCCC320B2 | 1               | 4070              |
| 25 kVAr   | 440V    | LTCCC325B2 | 1               | 5070              |
| 30 kVAr   | 440V    | LTCCC330B2 | 1               | 6085              |

# Power Factor Correction Capacitors



## Power Capacitors suitable for Agricultural Applications Box Capacitors [HSN Code 8532]

| Rating    | Voltage | Cat. No.   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|---------|------------|-----------------|-------------------|
| 1 kVAr    | 415V    | LTBCA301A2 | 1               | 250               |
| 2 kVAr    | 415V    | LTBCA302A2 | 1               | 480               |
| 3 kVAr    | 415V    | LTBCA303A2 | 1               | 725               |
| 4 kVAr    | 415V    | LTBCA304A2 | 1               | 970               |
| 5 kVAr    | 415V    | LTBCA305A2 | 1               | 1215              |
| 6 kVAr    | 415V    | LTBCA306A2 | 1               | 1460              |
| 7.5 kVAr  | 415V    | LTBCA307A2 | 1               | 1825              |
| 8.33 kVAr | 415V    | LTBCA308A2 | 1               | 2025              |
| 10 kVAr   | 415V    | LTBCA310A2 | 1               | 2435              |
| 12.5 kVAr | 415V    | LTBCA312A2 | 1               | 3035              |
| 15 kVAr   | 415V    | LTBCA315A2 | 1               | 3640              |
| 20 kVAr   | 415V    | LTBCA320A2 | 1               | 4855              |
| 25 kVAr   | 415V    | LTBCA325A2 | 1               | 6065              |
| 30 kVAr   | 415V    | LTBCA330A2 | 1               | 7265              |



## Cylindrical Capacitors [HSN Code 8532]

| Rating    | Voltage | Cat. No.   | Std.Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|-----------|---------|------------|--------------------|----------------------|
| 1 kVAr    | 415V    | LTCCA301A2 | 1                  | 205                  |
| 2 kVAr    | 415V    | LTCCA302A2 | 1                  | 405                  |
| 3 kVAr    | 415V    | LTCCA303A2 | 1                  | 605                  |
| 4 kVAr    | 415V    | LTCCA304A2 | 1                  | 810                  |
| 5 kVAr    | 415V    | LTCCA305A2 | 1                  | 1010                 |
| 6 kVAr    | 415V    | LTCCA306A2 | 1                  | 1215                 |
| 7.5 kVAr  | 415V    | LTCCA307A2 | 1                  | 1520                 |
| 8.33 kVAr | 415V    | LTCCA308A2 | 1                  | 1685                 |
| 10 kVAr   | 415V    | LTCCA310A2 | 1                  | 2025                 |
| 12.5 kVAr | 415V    | LTCCA312A2 | 1                  | 2520                 |
| 15 kVAr   | 415V    | LTCCA315A2 | 1                  | 3025                 |
| 20 kVAr   | 415V    | LTCCA320A2 | 1                  | 4040                 |
| 25 kVAr   | 415V    | LTCCA325A2 | 1                  | 5035                 |
| 30 kVAr   | 415V    | LTCCA330A2 | 1                  | 6045                 |



# Capacitor Selection

- › These are only broad guidelines
- › For actual values please contact Motor manufacturer
- › Recommended capacitor ratings for direct connection to induction motors

**for direct connection to induction motors to improve power factor to 0.95 or better at all loads kVAR ratings when speed is:**

| Motor |       | 3000 rpm         | 1500 rpm         | 1000 rpm         | 750 rpm          | 500 rpm          |
|-------|-------|------------------|------------------|------------------|------------------|------------------|
| HP    | KW    | Capacitor (KVAR) | Capacitor (KVAR) | Capacitor (KVAR) | Capacitor (KVAR) | Capacitor (KVAR) |
| 2.5   | 1.9   | 1                | 1                | 1.5              | 2                | 2.5              |
| 5     | 3.7   | 2                | 2                | 2.5              | 3.5              | 4                |
| 7.5   | 5.6   | 2.5              | 3                | 3.5              | 4.5              | 5.5              |
| 10    | 7.5   | 3                | 4                | 4.5              | 5.5              | 6.5              |
| 15    | 11.2  | 4                | 5                | 6                | 7.5              | 9                |
| 20    | 14.9  | 5                | 6                | 7                | 9                | 12               |
| 25    | 18.7  | 6                | 7                | 9                | 10.5             | 14.5             |
| 30    | 22.4  | 7                | 8                | 10               | 12               | 17               |
| 40    | 29.8  | 9                | 10               | 13               | 15               | 21               |
| 50    | 37.3  | 11               | 12.5             | 16               | 18               | 25               |
| 60    | 44.8  | 13               | 14.5             | 18               | 20               | 28               |
| 70    | 52.2  | 15               | 16.4             | 20               | 22               | 31               |
| 80    | 59.7  | 17               | 19               | 22               | 24               | 34               |
| 90    | 67.1  | 19               | 21               | 24               | 26               | 37               |
| 100   | 74.6  | 21               | 23               | 26               | 28               | 40               |
| 110   | 82.1  | 23               | 25               | 28               | 30               | 43               |
| 120   | 89.5  | 25               | 27               | 30               | 32               | 46               |
| 130   | 97.0  | 27               | 29               | 32               | 34               | 49               |
| 140   | 104.4 | 29               | 31               | 34               | 36               | 52               |
| 145   | 108.2 | 30               | 32               | 35               | 37               | 54               |
| 150   | 111.9 | 31               | 33               | 36               | 38               | 55               |
| 155   | 115.6 | 32               | 34               | 37               | 39               | 56               |
| 160   | 119.4 | 33               | 35               | 38               | 40               | 57               |
| 165   | 123.1 | 34               | 36               | 39               | 41               | 59               |
| 170   | 126.8 | 35               | 37               | 40               | 42               | 60               |
| 175   | 130.6 | 36               | 38               | 41               | 43               | 61               |
| 180   | 134.3 | 37               | 39               | 42               | 44               | 62               |
| 185   | 138.0 | 38               | 40               | 43               | 45               | 63               |
| 190   | 141.7 | 38               | 40               | 43               | 45               | 65               |
| 200   | 149.2 | 40               | 42               | 45               | 47               | 67               |
| 250   | 186.5 | 45               | 50               | 55               | 60               | 70               |

# MFD Capacitors for Single Phase Application

## Features

- › Self-healing property of metalized film ensures longer life of capacitor Oil free dry resin construction, hence no leakage or spillage and no damage to panel
- › Superior quality Metalized Polypropylene (MPP) film, ingress free construction and low losses ensures capacitance value and longer life of capacitor
- › Suitable to work on high voltage
- › High insulation resistance ensures minimum leakage loss
- › Low losses and rated capacitance value ensures trouble free operation and performance of your motor

## Spare Cylindrical Condensers with Wire [HSN Code 8532]



| Type  | Rating    | Voltage | Cat. No.     | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------|-----------|---------|--------------|-----------------|-------------------|
| Run   | 10        | 440V    | LTCCMRW010B2 | 21              | 85                |
|       | 12.5      | 440V    | LTCCMRW125B2 | 21              | 100               |
|       | 15        | 440V    | LTCCMRW015B2 | 21              | 125               |
|       | 20        | 440V    | LTCCMRW020B2 | 21              | 150               |
|       | 25        | 440V    | LTCCMRW025B2 | 12              | 160               |
|       | 30        | 440V    | LTCCMRW030B2 | 12              | 170               |
|       | 36        | 440V    | LTCCMRW036B2 | 12              | 180               |
|       | 40        | 440V    | LTCCMRW040B2 | 12              | 230               |
|       | 45        | 440V    | LTCCMRW045B2 | 12              | 255               |
|       | 50        | 440V    | LTCCMRW050B2 | 12              | 265               |
|       | 72        | 440V    | LTCCMRW072B2 | 12              | 345               |
| Start | 80 - 100  | 275V    | LTCCMSW100P2 | 12              | 255               |
|       | 100 - 120 | 275V    | LTCCMSW120P2 | 12              | 295               |
|       | 120 - 150 | 275V    | LTCCMSW150P2 | 12              | 350               |
|       | 150 - 200 | 275V    | LTCCMSW200P2 | 12              | 400               |
|       | 200 - 250 | 275V    | LTCCMSW250P2 | 12              | 445               |

Spare Cylindrical Condensers for MR-G Controllers [HSN Code 8532]



| Type  | Rating    | Voltage | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------|-----------|---------|-------------|-----------------|-------------------|
| Run   | 25        | 440V    | LTCCMR025B2 | 12              | 185               |
|       | 36        | 440V    | LTCCMR036B2 | 12              | 205               |
|       | 50        | 440V    | LTCCMR050B2 | 12              | 325               |
| Start | 80 - 100  | 275V    | LTCCMS100P2 | 12              | 295               |
|       | 100 - 120 | 275V    | LTCCMS120P2 | 12              | 355               |
|       | 120 - 150 | 275V    | LTCCMS150P2 | 12              | 410               |
|       | 150 - 200 | 275V    | LTCCMS200P2 | 12              | 470               |
|       | 200 - 250 | 275V    | LTCCMS250P2 | 12              | 525               |



# Submersible Flat Cable

## Submersible Cables

### Features

- › 1100V Grade cable with 99.97% pure ETP grade copper
- › With uniform double insulation, no shock hazards, hence safe to use
- › Lesser cable resistance, hence negligible voltage drop in cable ensures appropriate voltage at motor terminals



### Submersible Cables (Flat Cables) as per IS694 [HSN Code 8544]

| Nominal Cross Section Area of Conductor (Sq. mm) | Construction Details/ Max Dia (mm) | Current Carrying Capacity at 40°C (A) | Cat. No.      | M.R.P. ₹ Per Unit                               |
|--------------------------------------------------|------------------------------------|---------------------------------------|---------------|-------------------------------------------------|
| 1                                                | 14 / 0.3                           | 11                                    | WS00010PECM*. | Please refer Submersible Flat Cables Price List |
| 1.5                                              | 22 / 0.3                           | 14                                    | WS00015PECM*. |                                                 |
| 2.5                                              | 36 / 0.3                           | 18                                    | WS00025PECM*. |                                                 |
| 4                                                | 56 / 0.3                           | 26                                    | WS00040PECM*. |                                                 |
| 6                                                | 84 / 0.3                           | 31                                    | WS00060PECM*. |                                                 |
| 10                                               | 80 / 0.4                           | 42                                    | WS00100PECM*. |                                                 |
| 16                                               | 126 / 0.4                          | 57                                    | WS00160PECM*. |                                                 |

Note : \* 5 for 500 mts & 1 for 1000 mts.



## General Terms

All prices are on Maximum retail price basis inclusive of all duties, GST & any other tax as applicable.

## Warranty Policy

All products listed in the price list are covered by a warranty against manufacturing defects for a period of 18\* months from the date of purchase. For Lauritz Knudsen MCBs & Isolators mounted inside Lauritz Knudsen Distribution Boards, an extended warranty of 5 years is provided.

In the event of a defect due to faulty workmanship or other associated reasons, we will, at our discretion, remedy the defect or replace the faulty parts or the entire product as soon as possible, free of cost.

However, the warranty is subject to proper usage, efficient maintenance, and does not cover defects arising from fire, accidents, inefficient maintenance, faulty operation, or deliberate or accidental damage. It also does not cover damage to power electronic components such as thyristors & IGBTs, which primarily fail due to overtemperature & over-voltage. Users need to take adequate precautions to eliminate these conditions. Manufacturer shall not be responsible & liable for any special, incidental, social or consequential (including lost profits) loss, consequential damages, injury or damages (punitive) of any kind solely attributable to defect or failure of its products. Manufacturer shall not be liable in any manner for the issue of or failure in the performance of other equipment the product is attached to.

## Comprehensive Service Support

Lauritz Knudsen Electrical & Automation has over seven decades of experience in providing after sales service for low voltage distribution system in every type of industry & commercial complex in India

Lauritz Knudsen Electrical & Automation offers the following services, partnering you in your maintenance of low voltage distribution products:

- › Regular Maintenance
- › Preventive Maintenance Programme
- › On Call
- › Annual Maintenance Contract
- › Product Support for Managing Obsolescence-

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