





Good quality products and customer service, continuous improvement in processes, systems and capabilities are the hallmark of leaders in business.

The Electrical Standard Products (ESP) business and New Product Development (NPD) function of L&T Electrical & Automation (E&A) have been awarded the Deming Prize 2019, by JUSE (Union of Japanese Scientists and Engineers), Japan.

The Deming Prize is one of the highest awards on Total Quality Management (TQM) in the globe. It is presented to an organization that has implemented TQM suitable for its management philosophy, scope/type/scale of business and management environment.

The TQM activities of ESP were evaluated for establishment of customer oriented objectives and strategies & top management leadership, suitable utilisation and implementation of TQM, effects obtained regarding business objectives and demonstration of organizational capabilities.

E&A's ESP is the first low voltage switchgear manufacturer in India that has received this recognition.



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L&T Electrical & Automation

Agri Controllers

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**CONTROLLERS**  
304 PRODUCTS

Product images: Two white electrical controller units with digital displays and buttons.

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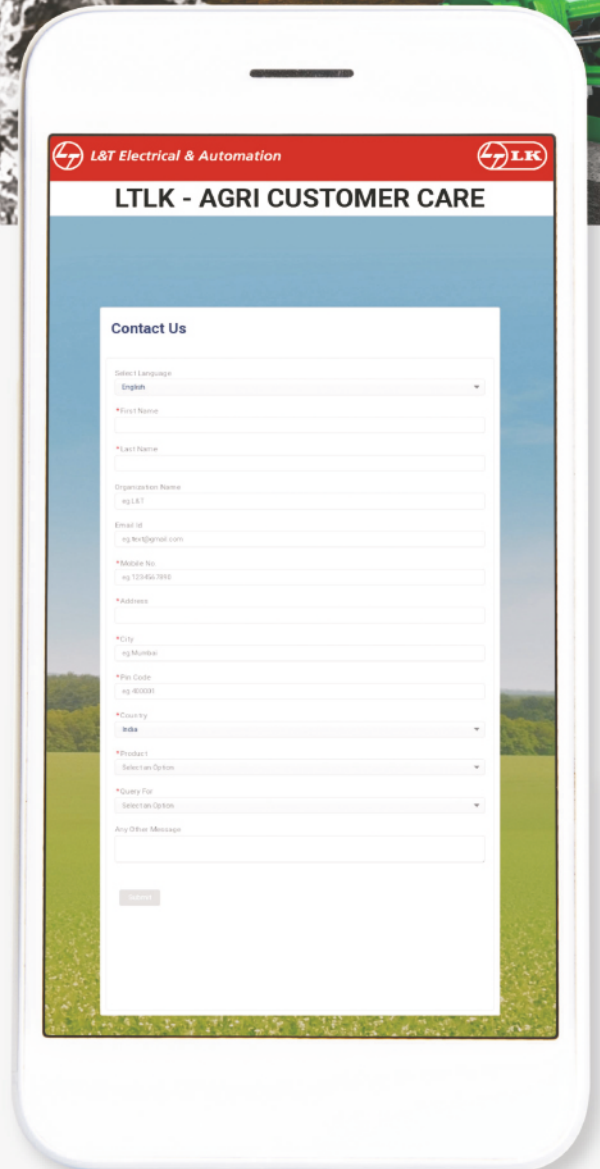
LTLK-AGRI CUSTOMER CARE

**STEP 1** SCAN QR CODE

**STEP 2** SELECT LANGUAGE

**STEP 3** SUBMIT DETAILS

Easily submit your service complaints, demo requests, product information, and other queries.



# LTLK Connect App

Connect Anywhere, Anytime...



**Menu** (hamburger icon)

**Device type / Name** (WheatF arm)

**Signal strength of unit** (signal bars)

**Power** (power icon)

**Pump status, Run time** (11:56, Pump Runtime: 3 min)

**Mode** (Manual)

**Press here to clear current faults** (Healthy status)

**Error Status / Supply Health** (Healthy status)

**Press here to Call the pump / unit** (Phone icon)

**Press here to access settings** (Gear icon)

**Press here to switch ON / OFF the pump** (PumpOFF, PumpON buttons)

**Press here to update dashboard** (Refresh icon)

**Dashboard** (Settings screen)

**Click to change individual settings** (Protection screen)

**Click to update settings** (Protection screen)

**Click to customize individual facilities** (Facilities screen)

**Click to update change** (Facilities screen)

One App for SMART Controller, Solar Controller and M-POWER Pro



Convenience of technology at your finger tips for remote operation

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# When It Comes To Her Future, Never Lose Sight Of What's Important!



LTLK Solar Inverter MS-RE Series

From switching on life's important moments to empowering dreams, the **MS-RE Solar Inverter range from E&A** is your partner in ensuring life never stops. Designed for locations having unreliable or limited access to electricity, it delivers continuous and reliable power from solar and grid based on availability so **you never lose sight of what's important to you**



Fast Charging



Smart Battery Management



Intelligent Modes For Solar Prioritization



Saving On Grid Electricity Usage



Compatible With All Battery Types



Automatic No Load Shutdown



Reliable



Alternative To Diesel



Scan the QR code to MS-RE 1



Scan the QR code to MS-RE 2

# DIGITAL SINGLE PHASE CONTROLLER



**Manual version**



**Auto version**

The power of flexibility and versatility

## FEATURES

- 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

- 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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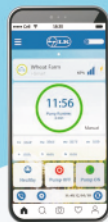
# SMART CONTROLLER DOL & FASD

All-in-One Controller

HP Ratings  
DOL - 6 to 10 HP  
FASD - 15 to 75 HP



Explore the futuristic technology at your fingertips with LTLK Connect App



- ★ Theft protection
- ★ Complete protection
- ★ Remote operation

The SMART Controller is a digital controller with the benefits of short circuit protection (with in-built MCB/MCCB) and the ability to monitor and control pump remotely with a mobile phone

AGRI CUSTOMER CARE

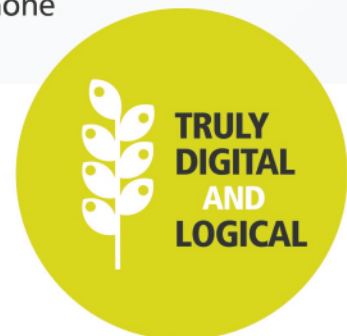


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# INDEX

## Starter

Offerings & Compositions .....	1
MK 1 Starters .....	6
MK 2 Starters .....	8
MU / MB Starters .....	9
ML Starters .....	11
Single Phase / Three Phase Starters .....	13
MU-Automatic DOL Starter .....	14

## Controller

MF-G1 Single Phase Controller .....	14
<b>Digital</b> SMART Controller DOL & FASD (6-75HP) .....	18
MU-G6 / 7.5 / 10 Three Phase Controllers .....	21
MU-G15 / 17.5 / 20 / 25 Three Phase Controllers .....	22
MU-G30 / 40 / 50 / 75 Three Phase Controllers .....	23
MU-G 10W / 20W / 30W Three Phase Controllers .....	24
<b>Digital</b> MR-Gi Digital Single Phase Controllers - Manual & Auto .....	26
MR-G2 / MR-G3 Single Phase Controller .....	28
MR-G2W Single Phase Controller .....	30

<b>NEW</b> Solar Inverter .....	33
---------------------------------	----

## Accessories & Cable

<b>Digital</b> i-PROTECTOR .....	34
LTLK MCB with K-curve .....	35
<b>Digital</b> M-POWER Pro .....	36
<b>Digital</b> M-POWER+ .....	36
Power Factor Correction Capacitors .....	37
MFD Capacitors for Single phase application .....	40
Submersible Flat Cable .....	41



### \*Remote Operation

All starters and Controllers can be **remotely operated** through **M-POWER Pro** and **M-POWER+**

Note:

**[Green colour : HSN code]** Current GST 18%, subject to changes as per Govt. notification  
**[Orange colour : HSN code]** Current GST 12%, subject to changes as per Govt. notification

# Starters and Controllers Offerings & Composition

## Offerings

HP Rating (Based On Relay Range And Maximum HP Rating)	3 Phase DOL (Direct On-Line)														
	Starters											Automatic Starter with SPPR			
	MK1	MK2	MF1	MU1	MU1H	MB1	MU2	MB2	MU3	ML1.5	ML2	MU-1A	MU-1HA	MU-2A	MU-3A
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)									
	Controller					Controller with WLC	SMART Controller			
	MU-G6	MU-G7.5	MU-G10	MU-G10HN	MU-G10H	MU-G10W	MU-G6S	MU-G10S	MU-G10HS	
0.125										
0.25 - 2										
3 - 6	✓		✓			✓	✓			
7.5		✓	✓			✓		✓		
10			✓	✓	✓	✓		✓	✓	
12.5										
15										
17.5										
20										

HP Rating (Based On Relay Range And Maximum HP Rating)	3 Phase FASD (Fully Automatic Star-Delta)									
	Starters									
	MK1	MK2	MU1	MB1	ML1.5	MU2	MB2	ML2	MU3	
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)											
	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										✓		

HP Rating (Based On Relay Range And Maximum HP Rating)	3 Phase FASD (Fully Automatic Star-Delta)									
	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

Relay Range (A) Starter Type		Relays used														
		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
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								
MB2											MN2					
ML1.5											MN2					
ML2							ML2/3			ML2/3			ML2/3			
MU-1A				MU1	MU1	MU2						MU2				
MU-1HA												MU2				
MU-2A										MU2					MU2	
MU-3A															MU2	MU2
Starter Type		Contactors used														
		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
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								
MB2											MU1					
ML1.5											MU2					
ML2							ML1.5			ML1.5			ML1.5			
MU-1A				MU1	MU1	MU1						MU1				
MU-1HA												MU1H	MU1H			
MU-2A										MU2			MU2		MU2	
MU-3A															MU3	MU3

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

Relay Range (A) Starter Type		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		MK1	MK1	MK1		MK1		MK1					
MK2								MK2			MN2		
MU1				MU2				MU2					
MU2								MU2			MU2		
MU3												MU2	MU2
MB1						MN2				MN2			
MB2									MN2				
ML1.5				ML2/3				ML2/3			ML2/3		
ML2				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				
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

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
Starter Type	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			
	Relay Range (A)		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
Starter Type	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			

Note: Timer used inside MK1 FASD is MK1 Timer with combination coil and in rest all of FASD starters, it is ST100 Timer.

## Composition For Three Phase Controllers

Relay Range (A)		Relays used														
		4-6.5	6-10	9-14	11-18	13-21	13-22	15-25	20-32	20-33	24-38	28-42	30-50	36-60	45-75	66-110
Controller Type	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									
	MU-G20			MU2		MU2										
	MU-G20HN							MU2	MU2							
	MU-G20H								MU2			MU2				
	MU-G25										MU2	MU2				
	MU-G30									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 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

# 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	1	2595
0.5 HP	1 - 1.6		SS96210COMO	SS96210POMO	1	2595
1 HP	1.5 - 2.5		SS96210COPO	SS96210POPO	1	2595
2 HP	2.5 - 4		SS96210CORO	SS96210PORO	1	2595
4 HP	4 - 6.5	SS96210SOTO	SS96210COTO	SS96210POTO	1	2595
6 HP	6 - 10	SS96210SOVO	SS96210COVO	SS96210POVO	1	2595
7.5 HP	9 - 14	SS96210SOAO	SS96210COAO	SS96210POAO	1	2595
7.5 HP	11 - 18	SS96211SOCO	SS96211COCO	SS96211POCO	1	2662
7.5 HP	13 - 22	SS96228SODO	SS96228CODO	SS96228PODO	1	2730

Note: For Single Phase Starter application, please refer page no. 13

## 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	9375
10 HP	6 - 10	SS96255COVO	SS96255POVO	1	9375
12.5 / 15 HP	9 - 14	SS96255COAO	SS96255POAO	1	9375
15 HP	11 - 18	SS96258COCO	SS96258POCO	1	9455
15 HP	13 - 22	SS96260CODO	SS96260PODO	1	9570

## MK1 FASD Starters [HSN Code 8536]



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	10345
10 HP	6 - 10	SS96254COVO	SS96254POVO	1	10345
12.5 / 15 HP	9 - 14	SS96254COAO	SS96254POAO	1	10345
15 HP	11 - 18	SS96257COCO	SS96257POCO	1	10445
15 HP	13 - 22	SS96259CODO	SS96259PODO	1	10505

# Spares for MK1 Starters



**MK1 Spares**

## MK1 Spares [HSN Code 8538]

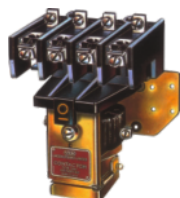
	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK1 Spares	Spare kit with hardware (4 sets of contacts)	CS909830000	50	755
	Single moving contact	SS910090000	10	75
	Push button unit	SS900040000	1	130
	Arc shield	SS500040000	1	155
	Contact bridge without contact	SS500050000	1	140
	Aux. contact block: 1NO + 1NC	SS901200000	50	320
	Thermal timer without combination coil	SS902240000	1	850
	MK1 Cover Screw	XS000120000	1000	15



**MK1 Standard Operating Coil**

## MK1 Coil [HSN Code 8538]

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK1 Standard Operating Coil	220V	SS900440000	10	270
	230 / 250V	SS900450000	10	270
	360V	SS901650000	10	270
	400 / 440V	SS900470000	10	270
Wide Band Coil	360V-W (200V - 400V)	SS909930000	10	300



**MK1 Contactor**

## MK1 Contactors [HSN Code 8536]

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK1 Contactors	220V	SS95200K000	10	1875
	230 / 250V	SS95200N000	10	1875
	360V	SS95200C000	10	1875
	360V-W (200V - 400V)	SS95200S000	10	1875
	400 / 440V	SS95200P000	10	1875



**MK1 Combination Coil**

## MK1 Combination Coil [HSN Code 8538]

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK1 Combination Coil	Combination coils for 400 / 440V	SS904430000	10	625
	Combination coils for 360V	SS904460000	10	625



**MK1 Relay**

## MK1 Relays [HSN Code 8536]

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK1 Relays	0.6 - 1A	SS9003500KO	10	1070
	1 - 1.6A	SS9003500MO	10	1070
	1.5 - 2.5A	SS9003500PO	10	1070
	2.5 - 4A	SS9003500RO	10	1070
	4 - 6.5A	SS9003500TO	10	1070
	6 - 10A	SS9003500VO	10	1070
	9 - 14A	SS9003500AO	10	1070
	11 - 18A	SS9003600CO	10	1100
13 - 22A	SS9188800DO	10	1215	



# 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	1	3075
7.5 HP	20 - 32	CS90947SOEO	CS90947COEO	CS90947POEO	1	3075

## 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	10405
15 HP	20-32	CS91582SOEO	CS91582COEO	CS91582POEO	1	10405

## 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	11510
15 HP	20-32	CS91583COEO	CS91583POEO	1	11510

## 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)	CS90956O000	50	1065
	Single moving contact	CS90951O000	10	100
	Push button unit	SS90004O000	1	130
	Arc shield	CS91013O000	1	160
	Contact bridge without contact	CS91014O000	1	145

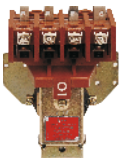
## MK1 / MK2 Coil [HSN Code 8538]



MK1 / MK2 Standard Operating Coil

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK1 / MK2 Standard Operating Coil	220V	SS90044O000	10	270
	230 / 250V	SS90045O000	10	270
	360V	SS90165O000	10	270
	400 / 440V	SS90047O000	10	270
Wide Band Coil	360V-W (200V - 400V)	SS90993O000	10	300

## MK2 Contactors [HSN Code 8536]



MK2 Contactor

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK2 Contactors	360V	CS90945COOO	10	2070
	360V-W (200V - 400V)	CS90945SOOO	10	2070
	400 / 440V	CS90945POOO	10	2070

## MK2 Relays [HSN Code 8536]



MK2 Relay

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK2 Relays	13 - 22A	CS90946OODO	10	1345
	20 - 32A	CS90946OOEO	10	1345

# 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	4350
	10 HP	13 - 21	SS95647COCO	SS95647DOCO	10	4510
	10 HP	15 - 25	SS95647CODO	SS95647DODO	10	4600
MU1H DOL (with MU relay)	10 HP	15 - 25	CS90622CODO	CS90622DODO	10	4820
	12.5 HP	20 - 32	CS90622COEO	CS90622DOEO	10	5070
MU2 DOL (with MU relay)	12.5 HP	13 - 21	SS95648COCO	SS95648DOCO	10	5650
	15 HP	20 - 32	SS95648COEO	SS95648DOEO	10	6040
	15 HP	24 - 38	SS95648COGO	SS95648DOGO	10	6190
MU3 DOL (with MU relay)	15 HP	24 - 38	CS90613COGO	CS90613DOGO	10	6870
	17.5 HP	28 - 42	CS90613COFO	CS90613DOFO	10	7130
MB1 DOL (with MN relay)	7.5 HP	9 - 15	SS95649COBO	SS95649DOBO	8	4965
	10 HP	14 - 23	SS95649CODO	SS95649DODO	8	5070
MB2 DOL (with MN relay)	12.5 HP	14 - 23	SS95650CODO	SS95650DODO	8	6780
	15 HP	20 - 33	SS95650COEO	SS95650DOEO	8	7090

## 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	12115
	15 HP	13 - 21	SS95891COCO	SS95891DOCO	1	12285
MU2 SASD (with MU relay)	20 HP	13 - 21	SS95893COCO	SS95893DOCO	1	15330
	30 HP	20 - 32	SS95893COEO	SS95893DOEO	1	15700
MU3 SASD (With MU Relay)	35 HP	24 - 38	CS91885COGO	CS91885DOGO	1	18900
	35 HP	28 - 42	CS91886COFO	CS91886DOFO	1	19075
MB1 SASD (with MN relay)	15 HP	14 - 23	SS95895CODO	SS95895DODO	1	14600
MB2 SASD (with MN relay)	20 HP	14 - 23	SS95897CODO	SS95897DODO	1	17165
	30 HP	20 - 33	SS95897COEO	SS95897DOEO	1	17575

## 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	13985
	15 HP	13 - 21	SS95890COCO	SS95890DOCO	1	14130
MU2 FASD (with MU relay)	20 HP	13 - 21	SS95892COCO	SS95892DOCO	1	16935
	30 HP	20 - 32	SS95892COEO	SS95892DOEO	1	17300
MU3 FASD (With MU Relay)	35 HP	24 - 38	CS91887COGO	CS91887DOGO	1	20685
	35 HP	28 - 42	CS91888COFO	CS91888DOFO	1	20865
MB1 FASD (with MN relay)	12.5 HP	9 - 15	SS95894COBO	SS95894DOBO	1	15470
	15 HP	14 - 23	SS95894CODO	SS95894DODO	1	15625
MB2 FASD (with MN relay)	20 HP	14 - 23	SS95896CODO	SS95896DODO	1	19165
	30 HP	20 - 33	SS95896COEO	SS95896DOEO	1	19530

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

# Spares for MU / MB Starters



MU1 Contactor



MU1H Contactor



MU2 Contactor



MU3 Contactor

## MU Contactor [HSN Code 8536]

Component	AC3 Rating	AC1 Rating	Type	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MU1 Contactor	16A	55A	MU1 360V	CS94007C000	10	2750
			MU1 415V	CS94007D000	10	2750
MU1H Contactor	20A	55A	MU1H 360V	CS90623C000	10	2955
			MU1H 415V	CS90623D000	10	2955
MU2 Contactor	25A	63A	MU2 360V	CS94008C000	10	3920
			MU2 415V	CS94008D000	10	3920
MU3 Contactor	32A	63A	MU3 360V	CS90609C000	10	4685
			MU3 415V	CS90609D000	10	4685



MU1 Relay



MU2 Relay

## MU Relay [HSN Code 8536]

Component	Type	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MU1 Relay	4 - 6.5A	SS96557OOTO	1	1370
	6 - 10A	SS96557OOVO	1	1370
MU2 Relay	9 - 14A	SS95979OOAO	1	1565
	13 - 21A	SS95979OOCO	1	1655
	15 - 25A	SS95979OODO	1	1800
	20 - 32A	SS95979OOEO	1	2050
	24 - 38A	SS95979OOGO	1	2225
	28 - 42A	SS95979OOFO	1	2415



MU Contact Bridge

## MU Contactor Spares [HSN Code 8538]

Type	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MU1 contact bridge	CS94994O000	10	165
MU1H contact bridge	CS91099O000	10	165
MU2 contact bridge	CS94994O000	10	165
MU3 contact bridge	CS91096O000	10	165
MU1 single moving contact	CS94995O000	1	165
MU1H single moving contact	CS91102O000	1	235
MU2 single moving contact	CS94996O000	1	320
MU3 single moving contact	CS91103O000	1	430
MU-Add ON Block - 1NO + 1NC (LHS)	SS94072O000	10	305



MU Spare Kit



MU Coil

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

Component	Type	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Spare Kit	MU1	CS94010O000	1	1120
	MU1H	CS90624O000	1	1460
	MU2	CS94011O000	1	2080
	MU3	CS90612O000	1	2550
MU Coils	240V	CS94009B000	10	660
	360V	CS94009C000	10	660
	415V	CS94009D000	10	660
Spare Relay Extension Knob (Pack of 20 Nos.)	MU1	CS94336O000	1	145
	MU2	CS94337O000	1	145
Spare Housing	MU1	CS94998O000	10	340
	MU1H	CS91098O000	10	340
	MU2	CS94999O000	10	340
	MU3	CS91060O000	10	340



MU Spare Housing

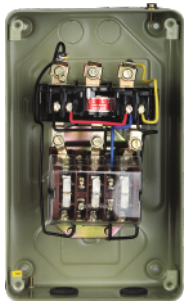


Relay Extension Knob

# 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	8285
	12.5 HP	13 - 21	SS91854COCO	SS91854POCO	1	8285
	15 HP	20 - 32	SS91854COEO	SS91854POEO	1	8285
ML2 DOL (Heavy duty)	7.5 HP	9 - 14		SS90702POAO	1	14275
	10/12.5 HP	13 - 21	SS90702COCO	SS90702POCO	1	14275
	20 HP	20 - 32	SS90702COEO	SS90702POEO	1	14275



Interior View of ML SASD

## ML SASD Starters [HSN Code 8536]

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	20305
	25 HP	20 - 32	SS91856COEO	SS91856POEO	1	20305
ML2 SASD (Heavy duty)	20 HP	13 - 21	SS90707COCO	SS90707POCO	1	35850
	35 HP	20 - 32	SS90707COEO	SS90707POEO	1	35850



Interior View of ML FASD

## ML FASD Starters [HSN Code 8536]

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	23000
	20 HP	13 - 21	SS91855COCO	SS91855POCO	1	23000
	25 HP	20 - 32	SS91855COEO	SS91855POEO	1	23000
ML2 FASD (Heavy duty)	12.5 HP	9 - 14		SS90705POAO	1	37215
	20 HP	13 - 21	SS90705COCO	SS90705POCO	1	37215
	35 HP	20 - 32	SS90705COEO	SS90705POEO	1	37215

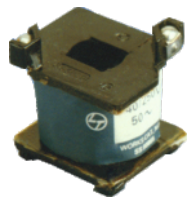
# Spares For ML Starters



**ML1.5 Contactor**

## ML Contactor [HSN Code 8536]

Component	Type	AC3 Rating (A)	AC1 Rating (A)	Aux. Contacts	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
ML Contactor	ML1.5	25	25	2 NO + 2 NC	SS91851C000	1	4280
	ML2W	32	40	2 NO + 2 NC	CS96005L000	1	8305
	ML3W	40	45	2 NO + 2 NC	CS90907L000	1	12475
	ML4W	70	100	2 NO + 2 NC	CS96006L000	1	20420
	ML6W	110	125	2 NO + 2 NC	CS90168L000	1	32845



**Standard Operating Coil ML1.5**

## 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	880
	360V	SS90873C000	10	880
	380V	SS90873L000	10	880
	440V	SS90873P000	10	880
Standard Operating Coils for ML2/ML2W/ML3/ML3W Contactor	240V	SS90545B000	10	1620
	360V	SS90545C000	10	1620
	380V	SS90545L000	10	1620
	440V	SS90545P000	10	1620
Standard Operating Coils for ML4/ML4W Contactor	240V	SS91258B000	10	3095
	360V	SS91258C000	10	3095
	380V	SS91258L000	10	3095
	440V	SS91258P000	10	3095



**Standard Operating Coil ML2 / ML3**

## ML1.5 [HSN Code 8538]

Spare kit without coil	ML1.5	SS95305O000	50	2205
Moving contacts kit	ML1.5	SS92817O000	10	725
Front Housing & Moving Bridge kit	ML1.5	ST28734O000	10	800



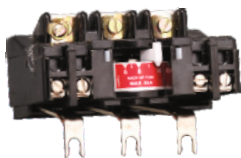
**Spare kit**

## ML2 [HSN Code 8538]

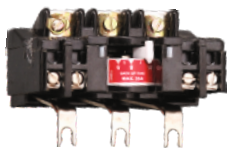
Spare kit without coil	ML2	SS95307O000	10	4040
Moving contacts kit	ML2	SS92818O000	10	1095
Front Housing & Moving Bridge kit	ML2	ST23866O000	10	1095

## ML Relay [HSN Code 8536]

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit	
(Directly Operated)	<b>ML1</b>				
	4 - 6.5	SS91858OOTO	10	2960	
	6 - 10	SS91858OOVO	10	2960	
Direct Mounting	10 - 16	SS91858OOBO	10	2960	
	<b>ML2 / ML3</b>				
	9 - 14	SS91859OOAO	2	4370	
(Directly Operated)	13 - 21	SS91859OOCO	2	4370	
	Direct Mounting	20 - 32	SS91859OOEO	2	4370
		28 - 42	SS91859OOF0	2	4370



**ML1 Relay**



**ML2 / ML3 Relay**

# Single Phase / Three Phase Starters



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



Interior View of 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	CS90319KOMO	1	2350
0.25 HP	1.5 - 2.5	CS90319KOPO	1	2350
0.5 HP	2.5 - 4	CS90319KORO	1	2350
0.75 HP	4 - 6.5	CS90319KOTO	1	2350
1 HP	6 - 10	CS90319KOVO	1	2350
2 HP	9 - 14	CS90319KOAD	1	2350
2 HP	11 - 18	CS90319KOCO	1	2365
3 HP	13 - 22	CS90319KODO	1	2395



Interior View of MF1 DOL - 1Ø Starter

## MF1 Single Phase Starters [HSN Code 8536]

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	SS97227OOTO	1	1650
1.25 HP	6.5 - 11	SS97227OOVO	1	1650
2 HP	10.5 - 17.5	SS97227OOBO	1	1650
3 HP	12 - 20	SS97227OOCO	1	1650



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	SS972100OHO	1	2175
0.25 HP	0.6 - 1	SS972100OKO	1	2175
0.5 HP	1 - 1.6	SS972100OMO	1	2175
1.25 HP	1.5 - 2.5	SS972100OPO	1	2175
2 HP	2.5 - 4	SS972100ORO	1	2175
4 HP	4 - 6.5	SS972100OTO	1	2175
6 HP	6 - 10	SS972100OVO	1	2175
7.5 HP	9 - 15	SS972100OBO	1	2175
7.5 HP	11 - 18	SS972100OCO	1	2175

# 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	6225
	5 HP	6 - 10	CS90898COVO	CS90898DOVO	1	6225
	7.5 HP	9 - 14	CS90898COAO	CS90898DOAO	1	6335
	10 HP	13 - 21	CS90898COCO	CS90898DOCOCO	1	6445
MU-1HA DOL (with Sz5 SPPR)	10 HP	15 - 25	CS90898CODO	CS90898DODO	1	6575
	12.5 HP	20 - 32	CS90899COEO	CS90899DOEO	1	6730
	12.5 HP	13 - 21	CS90900COCO		1	7630
MU-2A DOL (with Sz5 SPPR)	15 HP	20 - 32	CS90900COEO	CS90900DOEO	1	7940
	15 HP	24 - 38	CS90900COGO	CS90900DOGO	1	8070
MU-3A DOL (with Sz5 SPPR)	15 HP	24 - 38	CS90901COGO	CS90901DOGO	1	8470
	17.5 HP	28 - 42	CS90901COFO	CS90901DOFO	1	8670

# MF-G1 Single Phase Submersible Pump Controllers

## 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	SS97728OOVE	1 x 36	3660
MF-G1 with Ammeter Only	0.5 HP	6.5 - 11	SS97734OOVC	1 x 25	3365
MF-G1 with Ammeter and Voltmeter	1 HP	6.5 - 11	SS97730OOVE SS97730OOVG	1 x 36 1 x 50	3815
MF-G1 with Ammeter Only	1 HP	6.5 - 11	SS97736OOVE SS97736OOVG	1 x 36 1 x 50	3515
MF-G1 with Ammeter and Voltmeter	1 HP	12 - 20	SS97730 OOCE SS97730OOCG	1 x 36 1 x 50	3815
MF-G1 with Ammeter Only	1 HP	12 - 20	SS97736OOCE SS97736OOCG	1 x 36 1 x 50	3515
MF-G1 with Ammeter and Voltmeter	1.5 HP	6.5 - 11	SS97731OOVG SS97731OOVF	1 x 50 2 x 36	3935
MF-G1 with Ammeter Only	1.5 HP	6.5 - 11	SS97737OOVF	2 x 36	3635
MF-G1 with Ammeter and Voltmeter	1.5 HP	12 - 20	SS97731OOCG SS97731OOCF	1 x 50 2 x 36	3935
MF-G1 with Ammeter Only	1.5 HP	12 - 20	SS97737OOCG SS97737OOCF	1 x 50 2 x 36	3635
MF-G1 with Ammeter and Voltmeter	2 HP	12 - 20	SS97732OOCG SS97732OOCF	1 x 50 2 x 36	4005
MF-G1 with Ammeter Only	2 HP	12 - 20	SS97738OOCG SS97738OOCF SS97738OOCH	1 x 50 2 x 36 2 x 50	3690

With MF1 Starter



# MD Starter +

NEW

## MD Starter+ DOL [HSN CODE 8536]

Starter Type	Suitable for Pump/Motor 3Ø, 415V, 50Hz	i-PROTECTOR	Relay Range (A)	Coil Voltage	Cat no	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MD1-iU	10	i-VDSM	13-21	360V	CS91757COCO	1	8230
MD2-iU	15	i-VDSM	20-32		CS91759COEO	1	9385
MD3-iU	20	i-VDSM	28-42		CS91760COFO	1	9935

NEW

## MD Starter+ FASD [HSN CODE 8536]

Starter Type	Suitable for Pump/Motor 3Ø, 415V, 50Hz	i-PROTECTOR	Relay Range (A)	Coil Voltage	Cat no	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MD1-iU	20	i-VDSM	13-21	360V	CS91768COCO	1	16800
MD2-iU	30	i-VDSM	20-32		CS91783COEO	1	20700
MD3-iU	30	i-VDSM	24-38		CS91784COGO	1	23250
MD2-iU	30	i-VDSM	28-42		CS91783COFO	1	21165
MD3-iU	30	i-VDSM	28-42		CS91784COFO	1	23405

## Upcoming New Products

NEW

## 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.)
				Coil Voltage 360V	Coil Voltage 415V	
MD1-iU	7.5	i-ADSM	9-14	CS91753COAO	CS91753DOAO	1
MD1-iU	10	i-ADSM	13-21	CS91753COCO	CS91753DOCO	1
MD1H-iU	12.5	i-ADSM	13-21	CS91754COCO	CS91754DOCO	1
MD2-iU	12.5	i-ADSM	13-21	CS91755COCO	CS91755DOCO	1
MD1-iU	10	i-ADSM	15-25	CS91753CODO	CS91753DODO	1
MD1H-iU	12.5	i-ADSM	15-25	CS91754CODO	CS91754DODO	1
MD2-iU	12.5	i-ADSM	15-25	CS91755CODO	CS91755DODO	1
MD1H-iU	12.5	i-ADSM	20-32	CS91754COEO	CS91754DOEO	1
MD2-iU	15	i-ADSM	20-32	CS91755COEO	CS91755DOEO	1
MD3-iU	17.5	i-ADSM	20-32	CS91756COEO	CS91756DOEO	1
MD2-iU	15	i-ADSM	24-38	CS91755COGO	CS91755DOGO	1
MD3-iU	17.5	i-ADSM	24-38	CS91756COGO	CS91756DOGO	1
MD3-iU	20	i-ADSM	28-42	CS91756COFO	CS91756DOFO	1
MD1-iU	7.5	i-VDSM	9-14	CS91757COAO	CS91757DOAO	1
MD1-iU	10	i-VDSM	13-21		CS91757DOCO	1
MD1H-iU	12.5	i-VDSM	13-21	CS91758COCO	CS91758DOCO	1
MD2-iU	12.5	i-VDSM	13-21	CS91759COCO	CS91759DOCO	1
MD1-iU	10	i-VDSM	15-25	CS91757CODO	CS91757DODO	1
MD1H-iU	12.5	i-VDSM	15-25	CS91758CODO	CS91758DODO	1
MD2-iU	12.5	i-VDSM	15-25	CS91759CODO	CS91759DODO	1
MD1H-iU	12.5	i-VDSM	20-32	CS91758COEO	CS91758DOEO	1
MD2-iU	15	i-VDSM	20-32		CS91759DOEO	1
MD3-iU	17.5	i-VDSM	20-32	CS91760COEO	CS91760DOEO	1
MD2-iU	15	i-VDSM	24-38	CS91759COGO	CS91759DOGO	1
MD3-iU	17.5	i-VDSM	24-38	CS91760COGO	CS91760DOGO	1
MD3-iU	20	i-VDSM	28-42		CS91760DOFO	1



# Upcoming New Products

NEW

## 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.)
				Coil Voltage 360V	Coil Voltage 415V	
MD1-iU	15	i-ADSM	9-14	CS91778COAO	CS91778DOAO	1
MD1-iU	20	i-ADSM	13-21	CS91778COCO	CS91778DOCO	1
MD1H-iU	25	i-ADSM	15-25	CS91779COEO	CS91779DOEO	1
MD2-iU	25	i-ADSM	15-25	CS91780CODO	CS91780DODO	1
MD2-iU	20	i-ADSM	13-21	CS91780COCO	CS91780DOCO	1
MD2-iU	30	i-ADSM	20-32	CS91780COEO	CS91780DOEO	1
MD2-iU	30	i-ADSM	28-42	CS91780COFO	CS91780DOFO	1
MD3-iU	30	i-ADSM	20-32	CS91781COEO	CS91781DOEO	1
MD3-iU	30	i-ADSM	24-38	CS91781COGO	CS91781DOGO	1
MD3-iU	30	i-ADSM	28-42	CS91781COFO	CS91781DOFO	1
MD1-iU	15	i-VDSM	9-14	CS91768COAO	CS91768DOAO	1
MD1-iU	20	i-VDSM	13-21		CS91768DOCO	1
MD2-iU	20	i-VDSM	13-21	CS91783COCO	CS91783DOCO	1
MD1H-iU	25	i-VDSM	15-25	CS91782COEO	CS91782DOEO	1
MD2-iU	25	i-VDSM	15-25	CS91783CODO	CS91783DODO	1
MD2-iU	30	i-VDSM	20-32		CS91783DOEO	1
MD2-iU	30	i-VDSM	28-42		CS91783DOFO	1
MD3-iU	30	i-VDSM	20-32	CS91784COEO	CS91784DOEO	1
MD3-iU	30	i-VDSM	24-38		CS91784DOGO	1
MD3-iU	30	i-VDSM	28-42		CS91784DOFO	1

NEW

## SPPR [HSN CODE 9032]

Description	Cat. No.	Std. Pkg. (Nos.)
Auto Switch for 2 Button SASD Starter	XM818100000	1
Auto Switch for 3 Button SASD Starter	XM818110000	1

# Px3000

## Solar Drive Controller

Empowering Green Irrigation Solutions



True MPPT



Auto & Adaptable MPPT



Plug & Play Drive



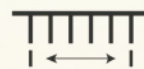
Robust design to handle high input DC voltage up to 850V



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



Automatic Start & Stop



Wide operating range –  
Vmpp Range: 250V~750Vdc  
Voc Range: 300V~ 850Vdc



Built-in RS485



Grid Compatible

[HSN Code 8504]

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



**AGRI CUSTOMER CARE**

Tel: +91-22-67745858

Toll free: 1800 233 5858 /1800 200 5858

# SMART Controller



With in-built short-circuit protection device



LTLK Connect App



Product videos

## 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 (Inbuilt LTLK MCB & MCCB)
- ◆ Voltage and current based protection for all faults with individual protection Enable/Disable feature
- ◆ Inbuilt 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 LTLK Connect Mobile 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

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



SMART Controller DOL 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		
Central	English, Hindi, Kannada, Telugu, Punjabi	MU-G6S	6 HP	4 - 22	CS91206CCDO	CS91206PCDO	1	18675
South	English, Hindi, Kannada, Telugu, Tamil	MU-G6S	6 HP	4 - 22	CS91206CSDO	CS91206PSDO	1	18675
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G6S	6 HP	4 - 22	CS91206CNDO	CS91206PNDO	1	18675
East	English, Hindi, Odia, Assamese, Bengali	MU-G6S	6 HP	4 - 22	CS91206CEDO	CS91206PEDO	1	18675

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



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		
Central	English, Hindi, Kannada, Telugu, Punjabi	MU-G10S	10	4 - 22	CS91205CCDO	CS91205DCDO	1	19770
		MU-G10HS	10	20 - 42	CS91207CCFO	CS91207DCFO	1	20860
South	English, Hindi, Kannada, Telugu, Tamil	MU-G10S	10	4 - 22	CS91205CSDO	CS91205DSDO	1	19770
		MU-G10HS	10	20 - 42	CS91207CSFO	CS91207DSFO	1	20860
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G10S	10	4 - 22	CS91205CNDO	CS91205DNDO	1	19770
		MU-G10HS	10	20 - 42	CS91207CNFO	CS91207DNFO	1	20860
East	English, Hindi, Odia, Assamese, Bengali	MU-G10S	10	4 - 22	CS91205CEDO	CS91205DEDO	1	19770
		MU-G10HS	10	20 - 42	CS91207CEFO	CS91207DEFO	1	20860

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



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	CS91529CNDO	CS91529PNDO	1	24845
South	English, Hindi, Kannada, Telugu, Tamil	MU-G15S	15 HP	4 - 22	CS91529CSDO	CS91529PSDO	1	24845
East	English, Hindi, Assamese, Odia, Bengali	MU-G15S	15 HP	4 - 22	CS91529CEDO	CS91529PEDO	1	24845

# SMART Controller



With in-built short-circuit protection device



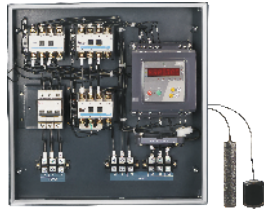
## MU-G15HS SMART Controller FASD [HSN Code 8536]



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 360W (200V-400V)	Coil Voltage 400/440V		
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G15HS	15 HP	13 - 32	CS91530CNEO	CS91530PNEO	1	28180
South	English, Hindi, Kannada, Telugu, Tamil	MU-G15HS	15 HP	13 - 32	CS91530CSEO	CS91530PSEO	1	28180
East	English, Hindi, Assamese, Odia, Bengali	MU-G15HS	15 HP	13 - 32	CS91530CEEO	CS91530PEEO	1	28180

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



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	CS91531CNDO	CS91531DNDO	1	27370
South	English, Hindi, Kannada, Telugu, Tamil	MU-G20S	20 HP	4 - 22	CS91531CSDO	CS91531DSDO	1	27370
East	English, Hindi, Assamese, Odia, Bengali	MU-G20S	20 HP	4 - 22	CS91531CEDO	CS91531DEDO	1	27370
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G20S	20 HP	13 - 32	CS91531CNEO	CS91531DNEO	1	30805
South	English, Hindi, Kannada, Telugu, Tamil	MU-G20S	20 HP	13 - 32	CS91531CSEO	CS91531DSEO	1	30805
East	English, Hindi, Assamese, Odia, Bengali	MU-G20S	20 HP	13 - 32	CS91531CEEO	CS91531DEEO	1	30805

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



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	35855
South	English, Hindi, Kannada, Telugu, Tamil	MU-G20HS	20 HP	13 - 42	CS91532CSFO	CS91532DSFO	1	35855
East	English, Hindi, Assamese, Odia, Bengali	MU-G20HS	20 HP	13 - 42	CS91532CEFO	CS91532DEFO	1	35855

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



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	38280
South	English, Hindi, Kannada, Telugu, Tamil	MU-G25S	25 HP	24 - 42	CS91533CSFO	CS91533DSFO	1	38280
East	English, Hindi, Assamese, Odia, Bengali	MU-G25S	25 HP	24 - 42	CS91533CEFO	CS91533DEFO	1	38280

# SMART Controller



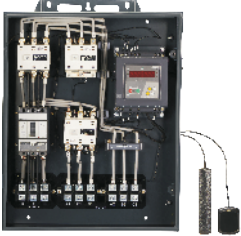
## MU-G30S SMART Controller FASD [HSN Code 8536]



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	50900
South	English, Hindi, Kannada, Telugu, Tamil	MU-G30S	30 HP	20 - 50	CS91651LSGO	1	50900
East	English, Hindi, Assamese, Odia, Bengali	MU-G30S	30 HP	20 - 50	CS91651LEGO	1	50900

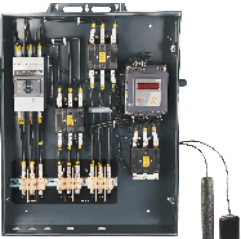
## MU-G40S SMART Controller FASD [HSN Code 8536]



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	58040
South	English, Hindi, Kannada, Telugu, Tamil	MU-G40S	40 HP	30 - 60	CS91652LSTO	1	58040
East	English, Hindi, Assamese, Odia, Bengali	MU-G40S	40 HP	30 - 60	CS91652LETO	1	58040

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



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	84150
South	English, Hindi, Kannada, Telugu, Tamil	MU-G50S	50 HP	30 - 75	CS91653LSJO	1	84150
East	English, Hindi, Assamese, Odia, Bengali	MU-G50S	50 HP	30 - 75	CS91653LEJO	1	84150

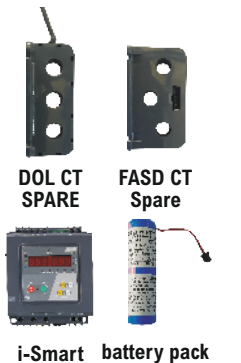
## MU-G75S SMART Controller FASD [HSN Code 8536]



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	107000
South	English, Hindi, Kannada, Telugu, Tamil	MU-G75S	75 HP	45 - 90	CS91654LSKO	1	107000
East	English, Hindi, Assamese, Odia, Bengali	MU-G75S	75 HP	45 - 90	CS91654LEKO	1	107000

## SMART Controller Spares [HSN Code 8538]



DOL CT SPARE

FASD CT Spare

i-Smart battery pack

Description	Cat. No.	Std.Pkg.(Nos.)	M.R.P.(₹) Per Unit
<i>i</i> -Smart for DOL without WLC	CS914130*OO	1	16180
<i>i</i> -Smart for FASD without WLC(upto 25HP)	CS914140*OO	1	20300
<i>i</i> -Smart for FASD without WLC (30-75HP)	CS914150*OO	1	24380
Spare CT Assembly DOL (And FASD Upto 25 HP)	CS91095O000	1	1270
Spare CT Assembly FASD 30-75 HP	CS91648O000	1	1835
Spare Battery Pack	CS91417O000	1	1280

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-G6/7.5/10 Three Phase Submersible Pump Controllers (with Single Phase Preventer)



Interior View of MU-G6 DOL

## MU-G6 DOL (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-G6 DOL	3 HP	4 - 6.5	360V-W (200V-400V)	SS97756COTO	1	7820
	5 HP	6 - 10	360V-W (200V-400V)	SS97756COVO	1	7820
	6 HP	9 - 14	360V-W (200V-400V)	SS97756COAO	1	7820

**NEW**

## 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 360-W (200V-400V)	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
	HP	KW					
MU-G7.5 DOL	7.5 HP	5.5	13 - 22	360V-W (200V - 400V)	CS92103SODO	1	8090
	7.5 HP	5.5	20 - 32	360V-W (200V - 400V)	CS92103SOEO	1	8090

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



Interior View of MU-G10 DOL

**NEW**

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	9000
	5	3.7	6 - 10	SS95983COVO	SS95983DOVO	1	9000
	6	4.5	9 - 14	SS95983COAO	SS95983DOAO	1	9130
	7.5/10	5.5/7.5	13 - 21	SS95983COCO	SS95983DOCOCO	1	9250
MU-G10HN DOL	10	7.5	15-25	CS92102CODO	CS92102DODO	1	9110
	10	7.5	20-32	CS92102COEO	CS92102DOEO	1	9360
MU-G10H DOL (Heavy duty)	10	7.5	20 - 32	SS95974COEO	SS95974DOEO	1	10405
	10	7.5	28 - 42	SS95974COFO	SS95974DOFO	1	10725

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



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



Interior View of MU-G15 FASD

Type	Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz		Relay Range (A)	Cat. No.		Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
	HP	kW		Coil Voltage 360V-W (200V - 400V)			
MU-G15 FASD	7.5	5.5	6 - 10	CS94091SOVO		1	15090
	10	7.5	9 - 14	CS94091SOAO		1	15090
	15	11	11 - 18	CS94091SOCO		1	15225
	15	11	13 - 22	CS94091SODO		1	15295



Interior View of MU-G17.5 FASD

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

Type	Suitable for Pump/Motor 3Ø, 415V, 50Hz	Relay Range (A)	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
	HP				
MU-G17.5 FASD	17.5 HP	13 - 22	CS91880SODO	1	16535
	17.5 HP	20 - 32	CS91880SOEO	1	16535



Interior View of MU-G20 FASD

## MU-G20 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-G20 FASD	10	7.5	9 - 14	SS95984COAO	SS95984DOAO	1	17720
	15/20	11/15	13 - 21	SS95984COCO	SS95984DOCO	1	17815
MU-G20HN FASD	20	15	15-25	CS92101CODO	CS92101DODO	1	18060
	20	15	20-32	CS92101COEO	CS92101DOEO	1	18310
MU-G20H FASD (Heavy duty)	20	15	20 - 32	SS95975COEO	SS95975DOEO	1	21720
	20	15	28 - 42	SS95975COFO	SS95975DOFO	1	22180



Interior View of MU-G25 FASD

## MU-G25 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		Coil Voltage 360V	Coil Voltage 415V		
MU-G25 FASD	25	24 - 38	CS91969COGO	CS91969DOGO	1	25235
	25	28 - 42	CS91969COFO	CS91969DOFO	1	25425

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



With ML Contactor & MN5 Relay



Interior View of MU-G30 FASD

## MU-G30 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-G30 FASD	20 HP	20 - 33	380V	CS96008COEO	1	34575
	30 HP	30 - 50	380V	CS96008COGO	1	35390



Interior View of MU-G40 FASD

## MU-G40 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-G40 FASD	30 HP	30 - 50	380V	CS90908LOGO	1	42530
	40 HP	36 - 60	380V	CS90908LOTO	1	43240



Interior View of MU-G50 FASD

## MU-G50 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-G50 FASD	30 HP	30 - 50	380V	CS96009COGO	1	56755
	50 HP	45 - 75	380V	CS96009COJO	1	58470



Interior View of MU-G75 FASD

## MU-G75 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-G75 FASD	50 HP	45 - 75	380V	CS96451LOJO	1	81140
	75 HP	66 - 110	380V	CS96451LOKO	1	81140

## Solar Controller



## MU-G SOLAR Controller [HSN Code 8504]

Suitable for AC Induction Pump/Motor 3Ø, 400V/415V, 50Hz	Product	Cat. No.	Description	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
3 HP	MU-G3 SOLAR	CS91463PT10	MU-G3 SOLAR Controller with RMU	1	45580
5 HP	MU-G5 SOLAR	CS91464PT10	MU-G5 SOLAR Controller with RMU	1	49120
7.5 HP	MU-G7.5 SOLAR	CS91465PT10	MU-G7.5 SOLAR Controller with RMU	1	72930

Note: Controllers are with Px2000 Solar Drives.





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



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



Interior View of  
MU-G10W 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-G10W DOL with in-built WLC	3	2.2	4 - 6.5	CS91037COTO	CS91037DOTO	1	12310
	5	3.7	6 - 10	CS91037COVO	CS91037DOVO	1	12310
	7.5	5.5	9 - 14	CS91037COAO	CS91037DOAO	1	12460
MU-G10W DOL (Heavy duty) with in-built WLC	10	7.5	13 - 21	CS91037COCO	CS91037DOCO	1	12570
	10	7.5	20 - 32		CS91037DOEO	1	13900
	10	7.5	28 - 42	CS91037COFO		1	14200

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



Interior View of  
MU-G20W 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-G20W FASD with in-built WLC	15	11	9 - 14		CS91038DOAO	1	21655
	20	15	13 - 21	CS91038COCO	CS91038DOCO	1	21750
MU-G20W FASD (Heavy duty) with in-built WLC	20	15	20 - 32	CS91038COEO	CS91038DOEO	1	25430
	20	15	28 - 42		CS91038DOFO	1	25940



Interior View of  
MU-G30W FASD

## 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	40655

## 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	SS941420OVO	10	1650
	9 - 15	SS941420OBO	10	1660
	14 - 23	SS941440ODO	10	1810
(Directly Operated) Direct Mounting	20 - 33	SS941450OEO	10	2665
	<b>MN 5</b>			
	20 - 33	SS941360OEO	10	3315
	30 - 50	SS941360OGO	10	4075
	36 - 60	SS941360OTO	10	4385
(Directly Operated) Direct Mounting	45 - 75	SS941370OJO	10	4705
	66 - 110	SS941370OKO	10	5370

# Spares for MU-G Submersible Pump Controller



Terminal Block  
60A-3 Way

Terminal Block  
30A-5 Way



Terminal Block  
100A-3 Way



Spare Lamp

Indicating Lamp  
Red & Green



Rocker Switch



Ammeter

Volt-Ammeter



SPPR Type Sz5 (7 Wire & 6 Wire)



SPPR Type SDz5

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



Spare  
ON-OFF plug

Timer ST100

## 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	240
Terminal Block 60A - 3 way (For MU-G10/20)	CS948060000	1	200
Terminal Block 100A - 3 way (For MU-G30/50)	CS943380000	1	1195
Terminal Block 125A - 3 way (For MU-G75)	CS901720000	1	4395

## Indicating lamp [HSN Code 8531]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Indicating lamp Red 415V	CS94810D000	1	325
Indicating lamp Green 415V	CS94812D000	1	325
Spare Lamp, MR-G Controller	CS961260000	1	75

## 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	85
Rocker switch (For MU-G30 to MU-G75)	CS902720000	1	145
Voltage selector switch	CS943350000	1	455

## Volt-Ammeter [HSN Code 9030]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Volt-Ammeter 500V 30A	CS94817E0EO	1	1350
Volt-Ammeter 500V 60A	CS94817E0TO	1	1395
Volt-Ammeter 500V, 0-75A	CS900550000	1	1395
Volt-Ammeter 500V, 0-100A	CS900560000	1	1395
Volt-Ammeter 500V, 0-125A	CS900570000	1	1395
30A Ammeter Spare for MR-G Controller	CS960260000	1	595
Volt-Ammeter (30A, 300V AC) for MR-G Controller	CS960280000	1	1035

## SPPR [HSN Code 9032]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
SPPR type Sz5 (7 Wire), 380V	ST921660000	1	915
SPPR type Sz5 (6 Wire), 360V (For MU-G10/10H)	CS94824C000	1	915
SPPR type Sz5 (6 Wire), 380V (For MU-G6)	CS94824L000	1	915
SPPR type Sz5 (6 Wire), 415V (For MU-G10/10H)	CS94824D000	1	915
SPPR type SDz5, 360V (For MU-G20/20H)	XM818080000	1	1750
SPPR type SDz5, 380V (For MU-G30/40/50/75)	XM818070000	1	1750
SPPR type SDz5, 415V (For MU-G15/20/20H)	XM818090000	1	1750
<b>NEW</b> SPPR type Sz5(6 long wire), 360V (FOR MU-G10/10H)	CS94855C000	1	990
<b>NEW</b> SPPR type Sz5(6 long wire), 415V (FOR MU-G10/10H)	CS94855D000	1	990

## ON-OFF Plugs [HSN Code 8538]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Spare plug MU-G6 (Bulk of 10)	ST155910000	1	100
Spare plug MU-10 (Bulk of 10)	ST155920000	1	105
Spare plug MU-15 (Bulk of 10)	ST155930000	1	125
Spare plug MU-20 (Bulk of 10)	ST155940000	1	125
Spare plug MU-30 (Bulk of 10)	ST155950000	1	130
Spare plug MU-50 (Bulk of 10)	ST155960000	1	135
Spare plug MU-75 (Bulk of 10)	ST155970000	1	135

## 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	1890

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

# 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**
- 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



## 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	4060
		CS91321NAOE	80 / 100	1 x 36	
	1 Hp	CS91322NBOE	100 / 120	1 x 36	4270
		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	4470
		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	4660
		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	4855

## 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	5095
		CS91718NAOE	80 / 100	1 x 36	
	1 Hp	CS91719NBOE	100 / 120	1 x 36	5295
		CS91719NBOG	100 / 120	1 x 50	
		CS91719NCOE	120 / 150	1 x 36	
		CS91719NCOG	120 / 150	1 x 50	

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



## 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)	1.5 Hp	CS91720NCOG	120 / 150	1 x 50	5475
		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	5685
		CS91721NDOH	150 / 200	2 x 50	
		CS91721NDOJ	150 / 200	1 x 72	
		CS91721NEOF	200 / 250	2 x 36	
		CS91721NEOG	200 / 250	1 x 50	
3 Hp	CS91721NEOJ	200 / 250	1 x 72	5880	
CS91722NEOH	200 / 250	2 x 50			

## 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	5625
		CS91331NAOE	80 / 100	1 x 36	
	1 Hp	CS91332NBOE	100 / 120	1 x 36	5820
		CS91332NBOG	100 / 120	1 x 50	
		CS91332NCOE	120 / 150	1 x 36	
		CS91332NCOG	120 / 150	1 x 50	
		CS91333NCOG	120 / 150	1 x 50	
	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	6195
		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	6405

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



Start Switch

Stop Switch



Terminal Block

Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
Spare start switch (Manual Version)	CS913630000	1	220
Spare stop switch (Manual Version)	CS913640000	1	160
Mounting kit accessory	CS913650000	1	145
Spare 5 way terminal block	CS913660000	1	170
Spare 2 way terminal block	CS913670000	1	125
<b>NEW</b> Spare Digital Module Manual	CS920250000	1	3140
<b>NEW</b> Spare Digital Module Auto	CS920260000	1	4285

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



MR-GiA WLC Spare

Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
Spare Wlc Module	CS913680000	1	1155

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



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	-	4545
		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			
		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	-	4950
		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			
		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	-	5335
		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 Controller



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

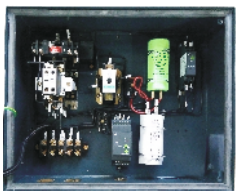
Type	Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz	Cat. No.	Relay Range (A)	Start Capacitor 275V, 50Hz	Run Capacitor 440V, 50Hz MFD	With Ammeter & Voltmeter	With Ammeter Only	M.R.P. (₹) Per Unit			
MR-G2	1.5 HP	SS96989BCAG	9 - 14	120 / 150	1 x 50	-	Yes	5140			
		SS96989BCAF	9 - 14	120 / 150	2 x 36						
		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	-	5610			
		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	5370
		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	-	6200			
		CS96468BEBH	16 - 26	200 / 250	2 x 50	-	Yes	5885			
		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	-	8805			

# MR-G2W Single Phase Submersible Controller (with WLC)



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

Maximum Submersible Pump Rating at 1 $\phi$ , 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	9825
	CS91040BAVE	6 - 10	80 / 100	1 x 36	
1HP	CS91041BBVE	6 - 10	100 / 120	1 x 36	10240
	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	CS91041BCAG	9 - 14	120 / 150	1 x 50	10750
	CS91042BCAG	9 - 14	120 / 150	1 x 50	
	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	
2HP	CS91042BDCF	11 - 18	150 / 200	2 x 36	10995
	CS91043BECF	11 - 18	200 / 250	2 x 36	
	CS91043BDDF	13 - 22	150 / 200	2 x 36	
	CS91043BEDF	13 - 22	200 / 250	2 x 36	
3HP	CS91043BEDG	13 - 22	200 / 250	1 x 50	11390
	CS91044BEDH	13 - 22	200 / 250	2 x 36	



Interior View of MR-G2W

## 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	1355
Water Level Controller (415V)(Double Tank application)	XM810530000	1	1355
Water Level Controller (240V) (Single Tank application)	XM810550000	1	1285
Water Level Controller (415V) (Single Tank application)	XM810560000	1	1285
WLC probes (set of 3 nos.)	XM810510000	1	450
WLC probes (set of 6 nos.)	XM810760000	1	910

# Spares for MR-G Submersible Pump Controller



## MR-G Spares [HSN Code 8538]

Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
Add on Auxiliary Contact Block (Contact Type 1NO)	CS941790000	10	315
MR 11W, Spare Coil, 240V, 50Hz	CS94102B000	10	665
MR-G2 Plug ON & OFF (Bulk of 10 ON & 10 OFF Plugs)	CS916960000	1	265
SPARE ADD ON BLOCK, MR-G2	CS964360000	1	195



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	MU 16 - 2P (160-220V)	CS90117N000	10	940
	25A	MU 25 - 2P (160-220V)	CS90118N000	10	1150
	40A	MU 40 - 2P (160-220V)	CS90119N000	10	1460



MR 11W Contactor

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

Component	AC3 Rating	Type	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
MR - 11W Contactor	25A	MR 11 W	CS94176B000	10	1200



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	CS90207O0MO	1	695
	1.5 - 2.5A	CS90207O0PO	1	695
	2.5 - 4A	CS90207O0RO	1	695
	4 - 6.5A	CS90207O0TO	1	695
	6 - 10A	CS90207O0VO	1	695
	9 - 14A	CS90207O0AO	1	695
	11 - 18A	CS90207O0CO	1	775
	13 - 22A	CS90207O0DO	1	775
	16 - 26A	CS90207O0BO	1	775
	20 - 32A	CS90207O0EO	1	970



MU-2P Coil

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

Component	Type	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
MU - 2P Spare Contact Kit	MU 16 - 2P	CS902170000	1	275
	MU 25 - 2P	CS902180000	1	360
	MU 40 - 2P	CS902190000	1	525
MU - 2P Spare Coil & Top Add-on	MU-2P Coil (220V)	CS90793N000	1	365
	MU-2P Coil (300V)	CS90793R000	1	365
	MU-2P Top Add-on (1 NO)	CS906950000	1	205

## 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	925
Wiring Harness, MU-G10 (Flexible Type)	CS961300000	1	1310
Wiring Harness, MU-G10H (Flexible Type)	CS961340000	1	1705
Wiring Harness, MU-G15 (Flexible Type)	CS905670000	1	1935
Wiring Harness, MU-G20 (SDz5 SPPR) (Flexible Type)	CS961290000	1	2890
Wiring Harness, MU-G20H (SDz5 SPPR) (Flexible Type)	CS961350000	1	3080
Wiring Harness, MU-G30 (Flexible Type)	CS961280000	1	3785
Wiring Harness, MU-G50 (Flexible Type)	CS961270000	1	5385
Wiring Harness, MU-G75 (Flexible Type)	CS901710000	1	7735
Wiring Harness 2.5 sq. mm, MR-G2 (Flexible Type, For upto 11 - 18A Relay)	CS961330000	1	1065



# M-POWER Pro

Operate your pump from anywhere at anytime

## FEATURES



### EASE OF OPERATION

Ease and convenience in operating pump from anywhere, anytime through SMS, IVRS and LTLK Connect App.



### SELECTIVE PROTECTION

One can enable or disable each protection as per convenience. One can also change the voltage and current settings as per requirement.



### EASE IN MONITORING

One can easily check important parameters such as pump status (ON/ OFF), metering etc. at the comfort of one's home through LTLK Connect App.



### CONVENIENCE IN USAGE

The same device can be used with 3 phase DOL & Star - Delta starter, hence no additional device is needed.



### COMPLETE PROTECTION

Along with dry run fault protection (with dry run reset feature), it provides protection from over voltage, under voltage, single phasing or phase loss, phase reversal and phase unbalance faults.

▶ WITH TIMER OPERATIONS  
▶ EASY THREE WIRE CONNECTION



Technology at your finger tips



LTLK Connect APP



### AGRI CUSTOMER CARE

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# SOLAR INVERTER



## LTLK Solar Inverter MS-RE Series

### Features:

- ◆ **Intelligent Modes For Solar Prioritization:** 3 user selectable modes (Solar, Solar + Grid, and Grid + Solar) to optimise usage of solar energy & reduce electricity bills
- ◆ **Inbuilt Heavy Duty (50A) Solar Charge Controller:** It enables fast battery charging
- ◆ **Compatible With Different Types Of Batteries:** Compatible with all types of batteries available on the market, like Tubular / Flat / Gel or VRLA
- ◆ **Smart Battery Management:** With Battery Protection & Battery Status Indications
- ◆ **Wider Grid Operating Voltage:** It works even at low voltage (90V till 290V), making it suitable for locations with low voltage problems
- ◆ **Reliable:** The inverter provides assurance of product's quality, reliability, and safety to the customers
- ◆ **Automatic No Load Shutdown:** Saves battery power & increase back-up
- ◆ **Max Capacity Utilization:** Connect Solar Panels (850 Wp / 1500 Wp) equivalent to Solar Inverter's VA rating
- ◆ **User Friendly Display**
- ◆ **BIS Certified inverter**

### Technical Specifications

Product	MS-RE 1	MS-RE 2
Product VA Rating	850 VA	1500 VA
<b>Input</b>		
Battery Voltage	12 V	24 V
Solar Panel	850 Wp, 18 V - 25 V VOC	1500 Wp, 36 V - 60 V VOC
Recommended Solar Panel	5 modules of 165 Wp each	5 modules of 300 Wp each
Recommended Battery Size	1 no of battery 12 V - 150 Ah / 200 Ah	2 nos of batteries of 12 V - 150 Ah / 200 Ah (Series Connection)

### MS-RE 1 Solar Inverter [HSN Code 8504]

Rating (VA)	Suitable Battery Voltage (V)	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
850	12	AEH-SHY02-0850-LK	1	Please refer Solar Inverter Price List

### MS-RE 2 Solar Inverter [HSN Code 8504]

Rating (VA)	Suitable Battery Voltage (V)	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
1500	24	AEH-SHY02-1500-LK	1	Please refer Solar Inverter Price List



Scan QR code for  
MS-RE 1



Scan QR code for  
MS-RE 2

# i-PROTECTOR



## 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			1- Phase Starters	3- Phase Controller		1- Phase Controller	3-Phase SASD / FASD Starters			3-Phase Controller (FASD)	
	MK1 / MK2	MU1 / MU1H / MU2 / MU3	MB1 / MB2	MU-2P	MU-G6	MU-G10 / MU-G10H	MR-G2 / MR-G3	MK1	MU1 / MU2	MB1 / MB2	MU-G15	MU-G20 / MU-G20H
<i>i-AD</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>i-ADS / i-ADSM</i>	✓	✓	✓		✓*	✓*		✓	✓	✗	✓*	✓*
<i>i-VDS / i-VDSM</i>	✓	✓	✓		✓*	✓*		✓	✓	✗	✓*	✓*

\* Note: MU-G Controller is provided with Sz5 / Sdz5. In case of upgradation, use *i-ADS*, *i-ADSM*, *i-VDS*, *i-VDSM* in place of SPPR

✓ Note: *i-Protector* is compatible with the mentioned starter

## i-PROTECTOR [HSN Code 8536]

Product Designation	Product Details	240 V	360 V	380 V	415 V	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
<i>i-AD</i>	Dry run protection relay (current based)	CS90861B000				1	1305
<i>i-AD</i>	Dry run protection relay (current based)		CS90861C000	CS90861L000	CS90861D000	1	1340
<i>i-ADS</i>	Single phasing preventer & dry run protection relay (current based)		CS90862C000	CS90862L000	CS90862D000	1	2235
<i>i-ADSM</i>	Single phasing preventer & dry run protection relay + VI meter (current based)		CS90863C000	CS90863L000	CS90863D000	1	2840
<i>i-VDS</i>	Single phasing preventer & dry run protection relay (voltage based)		CS90866C000	CS90866L000	CS90866D000	1	2075
<i>i-VDSM</i>	Single phasing preventer & dry run protection relay + VI meter (voltage based)		CS90875C000	CS90875L000	CS90875D000	1	2840

Please see the Note at the bottom of the page

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

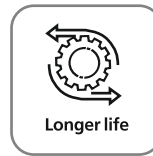
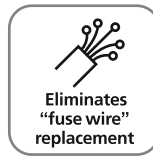


Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
Wire Harness, <i>i-AD</i> (230V-Single Phase)	CS9163300000	1	260
Wire Harness, <i>i-AD</i> (Three Phase)	CS9163400000	1	300
Wire Harness, <i>i-ADS</i> , <i>i-ADSM</i> , <i>i-VDS</i> , <i>i-VDSM</i>	CS9163500000	1	370

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

# LTLK MCB with K-Curve

## Exclusively for Agricultural Pumps



### 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	13-21	25	
			20-32	32	
			28-42	50	
			MU-G20	09-14	40
				13-21	50
			MU-G20H	20-32	100
				28-42	125

### Features

- ◆ Range available from 6A to 125A - 3 Pole and 6A to 50A - 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
  - No need of replacing "fuse wire" in case of fault
  - Simple to resume supply by switching ON MCB
  - Saves fuse replacement time and saves money
  - Longer life
  - Safer in operation
  - Easy to switch ON/OFF during maintenance

### 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	LK20060K	6	2	6	855
	LK20100K	10	2	6	855
	LK20160K	16	2	6	855
	LK20200K	20	2	6	855
	LK20250K	25	2	6	855
	LK20320K	32	2	6	855
	LK20500K	50	2	6	1370



MCB Pole	Cat. No.	MCB Rating (A)	Module 1Mod=17.5mm	Std. Pkg. (Nos.)*	M.R.P. (₹) Per Unit
3 - Pole	LK30060K	6	3	4	1375
	LK30100K	10	3	4	1375
	LK30160K	16	3	4	1375
	LK30200K	20	3	4	1375
	LK30250K	25	3	4	1375
	LK30320K	32	3	4	1375
	LK30400K	40	3	4	2110
	LK30500K	50	3	4	2110
	LK30630K	63	3	4	2110
	LK31000K	100	4.5	1	8825
	LK31250K	125	4.5	1	9805

\* Includes DIN channel & hardware for individual MCB up to 63A

# M-POWER Pro & M-POWER+ 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 LTLK Connect Android 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



LTLK Connect App



Product videos

## 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	CS91313O0OO	1	7220
South	English, Hindi, Kannada, Telugu, Tamil		CS91313MOSO	CS91313LOSO	CS91313OOSO	1	7220
East	English, Hindi, Odia, Assamese, Bengali		CS91313MOEO	CS91313LOEO	CS91313O0EO	1	7220

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+ [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	GSM0301OONO	1	4830
	English, Hindi, Kannada, Telugu, Tamil	South	GSM0301OOSO	1	4830
	English, Hindi, Bengali, Odia, Assamese	East	GSM0301O0EO	1	4830



Wire Type Antenna

## M-POWER+ Accessories

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Wire Type Antenna [8538]	GSM0301A000	1	495
Controller-side Wire Harness [8544]	GSM0301C000	1	180
Module-side Wire Harness [8544]	GSM0301G000	1	260



Controller-side Wire Harness & Module-side Wire Harness

# 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	235
2 kVAr	440V	LTBCA302B2	1	455
3 kVAr	440V	LTBCA303B2	1	685
4 kVAr	440V	LTBCA304B2	1	915
5 kVAr	440V	LTBCA305B2	1	1145
6 kVAr	440V	LTBCA306B2	1	1375
7.5 kVAr	440V	LTBCA307B2	1	1720
8.33 kVAr	440V	LTBCA308B2	1	1910
10 kVAr	440V	LTBCA310B2	1	2295
12.5 kVAr	440V	LTBCA312B2	1	2865
15 kVAr	440V	LTBCA315B2	1	3435
20 kVAr	440V	LTBCA320B2	1	4580
25 kVAr	440V	LTBCA325B2	1	5720
30 kVAr	440V	LTBCA330B2	1	6855

## Cylindrical Capacitors [HSN Code 8532]

Rating	Voltage	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
1 kVAr	440V	LTCCA301B2	1	195
2 kVAr	440V	LTCCA302B2	1	380
3 kVAr	440V	LTCCA303B2	1	570
4 kVAr	440V	LTCCA304B2	1	765
5 kVAr	440V	LTCCA305B2	1	955
6 kVAr	440V	LTCCA306B2	1	1145
7.5 kVAr	440V	LTCCA307B2	1	1435
8.33 kVAr	440V	LTCCA308B2	1	1590
10 kVAr	440V	LTCCA310B2	1	1910
12.5 kVAr	440V	LTCCA312B2	1	2375
15 kVAr	440V	LTCCA315B2	1	2855
20 kVAr	440V	LTCCA320B2	1	3810
25 kVAr	440V	LTCCA325B2	1	4750
30 kVAr	440V	LTCCA330B2	1	5705

## Cylindrical Capacitors with Clamps [HSN Code 8532]

Rating	Voltage	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
1 kVAr	440V	LTCCC301B2	1	220
2 kVAr	440V	LTCCC302B2	1	410
3 kVAr	440V	LTCCC303B2	1	600
4 kVAr	440V	LTCCC304B2	1	795
5 kVAr	440V	LTCCC305B2	1	975
6 kVAr	440V	LTCCC306B2	1	1175
7.5 kVAr	440V	LTCCC307B2	1	1465
8.33 kVAr	440V	LTCCC308B2	1	1620
10 kVAr	440V	LTCCC310B2	1	1935
15 kVAr	440V	LTCCC315B2	1	2885
20 kVAr	440V	LTCCC320B2	1	3840
25 kVAr	440V	LTCCC325B2	1	4785
30 kVAr	440V	LTCCC330B2	1	5740

# 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	235
2 kVAr	415V	LTBCA302A2	1	455
3 kVAr	415V	LTBCA303A2	1	685
4 kVAr	415V	LTBCA304A2	1	915
5 kVAr	415V	LTBCA305A2	1	1145
6 kVAr	415V	LTBCA306A2	1	1375
7.5 kVAr	415V	LTBCA307A2	1	1720
8.33 kVAr	415V	LTBCA308A2	1	1910
10 kVAr	415V	LTBCA310A2	1	2295
12.5 kVAr	415V	LTBCA312A2	1	2865
15 kVAr	415V	LTBCA315A2	1	3435
20 kVAr	415V	LTBCA320A2	1	4580
25 kVAr	415V	LTBCA325A2	1	5720
30 kVAr	415V	LTBCA330A2	1	6855

## Cylindrical Capacitors [HSN Code 8532]

Rating	Voltage	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
1 kVAr	415V	LTCCA301A2	1	195
2 kVAr	415V	LTCCA302A2	1	380
3 kVAr	415V	LTCCA303A2	1	570
4 kVAr	415V	LTCCA304A2	1	765
5 kVAr	415V	LTCCA305A2	1	955
6 kVAr	415V	LTCCA306A2	1	1145
7.5 kVAr	415V	LTCCA307A2	1	1435
8.33 kVAr	415V	LTCCA308A2	1	1590
10 kVAr	415V	LTCCA310A2	1	1910
12.5 kVAr	415V	LTCCA312A2	1	2375
15 kVAr	415V	LTCCA315A2	1	2855
20 kVAr	415V	LTCCA320A2	1	3810
25 kVAr	415V	LTCCA325A2	1	4750
30 kVAr	415V	LTCCA330A2	1	5705

# 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



Run MR-G

Start MR-G

Start Spare

Run Spare

## 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	80
	12.5	440V	LTCCMRW125B2	21	95
	15	440V	LTCCMRW015B2	21	120
	20	440V	LTCCMRW020B2	21	140
	25	440V	LTCCMRW025B2	12	150
	30	440V	LTCCMRW030B2	12	160
	36	440V	LTCCMRW036B2	12	170
	40	440V	LTCCMRW040B2	12	215
	45	440V	LTCCMRW045B2	12	240
	50	440V	LTCCMRW050B2	12	250
Start	72	440V	LTCCMRW072B2	12	325
	80-100	275V	LTCCMSW100P2	12	240
	100-120	275V	LTCCMSW120P2	12	280
	120-150	275V	LTCCMSW150P2	12	330
	150-200	275V	LTCCMSW200P2	12	375
	200-250	275V	LTCCMSW250P2	12	420



## 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	175
	36	440V	LTCCMR036B2	12	195
	50	440V	LTCCMR050B2	12	305
Start	80-100	275V	LTCCMS100P2	12	280
	100-120	275V	LTCCMS120P2	12	335
	120-150	275V	LTCCMS150P2	12	385
	150-200	275V	LTCCMS200P2	12	445
	200-250	275V	LTCCMS250P2	12	495



# 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 IS694:1990 (Extra Thick Insulation) [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 Meter
1.5	22 / 0.3	14	WST0015PECM*.	Please refer Submersible Flat Cables Price List
2.5	36 / 0.3	18	WST0025PECM*.	
4	56 / 0.3	26	WST0040PECM*.	
6	84 / 0.3	31	WST0060PECM*.	
8	120 / 0.29	36	WST0080PECM*.	

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

## Submersible Cables (Flat Cables) as per IS694:1990 (Standard Insulation) [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 Meter
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*.	
8	120 / 0.29	36	WS00080PECM*.	
10	80 / 0.4	42	WS00100PECM*.	
16	126 / 0.4	57	WS00160PECM*.	

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

## XLPE Submersible cables

### Features :

- ◆ Cross-linked material offers higher withstand capability to temperature and voltage fluctuations
- ◆ Higher current rating optimizes cable size requirement
- ◆ Higher overload capacity and higher short circuit rating ensures better performance
- ◆ Due to better abrasion, corrosion and moisture resistance, longer cable life

## Submersible Cables (Flat Cables) as per IS694:1990 (Extra Thick XLPE) [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 Meter
1.5	22 / 0.3	22	WST0015XECEM*.	Please refer Submersible Flat Cables Price List
2.5	36 / 0.3	29	WST0025XECEM*.	
4	56 / 0.3	38	WST0040XECEM*.	
6	84 / 0.3	47	WST0060XECEM*.	

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

## Submersible Cables (Flat Cables) as per IS694:1990 (Standard XLPE) [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 Meter
1.5	22 / 0.3	22	WS00015XECEM*.	Please refer Submersible Flat Cables Price List
2.5	36 / 0.3	29	WS00025XECEM*.	
4	56 / 0.3	38	WS00040XECEM*.	
6	84 / 0.3	47	WS00060XECEM*.	

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.

Prices are subject to revision without notice.

## Warranty Policy

All the products<sup>#</sup> listed in the price list carry a warranty, against manufacturing defects for a period of 18\* months from the date of purchase.

Should the product prove to be defective due to faulty workmanship or otherwise, we will remedy the defect or replace the faulty parts or the whole product at our discretion, as soon as possible, free of cost.

The warranty is however subject to the provision of proper usage, efficient maintenance and does not cover defects arising out of fire, accident, inefficient maintenance, faulty operation and willful or accidental damage. It also does not cover damage to power electronic components like thyristors & IGBTs, which fail predominantly due to over-temperature & over-voltage. The user needs to take adequate precautions to eliminate these conditions. The manufacturer shall not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.

## Comprehensive Service Support

L&T Electrical & Automation (E&A) has over five decades of experience in providing after sales service for low voltage distribution system in every type of industry & commercial complex in India

E&A 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-  
Retrofitting & Upgradation of your switchgear products

\* Proof of purchase to be retained to avail warranty

# Except Solar Inverter. For Solar Inverter warranty period and policy please refer Solar Inverter Price List & warranty policy terms.

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