

The icons are arranged vertically on the right side of the slide. From top to bottom: 1. A shield with a checkmark, symbolizing security or protection. 2. A hand holding a smartphone displaying a cloud icon, symbolizing mobile access or cloud services. 3. A wireless router with signal waves, symbolizing connectivity or network access. 4. A server rack connected to a cloud icon, symbolizing data integration or cloud storage.





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 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.

L&T's ESP is the first low voltage switchgear
manufacturer in India that has
received this recognition.





LTLK Connect App

Connect Anywhere, Anytime...



One App for Smart Controller, Solar Controller and M-POWER PRO

Convenience of technology at your finger tips



Customer Interaction Centre (CIC)

BSNL/MTNL (Toll free): 1800 233 5858 Reliance (Toll free): 1800 200 5858
Tel: +91 22 6774 5858 Fax: +91 22 6774 5859 E-mail: cic@lntebg.com

Regd. Office: Larsen & Toubro Limited, L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001, INDIA CIN: L99999MH1946PLC004768

DIGITAL SINGLE PHASE CONTROLLER

For Single Phase Domestic & Agricultural Pumps

Manual version

FEATURES

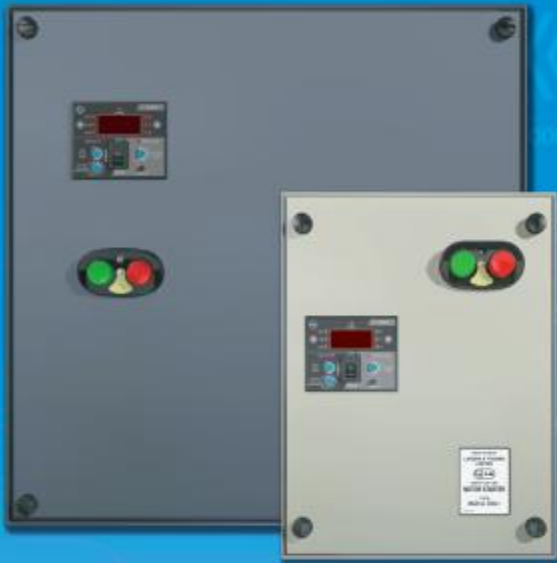
Auto version

- Microcontroller Based Solution
- Dry Run Protection
- UV/OV Protection
- Current, Voltage Metering
- Start & Run Capacitor
- Bore Cleaning Feature
- Off Timer
- Digital Display
- Capacitor cut-off
- Water Tank Status Indication
- Automatic Current Setting

- All features of Basic 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
- Timer Compensation



The power of flexibility and versatility



STARTER+

Benefits of both universe:
LTLK Starters and Digital
Technology



- Benefits of both in one: Rugged MK/MU starters and digital technology of i-PROTECTOR
- Easy to connect: With factory fitted i-PROTECTOR and terminal block, only supply and motor wires need be connected.
- With digital ammeter and voltmeter
- Complete protection from: Voltage single phasing or current single phasing, voltage unbalance fault from supply side or current unbalance fault from motor side, phase reversal fault, under voltage fault, overvoltage fault, dry-run fault
- Micro-controller based protection design
- Auto/manual/bypass mode available
- In-built star-delta changeover timer, on-time delay, dry run reset on delay
- Automatic load current setting with just a push button
- With i-PROTECTOR popped out from cover, easy to set the necessary mode and settings without opening the starter
- Ideal and reliable in conditions like temperature, humidity, voltage variation
- Suitable for all kind of applications: Agriculture water pumps, flour mill motors, thresher motors, sugarcane cutting motors



LTK MCBs with K-Curve Exclusively for Agricultural Pumps

- Range available from 6A to 125A - 3 Pole and 6A to 50A - 2 Pole
- Specially designed MCBs with K-Curve for Short circuit tripping band suitable for agricultural pumps

Customer Interaction Centre (CIC)

BSNL/MTNL (Toll free): 1800 233 5858 Reliance (Toll free): 1800 200 5858
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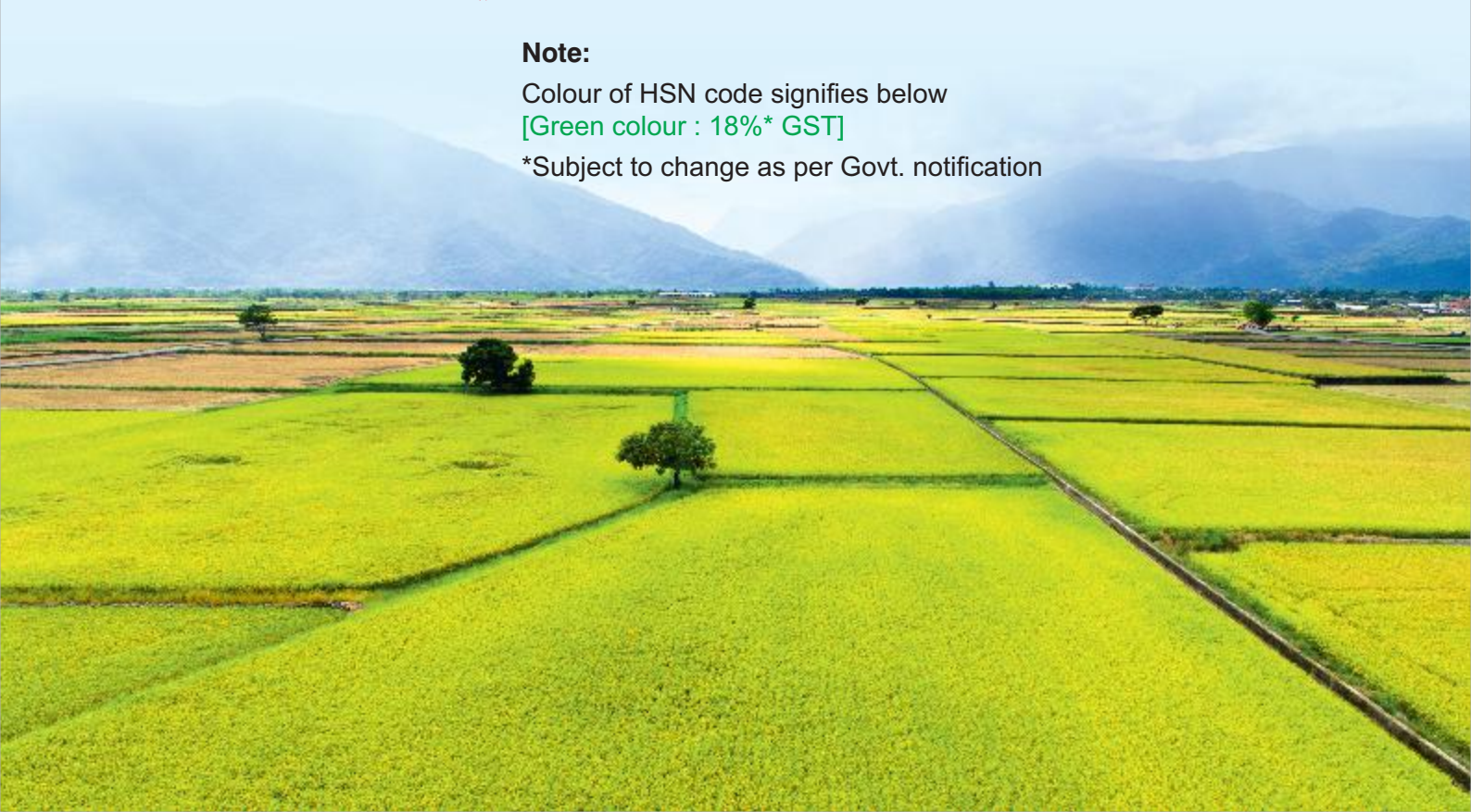
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Note:

Colour of HSN code signifies below

[Green colour : 18%* GST]

*Subject to change as per Govt. notification





Starters and Controllers Offerings & Composition

Offerings

HP Rating	DOL (Direct On-Line)													
	Starters											Controller		
	MK1	MK2	MF1	MU1	MU1H	MB1	MU2	MB2	MU3	ML1.5	ML2	MU-G6	MU-G10	MU-G10H
0.125			✓											
0.25 - 2	✓		✓											
3 - 6	✓		✓									✓	✓	
7.5	✓	✓	✓	✓	✓	✓				✓	✓		✓	
10				✓	✓	✓				✓	✓		✓	✓
12.5					✓		✓	✓		✓	✓			
15							✓	✓	✓	✓	✓			
17.5									✓		✓			
20											✓			

HP Rating	FASD (Fully Automatic Star-Delta)														
	Starters								Controller						
	MK1	MK2	MU1	MB1	ML1.5	MU2	MB2	ML2	MU-G15	MU-G20	MU-G20H	MU-G30	MU-G40	MU-G50	MU-G75
6 - 10	✓								✓						
12.5	✓		✓	✓	✓			✓	✓						
15	✓	✓	✓	✓	✓			✓	✓	✓					
20					✓	✓	✓	✓		✓	✓	✓			
25					✓	✓	✓					✓			
30						✓	✓	✓				✓	✓	✓	
35								✓					✓	✓	
40													✓	✓	
50														✓	✓
75															✓

HP Rating	SASD (Semi Automatic Star-Delta)							
	Starters							
	MK1	MK2	MU1	MB1	MU2	MB2	ML1.5	ML2
6 - 10	✓							
12.5	✓		✓	✓			✓	✓
15	✓	✓	✓	✓				
20					✓	✓	✓	✓
25					✓	✓	✓	
30					✓	✓		✓
35								✓



Starters and Controllers Offerings & Composition

Composition for 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	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			
Contactors used																	
MK1		MK1	MK1	MK1	MK1	MK1	MK1		MK1		MK1						
MK2											MK2			MK2			
MU1							MU1			MU1			MU1				
MU1H													MU1H	MU1H			
MU2										MU2				MU2		MU2	
MU3																MU3	MU3
MB1								MU1				MU1					
MB2												MU2			MU2		
ML1.5							ML1.5			ML1.5				ML1.5			
ML2							ML2			ML2				ML2			

Composition for 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
MK1	MK1	MK1	MK1		MK1		MK1				
MK2							MK2		MK2		
MU1			MU2			MU2					
MU2						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		
MB1				MU1				MU1			
MB2								MU2		MU2	
ML1.5			ML1.5			ML1.5			ML1.5		
ML2			ML2			ML2			ML2		

Note: Newly introduced range MK2 SASD Starter



Starters and Controllers Offerings & Composition

Composition for FASD (Fully Automatic Star-Delta) Starters

Relays used											
Relay Range (A) Starter Type	4-6.5	6-10	9-14	9-15	11-18	13-21	13-22	14-23	20-32	20-33	
MK1	MK1	MK1	MK1		MK1		MK1				
MK2							MK2		MK2		
MU1			MU2			MU2					
MU2						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		
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.

Newly introduced range MK2 FASD Starter

Composition for Controllers

Relay Range Controller Type (A)		Relays used												
		4-6.5	6-10	9-14	11-18	13-21	13-22	20-32	20-33	28-42	30-50	36-60	45-75	66-110
MU-G6		MK1	MK1	MK1										
MU-G10		MU1	MU1	MU2		MU2								
MU-G10H								MU2		MU2				
MU-G15			MK1	MK1	MK1		MK1							
MU-G20				MU2		MU2								
MU-G20H								MU2		MU2				
MU-G30									MN5		MN5			
MUG40											MN5	MN5		
MU-G50											MN5		MN5	
MU-G75													MN5	MN5
		Contactors used												
MU-G6		MK1	MK1	MK1										
MU-G10		MU1	MU1	MU1		MU1								
MU-G10H								MU2		MU2				
MU-G15			MK1	MK1	MK1		MK1							
MU-G20				MU1		MU1								
MU-G20H								MU2		MU2				
MU-G30									ML2W		ML2W			
MUG40											ML3W	ML3W		
MU-G50											ML4W		ML4W	
MU-G75													ML6W	ML6W
		Single Phase Preventer used												
MU-G6		Sz5	Sz5	Sz5										
MU-G10		Sz5	Sz5	Sz5		Sz5								
MU-G10H								Sz5		Sz5				
MU-G15			SDz5	SDz5	SDz5		SDz5							
MU-G20				SDz5		SDz5								
MU-G20H								SDz5		SDz5				
MU-G30									SDz5		SDz5			
MUG40											SDz5	SDz5		
MU-G50											SDz5		SDz5	
MU-G75													SDz5	SDz5



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	2008
0.5 HP	1 - 1.6		SS96210COMO	SS96210POMO	1	2008
1 HP	1.5 - 2.5		SS96210COPO	SS96210POPO	1	2008
2 HP	2.5 - 4		SS96210CORO	SS96210PORO	1	2008
4 HP	4 - 6.5	SS96210SOTO	SS96210COTO	SS96210POTO	1	2008
6 HP	6 - 10	SS96210SOVO	SS96210COVO	SS96210POVO	1	2008
7.5 HP	9 - 14	SS96210SOAO	SS96210COAO	SS96210POAO	1	2008
7.5 HP	11 - 18	SS96211SOCO	SS96211COCO	SS96211POCO	1	2060
7.5 HP	13 - 22	SS96228SODO	SS96228CODO	SS96228PODO	1	2112

Note: For Single Phase Starter application, please refer page no. 11

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	6485
10 HP	6 - 10	SS96255COVO	SS96255POVO	1	6485
12.5 / 15 HP	9 - 14	SS96255COAO	SS96255POAO	1	6485
15 HP	11 - 18	SS96258COCO	SS96258POCO	1	6540
15 HP	13 - 22	SS96260CODO	SS96260PODO	1	6620

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	7235
10 HP	6 - 10	SS96254COVO	SS96254POVO	1	7235
12.5 / 15 HP	9 - 14	SS96254COAO	SS96254POAO	1	7235
15 HP	11 - 18	SS96257COCO	SS96257POCO	1	7285
15 HP	13 - 22	SS96259CODO	SS96259PODO	1	7330



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)	CS9098300000	50	415
	Single moving contact	SS9100900000	10	45
	Push button unit	SS9000400000	1	95
	Arc shield	SS5000400000	1	100
	Contact bridge without contact	SS5000500000	1	95
	Aux. contact block: 1NO + 1NC	SS9012000000	50	215
	Thermal timer without combination coil	SS9022400000	1	590



MK1 Standard Operating Coil

MK1 Coil [HSN Code 8538]

MK1 Standard Operating Coil	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
	220V	SS900440000	10	165
	230 / 250V	SS900450000	10	165
	360V	SS901650000	10	165
	400 / 440V	SS900470000	10	165
Wide Band Coil	360V-W (200V - 400V)	SS909930000	10	190



MK1 Contactor

MK1 Contactors [HSN Code 8536]

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK1 Contactors	220V	SS95200K0000	10	1145
	230 / 250V	SS95200N0000	10	1145
	360V	SS95200C0000	10	1145
	360V-W (200V - 400V)	SS95200S0000	10	1145
	400 / 440V	SS95200P0000	10	1145



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	SS9044300000	10	390
	Combination coils for 360V	SS9044600000	10	390



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	745
	1 - 1.6A	SS9003500MO	10	745
	1.5 - 2.5A	SS9003500PO	10	745
	2.5 - 4A	SS9003500RO	10	745
	4 - 6.5A	SS9003500TO	10	745
	6 - 10A	SS9003500VO	10	745
	9 - 14A	SS9003500AO	10	745
	11 - 18A	SS9003600CO	10	775
	13 - 22A	SS9188800DO	10	850



MK2 Starters



Interior View of MK2 DOL



Interior View of MK2 SASD



Interior View of MK2 FASD



MK2 Spares



MK1 / MK2 Standard Operating Coil



MK2 Contactor



MK2 Relay

MK2 DOL Starters [HSN Code 8536]

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	2290
7.5 HP	20 - 32	CS90947SOEO	CS90947COEO	CS90947POEO	1	2290

MK2 SASD Starters [HSN Code 8536]

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	6825
15 HP	20-32	CS91582SOEO	CS91582COEO	CS91582POEO	1	7030

MK2 FASD Starters [HSN Code 8536]

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	CS91583COEO	CS91583PODO	1	7535
15 HP	20-32	CS91583CODO	CS91583POEO	1	7745

Spares for MK2 Starters [HSN Code 8538]

MK2 Spares	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
	Spare kit with hardware (4 sets of contacts)	CS90956O000	50	550
	Single moving contact	CS90951O000	10	55
	Push button unit	SS90004O000	1	95
	Arc shield	CS91013O000	1	105
	Contact bridge without contact	CS91014O000	1	100

MK1 / MK2 Coil [HSN Code 8538]

MK1 / MK2 Standard Operating Coil	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
	220V	SS90044O000	10	165
	230 / 250V	SS90045O000	10	165
	360V	SS90165O000	10	165
	400 / 440V	SS90047O000	10	165
Wide Band Coil	360V-W (200V - 400V)	SS90993O000	10	190

MK2 Contactors [HSN Code 8536]

MK2 Contactors	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
	360V	CS90945C000	10	1235
	360V-W (200V - 400V)	CS90945S000	10	1235
	400 / 440V	CS90945P000	10	1235

MK2 Relays [HSN Code 8536]

MK2 Relays	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
	13 - 22A	CS90946OODO	10	910
	20 - 32A	CS90946OOEO	10	910



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	3290
	10 HP	13 - 21	SS95647COCO	SS95647DOCO	10	3410
	10 HP	15 - 25	SS95647CODO	SS95647DODO	10	3485
MU1H DOL (with MU relay)	10 HP	15 - 25	CS90622CODO	CS90622DODO	10	3620
	12.5 HP	20 - 32	CS90622COEO	CS90622DOEO	10	3810
MU2 DOL (with MU relay)	12.5 HP	13 - 21	SS95648COCO	SS95648DOCO	10	4230
	15 HP	20 - 32	SS95648COEO	SS95648DOEO	10	4520
	15 HP	24 - 38	SS95648COGO	SS95648DOGO	10	4630
MU3 DOL (with MU relay)	15 HP	24 - 38	CS90613COGO	CS90613DOGO	10	4835
	17.5 HP	28 - 42	CS90613COFO	CS90613DOFO	10	5045
MB1 DOL (with MN relay)	7.5 HP	9 - 15	SS95649COBO	SS95649DOBO	8	3565
	10 HP	14 - 23	SS95649CODO	SS95649DODO	8	3655
MB2 DOL (with MN relay)	12.5 HP	14 - 23	SS95650CODO	SS95650DODO	8	4690
	15 HP	20 - 33	SS95650COEO	SS95650DOEO	8	4905

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	8535
	15 HP	13 - 21	SS95891COCO	SS95891DOCO	1	8645
MU2 SASD (with MU relay)	20 HP	13 - 21	SS95893COCO	SS95893DOCO	1	10570
	30 HP	20 - 32	SS95893COEO	SS95893DOEO	1	10820
MB1 SASD (with MN relay)	15 HP	14 - 23	SS95895CODO	SS95895DODO	1	10175
MB2 SASD (with MN relay)	20 HP	14 - 23	SS95897CODO	SS95897DODO	1	11770
	30 HP	20 - 33	SS95897COEO	SS95897DOEO	1	11995

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	9950
	15 HP	13 - 21	SS95890COCO	SS95890DOCO	1	10055
MU2 FASD (with MU relay)	20 HP	13 - 21	SS95892COCO	SS95892DOCO	1	11625
	30 HP	20 - 32	SS95892COEO	SS95892DOEO	1	11880
MB1 FASD (with MN relay)	12.5 HP	9 - 15	SS95894COBO	SS95894DOBO	1	10640
	15 HP	14 - 23	SS95894CODO	SS95894DODO	1	10745
MB2 FASD (with MN relay)	20 HP	14 - 23	SS95896CODO	SS95896DODO	1	12900
	30 HP	20 - 33	SS95896COEO	SS95896DOEO	1	13145

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	CS94007COOO	10	1775
			MU1 415V	CS94007DOOO	10	1775
MU1H Contactor	20A	55A	MU1H 360V	CS90623COOO	10	1935
			MU1H 415V	CS90623DOOO	10	1935
MU2 Contactor	25A	63A	MU2 360V	CS94008COOO	10	2410
			MU2 415V	CS94008DOOO	10	2410
MU3 Contactor	32A	63A	MU3 360V	CS90609COOO	10	2905
			MU3 415V	CS90609DOOO	10	2905



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	980
	6 - 10A	SS96557OOVO	1	980
MU2 Relay	9 - 14A	SS95979OOAO	1	1115
	13 - 21A	SS95979OOCO	1	1185
	15 - 25A	SS95979OODO	1	1290
	20 - 32A	SS95979OOEO	1	1445
	24 - 38A	SS95979OOGO	1	1585
	28 - 42A	SS95979OOFO	1	1715



MU Contact Bridge

MU Contactor Spares [HSN Code 8538]

Type	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MU1 contact bridge	CS94994OOOO	10	100
MU1H contact bridge	CS91099OOOO	10	100
MU2 contact bridge	CS94994OOOO	10	100
MU3 contact bridge	CS91096OOOO	10	100
MU1 single moving contact	CS94995OOOO	1	100
MU1H single moving contact	CS91102OOOO	1	130
MU2 single moving contact	CS94996OOOO	1	190
MU3 single moving contact	CS91103OOOO	1	250
MU-Add ON Block - 1NO + 1NC (LHS)	SS94072OOOO	10	175



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	CS94010OOOO	1	650
	MU1H	CS90624OOOO	1	860
	MU2	CS94011OOOO	1	1160
	MU3	CS90612OOOO	1	1475
MU Coils	240V	CS94009BOOO	10	495
	360V	CS94009COOO	10	495
	415V	CS94009DOOO	10	495
Spare Relay Extension Knob (Pack of 20 Nos.)	MU1	CS94336OOOO	1	80
	MU2	CS94337OOOO	1	80
Spare Housing	MU1	CS94998OOOO	10	250
	MU1H	CS91098OOOO	10	250
	MU2	CS94999OOOO	10	250
	MU3	CS91060OOOO	10	250



MU Spare Housing



Relay Extension Knob



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	5995
	12.5 HP	13 - 21	SS91854COCO	SS91854POCO	1	5995
	15 HP	20 - 32	SS91854COEO	SS91854POEO	1	5995
ML2 DOL (Heavy duty)	7.5 HP	9 - 14		SS90702POAO	1	9990
	10/12.5 HP	13 - 21	SS90702COCO	SS90702POCO	1	9990
	20 HP	20 - 32	SS90702COEO	SS90702POEO	1	9990



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	13800
	25 HP	20 - 32	SS91856COEO	SS91856POEO	1	13800
ML2 SASD (Heavy duty)	20 HP	13 - 21	SS90707COCO	SS90707POCO	1	24130
	35 HP	20 - 32	SS90707COEO	SS90707POEO	1	24130



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	15665
	20 HP	13 - 21	SS91855COCO	SS91855POCO	1	15665
	25 HP	20 - 32	SS91855COEO	SS91855POEO	1	15665
ML2 FASD (Heavy duty)	12.5 HP	9 - 14		SS90705POAO	1	24880
	20 HP	13 - 21	SS90705COCO	SS90705POCO	1	24880
	35 HP	20 - 32	SS90705COEO	SS90705POEO	1	24880



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	SS91851COOO	1	2970
	ML2W	32	40	2 NO + 2 NC	CS96005LOOO	1	5520
	ML3W	40	45	2 NO + 2 NC	CS90907LOOO	1	8145
	ML4W	70	100	2 NO + 2 NC	CS96006LOOO	1	13320
	ML6W	110	125	2 NO + 2 NC	CS90168LOOO	1	21020



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	SS90873BOOO	10	665
	360V	SS90873COOO	10	665
	380V	SS90873LOOO	10	665
	440V	SS90873POOO	10	665



Standard Operating Coil ML2 / ML3

Standard Operating Coils for ML2/ML2W/ML3/ML3W Contactor	240V	SS90545BOOO	10	1115
	360V	SS90545COOO	10	1115
	380V	SS90545LOOO	10	1115
	440V	SS90545POOO	10	1115

Standard Operating Coils for ML4/ML4W Contactor	240V	SS91258 BOOO	10	2125
	360V	SS91258 COOO	10	2125
	380V	SS91258 LOOO	10	2125
	440V	SS91258 POOO	10	2125



Spare kit

ML1.5 [HSN Code 8538]

Spare kit without coil	ML1.5	SS95305OOOO	50	1605
Moving contacts kit	ML1.5	SS92817OOOO	10	465
Front Housing & Moving Bridge kit	ML1.5	ST28734OOOO	10	485

ML2 [HSN Code 8538]

Spare kit without coil	ML2	SS95307OOOO	10	2615
Moving contacts kit	ML2	SS92818OOOO	10	700
Front Housing & Moving Bridge kit	ML2	ST23866OOOO	10	660



ML1 Relay



ML2 / ML3 Relay

ML Relay [HSN Code 8536]

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
(Directly Operated)	ML1			
	4 - 6.5	SS91858OOTO	10	2090
	6 - 10	SS91858OOVO	10	2090
	10 - 16	SS91858OOBO	10	2090
(Directly Operated)	ML2 / ML3			
	9 - 14	SS91859OOAO	2	3085
	13 - 21	SS91859OOCO	2	3085
	20 - 32	SS91859OOEO	2	3085
	28 - 42	SS91859OOFO	2	3085



Interior View of
MU-2P DOL Starter

MU-2P 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
0.125 HP	1 - 1.6	CS90319KOMO	1	1490
0.25 HP	1.5 - 2.5	CS90319KOPO	1	1490
0.5 HP	2.5 - 4	CS90319KORO	1	1490
0.75 HP	4 - 6.5	CS90319KOTO	1	1490
1 HP	6 - 10	CS90319KOVO	1	1490
2 HP	9 - 14	CS90319KOAO	1	1490
2 HP	11 - 18	CS90319KOCO	1	1530
3 HP	13 - 22	CS90319KODO	1	1580



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	980
1.25 HP	6.5 - 11	SS97227OOVO	1	980
2 HP	10.5 - 17.5	SS97227OOBO	1	980
3 HP	12-20	SS97227OOCO	1	980



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	SS97210OOHO	1	1310
0.25 HP	0.6 - 1	SS97210OOKO	1	1310
0.5 HP	1 - 1.6	SS97210OOMO	1	1310
1.25 HP	1.5 - 2.5	SS97210OOPO	1	1310
2 HP	2.5 - 4	SS97210OORO	1	1310
4 HP	4 - 6.5	SS97210OOTO	1	1310
6 HP	6 - 10	SS97210OOVO	1	1310
7.5 HP	9 - 15	SS97210OOBO	1	1310
7.5 HP	11 - 18	SS97210OOCO	1	1310



MU - Automatic DOL Starters



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)	7.5 HP	9 - 14	CS90898COAO	CS90898DOAO	1	4510
	10 HP	13 - 21	CS90898COCO	CS90898DOCO	1	4590
	10 HP	15 - 25	CS90898CODO	CS90898DODO	1	4685
MU-1HA DOL (with Sz5 SPPR)	10 HP	15 - 25	CS90899CODO	CS90899DODO	1	4800
	12.5 HP	20 - 32	CS90899COEO	CS90899DOEO	1	4935
MU-2A DOL (with Sz5 SPPR)	12.5 HP	13 - 21	CS90900COCO		1	5400
	15 HP	20 - 32	CS90900COEO	CS90900DOEO	1	5620
	15 HP	24 - 38	CS90900COGO	CS90900DOGO	1	5715
MU-3A DOL (with Sz5 SPPR)	15 HP	24 - 38	CS90901COGO	CS90901DOGO	1	5935
	17.5 HP	28 - 42	CS90901COFO	CS90901DOFO	1	6080



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	2495
MF-G1 with Ammeter Only	0.5 HP	6.5 - 11	SS97734OOVC	1 x 25	2290
MF-G1 with Ammeter and Voltmeter	1 HP	6.5 - 11	SS97730OOVE SS97730OOVG	1 x 36 1 x 50	2600
MF-G1 with Ammeter Only	1 HP	6.5 - 11	SS97736OOVE SS97736OOVG	1 x 36 1 x 50	2395
MF-G1 with Ammeter and Voltmeter	1 HP	12 - 20	SS97730 OOCE SS97730OOCG	1 x 36 1 x 50	2600
MF-G1 with Ammeter Only	1 HP	12 - 20	SS97736OOCE SS97736OOCG	1 x 36 1 x 50	2395
MF-G1 with Ammeter and Voltmeter	1.5 HP	6.5 - 11	SS97731OOVG SS97731OOVF	1 x 50 2 x 36	2685
MF-G1 with Ammeter Only	1.5 HP	6.5 - 11	SS97737OOVF	2 x 36	2480
MF-G1 with Ammeter and Voltmeter	1.5 HP	12 - 20	SS97731OOVG SS97731OOVF	1 x 50 2 x 36	2685
MF-G1 with Ammeter Only	1.5 HP	12 - 20	SS97737OOVG SS97737OOVF	1 x 50 2 x 36	2480
MF-G1 with Ammeter and Voltmeter	2 HP	12 - 20	SS97732OOVG SS97732OOVF	1 x 50 2 x 36	2725
MF-G1 with Ammeter Only	2 HP	12 - 20	SS97738OOVG SS97738OOVF SS97738OOCH	1 x 50 2 x 36 2 x 50	2520



Features:

- With Maximum Power Point Tracking (MPPT) to deliver maximum water during the day
- Grid compatible: Can be operated on Solar or on Grid power supply
- Remote ON/OFF, parameter setting, monitoring and troubleshooting through mobile (In-built GSM, GPS and GPRS), LTLK Connect android app
- Reverse Polarity Compatibility: Error proofed, even you connect solar output with any polarity to the panel
- Automatic Start / Stop as per Sun-ray intensity
- With in-built 4P and 3P MCB for Solar and Grid mode
- Suitable for outdoor installation
- Factory prewired panel ensures easy installation and less maintenance

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	40000
		CS91463PO10	MU-G3 SOLAR Controller without RMU	1	36000
5 HP	MU-G5 SOLAR	CS91464PT10	MU-G5 SOLAR Controller with RMU	1	43100
		CS91464PO10	MU-G5 SOLAR Controller without RMU	1	38900
7.5 HP	MU-G7.5 SOLAR	CS91465PT10	MU-G7.5 SOLAR Controller with RMU	1	64000
		CS91465PO10	MU-G7.5 SOLAR Controller without RMU	1	59800
10 HP	MU-G10 SOLAR	CS91466PT10	MU-G10 SOLAR Controller with RMU	1	66700
		CS91466PO10	MU-G10 SOLAR Controller without RMU	1	62500

SOLAR Drive [HSN Code 8536]

Suitable for AC Induction Pump/Motor 3Ø, 400V/415V, 50Hz	Product	Cat. No.	Description	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
3 HP	Solar Drive	LTVF-P40007BAA	Px2000 Solar Drive for MU-G3 SOLAR	1	24500
5 HP		LTVF-P40010BAA	Px2000 Solar Drive for MU-G5 SOLAR	1	27500
7.5 HP		LTVF-P40016BAA	Px2000 Solar Drive for MU-G7.5 SOLAR	1	45800
10 HP		LTVF-P40023BAA	Px2000 Solar Drive for MU-G10 SOLAR	1	53000



Features:

- In-built anti-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)
- 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 [HSN Code 8536]

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	15380
South	English, Hindi, Kannada, Telugu, Tamil	MU-G6S	6 HP	4-22	CS91206CSDO	CS91206PSDO	1	15380
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G6S	6 HP	4-22	CS91206CNDO	CS91206PNDO	1	15380
East	English, Hindi, Odia, Assamese, Bengali	MU-G6S	6 HP	4-22	CS91206CEDO	CS91206PEDO	1	15380

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

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	16280
		MU-G10HS	10	20-42	CS91207CCFO	CS91207DCFO	1	17180
South	English, Hindi, Kannada, Telugu, Tamil	MU-G10S	10	4-22	CS91205CSDO	CS91205DSDO	1	16280
		MU-G10HS	10	20-42	CS91207CSFO	CS91207DSFO	1	17180
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G10S	10	4-22	CS91205CNDO	CS91205DNDO	1	16280
		MU-G10HS	10	20-42	CS91207CNFO	CS91207DNFO	1	17180
East	English, Hindi, Odia, Assamese, Bengali	MU-G10S	10	4-22	CS91205CEDO	CS91205DEDO	1	16280
		MU-G10HS	10	20-42	CS91207CEFO	CS91207DEFO	1	17180

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- All Benefits of SMART Controller
- Suitable for 15 hp to 75 hp application

A Controller for every need of your pump

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 **L&T Electrical & Automation**



MU-G6 / 10 / 15 / 20 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	6090
	5 HP	6 - 10	360V-W (200V-400V)	SS97756COVO	1	6090
	6 HP	9 - 14	360V-W (200V-400V)	SS97756COAO	1	6090

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	6980
	5	3.7	6 - 10	SS95983COVO	SS95983DOVO	1	6980
	7.5	5.5	9 - 14	SS95983COAO	SS95983DOAO	1	7080
	10	7.5	13 - 21	SS95983COCO	SS95983DOCO	1	7170
MU-G10H DOL (Heavy duty)	10	7.5	20 - 32	SS95974COEO	SS95974DOEO	1	8080
	10	7.5	28 - 42	SS95974COFO	SS95974DOFO	1	8315

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	10	7.5	6 - 10	CS94091SOVO	1	11550
	15	11	9 - 14	CS94091SOAO	1	11550
	15	11	11 - 18	CS94091SOCO	1	11600
	15	11	13 - 22	CS94091SODO	1	11650

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	15	11	9 - 14	SS95984COAO	SS95984DOAO	1	13565
	20	15	13 - 21	SS95984COCO	SS95984DOCO	1	13635
MU-G20H FASD (Heavy duty)	20	15	20 - 32	SS95975COEO	SS95975DOEO	1	16340
	20	15	28 - 42	SS95975COFO	SS95975DOFO	1	16685



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	26385
	30 HP	30 - 50	380V	CS96008COGO	1	27010



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	31605
	40 HP	36 - 60	380V	CS90908LOTO	1	32080



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	42705
	50 HP	45 - 75	380V	CS96009COJO	1	44000



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	60760
	75 HP	66 - 110	380V	CS96451LOKO	1	60760

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	MN 2			
	6 - 10	SS94142OOVO	10	1275
	9 - 15	SS94142OOBO	10	1295
	14 - 23	SS94144OODO	10	1425
(Directly Operated) Direct Mounting	20 - 33	SS94145OOEO	10	2120
	MN 5			
	20 - 33	SS94136OOEO	10	2630
	30 - 50	SS94136OOGO	10	2975
	36 - 60	SS94136OOTO	10	3390
	45 - 75	SS94137OOJO	10	3710
	66 - 110	SS94137OOKO	10	4230



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	8800
	5	3.7	6 - 10	CS91037COVO	CS91037DOVO	1	8800
	7.5	5.5	9 - 14	CS91037COAO	CS91037DOAO	1	8905
MU-G10W DOL (Heavy duty) with in-built WLC	10	7.5	13 - 21	CS91037COCO	CS91037DOCO	1	8985
	10	7.5	20 - 32		CS91037DOEO	1	9935
	10	7.5	28 - 42	CS91037COFO		1	10150

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	15085
	20	15	13 - 21	CS91038COCO	CS91038DOCO	1	15150
MU-G20W FASD (Heavy duty) with in-built WLC	20	15	20 - 32	CS91038COEO	CS91038DOEO	1	17735
	20	15	28 - 42		CS91038DOFO	1	18070

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



Interior View of
MU-G30W 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-G30W FASD with in-built WLC	30 HP	30 - 50	380V	CS91039COGO	1	27135



Spares for MU-G Submersible Pump Controller



Terminal Block
60A-3 Way



Terminal Block
30A-5 Way



Terminal Block
60A-6 Way



Terminal Block
100A-3 Way



Toggle Switch



Rocker Switch



Indicating Lamp
Red & Green



Volt-Ammeter

With Settable Time
ON Delay
30sec - 5min



SPPR Type Sz5 (7 Wire & 6 Wire)

With Settable Time
ON Delay
30sec - 5min



SPPR Type SDz5



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)	CS9603200000	1	160
Terminal Block 60A - 3 way (For MU-G10/20)	CS9480600000	1	120
Terminal Block 100A - 3 way (For MU-G30/50)	CS9433800000	1	825
Terminal Block 125A - 3 way (For MU-G75)	CS9017200000	1	2640

Indicating lamp [HSN Code 8531]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Indicating lamp Red 415V	CS94810D0000	1	220
Indicating lamp Green 415V	CS94812D0000	1	220
Spare Lamp, MR-G Controller	CS9612600000	1	50

Rocker switch [HSN Code 8538]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Rocker switch (For MU-G6 to MU-G20)	CS9028400000	1	55
Rocker switch (For MU-G30 to MU-G75)	CS9027200000	1	100
Voltage selector switch	CS9433500000	1	330

Volt-Ammeter [HSN Code 9030]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Volt-Ammeter 500V 30A	CS94817EOEO	1	785
Volt-Ammeter 500V 60A	CS94817EOTO	1	940
Volt-Ammeter 500V, 0-75A	CS9005500000	1	940
Volt-Ammeter 500V, 0-100A	CS9005600000	1	940
Volt-Ammeter 500V, 0-125A	CS9005700000	1	940
30A Ammeter Spare for MR-G Controller	CS9602600000	1	405
Volt-Ammeter (30A, 300V AC) for MR-G Controller	CS9602800000	1	670

SPPR [HSN Code 9032]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
SPPR type Sz5 (7 Wire), 380V	ST9216600000	1	645
SPPR type Sz5 (6 Wire), 360V (For MU-G10/10H)	CS94824C0000	1	645
SPPR type Sz5 (6 Wire), 380V (For MU-G6)	CS94824L0000	1	645
SPPR type Sz5 (6 Wire), 415V (For MU-G10/10H)	CS94824D0000	1	645
SPPR type SDz5, 360V (For MU-G20/20H)	XM8180800000	1	1275
SPPR type SDz5, 380V (For MU-G30/40/50/75)	XM8180700000	1	1275
SPPR type SDz5, 415V (For MU-G15/20/20H)	XM8180900000	1	1275

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

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	ST8032800000	1	1430

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



Manual version

FEATURES

Auto version

Microcontroller Based Solution	All features of Basic Version
Dry Run Protection	Inbuilt Water Level Controller
UV/OV Protection	WLC bypass feature
Current, Voltage Metering	Auto start capacitor switching
Start & Run Capacitor	Power on delay
Bore Cleaning Feature	Dry Run auto reset timer
Off Timer	Auto & Manual mode
Digital Display	RTC based daily ON/OFF timer
Capacitor cut-off	Timer count down display
Water Tank Status Indication	Cyclic timer
Automatic Current Setting	Timer Compensation

MR-Gi (Manual) [HSN Code 8536]

Type	Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz	Cat. No.	Start Capacitor 275V, 50Hz MFD	Run Capacitor 440V, 50Hz MFD	M.R.P. (₹) Per Unit
MR-Gi (Manual)	0.5 Hp	CS91321NAOC	80/100	1X25	3220
		CS91321NAOE	80/100	1X36	
	1 Hp	CS91322NBOE	100/120	1X36	3385
		CS91322NBOG	100/120	1X50	
		CS91322NCOE	120/150	1X36	
		CS91322NCOG	120/150	1X50	
	1.5 Hp	CS91323NCOG	120/150	1X50	3540
		CS91323NCOF	120/150	2X36	
		CS91323NCOJ	120/150	1X72	
		CS91323NDOG	150/200	1X50	
		CS91323NDOF	150/200	2X36	
	2 Hp	CS91324NDOF	150/200	2X36	3695
		CS91324NDOH	150/200	2X50	
		CS91324NDOJ	150/200	1X72	
		CS91324NEOF	200/250	2X36	
		CS91324NEOG	200/250	1X50	
		CS91324NEOJ	200/250	1X72	
	3 Hp	CS91325NEOH	200/250	2X50	3850



MR-GiB (Auto) [HSN Code 8536]

Type	Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz	Cat. No.	Start Capacitor 275V, 50Hz MFD	Run Capacitor 440V, 50Hz MFD	M.R.P. (₹) Per Unit
MR-GiB (Auto)	0.5 Hp	CS91718NAOC	80/100	1X25	4045
		CS91718NAOE	80/100	1X36	
	1 Hp	CS91719NBOE	100/120	1X36	4200
		CS91719NBOG	100/120	1X50	
		CS91719NCOE	120/150	1X36	
		CS91719NCOG	120/150	1X50	
	1.5 Hp	CS91720NCOG	120/150	1X50	4355
		CS91720NCOF	120/150	2X36	
		CS91720NCOJ	120/150	1X72	
		CS91720NDOG	150/200	1X50	
		CS91720NDOF	150/200	2X36	
	2 Hp	CS91721NDOF	150/200	2X36	4510
		CS91721NDOH	150/200	2X50	
		CS91721NDOJ	150/200	1X72	
		CS91721NEOF	200/250	2X36	
		CS91721NEOG	200/250	1X50	
		CS91721NEOJ	200/250	1X72	
	3 Hp	CS91722NEOH	200/250	2X50	4665

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

Type	Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz	Cat. No.	Start Capacitor 275V, 50Hz MFD	Run Capacitor 440V, 50Hz MFD	M.R.P. (₹) Per Unit
MR-GiA (Auto with WLC)	0.5 Hp	CS91331NAOC	80/100	1X25	4460
		CS91331NAOE	80/100	1X36	
	1 Hp	CS91332NBOE	100/120	1X36	4615
		CS91332NBOG	100/120	1X50	
		CS91332NCOE	120/150	1X36	
		CS91332NCOG	120/150	1X50	
	1.5 Hp	CS91333NCOG	120/150	1X50	4770
		CS91333NCOF	120/150	2X36	
		CS91333NCOJ	120/150	1X72	
		CS91333NDOG	150/200	1X50	
		CS91333NDOF	150/200	2X36	
	2 Hp	CS91334NDOF	150/200	2X36	4925
		CS91334NDOH	150/200	2X50	
		CS91334NDOJ	150/200	1X72	
		CS91334NEOF	200/250	2X36	
		CS91334NEOG	200/250	1X50	
		CS91334NEOJ	200/250	1X72	
	3 Hp	CS91335NEOH	200/250	2X50	5080



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 MFD	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	-	3530
		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	3390
		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	-	3845
		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	-	Yes	3695
		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	-	4145
		SS97722BCAF	9 - 14	120/150	2 x 36			
		SS97722BDAG	9 - 14	150/200	1 x 50			
		SS97722BDAF	9 - 14	150/200	2 x 36			
		SS97722BCCG	11 - 18	120/150	1 x 50			
		SS97722BCCF	11 - 18	120/150	2 x 36			
		SS97722BDCG	11 - 18	150/200	1 x 50			
		SS97722BDCF	11 - 18	150/200	2 x 36			
		SS96989BCAG	9 - 14	120/150	1 x 50	-	Yes	4025
		SS96989BCAF	9 - 14	120/150	2 x 36			
		SS96989BDAG	9 - 14	150/200	1 x 50			
		SS96989BDAF	9 - 14	150/200	2 x 36			
		SS96989BCCG	11 - 18	120/150	1 x 50			
		SS96989BCCF	11 - 18	120/150	2 x 36			
		SS96989BDCG	11 - 18	150/200	1 x 50			
		SS96989BDCF	11 - 18	150/200	2 x 36			
	2 HP	SS97723BDCF	11 - 18	150/200	2 x 36	Yes	-	4365
		SS97723BECF	11 - 18	200/250	2 x 36			
		SS97723BDDF	13 - 22	150/200	2 x 36			
		SS97723BEDF	13 - 22	200/250	2 x 36			
		SS97723BEDG	13 - 22	200/250	1 x 50	-	Yes	4210
		SS96990BDCF	11 - 18	150/200	2 x 36			
		SS96990BECF	11 - 18	200/250	2 x 36			
		SS96990BDDF	13 - 22	150/200	2 x 36			
	3 HP	SS97724BEDH	13 - 22	200/250	2 x 50	Yes	-	4825
		CS96468BEBH	16 - 26	200/250	2 x 50			
		SS97725BEDH	13 - 22	200/250	2 x 50	-	Yes	4615
		CS96461BEBH	16 - 26	200/250	2 x 50			
MR-G3	5 HP	CS90490BEEJ	20 - 32	200/250	3 x 50	Yes	-	6785



MR-G2W Single Phase Submersible Controller (with WLC)



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



Interior View of MR-G2W

Maximum Submersible Pump Rating at 1Φ, 230V, 50Hz	Cat. No.	Relay Range (A)	Start Capacitor 275V, 50Hz MFD	Run Capacitor 440V, 50Hz MFD	M.R.P. (₹) Per Unit
0.5HP	CS91040BATC	4 - 6.5	80/100	1x25	7145
	CS91040BAVE	6 - 10	80/100	1x36	
1HP	CS91041BBVE	6 - 10	100/120	1x36	7445
	CS91041BBVG	6 - 10	100/120	1x50	
	CS91041BCVE	6 - 10	120/150	1x36	
	CS91041BCVG	6 - 10	120/150	1x50	
	CS91041BBAE	9 - 14	100/120	1x36	
	CS91041BBAG	9 - 14	100/120	1x50	
	CS91041BCAE	9 - 14	120/150	1x36	
	CS91041BCAG	9 - 14	120/150	1x50	
1.5HP	CS91042BCAG	9 - 14	120/150	1x50	7815
	CS91042BDAG	9 - 14	150/200	1x50	
	CS91042BDAF	9 - 14	150/200	2x36	
	CS91042BCCF	11 - 18	120/150	2x36	
	CS91042BDCG	11 - 18	150/200	1x50	
	CS91042BDCF	11 - 18	150/200	2x36	
2HP	CS91043BECF	11 - 18	200/250	2x36	7990
	CS91043BDDF	13 - 22	150/200	2x36	
	CS91043BEDF	13 - 22	200/250	2x36	
	CS91043BEDG	13 - 22	200/250	1x50	
3HP	CS91044BEDH	13 - 22	200/250	2x36	8275



WLC

Water Level Controller [HSN Code 9032]

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Water Level Controller (240V)(Double Tank application)	XM81052O000	1	1140
Water Level Controller (415V)(Double Tank application)	XM81053O000	1	1140
Water Level Controller (240V) (Single Tank application)	XM81055O000	1	1085
Water Level Controller (415V) (Single Tank application)	XM81056O000	1	1085
WLC probes (set of 3 nos.)	XM81051O000	1	370
WLC probes (set of 6 nos.)	XM81076O000	1	745



Spares for MR-G Submersible Pump Controller



**MR 11W
Contactor**



**MR11W Aux.
Contact Block**



**Start
Push Button**



**Stop
Push Button**



**MU - 2P
Contactor**



**MU - 2P
Relay**



MU-2P Coil



Ammeter



Spare Lamp

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	210
MR 11W, Spare Coil, 240V, 50Hz	CS94102B000	10	440

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	620
	25A	MU 25 - 2P (160-220V)	CS90118N000	10	805
	40A	MU 40 - 2P (160-220V)	CS90119N000	10	1055

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	800

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	490
	1.5 - 2.5A	CS90207O0PO	1	490
	2.5 - 4A	CS90207O0RO	1	490
	4 - 6.5A	CS90207O0TO	1	490
	6 - 10A	CS90207O0VO	1	490
	9 - 14A	CS90207O0AO	1	490
	11 - 18A	CS90207O0CO	1	560
	13 - 22A	CS90207O0DO	1	560
	16 - 26A	CS90207O0BO	1	560
	20 - 32A	CS90207O0EO	1	705

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	CS90217O000	1	210
	MU 25 - 2P	CS90218O000	1	275
	MU 40 - 2P	CS90219O000	1	405
MU - 2P Spare Coil & Top Add-on	MU-2P Coil (220V)	CS90793N000	1	270
	MU-2P Coil (300V)	CS90793R000	1	270
	MU-2P Top Add-on (1 NO)	CS90695O000	1	155

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)	CS96131O000	1	645
Wiring Harness, MU-G10 (Flexible Type)	CS96130O000	1	915
Wiring Harness, MU-G10H (Flexible Type)	CS96134O000	1	1190
Wiring Harness, MU-G15 (Flexible Type)	CS90567O000	1	1350
Wiring Harness, MU-G20 (SDz5 SPPR) (Flexible Type)	CS96129O000	1	2025
Wiring Harness, MU-G20H (SDz5 SPPR) (Flexible Type)	CS96135O000	1	2160
Wiring Harness, MU-G30 (Flexible Type)	CS96128O000	1	2655
Wiring Harness, MU-G50 (Flexible Type)	CS96127O000	1	3610
Wiring Harness, MU-G75 (Flexible Type)	CS90171O000	1	4965
Wiring Harness 2.5 sq. mm, MR-G2 (Flexible Type, For upto 11 - 18A Relay)	CS96133O000	1	745



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 (Adjustable current setting and adjustable reset time)

Recommended i-PROTECTOR for L&T 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	ML1.5 / ML2 / 3	MU-2P	MU-G6	MU-G10 / MU-G10H	MR-G2 / MR-G3	MK1	MU1 / MU2	MB1 / MB2	ML1.5 / ML2 / 3	MU-G15	MU-G20 / MU-G20H
i-AD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
i-ADS / i-ADSM	✓	✓	✓	✓		✓*	✓*		✓	✓	✗	✓	✓*	✓*
i-VDS / i-VDSM	✓	✓	✓	✓		✓*	✓*		✓	✓	✗	✓	✓*	✓*

* 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 SPSPR

✓ 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-AD	Dry run protection relay (current based)	CS90861BOOO				1	900
i-AD	Dry run protection relay (current based)		CS90861COOO	CS90861LOOO	CS90861DOOO	1	920
i-ADS	Single phasing preventer & dry run protection relay (current based)		CS90862COOO	CS90862LOOO	CS90862DOOO	1	1650
i-ADSM	Single phasing preventer & dry run protection relay + VI meter (current based)		CS90863COOO	CS90863LOOO	CS90863DOOO	1	2095
i-VDS	Single phasing preventer & dry run protection relay (voltage based)		CS90866COOO	CS90866LOOO	CS90866DOOO	1	1480
i-VDSM	Single phasing preventer & dry run protection relay + VI meter (voltage based)		CS90875COOO	CS90875LOOO	CS90875DOOO	1	2095



LTLK MCB with K-Curve

Exclusively for Agricultural Pumps



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
 - Saving in fuse replacement time and saving in money
 - Longer life
 - Safer in operation
 - Easy to switch ON/OFF during maintenance

MCB Selection for Controllers

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

MCB CAT NOS. & Ratings [HSN Code 8536]



MCB Pole	Cat. No.	MCB Rating (A)	Module 1Mod=17.5mm	Std. Pkg. (Nos.)*	M.R.P. (₹) Per Unit
2 - Pole	LK20060K	6	2	6	475
	LK20100K	10	2	6	475
	LK20160K	16	2	6	475
	LK20200K	20	2	6	475
	LK20250K	25	2	6	475
	LK20320K	32	2	6	475
	LK20500K	50	2	6	770



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	775
	LK30100K	10	3	4	775
	LK30160K	16	3	4	775
	LK30200K	20	3	4	775
	LK30250K	25	3	4	775
	LK30320K	32	3	4	775
	LK30400K	40	3	4	1195
	LK30500K	50	3	4	1195
	LK30630K	63	3	4	1195
	LK31000K	100	4.5	1	5020
	LK31250K	125	4.5	1	5570

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



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



Features

- 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
- Only 3 wire connection ensures easy installation with DOL and Star Delta starters
- 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



MU-G6S SMART Controller [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	CS91313O000	1	5700
South	English, Hindi, Kannada, Telugu, Tamil		CS91313MOSO	CS91313LOSO	CS91313OOSO	1	5700
East	English, Hindi, Odia, Assamese, Bengali		CS91313MOEO	CS91313LOEO	CS91313OOEO	1	5700



Wire Type Antenna

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	3650
	English, Hindi, Kannada, Telugu, Tamil	South	GSM0301OOSO	1	3650
	English, Hindi, Bengali, Odiya, Assamese	East	GSM0301OOEO	1	3650



Controller-side Wire Harness
& Module-side Wire Harness

M-POWER Accessories

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Wire Type Antenna [8538]	GSM0301A000	1	380
Controller-side Wire Harness [8544]	GSM0301C000	1	135
Module-side Wire Harness [8544]	GSM0301G000	1	200



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	440V	LTBCA301B2	1	158
2 kVAr	440V	LTBCA302B2	1	317
3 kVAr	440V	LTBCA303B2	1	475
4 kVAr	440V	LTBCA304B2	1	633
5 kVAr	440V	LTBCA305B2	1	792
6 kVAr	440V	LTBCA306B2	1	950
7.5 kVAr	440V	LTBCA307B2	1	1188
8.33 kVAr	440V	LTBCA308B2	1	1319
10 kVAr	440V	LTBCA310B2	1	1583
12.5 kVAr	440V	LTBCA312B2	1	1979
15 kVAr	440V	LTBCA315B2	1	2375
20 kVAr	440V	LTBCA320B2	1	3167
25 kVAr	440V	LTBCA325B2	1	3958
30 kVAr	440V	LTBCA330B2	1	4750

Cylindrical Capacitors [HSN Code 8532]

Rating	Voltage	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
1 kVAr	440V	LTCCA301B2	1	132
2 kVAr	440V	LTCCA302B2	1	263
3 kVAr	440V	LTCCA303B2	1	395
4 kVAr	440V	LTCCA304B2	1	527
5 kVAr	440V	LTCCA305B2	1	658
6 kVAr	440V	LTCCA306B2	1	790
7.5 kVAr	440V	LTCCA307B2	1	987
8.33 kVAr	440V	LTCCA308B2	1	1097
10 kVAr	440V	LTCCA310B2	1	1316
12.5 kVAr	440V	LTCCA312B2	1	1645
15 kVAr	440V	LTCCA315B2	1	1974
20 kVAr	440V	LTCCA320B2	1	2633
25 kVAr	440V	LTCCA325B2	1	3291
30 kVAr	440V	LTCCA330B2	1	3949

Cylindrical Capacitors with Clamps [HSN Code 8532]

Rating	Voltage	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
1 kVAr	440V	LTCCC301B2	1	151
2 kVAr	440V	LTCCC302B2	1	282
3 kVAr	440V	LTCCC303B2	1	414
4 kVAr	440V	LTCCC304B2	1	546
5 kVAr	440V	LTCCC305B2	1	677
6 kVAr	440V	LTCCC306B2	1	809
7.5 kVAr	440V	LTCCC307B2	1	1006
8.33 kVAr	440V	LTCCC308B2	1	1116
10 kVAr	440V	LTCCC310B2	1	1335
15 kVAr	440V	LTCCC315B2	1	1994
20 kVAr	440V	LTCCC320B2	1	2652
25 kVAr	440V	LTCCA325B2	1	3310
30 kVAr	440V	LTCCA330B2	1	3978



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	158
2 kVAr	415V	LTBCA302A2	1	317
3 kVAr	415V	LTBCA303A2	1	475
4 kVAr	415V	LTBCA304A2	1	633
5 kVAr	415V	LTBCA305A2	1	792
6 kVAr	415V	LTBCA306A2	1	950
7.5 kVAr	415V	LTBCA307A2	1	1188
8.33 kVAr	415V	LTBCA308A2	1	1319
10 kVAr	415V	LTBCA310A2	1	1583
12.5 kVAr	415V	LTBCA312A2	1	1979
15 kVAr	415V	LTBCA315A2	1	2375
20 kVAr	415V	LTBCA320A2	1	3167
25 kVAr	415V	LTBCA325A2	1	3958
30 kVAr	415V	LTBCA330A2	1	4750

Cylindrical Capacitors [HSN Code 8532]

Rating	Voltage	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
1 kVAr	415V	LTCCA301A2	1	132
2 kVAr	415V	LTCCA302A2	1	263
3 kVAr	415V	LTCCA303A2	1	395
4 kVAr	415V	LTCCA304A2	1	527
5 kVAr	415V	LTCCA305A2	1	658
6 kVAr	415V	LTCCA306A2	1	790
7.5 kVAr	415V	LTCCA307A2	1	987
8.33 kVAr	415V	LTCCA308A2	1	1097
10 kVAr	415V	LTCCA310A2	1	1316
12.5 kVAr	415V	LTCCA312A2	1	1645
15 kVAr	415V	LTCCA315A2	1	1974
20 kVAr	415V	LTCCA320A2	1	2633
25 kVAr	415V	LTCCA325A2	1	3291
30 kVAr	415V	LTCCA330A2	1	3949



MDF Capacitors for Single Phase Application



Spare Cylindrical Condensers with Wire [HSN Code 8532]



Type	Rating	Voltage	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
Run	10 μ F	440V	LTCCMRW010B2	21	57
	12.5 μ F	440V	LTCCMRW125B2	21	63
	15 μ F	440V	LTCCMRW015B2	21	82
	20 μ F	440V	LTCCMRW020B2	21	96
	25 μ F	440V	LTCCMRW025B2	12	104
	30 μ F	440V	LTCCMRW030B2	12	112
	36 μ F	440V	LTCCMRW036B2	12	116
	40 μ F	440V	LTCCMRW040B2	12	149
	45 μ F	440V	LTCCMRW045B2	12	166
	50 μ F	440V	LTCCMRW050B2	12	176
	72 μ F	440V	LTCCMRW072B2	12	224
Start	100 μ F	275V	LTCCMSW100P2	12	165
	120 μ F	275V	LTCCMSW120P2	12	194
	150 μ F	275V	LTCCMSW150P2	12	227
	200 μ F	275V	LTCCMSW200P2	12	258
	250 μ F	275V	LTCCMSW250P2	12	291

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 μ F	440V	LTCCMR025B2	12	122
	36 μ F	440V	LTCCMR036B2	12	137
	50 μ F	440V	LTCCMR050B2	12	208
Start	100 μ F	275V	LTCCMS100P2	12	195
	120 μ F	275V	LTCCMS120P2	12	228
	150 μ F	275V	LTCCMS150P2	12	267
	200 μ F	275V	LTCCMS200P2	12	304
	250 μ F	275V	LTCCMS250P2	12	342



Submersible Flat Cable



Submersible Cables (Flat Cables) as per IS694:1990 (Extra Thick Insulation) [HSN Code 8544]

New
New

Nominal Cross Section Area of Conductor (Sq. mm)	Construction Details (mm)	Current Carrying Capacity at 40°C (A)	Cat. No.	M.R.P. (₹) Per Meter
1.5	22 / 0.290	14	WST0015PECM*	73.46
2.5	36 / 0.290	18	WST0025PECM*	113.38
4	56 / 0.285	26	WST0040PECM*	159.09
6	84 / 0.300	31	WST0060PECM*	238.49
8	120 / 0.290	36	WST0080PECM*	359.33

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 (mm)	Current Carrying Capacity at 40°C (A)	Cat. No.	M.R.P. (₹) Per Meter
1	14 / 0.290	11	WS00010PECM*	55.94
1.5	22 / 0.290	14	WS00015PECM*	69.20
2.5	36 / 0.290	18	WS00025PECM*	108.13
4	56 / 0.285	26	WS00040PECM*	154.91
6	84 / 0.285	31	WS00060PECM*	230.59
8	125 / 0.290	36	WS00080PECM*	350.40
10	80 / 0.385	42	WS00100PECM*	402.44
16	126 / 0.385	57	WS00160PECM*	599.41

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

New

Submersible Cables (Flat Cables) as per IS694:1990 (Extra Thick XLPE) [HSN Code 8544]

Nominal Cross Section Area of Conductor (Sq. mm)	Construction Details (mm)	Current Carrying Capacity at 40°C (A)	Cat. No.	M.R.P. (₹) Per Meter
1.5	22 / 0.300	22	WST0015XECM*	77.25
2.5	36 / 0.300	30	WST0025XECM*	120.14
4	56 / 0.300	37	WST0040XECM*	171.25
6	84 / 0.300	46	WST0060XECM*	251.70

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

New

Submersible Cables (Flat Cables) as per IS694:1990 (XLPE) [HSN Code 8544]

Nominal Cross Section Area of Conductor (Sq. mm)	Construction Details (mm)	Current Carrying Capacity at 40°C (A)	Cat. No.	M.R.P. (₹) Per Meter
1.5	22 / 0.300	14	WS00015XECM*	72.90
2.5	36 / 0.300	18	WS00025XECM*	113.99
4	56 / 0.300	26	WS00040XECM*	163.23
6	84 / 0.300	46	WS00060XECM*	245.99

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

General Terms

All prices are on maximum retail price basis inclusive of all Duties, GST and any other Tax as applicable

Prices are subject to revision without notice.

Warranty Policy

All the products 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 has over five decades of experience in providing after sales service for low voltage distribution systems in every type of industry & commercial complex in India.

L&T 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

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