



# FROM THE COO'S DESK.



Electrical & Automation

Dear Partner,

India is building at a pace and scale that few could have imagined a decade ago. **Infrastructure, metro networks, buildings, farmlands, green energy corridors, the evolving new energy landscape including solar, modernising factories, and connected homes**, the demand on every link in the electrical and automation value chain has never been greater. It is a privilege to stand at the centre of this transformation, and it is a privilege we share with you.

As we step into this new phase of growth, we are sharing our updated price list. **This revision reflects the investments we continue to make in Made in India manufacturing, R&D, and the service infrastructure that you and your customers rely on every day, across every scale, segment, geography, and across all sources of power.** Our commitment to transparency, quality, and reliability remains the foundation of everything we do together.

At Lauritz Knudsen, we carry over 70+ years of experience built in India, for India. Today, that legacy powers a portfolio spanning **Low Voltage solutions, Industrial Automation, Agriculture Solutions, Software and Services**, designed to deliver seamlessly across diverse applications and evolving energy needs. From conventional systems to the rapidly expanding renewable and solar ecosystem, we enable consistent, high performance outcomes that power a **Non Stop India**.

It is your expertise, your relationships, and your reach that turn our solutions into real impact. Every specification advised, every installation completed, every customer served, that is where our shared purpose comes to life. We remain committed to equipping you with the products, training, and support that enable you to deliver with confidence.

As India accelerates toward its Viksit Bharat 2047 vision, the role of reliable, intelligent, and future ready electrical infrastructure has never been more critical. We are ready for what comes next, and we are proud to partner with you on this journey.

Our products and solutions are **built in India and engineered for all**.

**We Listen, We Partner, We Innovate**

A handwritten signature in blue ink, reading "Naresh Kumar".

Warm regards,  
Naresh Kumar  
COO & Sr. VP, Electrical Standard Products  
Lauritz Knudsen Electrical & Automation

# POWERING A NON-STOP INDIA



Electrical & Automation



PROUD PRINCIPAL PARTNER

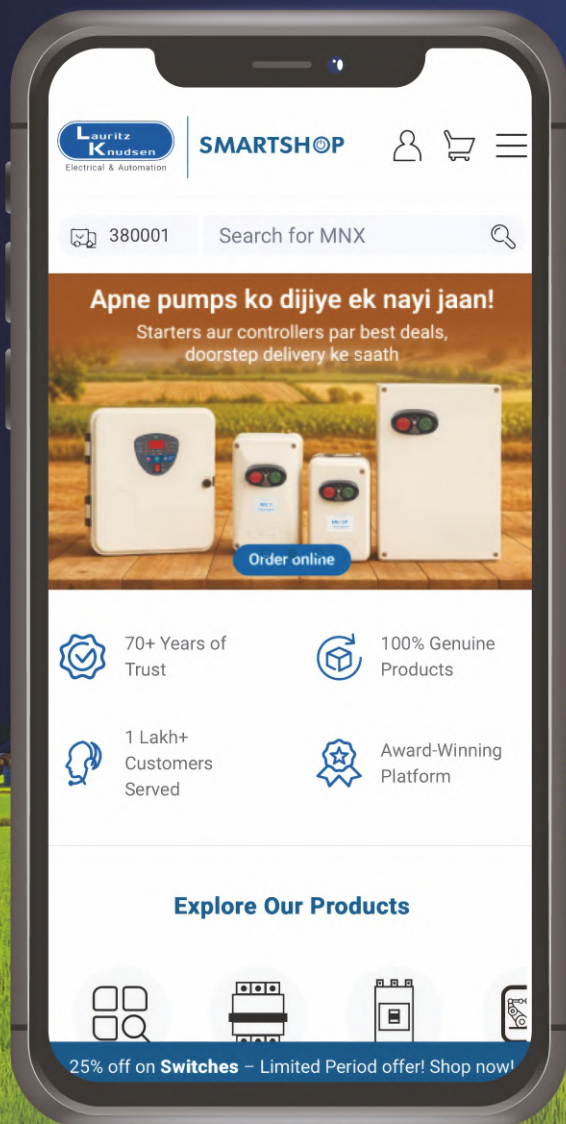




Electrical & Automation

# SMARTSHOP

## SHOP SMART WHEREVER YOU ARE !



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# WE ARE JUST A SCAN AWAY FOR ALL YOUR NEEDS

**AGRI CUSTOMER CARE**

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**AGRI CUSTOMER CARE**

Submit your service  
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# Experience the Future Of

## IRRIGATION AUTOMATION SOLUTION WITH SMARTCOMM IMS



Integrated standard solution - Wired & Wireless



Cloud-based software



Time-based, Volume-based & Sensor-based operation



Remote application & control



Program & scheduling



Central monitoring with web & mobile application



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# Starters and Controllers Offerings & Composition

## Offerings

HP Rating (Based On Relay Range And Maximum 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 (Based On Relay Range And Maximum 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 (Based On Relay Range And Maximum HP Rating)	3 Phase DOL (Direct On-Line)								
	MU-G6	Controller				Controller with WLC		SMART Controller	
		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 (Based On Relay Range And Maximum 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 (Based On Relay Range And Maximum HP Rating)	3 Phase FASD (Fully Automatic Star-Delta)												
	Starters									Automatic MD Starter+ with <i>i</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 (Based On Relay Range And Maximum 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 (Based On Relay Range And Maximum HP Rating)	3 Phase FASD (Fully Automatic Star-Delta)								
	MU-GS 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 (Based On Relay Range And Maximum 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

Starter Type	Relays used																
	Relay Range (A)	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			
Starter Type	Contactors used																
	Relay Range (A)	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							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

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

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

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

Starter Type	Contactors used											
	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											
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-PROTECTOR Type
Starter Type	Relay Range (A)	Contactors used							Contactors used								
		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-ADSM
			MU1	MU1	MU1				MU1	MU1						MU2	i-ADSM/i-VDSM
MD1H-iU				MU1H	MU1H	MU1H					MU1H					MU2	i-ADSM/i-VDSM
MD2-iU				MU2	MU2	MU2	MU2			MU2	MU2	MU2		MU2		MU2	i-ADSM/i-VDSM
MD3-iU						MU3	MU3	MU3					MU3	MU3	MU3	MU2	i-ADSM/i-VDSM

# Starters and Controllers Offerings & Composition

## Composition For Three Phase Controllers

Controller Type	Relays used															
	Relay Range (A)	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

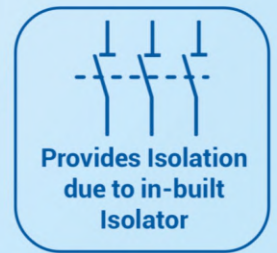
Relay Range (A) Controller Type	Contactors used															Single Phase Preventer Used
	4-6.5	6-10	9-14	11-18	13-21	13-22	15-25	20-32	20-33	24-38	28-42	30-50	36-60	45-75	66-110	
MU-G6	MK1	MK1	MK1													Sz5
MU-G7.5						MK2		MK2								Sz5
MU-G10	MU1	MU1	MU1		MU1											Sz5
MU-G10HN							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	SCPD
SMART Controller Type	Contactors used									
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 #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



**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**



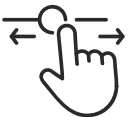
**Customisable Parameters and Access Control**



**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**



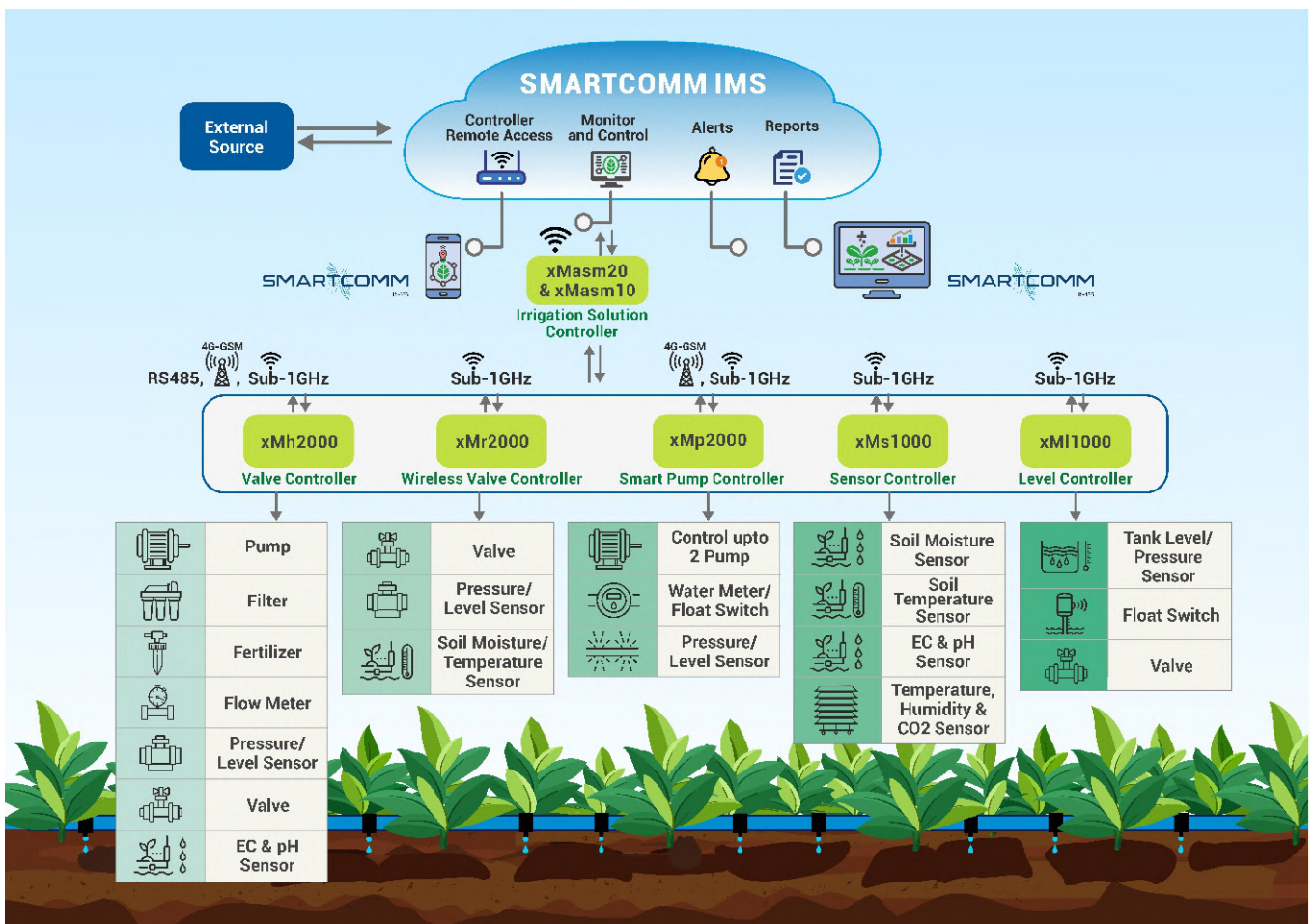
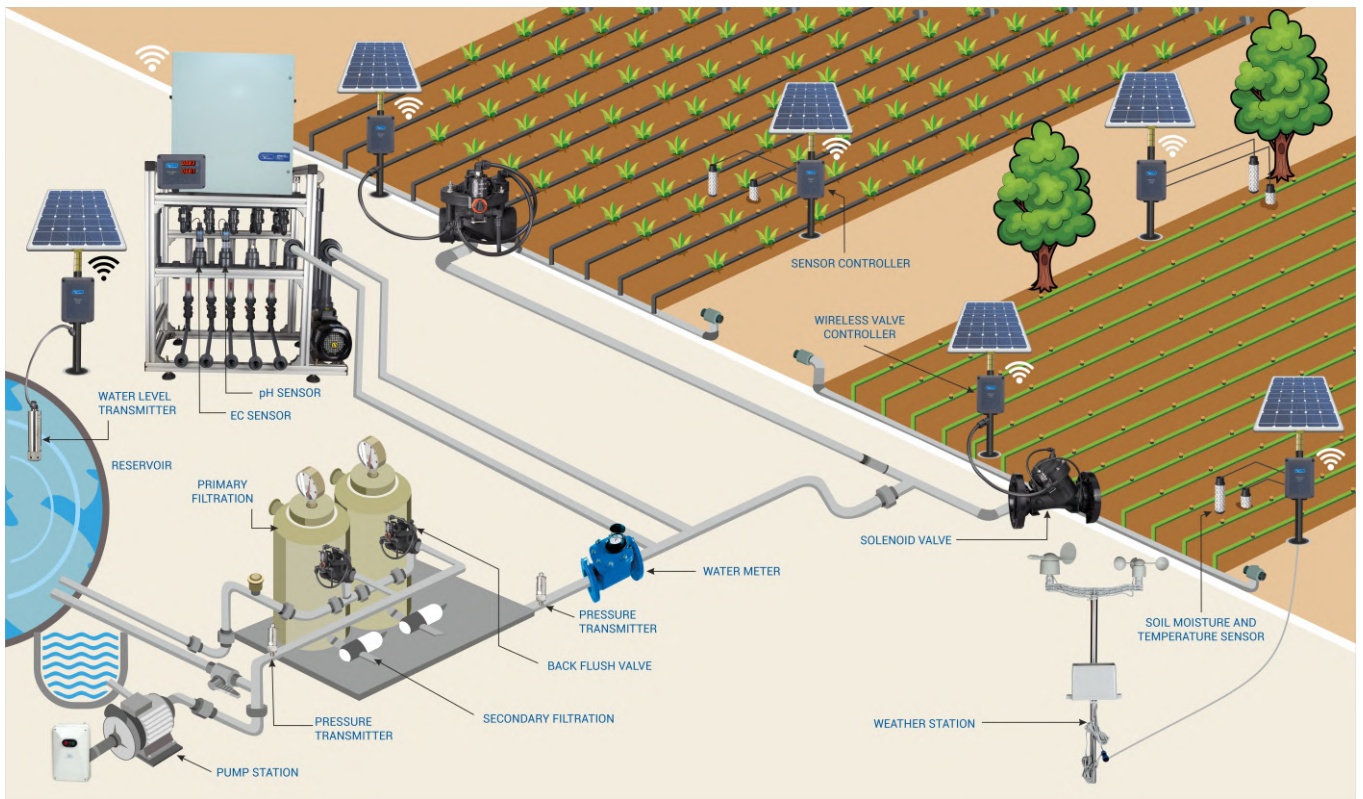
**Real-Time Activity Monitoring**



**Alarms and Notifications**



# Irrigation Automation Solution Layout



# SMARTCOMM IMS

LK FARM | xMm 2000 | All irrigation line | Last sync @ : Today 03:10 PM

PAUSE ALL LINE

**CURRENT SCHEDULE**

Name	Location	Zone	Zone Name	RTC	Cyclic	Start Time	Set (Dur/Flw)	Avg/Flw Rate	Remaining
Program 2 Turned On Manually	IL.2	1/3	Sequence 2.1	--	--	12:00 AM	00:03:00	0/hr	00:03:00

**NEXT SCHEDULE IN QUEUE**

Name	Method	Location	Zone	Zone Name	Start Time	Set(Duration/Flow)
Program 2	No Schedule	IL.2	2	Sequence 2.2	12:03 AM	00:03:00

**SCHEDULED PROGRAM**

Line Id	Name	Method	Status or Reason	Zone	Start Date & Time	End Date	Actions
IL.2	Program 2	No Schedule	Start Stop: Turned On Manually	3	12-05-2025 : 12:00 AM	12-05-2025	Stop Manually, Pause
IL.1	Program 1	Schedule by days	Start Stop: Running As Per Schedule	6	- :-	12-05-2025	Start Manually, Pause
IL.3	Program 3	No Schedule	Start Stop: Program Ready	4	- :-	-	Start Manually, Pause



**Remote Monitoring and Control**



**Overview of Total Farm**



**Graphs and Reports**



**Multi-Lingual Support**



**Mobile and Web Based Application**



**Alerts and Notifications**



**Role Based Access Control**



**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.)
IRRIGATION SOLUTION xMasm10 WIRED	xMasm100000	1
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.)
IRRIGATION MASTER CONTROLLER xMm2000 RS485 Sub-1GHz	xMm2000ROOL	1
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

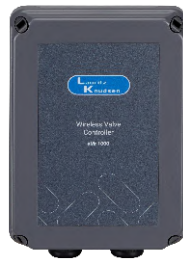
### Valve Controller [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
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
VALVE CONTROLLER xMh1000 RS485 4R	xMh1000RO40*	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.)
WIRELESS VALVE CONTROLLER xMr1000 4L Sub-1GHz	xMr1000TO40	1
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.)
SMART PUMP CONTROLLER xMp1000 GSM	xMp1000G000	1
SMART PUMP+ CONTROLLER xMp2000 GSM with 6 Digital I/P & ADC - 2nos.	xMp2000G000	1
SMART PUMP CONTROLLER xMp1000 WiFi	xMp1000W000	1
SMART PUMP+ CONTROLLER xMp2000 WiFi with 6 Digital I/P & ADC - 2nos.	xMp2000W000	1
SMART PUMP CONTROLLER xMp2000 GSM 1PH with 6 Digital I/P & ADC - 2nos	xMp2000G1PH	1

## Smart Pump Controller [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
SMART PUMP+ CONTROLLER xMp2000 Sub-1GHz with 6 Digital I/P & ADC - 2nos	xMp2000L000	1
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.)
WEATHER STATION CONTROLLER xMw1000 GSM	xMw1000G000	1
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.)
WIRELESS TANK LEVEL CONTROLLER xMI1000 4LS ADC DI Sub-1GHz	xMI1000L00A	1
WIRELESS TANK LEVEL CONTROLLER xMI1000 4L 4LS ADC Sub-1GHz	xMI1000L04A	1

### 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.)
EC-pH Monitor xMs1000 EC-pH	xMs1000EP4S	1

### xMs1000 Soil Moisture Controller

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



xMs1000

#### Soil Moisture Controller [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
Soil Moisture Controller xMs1000 4SM ST Sub-1GHz	xMs1000TS4S	1

### xMs1000 Humidity and CO<sub>2</sub> Controller

#### Humidity and CO<sub>2</sub> Controller [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
Humidity and CO <sub>2</sub> Controller xMs1000 H CO <sub>2</sub> 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.)
2"THREADED 3 WAY 24V AC xMv1200 VALVE	xMv1200ACOT	1
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.)
2"THREADED xMv1 200 PRESSURE SUSTAINING VALVE	xMv1200PSOT	1
3"THREADED xMv1 300 PRESSURE SUSTAINING VALVE	xMv1300PSOT	1
4"THREADED xMv1 400 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.)
2"THREADED xMv100Q PRESSURE RELIEF VALVE	xMv100QPR2T	1
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.)
3"AUTO BACK FLUSH VALVE xMv1300	xMv1300ABFV*	1

Note: \*Upcoming Cat. Nos.

## Air Valve

### Air Valve [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
1" AIR VALVE 32mm xMv1100	xMv110032AV	1

## 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.)
2"WATER FLOW METER xMfI200	xMfI2000000	1
3"WATER FLOW METER xMfI300	xMfI3000000	1
4" WATER FLOW METER xMfI400	xMfI4000000	1

## Sensors



Soil Moisture Sensor with 5 Mtr Cable

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

Description	Cat. No.	Std. Pkg. (Nos.)
SOIL MOISTURE SENSOR xMd1300 5 mtr CABLE	xMd13000005	1
SOIL TEMPERATURE SENSOR xMd1300	xMd13000000	1



### Pressure Transmitter [HSN Code 9026]

Description	Cat. No.	Std. Pkg. (Nos.)
PRESSURE TRANSMITTER xMd1400 0-10 bar	xMd14000010	1



### Water Level Transmitter [HSN Code 9026]

Description	Cat. No.	Std. Pkg. (Nos.)
WATER LEVEL TRANSMITTER xMd1500 0-15 mtr	xMd15000015	1
WATER LEVEL TRANSMITTER xMd1500 0-30 mtr	xMd15000030	1



pH sensor xMd1200 EC sensor xMd1100

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

Description	Cat. No.	Std. Pkg. (Nos.)
EC SENSOR xMd1100	xMd11000010	1
pH SENSOR 0 TO 14pH xMd1200	xMd12000014	1

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

Description	Cat. No.	Std. Pkg. (Nos.)
RAIN AND WIND SENSOR xMd1700	xMd17000000	1

## Humidity and CO<sub>2</sub> Sensor [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
HUMIDITY AND CO <sub>2</sub> SENSOR xMd1800	xMd18000000	1

## Lux Sensor [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
LUX SENSOR xMd1900	xMd19000000	1

## Leaf Wetness Sensor [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
LEAF WETNESS SENSOR xMd2000	xMd20000000	1

## Accessories



## Solenoid Coil [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
3 WAY SOLENOID xMsp100 24V AC	xMsp1003SAC	1
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.)
PRESSURE SUSTAIN PILOT xMsp100	xMsp100PSPO	1

## Float Switch [HSN Code 9026]

Description	Cat. No.	Std. Pkg. (Nos.)
FLOAT SWITCH xMfs100	xMfs1001000	1
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]



xMa1100

xMa1000

Description	Cat. No.	Std. Pkg. (Nos.)
IRRIGATION POWER MODULE xMa1100 (With connecting cables to connect with xMxv & xMyv Irrigation System Units)	xMa11000000	1
IRRIGATION POWER MODULE xMa1000	xMa10000000	1

## AC to DC Adaptor [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
AC TO DC ADAPTOR xMsp100	xMsp100ACDC*	1

Note: \*Upcoming Cat. Nos.

## Extend [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
EXTEND xMe1000 Sub-1GHz	xMe1000L000	1

## Bluetooth Device [HSN Code 8424]

Description	Cat. No.	Std. Pkg. (Nos.)
BLUETOOTH DEVICE xMb1000	xMb10000000	1

## Solar Panel [HSN Code 8541]

Description	Cat. No.	Std. Pkg. (Nos.)
20W SOLAR PANEL xMa1020 WITH CLAMP	xMa1020C000	1
20W SOLAR PANEL xMa1020	xMa10200000	1

## Other Accessories

### Other Accessories [HSN Code 9032]

Description	Cat. No.	Std. Pkg. (Nos.)
WIRELESS LEVEL MONITOR RECEIVER xMsp100	xMsp100LMRO	1
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.)
IRRIGATION FERTIGATION MODULE xMf1000	xMf10000000	1
IRRIGATION FERTIGATION MODULE xMf3000	xMf30000000	1
IRRIGATION FERTIGATION MODULE xMf5000	xMf50000000	1

**Fertigation Accessories [HSN Code 8424]**

Description	Cat. No.	Std. Pkg. (Nos.)
NEEDLE VALVE xMsp100	xMsp100NV00	1
ROTAMETER 500 xMsp100	xMsp100R500	1
VENTURI 600 xMsp1V0	xMsp1V00600	1
DOSING SOLENOID COIL xMsp100	xMsp100SC00	1



# Irrigation System Units



xMxv30M



xMzv30M

## Irrigation System Units [HSN Code 8424]

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

\*Upcoming Cat. Nos.

Note: xMxv & xMyv Irrigation System Units can be connected with xMa1100 Power Module.

## 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	xMsc100RS00
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	xMsc100SPOO
MOISTURE CARD xMsc100	xMsc100M000
DIGITAL INPUT CARD xMsc100	xMsc100DI00
WEATHER CARD xMsc100	xMsc100WE00
MASTER CONTROLLER BASE CARD xMsc100	xMsc100MBOO
VALVE CONTROLLER BASE CARD xMsc100	xMsc100HBOO
VALVE CONTROLLER BASE CARD xMsc200	xMsc200HBOO
WIRELESS VALVE CONTROLLER BASE CARD xMsc100	xMsc100RB00
LEVEL BASE CARD xMsc100	xMsc100LB00
SENSOR 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	xMsc100WPOO
GSM PUMP CARD xMsc100	xMsc100GPOO
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

**Note :** Please refer to the Irrigation Automation Solution Price List for more details and applicable MRPs.

# MCB

with K-Curve

**Exclusively for Agricultural Pumps**



Eliminates "fuse wire" replacement



Easy to resume supply by switching



Saves replacement, time & money



Longer life



Safe to operate



Easy to switch ON/OFF during maintenance

> K-Curve MCB offers effective short circuit protection for submersible pumps

> Available in range: 10A to 125A-3 Pole & 10A to 32A-2 Pole

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HIGH PERFORMANCE

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to Emergency Rocker  
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Manual Lock for  
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# MU-GiA / xMU-GiA Multi-Motor Solution

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.



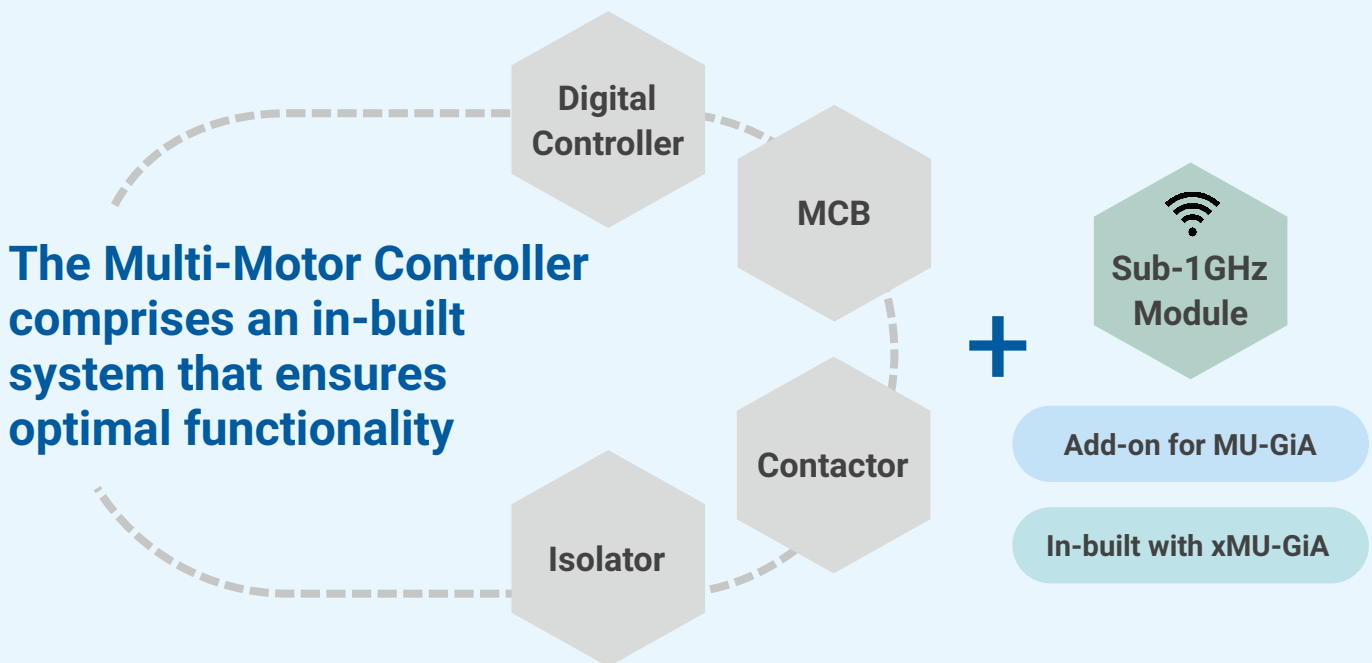
xMU-GiA Multi Motor Controller  
4-Motor/2-Motor Controller



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

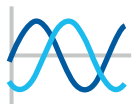


Auto/Manual/Bypass Modes of Operation



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

## 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.

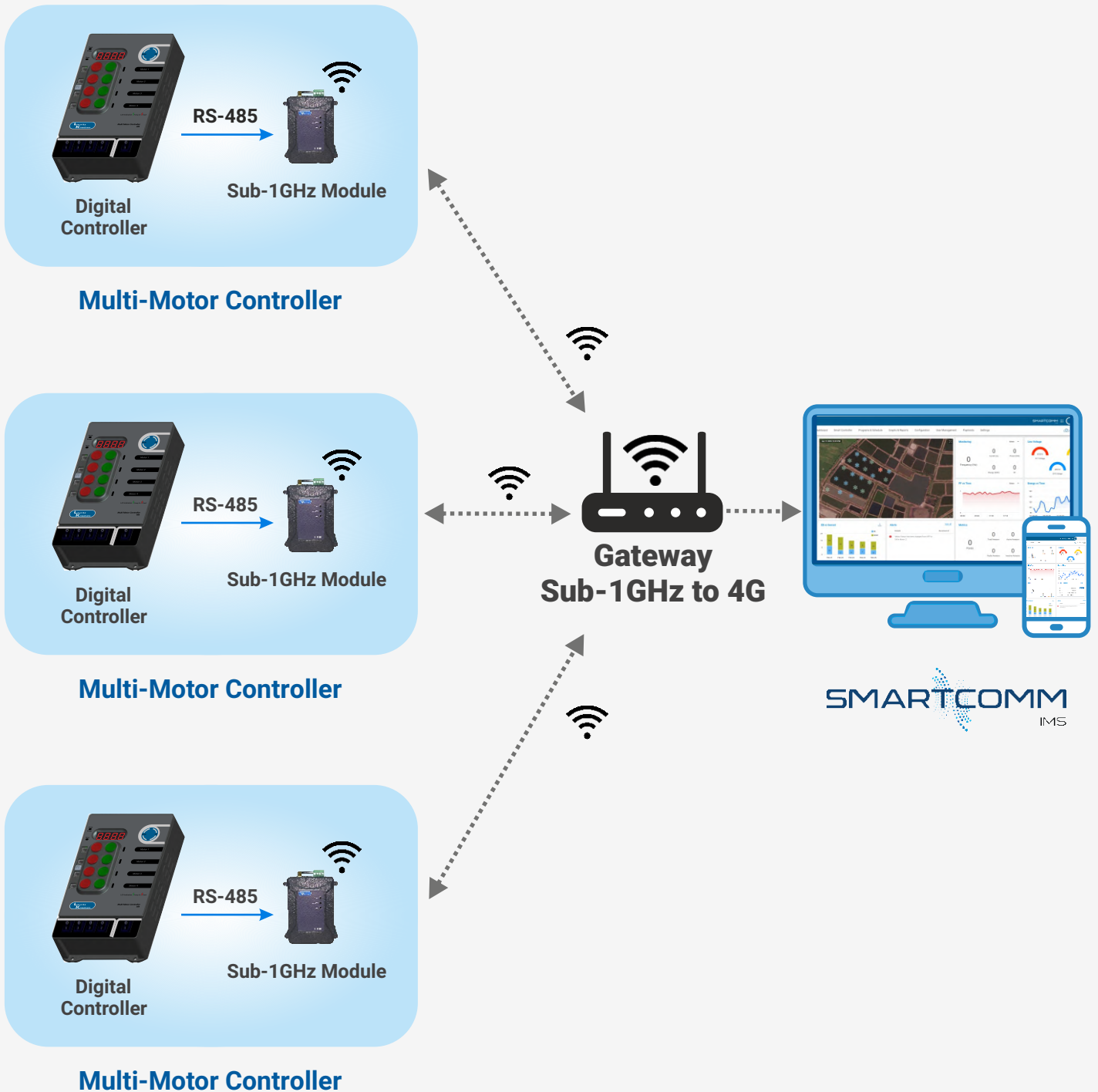
## Multi-Motor Spares [HSN Code 8536]

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

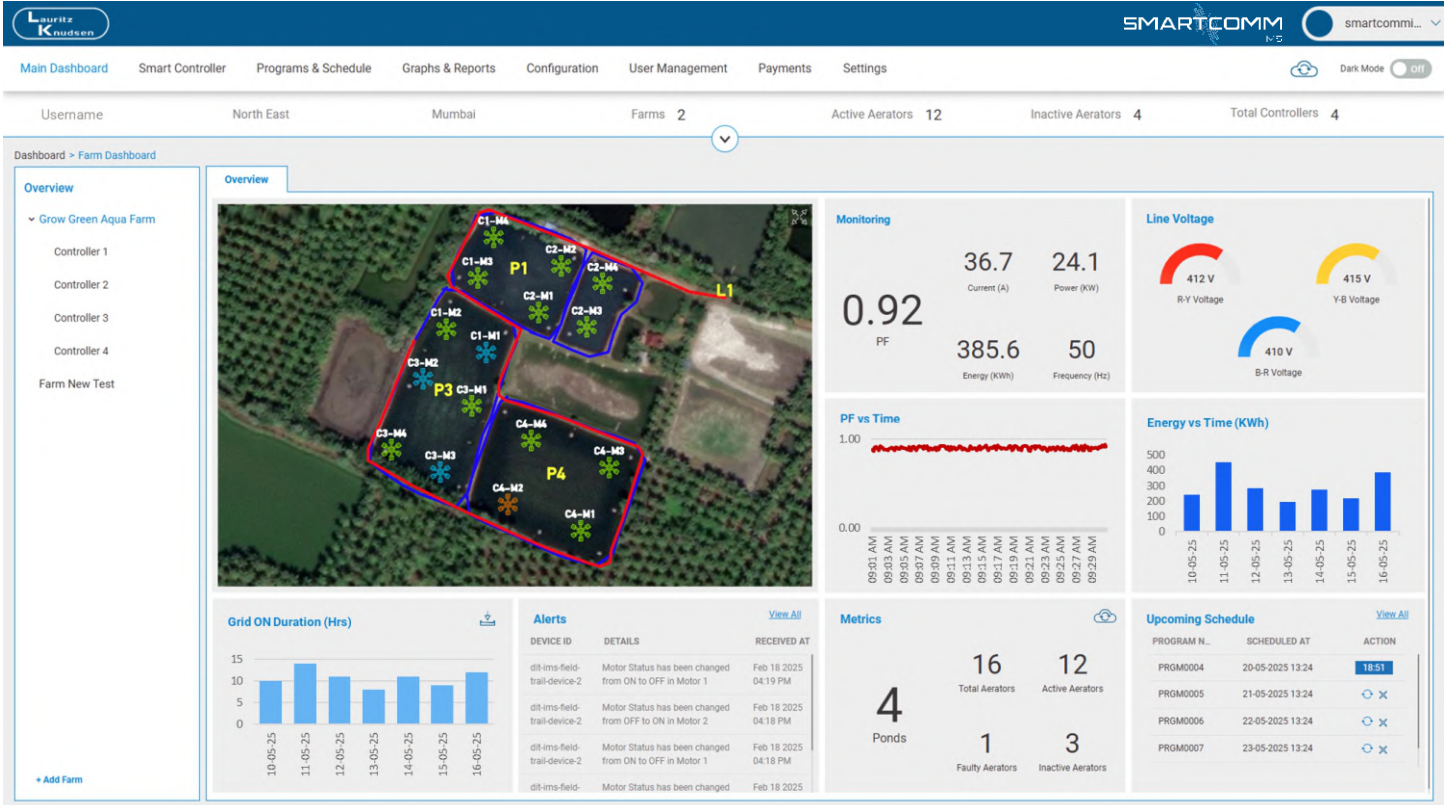


Sub-1GHz Module

# Communication with Multi-Motor Controller



# SMARTCOMM IMS



\*These visual representations are for illustrative purposes only.



**Remote Monitoring and Control**



**Overview of Total Farm**



**Graphs and Reports**



**Multi-Lingual Support**



**Mobile and Web Based Application**



**Alerts and Notifications**



**Role Based Access Control**



**Programming and Scheduling**

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# MK1 Starters



## MK1 DOL Starters [HSN Code 8536]



Interior View of MK1 DOL

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 360V	Coil Voltage 400/440V		
0.25 HP	0.6 - 1			SS96210POKO	10	3890
0.5 HP	1 - 1.6		SS96210COMO	SS96210POMO	10	3890
1 HP	1.5 - 2.5		SS96210COPO	SS96210POPO	10	3890
2 HP	2.5 - 4		SS96210CORO	SS96210PORO	10	3890
4 HP	4 - 6.5	SS96210SOTO	SS96210COTO	SS96210POTO	10	3890
6 HP	6 - 10	SS96210SOVO	SS96210COVO	SS96210POVO	10	3890
7.5 HP	9 - 14	SS96210SOAO	SS96210COAO	SS96210POAO	10	3890
7.5 HP	11 - 18	SS96211SOCO	SS96211COCO	SS96211POCO	10	3990
7.5 HP	13 - 22	SS96228SODO	SS96228CODO	SS96228PODO	10	4090

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 3Ø, 415V, 50Hz	Relay Range (A)	Cat. No.		Std. Pkg. (Nos.)	M.R.P. ₹ Per Unit
		Coil Voltage 360V	Coil Voltage 440V		
6 HP	4 - 6.5	SS96255COTO		1	16100
10 HP	6 - 10	SS96255COVO	SS96255POVO	1	16100
12.5 / 15 HP	9 - 14	SS96255COAO	SS96255POAO	1	16100
15 HP	11 - 18	SS96258COCO	SS96258POCO	1	16250
15 HP	13 - 22	SS96260CODO	SS96260PODO	1	16450

## MK1 FASD Starters [HSN Code 8536]

Now with ST100 Timer



Interior View of MK1 FASD

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 440V		
6 HP	4 - 6.5	SS96254COTO	SS96254POTO	1	18800
10 HP	6 - 10	SS96254COVO	SS96254POVO	1	18800
12.5 / 15 HP	9 - 14	SS96254COAO	SS96254POAO	1	18800
15 HP	11 - 18	SS96257COCO	SS96257POCO	1	19050
15 HP	13 - 22	SS96259CODO	SS96259PODO	1	19150

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	1750
	<b>New</b> MK1 spare kit (3 sets of contacts)	CS926880000	50	1450
	Single moving contact	SS910090000	10	180
	Push button unit	SS900040000	1	180
	Arc shield	SS500040000	1	205
	Contact bridge without contact	SS500050000	1	205
	Aux. contact block: 1NO + 1NC	SS901200000	50	490
	Thermal timer without combination coil	SS902240000	1	1095
	MK1 Cover Screw	XS000120000	1000	35

## 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	420
	230 / 250V	SS900450000	10	420
	360V	SS901650000	10	420
	400 / 440V	SS900470000	10	420
Wide Band Coil	360V-W (200V - 400V)	SS909930000	10	420

## MK1 Contactors [HSN Code 8536]



MK1 Contactor

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. ₹ Per Unit
MK1 Contactors	220V	SS95200K000	10	3500
	230 / 250V	SS95200N000	10	3500
	360V	SS95200C000	10	3500
	360V-W (200V - 400V)	SS95200S000	10	3500
	400 / 440V	SS95200P000	10	3500

## 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	910
	Combination coils for 360V	SS904460000	10	910

## MK1 Relays [HSN Code 8536]



MK1 Relay

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. ₹ Per Unit
MK1 Relays	0.6 - 1A	SS9003500KO	10	1520
	1 - 1.6A	SS9003500MO	10	1520
	1.5 - 2.5A	SS9003500PO	10	1520
	2.5 - 4A	SS9003500RO	10	1520
	4 - 6.5A	SS9003500TO	10	1520
	6 - 10A	SS9003500VO	10	1520
	9 - 14A	SS9003500AO	10	1520
	11 - 18A	SS9003600CO	10	1560
	13 - 22A	SS9188800DO	10	1730



# MK2 Starters



## MK2 DOL Starters [HSN Code 8536]



Interior View of MK2 DOL

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 360V	Coil Voltage 400/440V		
7.5 HP	13 - 22	CS90947SODO	CS90947CODO	CS90947PODO	10	5290
7.5 HP	20 - 32	CS90947SOEO	CS90947COEO	CS90947POEO	10	5290

## MK2 SASD Starters [HSN Code 8536]



Interior View of MK2 SASD

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 360V	Coil Voltage 400/440V		
15 HP	13 - 22	CS91582SODO	CS91582CODO	CS91582PODO	1	18250
15 HP	20 - 32	CS91582SOEO	CS91582COEO	CS91582POEO	1	18250

Now with ST100 Timer

## MK2 FASD Starters [HSN Code 8536]



Interior View of MK2 FASD

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 400/440V		
15 HP	13 - 22	CS91583CODO	CS91583PODO	1	21350
15 HP	20 - 32	CS91583COEO	CS91583POEO	1	21350

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	2560
	<b>New</b> MK2 spare kit (3 sets of contacts)	CS926890000	50	2200
	Single moving contact	CS909510000	10	260
	Push button unit	SS900040000	1	180
	Arc shield	CS910130000	1	205
	Contact bridge without contact	CS910140000	1	205

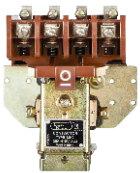
## MK1 / MK2 / MK.i Coil [HSN Code 8538]



MK1 / MK2 / MK.i Standard Operating Coil

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. ₹ Per Unit
MK1 / MK2 / MK.i Standard Operating Coil	220V	SS900440000	10	420
	230 / 250V	SS900450000	10	420
	360V	SS901650000	10	420
	400 / 440V	SS900470000	10	420
Wide Band Coil	360V-W (200V - 400V)	SS909930000	10	420

## MK2 Contactors [HSN Code 8536]



MK2 Contactor

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. ₹ Per Unit
MK2 Contactors	360V	CS90945C000	10	4250
	360V-W (200V - 400V)	CS90945S000	10	4250
	400 / 440V	CS90945P000	10	4250

## MK2 Relays [HSN Code 8536]



MK2 Relay

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. ₹ Per Unit
MK2 Relays	13 - 22A	CS9094600D0	10	2010
	20 - 32A	CS9094600E0	10	2010

# 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]



Interior View of MK1.i

Starter 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 360V	Coil Voltage 400/440V		
MK1.i	4 HP	4-6.5	CS91646SOTO	CS91646COTO	CS91646POTO	10	4970
MK1.i	6 HP	6-10	CS91646SOVO	CS91646COVO	CS91646POVO	10	4970
MK1.i	7.5 HP	9-14	CS91646SOAO	CS91646COAO	CS91646POAO	10	4970
MK1.i	7.5 HP	11-18	CS91646SOCO	CS91646COCO	CS91646POCO	10	5060
MK1.i	7.5 HP	13-22	CS91646SODO	CS91646CODO	CS91646PODO	10	5150
MK2.i	7.5 HP	13-22	CS91647SODO	CS91647CODO	CS91647PODO	10	5930
MK2.i	7.5 HP	20-32	CS91647SOEO	CS91647COEO	CS91647POEO	10	5930

Note : For spare iSz5, please refer page no. 65.

## MK1.i Contactors [HSN Code 8536]

MK1.i Contactors	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. ₹ Per Unit
	360V	CS92199C000	10	3500
	360V-W (200V - 400V)	CS92199S000	10	3500
	400 / 440V	CS92199P000	10	3500

## MK2.i Contactors [HSN Code 8536]

MK2.i Contactors	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. ₹ Per Unit
	360V	CS92200C000	10	4250
	360V-W (200V - 400V)	CS92200S000	10	4250
	400 / 440V	CS92200P000	10	4250

# Operate your pump remotely with **M-POWER++**



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Operate your  
pump through  
Missed Call / IVRS / SMS



Regional languages  
available for  
SMS / IVRS



Compatible with  
single phase &  
three phase  
starters &  
controllers  
(DOL, 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 Pump/Motor 3Ø, 415V, 50Hz	Relay Range (A)	Cat. No.		Std. Pkg. (Nos.)	M.R.P. ₹ Per Unit
			Coil Voltage 360V	Coil Voltage 415V		
MU1 DOL (with MU relay)	7.5 HP	9 - 14	SS95647COAO	SS95647DOAO	10	6800
	10 HP	13 - 21	SS95647COCO	SS95647DOCO	10	7050
	10 HP	15 - 25	SS95647CODO	SS95647DODO	10	7200
MU1H DOL (with MU relay)	10 HP	15 - 25	CS90622CODO	CS90622DODO	10	7850
	12.5 HP	20 - 32	CS90622COEO	CS90622DOEO	10	8300
MU2 DOL (with MU relay)	12.5 HP	13 - 21	SS95648COCO	SS95648DOCO	10	9300
	15 HP	20 - 32	SS95648COEO	SS95648DOEO	10	9900
	15 HP	24 - 38	SS95648COGO	SS95648DOGO	10	10200
MU3 DOL (with MU relay)	15 HP	24 - 38	CS90613COGO	CS90613DOGO	10	11650
	17.5 HP	28 - 42	CS90613COFO	CS90613DOFO	10	12100
MB1 DOL (with MN relay)	7.5 HP	9 - 15	SS95649COBO	SS95649DOBO	8	8900
	10 HP	14 - 23	SS95649CODO	SS95649DODO	8	9100
MB2 DOL (with MN relay)	12.5 HP	14 - 23	SS95650CODO	SS95650DODO	8	12350
	15 HP	20 - 33	SS95650COEO	SS95650DOEO	8	12900

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



Interior View of MU SASD

Starter 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		
MU1 SASD (with MU relay)	12.5 HP	9 - 14	SS95891COAO	SS95891DOAO	1	20150
	15 HP	13 - 21	SS95891COCO	SS95891DOCO	1	20450
MU2 SASD (with MU relay)	20 HP	13 - 21	SS95893COCO	SS95893DOCO	1	26150
	30 HP	20 - 32	SS95893COEO	SS95893DOEO	1	26800
MU3 SASD (With MU Relay)	35 HP	24 - 38	CS91885COGO	CS91885DOGO	1	33750
	35 HP	28 - 42	CS91886COFO	CS91886DOFO	1	34100
MB1 SASD (with MN relay)	15 HP	14 - 23	SS95895CODO	SS95895DODO	1	25550
MB2 SASD (with MN relay)	20 HP	14 - 23	SS95897CODO	SS95897DODO	1	30000
	30 HP	20 - 33	SS95897COEO	SS95897DOEO	1	30800

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



Interior View of  
MU FASD

Starter 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		
MU1 FASD (with MU relay)	12.5 HP	9 - 14	SS95890COAO	SS95890DOAO	1	23550
	15 HP	13 - 21	SS95890COCO	SS95890DOCO	1	23800
MU2 FASD (with MU relay)	20 HP	13 - 21	SS95892COCO	SS95892DOCO	1	29400
	30 HP	20 - 32	SS95892COEO	SS95892DOEO	1	30100
MU3 FASD (With MU Relay)	35 HP	24 - 38	CS91887COGO	CS91887DOGO	1	36850
	35 HP	28 - 42	CS91888COFO	CS91888DOFO	1	37100
MB1 FASD (with MN relay)	12.5 HP	9 - 15	SS95894COBO	SS95894DOBO	1	27450
	15 HP	14 - 23	SS95894CODO	SS95894DODO	1	27750
MB2 FASD (with MN relay)	20 HP	14 - 23	SS95896CODO	SS95896DODO	1	34000
	30 HP	20 - 33	SS95896COEO	SS95896DOEO	1	34650

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



# Spares for MU / MB Starters

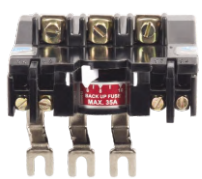
## MU Contactor [HSN Code 8536]



MU1 Contactor

Component	AC3 Rating	AC1 Rating	Type	Cat. No.	Std.Pkg. (Nos.)	M.R.P. ₹ Per Unit
MU1 Contactor	16A	55A	MU1 360V	CS94007C000	10	5650
			MU1 415V	CS94007D000	10	5650
MU1H Contactor	22A	55A	MU1H 360V	CS90623C000	10	6000
			MU1H 415V	CS90623D000	10	6000
MU2 Contactor	25A	63A	MU2 360V	CS94008C000	10	8100
			MU2 415V	CS94008D000	10	8100
MU3 Contactor	32A	63A	MU3 360V	CS90609C000	10	9500
			MU3 415V	CS90609D000	10	9500

## MU Relay [HSN Code 8536]



MU1 Relay



MU2 Relay

Component	Type	Cat. No.	Std.Pkg. (Nos.)	M.R.P. ₹ Per Unit
MU1 Relay	4 - 6.5A	SS9655700TO	1	1860
	6 - 10A	SS9655700VO	1	1860
MU2 Relay	9 - 14A	SS9597900AO	1	2130
	13 - 21A	SS9597900CO	1	2260
	15 - 25A	SS9597900DO	1	2440
	20 - 32A	SS9597900EO	1	2780
	24 - 38A	SS9597900GO	1	3020
	28 - 42A	SS9597900FO	1	3260

## 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	210
MU1H contact bridge	CS910990000	10	210
MU2 contact bridge	CS949940000	10	210
MU3 contact bridge	CS910960000	10	210
MU1 single moving contact	CS949950000	1	380
MU1H single moving contact	CS911020000	1	540
MU2 single moving contact	CS949960000	1	790
MU3 single moving contact	CS911030000	1	1040
MU-Add ON Block - 1NO + 1NC (LHS)	SS940720000	10	510
ADD-ON Block MU-A1 (1NC) (Left)	SS940740000	10	400

## 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 (Including Auxiliary Contact)	MU1	CS940100000	1	2880
	MU1H	CS906240000	1	3550
	MU2	CS940110000	1	5030
	MU3	CS906120000	1	6160
<b>New</b> Spare Kit	MU1	CS926900000	1	2670
	MU1H	CS926910000	1	3300
	MU2	CS926920000	1	4770
	MU3	CS926930000	1	5880
MU Coils	240V	CS94009B000	10	960
	360V	CS94009C000	10	960
	415V	CS94009D000	10	960
Spare Relay Extension Knob (Pack of 20 Nos.)	MU1	CS943360000	1	195
	MU2	CS943370000	1	195
Spare Housing	MU1	CS949980000	10	430
	MU1H	CS910980000	10	430
	MU2	CS949990000	10	430
	MU3	CS910600000	10	430



Timer ST100

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

Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P ₹ Per Unit
Electronic Star-Delta Timer type ST100 160 - 500V, for 3 - 30 sec	ST803280000	1	2470

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



# ML Starters



## ML DOL Starters [HSN Code 8536]



Interior View of ML DOL

Starter 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 440V		
ML1.5 DOL	7.5 HP	9 - 14	SS91854COAO	SS91854POAO	1	14000
	12.5 HP	13 - 21	SS91854COCO	SS91854POCO	1	14000
	15 HP	20 - 32	SS91854COEO	SS91854POEO	1	14000
ML2 DOL (Heavy duty)	7.5 HP	9 - 14		SS90702POAO	1	24200
	10/12.5 HP	13 - 21	SS90702COCO	SS90702POCO	1	24200
	20 HP	20 - 32	SS90702COEO	SS90702POEO	1	24200

## ML SASD Starters [HSN Code 8536]



Interior View of ML SASD

Starter 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 440V		
ML1.5 SASD	20 HP	13 - 21	SS91856COCO	SS91856POCO	1	34800
	25 HP	20 - 32	SS91856COEO	SS91856POEO	1	34800
ML2 SASD (Heavy duty)	20 HP	13 - 21	SS90707COCO	SS90707POCO	1	61600
	35 HP	20 - 32	SS90707COEO	SS90707POEO	1	61600

## ML FASD Starters [HSN Code 8536]



Interior View of ML FASD

Starter 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 440V		
ML1.5 FASD	12.5 HP	9 - 14	SS91855COAO	SS91855POAO	1	40200
	20 HP	13 - 21	SS91855COCO	SS91855POCO	1	40200
	25 HP	20 - 32	SS91855COEO	SS91855POEO	1	40200
ML2 FASD (Heavy duty)	12.5 HP	9 - 14		SS90705POAO	1	65100
	20 HP	13 - 21	SS90705COCO	SS90705POCO	1	65100
	35 HP	20 - 32	SS90705COEO	SS90705POEO	1	65100

# Spares for ML Starters

## ML Contactor [HSN Code 8536]



ML1.5 Contactor



ML2W Contactor



Standard Operating Coil ML1.5



Standard Operating Coil ML2 / MI3



Standard Operating Coil ML4 / ML4W



Spare kit

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	8150
	ML2W	32	40	2 NO + 2 NC	CS96005L000	1	15300
	ML3W	40	45	2 NO + 2 NC	CS90907L000	1	22950
	ML4W	70	100	2 NO + 2 NC	CS96006L000	1	37500
	ML6W	110	125	2 NO + 2 NC	CS90168L000	1	59000

## 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	1535
	360V	SS90873C000	10	1535
	380V	SS90873L000	10	1535
	440V	SS90873P000	10	1535

Standard Operating Coils for ML2/ML2W/ML3/ML3W Contactor	240V	SS90545B000	10	2840
	360V	SS90545C000	10	2840
	380V	SS90545L000	10	2840
	440V	SS90545P000	10	2840

Standard Operating Coils for ML4/ML4W Contactor	240V	SS91258B000	10	5555
	360V	SS91258C000	10	5555
	380V	SS91258L000	10	5555
	440V	SS91258P000	10	5555

## ML1.5 [HSN Code 8538]

Spare kit without coil	ML1.5	SS953050000	50	4290
Moving contacts kit	ML1.5	SS928170000	10	1420
Front Housing & Moving Bridge kit	ML1.5	ST287340000	10	1470

## ML2 [HSN Code 8538]

Spare kit without coil	ML2	SS953070000	10	7845
Moving contacts kit	ML2	SS928180000	10	2220
Front Housing & Moving Bridge kit	ML2	ST238660000	10	2010

## 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) Direct Mounting	<b>ML1</b>			
	4 - 6.5	SS9185800TO	10	<b>5500</b>
	6 - 10	SS9185800VO	10	<b>5500</b>
	10 - 16	SS9185800BO	10	<b>5500</b>
(Directly Operated) Direct Mounting	<b>ML2 / ML3</b>			
	9 - 14	SS9185900AO	2	<b>8140</b>
	13 - 21	SS9185900CO	2	<b>8140</b>
	20 - 32	SS9185900EO	2	<b>8140</b>
	28 - 42	SS9185900FO	2	<b>8140</b>



# 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	8050
15	11	14 - 23	MN 25 DOL	SS94352	1	12290
20	15	20 - 33	MN 32 DOL	SS94353	1	19800
30	22.5	30 - 50	MN 45 DOL	SS94017	1	33800
45	33.5	45 - 75	MN 65 DOL	SS94018	1	46400
30	22.5	28 - 42	ML 3 DOL	SS90722	1	43700

## 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	27100
30	22.5	14 - 23	MN 25 FASD	SS94364	1	30300
40	30	20 - 33	MN 32 FASD	SS94366	1	49800
50	37.5	30 - 50	MN 45 FASD	SS94021	1	79900
75	55	45 - 75	MN 65 FASD	SS94022	1	132600
90	67.5	45 - 75	MN 80 FASD	SS94705	1	144800
150	110	66 - 110	MN 110 FASD	SS94706	1	189700
180	132	90 - 150	MN 140 FASD	SS94707	1	207200
50	37.5	28 - 42	ML3 FASD	SS90730	1	105300
75	55	45 - 75	ML4 FASD	SS90913	1	180300
125	90	66 - 110	ML6 FASD	SS90923	1	295900

## 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	260
MN DOL/FASD Push Button	SS939410000	10	450

## 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	2470

**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



- » With timer operations
- » Easy three wire connection



### EASE OF OPERATION

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

**SMARTCOMM** App



### 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



### COMPLETE PROTECTION

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

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### SMARTCOMM

Technology at your fingertips

# 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 Pump/Motor 3Ø, 415V, 50Hz	Relay Range (A)	Cat. No.		Std.Pkg. (Nos.)	M.R.P. ₹ Per Unit
			Coil Voltage 360V	Coil Voltage 415V		
MU-1A DOL (with Sz5 SPPR)	3 HP	4 - 6.5	CS90898COTO	CS90898DOTO	1	9900
	5 HP	6 - 10	CS90898COVO	CS90898DOVO	1	9900
	7.5 HP	9 - 14	CS90898COAO	CS90898DOAO	1	10100
	10 HP	13 - 21	CS90898COCO	CS90898DOCOCO	1	10300
	10 HP	15 - 25	CS90898CODO	CS90898DODO	1	10450
MU-1HA DOL (with Sz5 SPPR)	10 HP	15 - 25	CS90899CODO	CS90899DODO	1	11000
	12.5 HP	20 - 32	CS90899COEO	CS90899DOEO	1	11350
MU-2A DOL (with Sz5 SPPR)	12.5 HP	13 - 21	CS90900COCO		1	12850
	15 HP	20 - 32	CS90900COEO	CS90900DOEO	1	13350
	15 HP	24 - 38	CS90900COGO	CS90900DOGO	1	13550
MU-3A DOL (with Sz5 SPPR)	15 HP	24 - 38	CS90901COGO	CS90901DOGO	1	14100
	17.5 HP	28 - 42	CS90901COFO	CS90901DOFO	1	14450



# 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]

Suitable Region	IVRS Languages	Starter 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-1M	3 HP	4-6.5	CS92215COTO	CS92215DOTO	1	25200
			5 HP	6-10	CS92215COVO	CS92215DOVO	1	25200
			7.5 HP	9-14	CS92215COAO	CS92215DOAO	1	25200
			10 HP	13-21	CS92215COCO	CS92215DOCOC	1	25200
			10 HP	15-25	CS92215CODO	CS92215DODO	1	25200
		MU-1HM	12.5 HP	15-25	CS92216CODO	CS92216DODO	1	25450
			12.5 HP	20-32	CS92216COEO	CS92216DOEO	1	25450
		MU-2M	12.5 HP	13-21	CS92217COCO		1	26950
			15 HP	20-32	CS92217COEO	CS92217DOEO	1	26950
			15 HP	24-38	CS92217COGO	CS92217DOGO	1	26950
		MU-3M	17.5 HP	24-38	CS92218COGO	CS92218DOGO	1	28400
			20 HP	28-42	CS92218COFO	CS92218DOFO	1	28400

Note: North & West and East Region CAT Nos. are upcoming

## Upcoming

## MU-AS Starter [HSN Code 8536]

Starter Type	Suitable for Pump/Motor 3Ø, 415V, 50Hz	Relay Range (A)	Cat. No.		Std. Pkg. (Nos.)
			Coil Voltage 360V	Coil Voltage 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



Interior View of MF1 DOL - 3Ø Starter

## MF1 Three Phase Starters [HSN Code 8536]

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	4200
0.25 HP	0.6 - 1	SS9721000KO	1	4200
0.5 HP	1 - 1.6	SS9721000MO	1	4200
1.25 HP	1.5 - 2.5	SS9721000PO	1	4200
2 HP	2.5 - 4	SS9721000RO	1	4200
4 HP	4 - 6.5	SS9721000TO	1	4200
6 HP	6 - 10	SS9721000VO	1	4200
7.5 HP	9 - 15	SS9721000BO	1	4200
7.5 HP	11 - 18	SS9721000CO	1	4200

**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



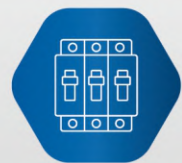
25A to 100A,  
3P, 415 VAC



Breaking Capacity:  
Icu-10kA (Ics=100%Icu)



Thermal Magnetic  
Release



No Load-Line  
Bias



ON-TRIP-OFF  
Indication



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



## MD Starter+ DOL

With *i*-ADSM-Current Sensing-Based Protection  
With *i*-VDSM-Voltage Sensing-Based Protection

## Features



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



Dry Run  
Protection



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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	13300
MD1-iU	7.5 HP	i-ADSM	9-14	CS91753COAO	CS91753DOAO	1	13300
MD1-iU	10 HP	i-ADSM	13-21	CS91753COCO	CS91753DOCO	1	13400
MD1-iU	10 HP	i-ADSM	15-25	CS91753CODO	CS91753DODO	1	13550
MD1H-iU	12.5 HP	i-ADSM	13-21	CS91754COCO	CS91754DOCO	1	13650
MD1H-iU	12.5 HP	i-ADSM	15-25	CS91754CODO	CS91754DODO	1	13850
MD1H-iU	12.5 HP	i-ADSM	20-32	CS91754COEO	CS91754DOEO	1	14050
MD2-iU	12.5 HP	i-ADSM	13-21	CS91755COCO	CS91755DOCO	1	15000
MD2-iU	12.5 HP	i-ADSM	15-25	CS91755CODO	CS91755DODO	1	15100
MD2-iU	15 HP	i-ADSM	20-32	CS91755COEO	CS91755DOEO	1	15300
MD2-iU	15 HP	i-ADSM	24-38	CS91755COGO	CS91755DOGO	1	15400
MD3-iU	17.5 HP	i-ADSM	20-32	CS91756COEO	CS91756DOEO	1	16000
MD3-iU	17.5 HP	i-ADSM	24-38	CS91756COGO	CS91756DOGO	1	16100
MD3-iU	20 HP	i-ADSM	28-42	CS91756COFO	CS91756DOFO	1	16200
MD1-iU	7.5 HP	i-VDSM	9-14	CS91757COAO	CS91757DOAO	1	13300
MD1-iU	10 HP	i-VDSM	13-21	CS91757COCO	CS91757DOCO	1	13400
MD1-iU	10 HP	i-VDSM	15-25	CS91757CODO	CS91757DODO	1	13550
MD1H-iU	12.5 HP	i-VDSM	13-21	CS91758COCO	CS91758DOCO	1	13650
MD1H-iU	12.5 HP	i-VDSM	15-25	CS91758CODO	CS91758DODO	1	13850
MD1H-iU	12.5 HP	i-VDSM	20-32	CS91758COEO	CS91758DOEO	1	14050
MD2-iU	12.5 HP	i-VDSM	13-21	CS91759COCO	CS91759DOCO	1	15000
MD2-iU	12.5 HP	i-VDSM	15-25	CS91759CODO	CS91759DODO	1	15100
MD2-iU	15 HP	i-VDSM	20-32	CS91759COEO	CS91759DOEO	1	15300
MD2-iU	15 HP	i-VDSM	24-38	CS91759COGO	CS91759DOGO	1	15400
MD3-iU	17.5 HP	i-VDSM	20-32	CS91760COEO	CS91760DOEO	1	16000
MD3-iU	17.5 HP	i-VDSM	24-38	CS91760COGO	CS91760DOGO	1	16100
MD3-iU	20 HP	i-VDSM	28-42	CS91760COFO	CS91760DOFO	1	16200



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	26650
MD1-iU	15 HP	i-ADSM	9-14	CS91778COAO	CS91778DOAO	1	26650
MD1-iU	20 HP	i-ADSM	13-21	CS91778COCO	CS91778DOCO	1	26900
MD1H-iU	25 HP	i-ADSM	15-25	CS91779COEO	CS91779DOEO	1	28150
MD2-iU	20 HP	i-ADSM	13-21	CS91780COCO	CS91780DOCO	1	32800
MD2-iU	25 HP	i-ADSM	15-25	CS91780CODO	CS91780DODO	1	33100
MD2-iU	30 HP	i-ADSM	20-32	CS91780COEO	CS91780DOEO	1	33500
MD2-iU	30 HP	i-ADSM	28-42	CS91780COFO	CS91780DOFO	1	34250
MD3-iU	30 HP	i-ADSM	20-32	CS91781COEO	CS91781DOEO	1	38900
MD3-iU	30 HP	i-ADSM	24-38	CS91781COGO	CS91781DOGO	1	39350
MD3-iU	30 HP	i-ADSM	28-42	CS91781COFO	CS91781DOFO	1	39600
MD1-iU	15 HP	i-VDSM	9-14	CS91768COAO	CS91768DOAO	1	26650
MD1-iU	20 HP	i-VDSM	13-21	CS91768COCO	CS91768DOCO	1	26900
MD1H-iU	25 HP	i-VDSM	15-25	CS91782COEO	CS91782DOEO	1	28150
MD2-iU	20 HP	i-VDSM	13-21	CS91783COCO	CS91783DOCO	1	32800
MD2-iU	25 HP	i-VDSM	15-25	CS91783CODO	CS91783DODO	1	33100
MD2-iU	30 HP	i-VDSM	20-32	CS91783COEO	CS91783DOEO	1	33500
MD2-iU	30 HP	i-VDSM	28-42	CS91783COFO	CS91783DOFO	1	34250
MD3-iU	30 HP	i-VDSM	20-32	CS91784COEO	CS91784DOEO	1	38900
MD3-iU	30 HP	i-VDSM	24-38	CS91784COGO	CS91784DOGO	1	39350
MD3-iU	30 HP	i-VDSM	28-42	CS91784COFO	CS91784DOFO	1	39600





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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	11800
	5 HP	6 - 10	360V-W (200V-400V)	SS97756COVO	1	11800
	6 HP	9 - 14	360V-W (200V-400V)	SS97756COAO	1	11800

## 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	12550
	7.5	5.5	20 - 32	360V-W (200V - 400V)	CS92103SOEO	1	12550

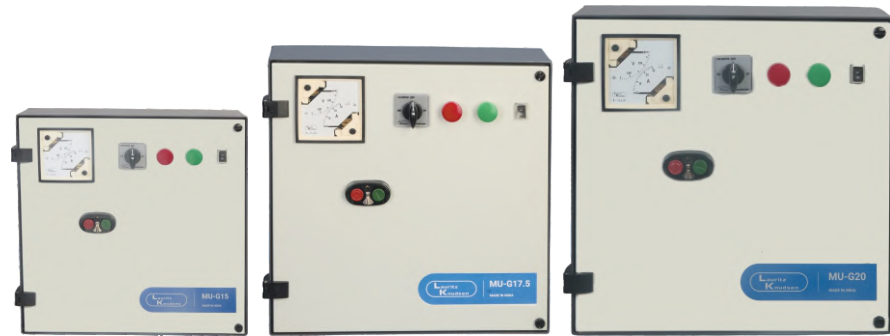
## MU-G10 DOL (With Wideband Coil) [HSN Code 8536]



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	13750
	5	3.7	6 - 10	SS95983COVO	SS95983DOVO	1	13750
	6	4.5	9 - 14	SS95983COAO	SS95983DOAO	1	13900
	7.5/10	5.5/7.5	13 - 21	SS95983COCO	SS95983DOCOCO	1	14200
MU-G10HN DOL	10	7.5	15 - 25	CS92102CODO	CS92102DODO	1	14400
	10	7.5	20 - 32	CS92102COEO	CS92102DOEO	1	14650
MU-G10H DOL (Heavy duty)	10	7.5	20 - 32	SS95974COEO	SS95974DOEO	1	16650
	10	7.5	28 - 42	SS95974COFO	SS95974DOFO	1	17050

# 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. Coil Voltage 360V-W (200V - 400V)	Std.Pkg. (Nos.)	M.R.P. ₹ Per Unit
	HP	KW				
MU-G15 FASD	7.5	5.5	6 - 10	CS94091SOVO	1	22850
	10	7.5	9 - 14	CS94091SOAO	1	22850
	15	11	11 - 18	CS94091SOCO	1	23100
	15	11	13 - 22	CS94091SODO	1	23200

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



Interior View of MU-G17.5 FASD

Type	Suitable for Pump/Motor 3Ø, 415V, 50Hz	Relay Range (A)	Cat. No. Coil Voltage 360V-W (200V - 400V)	Std.Pkg. (Nos.)	M.R.P. ₹ Per Unit
	HP				
MU-G17.5 FASD	17.5	13 - 22	CS91880SODO	1	25350
	17.5	20 - 32	CS91880SOEO	1	25350

## 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	27000
	15/20	11/15	13 - 21	SS95984COCO	SS95984DOCO	1	27200
MU-G20HN FASD	20	15	15 - 25	CS92101CODO	CS92101DODO	1	28650
	20	15	20 - 32	CS92101COEO	CS92101DOEO	1	29050
MU-G20H FASD (Heavy duty)	20	15	20 - 32	SS95975COEO	SS95975DOEO	1	36400
	20	15	28 - 42	SS95975COFO	SS95975DOFO	1	37150

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



Interior View of  
MU-G25 FASD

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	44500
	25	28 - 42	CS91969COFO	CS91969DOFO	1	44900



# 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	55350
	30 HP	30 - 50	380V	CS96008COGO	1	56650

## 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	66000
	40 HP	36 - 60	380V	CS90908LOTO	1	67000

## 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	88950
	50 HP	45 - 75	380V	CS96009COJO	1	91650

## 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	125000
	75 HP	66 - 110	380V	CS96451LOKO	1	125000

# MU-G10W / 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	21400
	5	3.7	6 - 10	CS91037COVO	CS91037DOVO	1	21400
	7.5	5.5	9 - 14	CS91037COAO	CS91037DOAO	1	21400
MU-G10W DOL (Heavy duty) with in-built WLC	10	7.5	13 - 21	CS91037COCO	CS91037DOCO	1	21400
	10	7.5	20 - 32		CS91037DOEO	1	24150
	10	7.5	28 - 42	CS91037COFO		1	24150

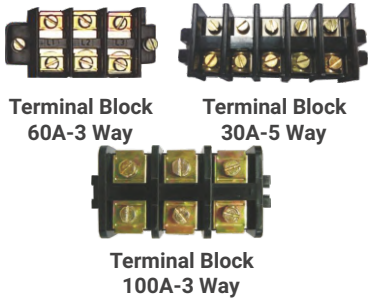
## MU-G20W FASD (With Wideband Coil) [HSN Code 8536]

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	36550
	20	15	13 - 21	CS91038COCO	CS91038DOCO	1	36550
MU-G20W FASD (Heavy duty) with in-built WLC	20	15	20 - 32	CS91038COEO	CS91038DOEO	1	43700
	20	15	28 - 42		CS91038DOFO	1	43700

## 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	67200

# 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)	CS960320000	1	320
Terminal Block 30A - 3 way (For MU-G6)	XM807500000	1	280
Terminal Block 60A - 3 way (For MU-G10/20)	CS948060000	1	290
Terminal Block 100A - 3 way (For MU-G30/50)	CS943380000	1	1520
Terminal Block 125A - 3 way (For MU-G75)	CS901720000	1	5530



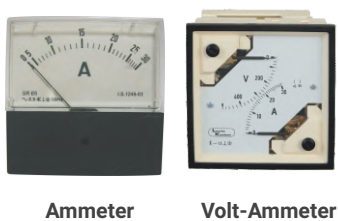
## Indicating lamp [HSN Code 8531]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P ₹ Per Unit
Indicating lamp Red 415V	CS94810D000	1	390
Indicating lamp Green 415V	CS94812D000	1	390
Spare Lamp, MR-G Controller	CS961260000	1	120

## Rocker switch [HSN Code 8538]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P ₹ Per Unit
Rocker switch (For MU-G6 to MU-G20)	CS902840000	1	120
Rocker switch (For MU-G30 to MU-G75)	CS902720000	1	195
Voltage selector switch	CS943350000	1	565

## Volt-Ammeter [HSN Code 9030]



Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P ₹ Per Unit
Volt-Ammeter 500V, 30A (Screw Type)	CS94817EOEO	1	1930
Volt-Ammeter 500V, 30A (Nut-Bolt Type)	CS92180EOEO	1	1980
Volt-Ammeter 500V, 60A	CS94817EOTO	1	2000
Volt-Ammeter 500V, 0-75A	CS900550000	1	2000
Volt-Ammeter 500V, 0-100A	CS900560000	1	2000
Volt-Ammeter 500V, 0-125A	CS900570000	1	2000
30A Ammeter Spare for MR-G Controller	CS960260000	1	860
Volt-Ammeter (30A, 300V AC) for MR-G Controller	CS960280000	1	1470

## 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	1170
SPPR type Sz5 (6 Wire), 360V (For MU-G10/10H)	CS94824C000	1	1170
SPPR type Sz5 (6 Wire), 380V (For MU-G6)	CS94824L000	1	1170
SPPR type Sz5 (6 Wire), 415V (For MU-G10/10H)	CS94824D000	1	1170
SPPR type SDz5, 360V (For MU-G20/20H)	XM818080000	1	2230
SPPR type SDz5, 380V (For MU-G30/40/50/75)	XM818070000	1	2230
SPPR type SDz5, 415V (For MU-G15/20/20H)	XM818090000	1	2230
SPPR type Sz5 (6 long wire), 360V (FOR MU-G10/10H)	CS94855C000	1	1300
SPPR type Sz5 (6 long wire), 415V (FOR MU-G10/10H)	CS94855D000	1	1300
<b>New</b> SPPR type iSz5 (5 wire), 380V (FOR MK1.i/MK2.i - 360V-W Coil)	CS92197L000	1	1230
<b>New</b> SPPR type iSz5 (5 wire), 415V (FOR MK1.i/MK2.i - 400/440V Coil)	CS92197P000	1	1230
<b>New</b> SPPR type iSz5 (5 wire), 360V (FOR MK1.i/MK2.i - 360V Coil)	CS92197C000	1	1230

## 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	170
Spare plug MU-10 (Bulk of 10)	ST155920000	1	185
Spare plug MU-15 (Bulk of 10)	ST155930000	1	200
Spare plug MU-20 (Bulk of 10)	ST155940000	1	205
Spare plug MU-30 (Bulk of 10)	ST155950000	1	210
Spare plug MU-50 (Bulk of 10)	ST155960000	1	215
Spare plug MU-75 (Bulk of 10)	ST155970000	1	215
Red & Green, Relay Extension Button Kit (For MN 2/5 Relay)	SS949680000	100	95

# 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) Direct Mounting	<b>MN 2</b>			
	6 - 10	SS9414200VO	10	<b>2420</b>
	9 - 15	SS9414200BO	10	<b>2520</b>
	14 - 23	SS9414400DO	10	<b>2670</b>
	20 - 33	SS9414500EO	10	<b>4030</b>

(Directly Operated) Direct Mounting	<b>MN 5</b>			
	20 - 33	SS9413600EO	10	<b>4980</b>
	30 - 50	SS9413600GO	10	<b>6240</b>
	36 - 60	SS9413600TO	10	<b>6700</b>
	45 - 75	SS9413700JO	10	<b>7270</b>
	66 - 110	SS9413700KO	10	<b>8280</b>

## ML Spares [HSN Code 8538]

Type	Cat. No.	Std.Pkg. (Nos.)	M.R.P ₹ Per Unit
Spare Kit ML3	SS953090000	10	<b>13860</b>
Spare Kit ML4	SS953110000	10	<b>20545</b>
Spare Kit ML6	SS953130000	10	<b>38010</b>
Front Housing & Bridge Assembly Kit ML3	ST238660000	1	<b>2010</b>
Front Housing & Bridge Assembly Kit ML4/6	ST287350000	1	<b>3640</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

## 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	27300
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G6S	6 HP	4 - 22	CS91206CND0	CS91206PNDO	1	27300
East	English, Hindi, Odia, Assamese, Bengali	MU-G6S	6 HP	4 - 22	CS91206CEDO	CS91206PEDO	1	27300

## 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	28850
		MU-G10HS	10 HP	20 - 42	CS91207CSFO	CS91207DSFO	1	30500
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G10S	10 HP	4 - 22	CS91205CND0	CS91205DNDO	1	28850
		MU-G10HS	10 HP	20 - 42	CS91207CNFO	CS91207DNFO	1	30500
East	English, Hindi, Odia, Assamese, Bengali	MU-G10S	10 HP	4 - 22	CS91205CEDO	CS91205DEDO	1	28850
		MU-G10HS	10 HP	20 - 42	CS91207CEFO	CS91207DEFO	1	30500

# 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	37700
South	English, Hindi, Kannada, Telugu, Tamil	MU-G15S	15 HP	4 - 22	CS91529CSD0	CS91529PSD0	1	37700
East	English, Hindi, Assamese, Odia, Bengali	MU-G15S	15 HP	4 - 22	CS91529CED0	CS91529PED0	1	37700

## 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	41650
South	English, Hindi, Kannada, Telugu, Tamil	MU-G15HS	15 HP	13 - 32	CS91530CSE0	CS91530PSE0	1	41650
East	English, Hindi, Assamese, Odia, Bengali	MU-G15HS	15 HP	13 - 32	CS91530CEE0	CS91530PEE0	1	41650

## 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	43000
South	English, Hindi, Kannada, Telugu, Tamil	MU-G20S	20 HP	4 - 22	CS91531CSD0	CS91531DSD0	1	43000
East	English, Hindi, Assamese, Odia, Bengali	MU-G20S	20 HP	4 - 22	CS91531CED0	CS91531DED0	1	43000
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G20S	20 HP	13 - 32	CS91531CNE0	CS91531DNE0	1	47400
South	English, Hindi, Kannada, Telugu, Tamil	MU-G20S	20 HP	13 - 32	CS91531CSE0	CS91531DSE0	1	47400
East	English, Hindi, Assamese, Odia, Bengali	MU-G20S	20 HP	13 - 32	CS91531CEE0	CS91531DEE0	1	47400

## 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	56850
South	English, Hindi, Kannada, Telugu, Tamil	MU-G20HS	20 HP	13 - 42	CS91532CSFO	CS91532DSFO	1	56850
East	English, Hindi, Assamese, Odia, Bengali	MU-G20HS	20 HP	13 - 42	CS91532CEFO	CS91532DEFO	1	56850

## 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	60800
South	English, Hindi, Kannada, Telugu, Tamil	MU-G25S	25 HP	24 - 42	CS91533CSFO	CS91533DSFO	1	60800
East	English, Hindi, Assamese, Odia, Bengali	MU-G25S	25 HP	24 - 42	CS91533CEFO	CS91533DEFO	1	60800



# 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	78000
South	English, Hindi, Kannada, Telugu, Tamil	MU-G30S	30 HP	20 - 50	CS91651LSGO	1	78000
East	English, Hindi, Assamese, Odia, Bengali	MU-G30S	30 HP	20 - 50	CS91651LEGO	1	78000

## 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	89000
South	English, Hindi, Kannada, Telugu, Tamil	MU-G40S	40 HP	30 - 60	CS91652LSTO	1	89000
East	English, Hindi, Assamese, Odia, Bengali	MU-G40S	40 HP	30 - 60	CS91652LETO	1	89000

## 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	128000
South	English, Hindi, Kannada, Telugu, Tamil	MU-G50S	50 HP	30 - 75	CS91653LSJO	1	128000
East	English, Hindi, Assamese, Odia, Bengali	MU-G50S	50 HP	30 - 75	CS91653LEJO	1	128000

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

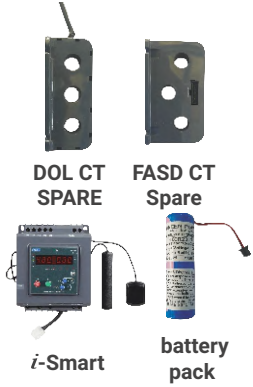


Interior View of  
MU-G75S

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	162000
South	English, Hindi, Kannada, Telugu, Tamil	MU-G75S	75 HP	45 - 90	CS91654LSKO	1	162000
East	English, Hindi, Assamese, Odia, Bengali	MU-G75S	75 HP	45 - 90	CS91654LEKO	1	162000

# 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	23990
<i>i</i> -Smart for FASD without WLC (upto 25HP)	CS914140*00	1	29430
<i>i</i> -Smart for FASD without WLC (30-75HP)	CS914150*00	1	35330
Spare CT Assembly DOL (And FASD Upto 25 HP)	CS910950000	1	3730
Spare CT Assembly FASD (30-75 HP)	CS916480000	1	4900
Spare Battery Pack	CS914170000	1	2730

**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.



# MU-G SOLAR



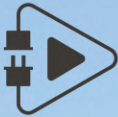
Integrated Solution



True & Auto-Adaptable  
MPPT



Automatic Start & Stop



Plug-and-play  
controller for easy  
installation and  
operation



In-built MCB for  
short circuit protection



Built in RS-485



Range: 3HP to 10HP



Available in both Solar & Solar-Grid Version

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# Single Phase Starters

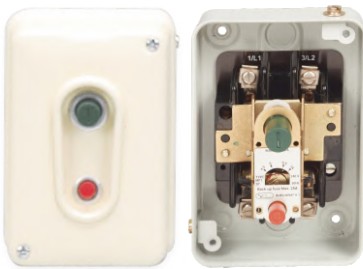
## MU-2P Single Phase Starters [HSN Code 8536]



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	3340
0.25 HP	1.5 - 2.5	CS90319KOPO	1	3340
0.5 HP	2.5 - 4	CS90319KORO	1	3340
0.75 HP	4 - 6.5	CS90319KOTO	1	3340
1 HP	6 - 10	CS90319KOVO	1	3340
2 HP	9 - 14	CS90319KOA0	1	3340
2 HP	11 - 18	CS90319KOCO	1	3340
3 HP	13 - 22	CS90319KODO	1	3400

## 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	SS9722700T0	1	3150
1.25 HP	6.5 - 11	SS9722700V0	1	3150
2 HP	10.5 - 17.5	SS9722700B0	1	3150
3 HP	12 - 20	SS9722700C0	1	3150

**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	5450
MF-G1 with Ammeter Only	0.5 HP	6.5 - 11	SS9773400VC	1 x 25	5050
MF-G1 with Ammeter and Voltmeter	1 HP	6.5 - 11	SS9773000VE SS9773000VG	1 x 36 1 x 50	5700
MF-G1 with Ammeter Only	1 HP	6.5 - 11	SS9773600VE SS9773600VG	1 x 36 1 x 50	5250
MF-G1 with Ammeter and Voltmeter	1 HP	12 - 20	SS9773000CE SS9773000CG	1 x 36 1 x 50	5700
MF-G1 with Ammeter Only	1 HP	12 - 20	SS9773600CE SS9773600CG	1 x 36 1 x 50	5250
MF-G1 with Ammeter and Voltmeter	1.5 HP	6.5 - 11	SS9773100VG SS9773100VF	1 x 50 2 x 36	5900
MF-G1 with Ammeter Only	1.5 HP	6.5 - 11	SS9773700VF	2 x 36	5450
MF-G1 with Ammeter and Voltmeter	1.5 HP	12 - 20	SS9773100CG SS9773100CF	1 x 50 2 x 36	5900
MF-G1 with Ammeter Only	1.5 HP	12 - 20	SS9773700CG SS9773700CF	1 x 50 2 x 36	5450
MF-G1 with Ammeter and Voltmeter	2 HP	12 - 20	SS9773200CG SS9773200CF	1 x 50 2 x 36	6000
MF-G1 with Ammeter Only	2 HP	12 - 20	SS9773800CG SS9773800CF SS9773800CH	1 x 50 2 x 36 2 x 50	5500

**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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# 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	-	6300
		SS97720BAVC	6 - 10	80 / 100	1 x 25			
		SS97720BAVE	6 - 10	80 / 100	1 x 36			
		SS96988BATC	4 - 6.5	80 / 100	1 x 25	-	Yes	
		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	-	6850
		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			
		SS97721BCAG	9 - 14	120 / 150	1 x 50	-	Yes	
		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	-	7350
		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	7100			
		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	-	7750			
		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						
		SS96990BDCF	11 - 18	150 / 200	2 x 36				-	Yes	7400
		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	-	8550			
		CS96468BEBH	16 - 26	200 / 250	2 x 50	-	Yes	8100			
		SS97725BEDH	13 - 22	200 / 250	2 x 50						
CS96461BEBH		16 - 26	200 / 250	2 x 50							
MR-G3	5 HP	CS90490BEEJ	20 - 32	200 / 250	3 x 50				Yes	-	12200

# 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	Price on Request
	CS91040BAVE	6 - 10	80 / 100	1 x 36	
1HP	CS91041BBVE	6 - 10	100 / 120	1 x 36	Price on Request
	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	
1.5HP	CS91042BCAG	9 - 14	120 / 150	1 x 50	Price on Request
	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	Price on Request
	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	Price on Request

## 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	1730
Water Level Controller (415V)(Double Tank application)	XM810530000	1	1730
Water Level Controller (240V) (Single Tank application)	XM810550000	1	1660
Water Level Controller (415V) (Single Tank application)	XM810560000	1	1660
WLC probes (set of 3 nos.)	XM810510000	1	600
WLC probes (set of 6 nos.)	XM810760000	1	1180

# Spares for MR-G Submersible Pump Controllers



MR-G Plug ON



MR-G Plug OFF



MR G Spare ADD ON Block

## MR-G Spares [HSN Code 8538]

Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P ₹ Per Unit
MR 11W, Spare Coil, 240V, 50Hz	CS94102B000*	10	1165
MR-G2 Plug ON & OFF (Bulk of 10 ON & 10 OFF Plugs)	CS916960000	1	350
SPARE ADD ON BLOCK, MR-G2	CS964360000	1	330

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



MU-2P 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	1600
	25A	MU25-2P (160-220V)	CS90118N000	10	1950
	40A	MU40-2P (160-220V)	CS90119N000	10	2500



MU-2P Relay

## 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	1130
	1.5 - 2.5A	CS9020700PO	1	1130
	2.5 - 4A	CS9020700RO	1	1130
	4 - 6.5A	CS9020700TO	1	1130
	6 - 10A	CS9020700VO	1	1130
	9 - 14A	CS9020700AO	1	1130
	11 - 18A	CS9020700CO	1	1260
	13 - 22A	CS9020700DO	1	1260
	16 - 26A	CS9020700BO	1	1260
	20 - 32A	CS9020700EO	1	1580

## 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	540
	MU25-2P	CS902180000	1	715
	MU40-2P	CS902190000	1	1020
MU-2P Spare Coil & Top Add-on	MU-2P Coil (220V)	CS90793N000	1	620
	MU-2P Coil (300V)	CS90793R000	1	620
	MI-A2 Top ADD-ON (1 NO)	CS906950000	1	335

## 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	1550
Wiring Harness, MU-G10 (Flexible Type)	CS961300000	1	2200
Wiring Harness, MU-G10H (Flexible Type)	CS961340000	1	2850
Wiring Harness, MU-G15 (Flexible Type)	CS905670000	1	3240
Wiring Harness, MU-G20 (SDz5 SPPR) (Flexible Type)	CS961290000	1	4810
Wiring Harness, MU-G20H (SDz5 SPPR) (Flexible Type)	CS961350000	1	5130
Wiring Harness, MU-G30 (Flexible Type)	CS961280000	1	6300
Wiring Harness, MU-G50 (Flexible Type)	CS961270000	1	8950
Wiring Harness, MU-G75 (Flexible Type)	CS901710000	1	12860
Wiring Harness 2.5 sq. mm, MR-G2 (Flexible Type, For upto 11 - 18A Relay)	CS961330000	1	1800



# 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	5200
		CS91321NAOE	80 / 100	1 x 36	
	1 HP	CS91322NBOE	100 / 120	1 x 36	5500
		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	5800
		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	6000
		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	6250

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

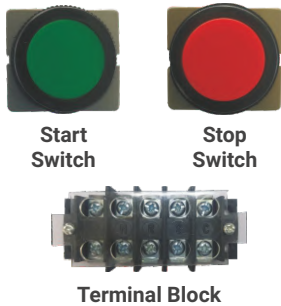
Type	Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz	Cat. No.	Start Capacitor 275V, 50Hz	Run Capacitor 440V, 50Hz MFD	M.R.P ₹ Per Unit
MR-GiB (Auto)	0.5 HP	CS91718NAOC	80 / 100	1 x 25	6600
		CS91718NAOE	80 / 100	1 x 36	
	1 HP	CS91719NBOE	100 / 120	1 x 36	6800
		CS91719NBOG	100 / 120	1 x 50	
		CS91719NCOE	120 / 150	1 x 36	
		CS91719NCOG	120 / 150	1 x 50	
	1.5 HP	CS91720NCOG	120 / 150	1 x 50	7050
		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	7300
		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	7550



## 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	7250
		CS91331NAOE	80 / 100	1 x 36	
	1 HP	CS91332NBOE	100 / 120	1 x 36	7500
		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	7750
		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	8000
		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	8250

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



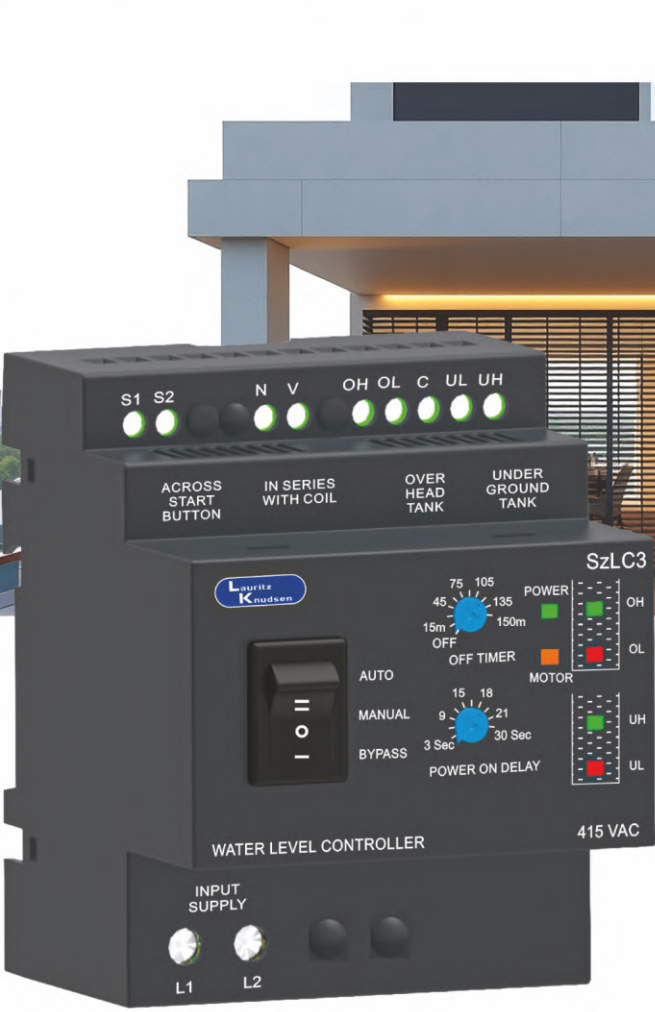
Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P ₹ Per Unit
Spare start switch (Manual Version)	CS913630000	1	330
Spare stop switch (Manual Version)	CS913640000	1	260
Mounting kit accessory	CS913650000	1	200
Spare 5 way terminal block	CS913660000	1	250
Spare 2 way terminal block	CS913670000	1	170
Spare Digital Module Manual	CS920250000	1	4680
Spare Digital Module Auto	CS920260000	1	5780



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

Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P ₹ Per Unit
Spare WLC Module	CS913680000	1	1560

# SIMPLIFYING WATER CONTROL CHALLENGES



## SzLC WLC 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 & SzLC1



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E-mail: cic@LK-EA.com



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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  
Smart 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	CS913130000	1	9900
South	English, Hindi, Kannada, Telugu, Tamil		CS91313MOSO	CS91313LOSO	CS913130OSO	1	9900
East	English, Hindi, Odia, Assamese, Bengali		CS91313MOEO	CS91313LOEO	CS9131300EO	1	9900

**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	CS921450ONO	1	7200
	English, Hindi, Kannada, Telugu, Tamil	South	CS921450OSO	1	7200
	English, Hindi, Bengali, Odiya, Assamese	East	CS921450OEO	1	7200

## 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	GSM03010ONO	1	5990
	English, Hindi, Kannada, Telugu, Tamil	South	GSM03010OSO	1	5990
	English, Hindi, Bengali, Odiya, Assamese	East	GSM03010OEO	1	5990



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

Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P. ₹ Per Unit
Wire Type Antenna [8538]	GSM0301A000	1	650
Controller-side Wire Harness [8544]	GSM0301C000	1	280
Module-side Wire Harness [8544]	GSM0301G000	1	400



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	2490
Auto WLC, SzLC1 : For Single Phase (STARTER+CAP) Double Tank	XM810620000	1	3070
Auto WLC, SzLC : For Single Phase Single Tank	XM810660000	1	2450
Auto WLC, SzLC1 : For Single Phase (STARTER+CAP) Single Tank	XM810670000	1	2970
Auto WLC, SzLC3 : For Three Phase Double Tank	XM810650000	1	4030
Auto WLC, SzLC3 : For Three Phase Single Tank	XM810680000	1	3930



# 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	1970
SASDz5, AUTO SWITCH SPPR FOR 3 BUTTON SASD STARTER	XM818110000	1	1970

## 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	1860

# 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>i</i> -ADSM	✓	✓	✓	✓*	✓*	✓*	✓	✓	✗	✓*	✓*	✓*
<i>i</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>i</i> -ADSM	Single phasing preventer & dry run protection relay + VI meter (current based)	CS90863C000	CS90863D000	1	4500
<i>i</i> -VDSM	Single phasing preventer & dry run protection relay + VI meter (voltage based)	CS90875C000	CS90875D000	1	4500

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]

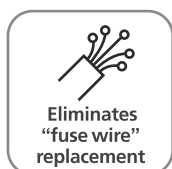
Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P. ₹ Per Unit
Wire Harness, <i>i</i> -ADSM, <i>i</i> -VDSM	CS916350000	1	570



# 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
16-26	32	09-14		16	
MR-G3	20-32	32	MU-G10H	13-21	25
				20-32	32
			MU-G20	28-42	50
				09-14	40
			MU-G20H	13-21	50
				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	1140
	LK20160K	16	2	6	1140
	LK20200K	20	2	6	1140
	LK20250K	25	2	6	1140
	LK20320K	32	2	6	1140



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	1820
	LK30160K	16	3	4	1820
	LK30200K	20	3	4	1820
	LK30250K	25	3	4	1820
	LK30320K	32	3	4	1820
	LK30400K	40	3	4	2800
	LK30500K	50	3	4	2800
	LK30630K	63	3	4	2800
	LK31000K	100	4.5	1	12500
	LK31250K	125	4.5	1	13880

# 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, 50 Hz/60 Hz DC : 10kA@ 250V DC (3P in series)	EM909830ODO	MCCB DY125U 25A 3P 10KA FTFM	3100
		32		EM909830OEO	MCCB DY125U 32A 3P 10KA FTFM	3100
		40		EM909830OFO	MCCB DY125U 40A 3P 10KA FTFM	3100
		50		EM909830OGO	MCCB DY125U 50A 3P 10KA FTFM	3100
		63		EM909830OHO	MCCB DY125U 63A 3P 10KA FTFM	3010
		80		EM908130OJO	MCCB DY125U 80A 3P 10KA FTFM	3010
		100		EM908130OKO	MCCB DY125U 100A 3P 10KA FTFM W/O SPRD	3010



# 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	270
2 kVAr	440V	LTBCA302B2	1	515
3 kVAr	440V	LTBCA303B2	1	775
4 kVAr	440V	LTBCA304B2	1	1040
5 kVAr	440V	LTBCA305B2	1	1300
6 kVAr	440V	LTBCA306B2	1	1560
7.5 kVAr	440V	LTBCA307B2	1	1955
8.33 kVAr	440V	LTBCA308B2	1	2165
10 kVAr	440V	LTBCA310B2	1	2605
12.5 kVAr	440V	LTBCA312B2	1	3245
15 kVAr	440V	LTBCA315B2	1	3895
20 kVAr	440V	LTBCA320B2	1	5195
25 kVAr	440V	LTBCA325B2	1	6490
30 kVAr	440V	LTBCA330B2	1	7775

## Cylindrical Capacitors [HSN Code 8532]

Rating	Voltage	Cat. No.	Std.Pkg. (Nos.)	M.R.P. ₹ Per Unit
1 kVAr	440V	LTCCA301B2	1	220
2 kVAr	440V	LTCCA302B2	1	435
3 kVAr	440V	LTCCA303B2	1	645
4 kVAr	440V	LTCCA304B2	1	865
5 kVAr	440V	LTCCA305B2	1	1080
6 kVAr	440V	LTCCA306B2	1	1300
7.5 kVAr	440V	LTCCA307B2	1	1625
8.33 kVAr	440V	LTCCA308B2	1	1805
10 kVAr	440V	LTCCA310B2	1	2165
12.5 kVAr	440V	LTCCA312B2	1	2695
15 kVAr	440V	LTCCA315B2	1	3235
20 kVAr	440V	LTCCA320B2	1	4325
25 kVAr	440V	LTCCA325B2	1	5385
30 kVAr	440V	LTCCA330B2	1	6470

## Cylindrical Capacitors with Clamps [HSN Code 8532]

Rating	Voltage	Cat. No.	Std.Pkg. (Nos.)	M.R.P. ₹ Per Unit
1 kVAr	440V	LTCCC301B2	1	250
2 kVAr	440V	LTCCC302B2	1	465
3 kVAr	440V	LTCCC303B2	1	680
4 kVAr	440V	LTCCC304B2	1	905
5 kVAr	440V	LTCCC305B2	1	1105
6 kVAr	440V	LTCCC306B2	1	1330
7.5 kVAr	440V	LTCCC307B2	1	1665
8.33 kVAr	440V	LTCCC308B2	1	1835
10 kVAr	440V	LTCCC310B2	1	2195
15 kVAr	440V	LTCCC315B2	1	3275
20 kVAr	440V	LTCCC320B2	1	4355
25 kVAr	440V	LTCCC325B2	1	5425
30 kVAr	440V	LTCCC330B2	1	6510

# 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	270
2 kVAr	415V	LTBCA302A2	1	515
3 kVAr	415V	LTBCA303A2	1	775
4 kVAr	415V	LTBCA304A2	1	1040
5 kVAr	415V	LTBCA305A2	1	1300
6 kVAr	415V	LTBCA306A2	1	1560
7.5 kVAr	415V	LTBCA307A2	1	1955
8.33 kVAr	415V	LTBCA308A2	1	2165
10 kVAr	415V	LTBCA310A2	1	2605
12.5 kVAr	415V	LTBCA312A2	1	3245
15 kVAr	415V	LTBCA315A2	1	3895
20 kVAr	415V	LTBCA320A2	1	5195
25 kVAr	415V	LTBCA325A2	1	6490
30 kVAr	415V	LTBCA330A2	1	7775



## Cylindrical Capacitors [HSN Code 8532]

Rating	Voltage	Cat. No.	Std.Pkg. (Nos.)	M.R.P. ₹ Per Unit
1 kVAr	415V	LTCCA301A2	1	220
2 kVAr	415V	LTCCA302A2	1	435
3 kVAr	415V	LTCCA303A2	1	645
4 kVAr	415V	LTCCA304A2	1	865
5 kVAr	415V	LTCCA305A2	1	1080
6 kVAr	415V	LTCCA306A2	1	1300
7.5 kVAr	415V	LTCCA307A2	1	1625
8.33 kVAr	415V	LTCCA308A2	1	1805
10 kVAr	415V	LTCCA310A2	1	2165
12.5 kVAr	415V	LTCCA312A2	1	2695
15 kVAr	415V	LTCCA315A2	1	3235
20 kVAr	415V	LTCCA320A2	1	4325
25 kVAr	415V	LTCCA325A2	1	5385
30 kVAr	415V	LTCCA330A2	1	6470



# 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	90
	12.5	440V	LTCCMRW125B2	21	105
	15	440V	LTCCMRW015B2	21	135
	20	440V	LTCCMRW020B2	21	160
	25	440V	LTCCMRW025B2	12	170
	30	440V	LTCCMRW030B2	12	180
	36	440V	LTCCMRW036B2	12	190
	40	440V	LTCCMRW040B2	12	245
	45	440V	LTCCMRW045B2	12	275
	50	440V	LTCCMRW050B2	12	285
Start	72	440V	LTCCMRW072B2	12	370
	80 - 100	275V	LTCCMSW100P2	12	275
	100 - 120	275V	LTCCMSW120P2	12	315
	120 - 150	275V	LTCCMSW150P2	12	375
	150 - 200	275V	LTCCMSW200P2	12	430
	200 - 250	275V	LTCCMSW250P2	12	475

## 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	200
	36	440V	LTCCMR036B2	12	220
	50	440V	LTCCMR050B2	12	350
Start	80 - 100	275V	LTCCMS100P2	12	315
	100 - 120	275V	LTCCMS120P2	12	380
	120 - 150	275V	LTCCMS150P2	12	440
	150 - 200	275V	LTCCMS200P2	12	505
	200 - 250	275V	LTCCMS250P2	12	560



# 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

# Electrical Standard Products (ESP) Offices

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Product improvement is a continuous process. For the latest information and special application, please contact any of our offices listed here. Product photographs shown for representative purpose only.



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