

Life Is On

Schneider
Electric



M.G. CABLE INDUSTRIES

Manufacturers : GI Cable Trays & All Earthing Materials

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Authorised Stockist :



 PriceList

Switching and Controlling Products

With effect from January 11th, 2021



se.com/in

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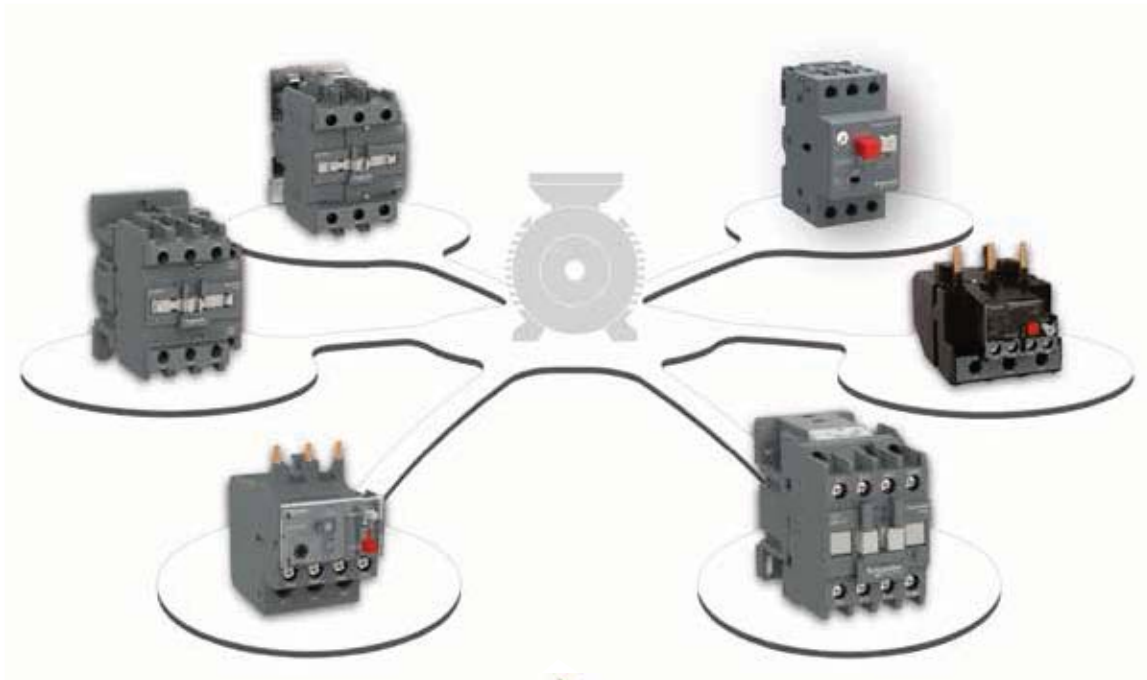
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EasyPact TVS

The Easy choice for simplicity and flexibility

- 3 Pole and 4 Pole Power Contactor
- Control Relays
- Thermal Overload Relay
- Circuit Breaker for Motor Protection
- Accessories



EasyPact TVS
Catalogue

Designed for the Essential



Selection Charts for
Motor Feeders for
IE2/IE3 Motors with
EasyPact TVS

Power Contactors - ETVS(3 Pole AC Control)



- Conformance to IEC 60947-4-1, CE Marking
- Current Rating: 6A to 630A, AC-3 Rating
- Type 2 RSC available with Fuse, MPCB and MCCB

Frame	[Ie] Rated Operational Current		Motor Power at 415V, 3Ph, 50Hz		Auxiliary Contacts		Reference	Unit MRP [₹]
	AC-1	AC-3	HP	kW	NO	NC		
FRAME-1	20	6	3	2.2	-	1	LC1E0601* ☒	950
					1	-	LC1E0610* ☒	
	25	9	5.5	4	-	1	LC1E0901* ☒	980
					1	-	LC1E0910* ☒	
	25	12	7.5	5.5	-	1	LC1E1201* ☒	1115
					1	-	LC1E1210* ☒	
FRAME-2	32	18	12	9	-	1	LC1E1801* ☒	1285
					1	-	LC1E1810* ☒	
	36	25	15	11	-	1	LC1E2501* ☒	1755
					1	-	LC1E2510* ☒	
	50	32	20	15	-	1	LC1E3201* ☒	3675
					1	-	LC1E3210* ☒	
FRAME-3	50	38	25	18.5	-	1	LC1E3801* ☒	4340
					1	-	LC1E3810* ☒	
	50	40	29	22	-	1	LC1E40B01**	4630
					1	-	LC1E40B10**	
FRAME-3	60	40	29	22	1	1	LC1E40* ☒	5675
	70	50	34	25/30	1	1	LC1E50*	6900
	80	65	50	37	1	1	LC1E65* ☒	9350

Frame	[Ie] Rated Operational Current		Motor Power at 415V, 3Ph, 50Hz		Auxiliary Contacts		Reference	Unit MRP [₹]
	AC-1	AC-3	HP	kW	NO	NC		
FRAME-4	110	80	60	45	1	1	LC1E80* ☒	12155
	120	95	60	45	1	1	LC1E95* ☒	14580
FRAME-5	150	120	75	55	1	1	LC1E120*	17365
	200	160	120	90	1	1	LC1E160*	22930
FRAME-6	250	200	150	110	-	-	LC1E200*	31555
	300	250	175	132	-	-	LC1E250*	41585
FRAME-7	320	300	215	160	-	-	LC1E300*	49785
	500	400	295	220	-	-	LC1E400*	63285
FRAME-8	700	500	375	280	-	-	LC1E500*	89140
FRAME-9	1000	630	500	375	-	-	LC1E630*	126550

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

Spare Coil for Contactors

Contactors	Reference
3 Pole Contactors	
LC1E06...E25	LAEX12**
LC1E32/E38	LAEX2**
LC1E40/E65	LAEX3**
LC1E80/E95	LAEX4**
LC1E120/E160	LAEX5**
LC1E200/E250	LAEX6**
LC1E300	LAEX7**

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

Coil Voltage Code

* VOLTAGE (V AC)	24	110	220	415
LC1E06..LC1E95	B7	F7	M7	N5
LC1E120..LC1E300	B5	F5	M5	N5
LC1E400..LC1E630	B7	F7	M7	N7
LC1E06.. LC1E40B	-	-	M5WB	N5WB

Please check with customer care for price and availability of non standard voltages

** For more information contact regional sales office

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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EasyPact TVS

Power Contactors - ETVS (4 Pole AC Control)



- Conformance to IEC 60947-4-1, CE Marking
- Current Rating: 20A to 125A, AC-1 rating
- Available in 4NO and 2NO+2NC Power Pole combination
- Wide Band Coil for all ratings in 220 & 415V AC

Frame	AC-1 Rating	Power Poles	Reference	Unit MRP [₹]	Power Poles	Reference	Unit MRP [₹]
FRAME-1	20	4NO	LC1E06004*IN	1200	2NO + 2NC	LC1E06008*IN	1435
	25	4NO	LC1E09004*IN	1270	2NO + 2NC	LC1E09008*IN	1545
	32	4NO	LC1E12004*IN	1325	2NO + 2NC	LC1E12008*IN	1655
	40	4NO	LC1E18004*IN	1655	2NO + 2NC	LC1E18008*IN	1665
FRAME-2	50	4NO	LC1E25004*IN	2095	2NO + 2NC	LC1E25008*IN	2975
	55	4NO	LC1E32004*IN	3530	2NO + 2NC	LC1E32008*IN	4740
	60	4NO	LC1E38004*IN	4135	2NO + 2NC	LC1E38008*IN	5845
FRAME-3	75	4NO	LC1E40004*IN	6565	2NO + 2NC	LC1E40008*IN	8820
	85	4NO	LC1E65004*IN	8880	2NO + 2NC	LC1E65008*IN	11025

Frame	AC-1 Rating	Power Poles	Reference	Unit MRP [₹]	Power Poles	Reference	Unit MRP [₹]
FRAME-4	110	4NO	LC1E80004*IN	11245	2NO + 2NC	LC1E80008*IN	15655
	125	4NO	LC1E95004*	12680			

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

Control Relays - CAE, Conformance to IEC60947-5-1, CE Marking

Auxiliary Contacts		Reference	Unit MRP [₹]
NO	NC		
4	0	CAE40*	1050
3	1	CAE31*	
2	2	CAE22*	

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

Spare Coil for Contactors

Contactors	Reference
4 Pole Contactors	
LC1E0600*....LC1E1800*	LAEX1T**
LC1E2500*....LC1E3800*	LAEX2T**
LC1E4000*....LC1E9500*	LAEX4T**
Control Contactors	
CAE*	LAEX12**

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

Coil Voltage Code

* Voltage (V AC)	24	110	220	415
LC1E0600*...9500* 50/60 Hz	B7	F7	-	-
LC1E0600*...9500* 50 Hz/ Wide Band	-	-	M5WB	N5WB
Control relay CAE 50 Hz	B5	F5	M5	N5

Note:

For non standard voltages please consult Customer Care for prices

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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Accessories - For ETVS Contactors

Description	For Use with	Mounting	Contacts	Reference	Unit MRP [₹]
Auxiliary contact block	LC1E06..E630 & LC1E0600..E9500	FRONT	1NO+1NC	LAEN11 ☒	305
			2NO	LAEN20 ☒	
			2NC	LAEN02 ☒	360
			2NO+2NC	LAEN22 ☒	560
			4NO	LAEN40 ☒	
Star delta timer	LC1E25..E630			LAETSD ☒	2535

For 415v control supply please contact customer care team

Description	For Use with	Coil Voltage	Reference	Unit MRP [₹]
Surge suppressor*	LC1E06...E95	24..48V AC	LAERCE	975
	LC1E06...E95	110..240V AC	LAERCU	715

*For higher rating contactors, contact nearest sales office

Description	For Use with	Reference	Unit MRP [₹]
Mechanical Interlock	LC1E06..E65 & LC1E0600*..E3800*	LAEM1	635
	LC1E80/E95 & LC1E4000*...LC1E9500*	LAEM4	2070
	LC1E120..E160	LAEM5	3860
	LC1E200/E250	LAEM6	3935

*Reference to be completed by adding coil voltage

3 Pole Accessories compatibility

Contactor	Built in contacts	LAEN**	LAERC*	LAEM
LC1E06	1NO or 1NC	1	1	1
LC1E09				
LC1E12				
LC1E18				
LC1E25				
LC1E32				
LC1E38				
LC1E40B	1NO + 1NC	1	1	1
LC1E40				
LC1E50				
LC1E65				
LC1E80				
LC1E95				
LC1E120				
LC1E160	-	2	-	-
LC1E200				
LC1E250				
LC1E300				
LC1E400				
LC1E500				
LC1E630				

4 Pole Accessories compatibility

Contactor	LAEN**	LAEM	LAERC*
LC1E06	1	1	1
LC1E09			
LC1E12			
LC1E18			
LC1E25			
LC1E32			
LC1E38			
LC1E40			
LC1E50			
LC1E65			
LC1E80	-	-	-
LC1E95			

Control Relay Accessories Compatibility

Control Relay	LAEN*	LAERC
CAE	1 of LAEN11 or LAEN20 or LAEN02 or LAEN22	1

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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Thermal Overload Relay - ETVS



- Conformance to IEC 60947-4-1, CE Marking
- Range : 0.1A to 630A
- Tripping Class : 10A
- Direct & Independent mounting

Thermal Protection Adjustment Range	For Use with Contactor	Reference	Unit MRP [₹]
LRE			
0.25...0.4	E06...E38	LRE03	1665
0.4...0.63	E06...E38	LRE04	
0.63...1	E06...E38	LRE05 ✓	
1...1.6	E06...E38	LRE06 ✓	
1.6...2.5	E06...E38	LRE07 ✓	
2.5...4	E06...E38	LRE08 ✓	
4...6	E06...E38	LRE10 ✓	
5.5...8	E09...E38	LRE12 ✓	
7...10	E09...E38	LRE14 ✓	
9...13	E12...E38	LRE16 ✓	
12...18	E18...E38	LRE21 ✓	1845
16...24	E25...E38	LRE22 ✓	2135
23...32	E25...E38	LRE32 ✓	2855
30...38	E38	LRE35 ✓	3210
17...25	E40...E95	LRE322	3625
23...32	E40...E95	LRE353	
30...40	E40...E95	LRE355	
37...50	E50...E95	LRE357 ✓	
48...65	E65...E95	LRE359	4750

Thermal Protection Adjustment Range	For Use with Contactor	Reference	Unit MRP [₹]
LRE			
55...70	E80...E95	LRE361	5520
63...80	E80...E95	LRE363	5645
80...104	E95	LRE365	
51...81	E120...E300	LRE480	10575
62...99	E120...E300	LRE481	
84...135	E120...E300	LRE482	
124...198	E160...E300	LRE483	
146...234	E200...E300	LRE484	
174...279	E250...E300	LRE485	
208...333	E300	LRE486	11520
258...414	E300...E400	LRE487	14015

Accessories for Relay

Accessory	For Relay	Reference	Unit MRP [₹]
Separate Mounting Block	LRE01...LRE35	LAEB1	575
	LRE322...LRE365	LAEB3	1325

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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Circuit Breaker for Motor Protection - GZ1E - Pushbutton control



- Conformance to IEC60947-1,-2,-4, CE Marking
- Range : 0.1A to 32A
- Breaking Capacity upto 100KA

Motor Protection Circuit Breaker - ETVS

Breaking Capacity at 415 V 50 Hz	Motor Power AC3**		Thermal Protection Adjustment Range (A)	Reference	Unit MRP [₹]
	kW	hP			
GZ1-E Thermal Magnetic - With Pushbutton Control					
100 kA	-	-	0.1 - 0.16	GZ1E01	3025
	0.06	-	0.16 - 0.25	GZ1E02	
	0.09	-	0.25 - 0.40	GZ1E03	
	0.18	-	0.40 - 0.63	GZ1E04	3520
	0.37	0.5	0.63 – 1.0	GZ1E05	
	0.55	0.75	1.0 – 1.6	GZ1E06	3450
	0.75	1	1.6 – 2.5	GZ1E07	
	1.1	2	2.5 – 4	GZ1E08	3585
	2.2	3	4 – 6.3	GZ1E10	
	3	5.5	6 – 10	GZ1E14	3825
10 kA*	5.5	7.5	9 – 14	GZ1E16	4310
	7.5	10	13 – 18	GZ1E20	4685
	9	12.5	17 – 23	GZ1E21	4940
	11	15	20 – 25	GZ1E22	5185
	15	20	24 –32	GZ1E32	9255

NEW

Breaking Capacity at 415 V 50 Hz	Motor Power AC3**		Magnetic Protection (A)	Reference	Unit MRP [₹]
	kW	hP			
GZ1-LE Magnetic- With Pushbutton Control					
100 kA	0.09	-	0.4	GZ1LE03	2500
	0.18	-	0.63	GZ1LE04	
	0.37	0.5	1	GZ1LE05	
	0.55	0.75	1.6	GZ1LE06	
	0.75	1	2.5	GZ1LE07	
	1.1	2	4	GZ1LE08	
	2.2	3	6.3	GZ1LE10	
	3	5.5	10	GZ1LE14	
10 kA*	5.5	7.5	14	GZ1LE16	2700
	7.5	10	18	GZ1LE20	
	11	15	25	GZ1LE22	
	15	20	32	GZ1LE32	3200

* 50kA With current Limiter type GV1L3

Accessories - ETVS Circuit Breaker for Motor Protection

Description	Mounting	Contacts	Reference	Unit MRP [₹]
Auxiliary Contact Block	LH side Mounted	1NO+1NC	GZ1AN11	560
		2NO	GZ1AN20	600

Description	Mounting	Range		Reference	Unit MRP ₹
Electric Trips					
Undervoltage	RH Side Mounted	110...115V	50Hz	GZ1AU115	On Request
		220...240V	50Hz	GZ1AU225	
		380...400V	50Hz	GZ1AU385	
Shunt trip		110...115V	50Hz	GZ1AS115	
		220...240V	50Hz	GZ1AS225	

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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Start smart, run smart, stay smart with TeSys

Solutions that switch, protect,
control, and monitor motors



How do everlinks
improve power
connection reliability?

For more information on
switching and motor
management scan!



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Life Is On

Schneider
Electric

TeSys Range

The most comprehensive solution for switching and motor management.



Switch Disconnectors

Vario



Protection

Circuit Breakers

TeSys GV Circuit Breakers



Relays

Thermal protection



All-in-one



Control

Contactors

From 6A to 2750A



Low Consumption versions



Starters and Motor Starters



For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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TeSys Range



Monitor



TeSys U

For standard application



TeSys island



TeSys T

The flexible motor management system for all applications and motors up to 810A (AC3)



Enclosed

DOL starters with manual control



Vario



Mini Vario



GV2M



GV2P/3P

Starters



LE-up to 30kW/400V

For DOL starters and safety applications



LG, LJ



GV2M



Specific Applications

For protection

Thermistor Protection unit



LT3

Advanced Motor Protection relay



Digital EOCR

Electromechanic overcurrent relay



EOCRSS

Transformers and high current peak



GV2RT

Single pole magnetic over current relay



RM1

Fuse solution



GK1

For control

For wind turbine UPS panels



F

For very small machines



SK

For capacitors



D

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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W.E.F. January 11, 2021

Machine builders, it is time to cut engineering time and costs — DIGITIZE load management

TeSys island

Unique features

TeSys island is a smart, digital multifunctional load management system; it can switch, protect, manage motors and other electrical loads up to 80 Amps (AC3) in an electrical control panel.

Benefits

Why should you choose TeSys island?

- Quicker engineering and reduce time to market
- Embedded algorithms detect abnormal load behaviors and generate alarms before machine stoppage.
- Pre-trip warnings can also be set on the system for scheduled maintenance.
- Fast device replacement on any portion of the island is possible because of the full integration of the system and the integrated Bus coupler resulting in reduced downtime.
- TeSys island provides energy monitoring at the load level
- Health status can be easily accessed, remotely or locally. This energy management data can be used for advanced analytics to increase machine efficiency further
- TeSys island can be easily integrated into Schneider Electric's EcoStruxure Machine architecture and 3rd party automation systems, supporting all major fieldbuses.



TeSys Range

Enable smarter design and engineering

Efficient

Make your machines intelligent, save time and costs with intuitive programming and commissioning using TeSys avatars. Simplify software integration within all major automation environments. One-click mounting on DIN rail and no need for control wiring.

Enable new business models

Use load data and status information to create new service enabled business models. Access your machine from remote during operation & maintenance.

A data provider

Get relevant data for digital load management & advanced analytics. Monitor energy at load level, remote users can easily check health status, troubleshoot and diagnose issues and take action, reduce machine stoppages and machine downtime.

Improved security

Benefit from the highest cybersecurity and safety levels. Safety IO / Scalable with embedded diagnostic.

Technical specifications

- System consists of DOL Starters & Input / Output modules
- System manages motors and other electrical loads up to 80A/37kW/50hp
- Up to 20 modules / 1 meter at one bus coupler
- No mechanical adjustments/settings required
- International standards-compliant
- Energy monitoring at the load level
- Only 21 commercial references for the complete system, including 5 standard motor starters and 5 functional safety motor starters
- Cybersecurity embedded into the system (Achilles Level 2 & Safety up to Cat 2)
- Safety stop TUV certified (Stop 0 and 1 with wiring categories 1 to 2, suitable for PL c,d (Performance Level) and SIL level 2)
- Open connectivity thanks to Ethernet IP and Modbus TCP fieldbuses

TeSys Control Range

TeSys Control Range	Frame Size	Rated operational current AC-1	AC-3 Duty			Aux Contacts	AC control Reference	Unit MRP [₹]	DC Control Reference	Unit MRP [₹]
			KW	HP	A					
TeSys K	K1	-	3	-	6	1NO/NC	LC1K06*	1100	LP1K06**	1700
		-	5.5	-	9	1NO/NC	LC1K09*	1150	LP1K09**	1850
		-	7.5	-	12	1NO/NC	LC1K12*	1300	LP1K12**	2150
		-	10	-	16	1NO/NC	LC1K16*	1535	-	-
TeSys D	D1	32	9	12.5	18	1NO + 1NC	LC1D18*	1860	LC1D18**	3200
		40	11	15	25	1NO + 1NC	LC1D25*	2300	LC1D25**	4050
	D2	50	15	20	32	1NO + 1NC	LC1D32*	4475	LC1D32**	8250
		50	18.5	25	38	1NO + 1NC	LC1D38*	6450	LC1D38**	9750
	D3	60	22	30	40	1NO + 1NC	LC1D40A*	6700	LC1D40A#	11000
		80	25	35	50	1NO + 1NC	LC1D50A*	8650	LC1D50A#	13800
		80	37	50	65	1NO + 1NC	LC1D65A*	12000	LC1D65A#	15650
		80	37	50	80	1NO + 1NC	LC1D80A*	15000	LC1D80A#	19000
	D4	125	45	60	80	1NO + 1NC	LC1D80*	18500	LC1D80**	19300
		125	45	60	95	1NO + 1NC	LC1D95*	19500	LC1D95**	21150
		250	59	80	115	1NO + 1NC	LC1D115*	24000	LC1D115**	25000
		250	80	110	150	1NO + 1NC	LC1D150*	30000	LC1D150**	30000

TeSys Control Range	[Ie] Rated Operational Current AC-1	KW	AC-3 DUTY		Reference ^{(1) (2)}	Unit MRP [₹]
			HP	A		
TeSys F	275	100	135	185	LC1F185	32355
	315	110	150	225	LC1F225	35245
	350	140	190	265	LC1F265	42755
	400	180	245	330	LC1F330	53160
	500	220	300	400	LC1F400	58360
	700	280	380	500	LC1F500	83780
	1000	375	500	630	LC1F630	134050
	1000	450	610	800	LC1F800	208010
	1250	630	840	1000	LC1F1000	360545

Note:

(1) Contactor reference does not include coil. Contactor coil & aux. contacts to be ordered separately. (Coil includes 1NO contact)

(2) Please select coils from Page 30.

Coil Voltage Code

Type	Voltage	24	110	220	415
AC*	LC1K06-K16, LC1D09-D150 50/60Hz	B7	F7	M7	N7
DC**	LP1K06-K12, LC1D09-38, LC1D80-150	BD	FD	MD	

Type	Voltage	24V DC Low consumption	24-60V AC/DC	48-130V AC/DC	100-250V AC/DC
TeSys D Green#	LC1D40A-80A	BBE	BNE	EHE	KUE

Note:

(1) For Non standard coil voltage price please contact customer care.

(2) Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team.



How to ensure reliability of contacts?

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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W.E.F. January 11, 2021

Control Relays - K Model (AC & DC Control)



- Conformance IEC, UL, CSA, CE Marking
- Inbuilt 4 auxiliary contacts
- 10A thermal rating
- Available with AC (50/60Hz Dual frequency), DC & DC low consumption coil options

No of Poles	AC Control Reference	Unit MRP [₹]	DC Control Reference ⁽⁴⁾	Unit MRP [₹]	DC low consumption Reference ^{(1) (2) (3)}	Unit MRP [₹]
2NO + 2NC	CA2KN22*	1310	CA3KN22**	1810	CA4KN22***	2250
3NO + 1NC	CA2KN31*		CA3KN31**		CA4KN31***	
4NO	CA2KN40*				CA4KN40***	

(1) Compatible with PLC outputs

(2) Wide range coil (0.7...1.25Uc), suppressor fitted as standard

(3) 2 pole auxiliary contact block can be mounted additionally

(4) Optional in-built surge suppressor available

Power Contactors - K Model (3 Pole AC & DC Control)



- Conformance to IEC, UL, CSA
- Current Rating : 6A to 16A, AC-3 duty
- 1NO or 1NC inbuilt auxiliary contact
- Available in 3P & 4P version
- Available with AC (50/60Hz Dual frequency), DC & DC low consumption ⁽⁵⁾ coil options

[Ie] Rated Operational Current (A)	Motor Power (kW)	Auxiliary Contacts	AC Control Reference	Unit MRP [₹]	DC Control Reference ⁽⁵⁾	Unit MRP [₹]
6	3	1NC	LC1K0601*	1100	LP1K0601**	1700
		1NO	LC1K0610*		LP1K0610**	
9	5.5	1NC	LC1K0901*	1150	LP1K0901**	1850
		1NO	LC1K0910*		LP1K0910**	
12	7.5	1NC	LC1K1201*	1300	LP1K1201**	2150
		1NO	LC1K1210*		LP1K1210**	
16	10	1NC	LC1K1601*	1535	-	-
		1NO	LC1K1610*		-	-

(5) For low consumption offer, please contact regional sales office

Reversing Contactors - K Model



- Conformance to IEC, UL, CSA, CE
- Current Rating : 6A to 16A, AC-3 duty
- 1NO or 1NC inbuilt auxiliary contact
- Available in 3P & 4P version
- Available with AC(50/60Hz Dual frequency), DC & DC low consumption ⁽⁶⁾ coil options

[Ie] Rated Operational Current (A)	Motor Power (kW)	Auxiliary Contacts	AC Control Reference	Unit MRP [₹]
6	3	1NC	LC2K0601*	3660
		1NO	LC2K0610*	
9	5.5	1NC	LC2K0901*	3910
		1NO	LC2K0910*	
12	7.5	1NC	LC2K1201*	4025
		1NO	LC2K1210*	
16	10	1NC	LC2K1601*	4495
		1NO	LC2K1610*	

* Reference to be completed by adding coil voltage code

(6) For current rating and ref please contact Customer Care

Coil Voltage Code

Type	Voltage	24	48	72	110	220	415
AC*	CA2KN, LC1-K06 to K16, 50/60Hz	B7	-	-	F7	M7	N7
	LC2-K06 to K16, 50/60Hz	-	-	-	F7	M7	N7
DC**	CA3KN, LP1-K06 to K12	BD	-	-	FD	MD	-
DC low consumption***	CA4KN	BW3	EW3	SW3	-	-	-

Note: (1) For Non standard coil voltage prices please contact customer care.

(2) Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team rating.

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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Accessories - K Model

Description	Mounting	Contacts	Reference	Unit MRP [₹]
Auxiliary contact block	Front	2NC	LA1KN02	485
		1NO + 1NC	LA1KN11 ☒	445
		2NO	LA1KN20	485
		4NC	LA1KN04	755
		1NO + 3NC	LA1KN13	
		2NO + 2NC	LA1KN22 ☒	
		3NO + 1NC	LA1KN31	
		4NO	LA1KN40	

Description	Control Voltage	Range	Reference	Unit MRP [₹]
On Delay Electronic Timer	24..48V AC/DC	1..30S	LA2KT2E(1)	2485
	110..240V AC	1..30S	LA2KT2UA(1)	

Description	Coil Voltage	Reference	Unit MRP [₹]
Surge Suppressor - RC Circuit	220..250V AC	LA4KA1U*	775
Surge Suppressor - Varistor	130..250V AC/DC	LA4KE1UG*	
Surge Suppressor - Varistor	50..129V AC/DC	LA4KE1FC*	

* Lot size 5

(1) Front mounted with common point changeover contact

Control Relays - D Model (AC & DC Control)



- Conformance to IEC, UL, CSA
- 5 inbuilt auxiliary contacts, in just 2 variants
- Available with AC (50/60Hz Dual frequency), DC & DC low consumption coil options
- High Operating ambient temperature upto 60 Deg C
- Inbuilt surge suppressor for DC & DC low consumption

No of Poles	AC Control Reference	Unit MRP [₹]	DC Control Reference ⁽²⁾	Unit MRP [₹]	DC low consumption Reference ^{(1) (2) (3)}	Unit MRP [₹]
3NO + 2NC	CAD32*	1400	CAD32**	2000	CAD32***	2500
5NO	CAD50*		CAD50**		CAD50***	

(1) Compatible with PLC outputs

(2) Wide range coil (0.7...1.25Uc), suppressor fitted as standard

(3) 2 pole auxiliary block can be mounted

Power Contactors - D Model (3 Pole AC & DC Control)



- Conformance to IEC, UL, CSA
- Current Rating : 9A to 150A
- Available with AC (50/60Hz Dual frequency), DC & DC low consumption coil options
- High Operating ambient temperature, no derating upto 60 Deg C
- Inbuilt 1NO + 1NC auxiliary contacts upto 150A
- High electrical and mechanical life
- Fuse-less Type 2 Co-ordination Charts available
- EverLink® terminal for 40, 50, 65 & 80A contactors
- Inbuilt surge suppressor in DC coil for 9-80A

[Ie] Rated Operational Current AC-1	kW	AC-3 Duty		Auxiliary Contacts	AC Control Reference	Unit MRP [₹]	DC Control Reference ⁽¹⁾	Unit MRP [₹]
		HP	A					
25	4	5.5	9	1NO + 1NC	LC1D09* ☒	1425	LC1D09** ☒	2310
	5.5	7.5	12	1NO + 1NC	LC1D12* ☒	1600	LC1D12** ☒	2600
32	9	12.5	18	1NO + 1NC	LC1D18* ☒	1860	LC1D18** ☒	3200
40	11	15	25	1NO + 1NC	LC1D25* ☒	2300	LC1D25** ☒	4050
50	15	20	32	1NO + 1NC	LC1D32* ☒	4475	LC1D32** ☒	8250
	18.5	25	38	1NO + 1NC	LC1D38* ☒	6450	LC1D38** ☒	9750
60	22	30	40	1NO + 1NC	LC1D40A* ☒	6700	LC1D40A#	11000
80	25	35	50	1NO + 1NC	LC1D50A* ☒	8650	LC1D50A#	13800
80	37	50	65	1NO + 1NC	LC1D65A* ☒	12000	LC1D65A#	15650
80	37	50	80	1NO + 1NC	LC1D80A* ☒	15000	LC1D80A#	19000
125	45	60	80	1NO + 1NC	LC1D80* ☒	18500	LC1D80**	19300
	45	60	95	1NO + 1NC	LC1D95* ☒	19500	LC1D95**	21150
250	59	80	115	1NO + 1NC	LC1D115* ☒	24000	LC1D115**	25000
	80	110	150	1NO + 1NC	LC1D150* ☒	30000	LC1D150**	30000

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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Power Contactors - D Model (3 Pole DC Low Consumption)

Now available upto 80A with the TeSys D Green Low Consumption offer

[Ie] Rated Operational Current AC-1	kW	Motor Power AC-3 HP	A	Auxiliary Contacts	Reference	Unit MRP [₹]
25	4	5.5	9	1NO + 1NC	LC1D09**** ☒	2400
	5.5	7.5	12	1NO + 1NC	LC1D12**** ☒	2680
32	9	12.5	18	1NO + 1NC	LC1D18**** ☒	4100
40	11	15	25	1NO + 1NC	LC1D25**** ☒	5000
50	15	20	32	1NO + 1NC	LC1D32**** ☒	8550
[Ie] Rated Operational Current AC-1	kW	Motor Power AC-3 HP	A	Auxiliary Contacts	Reference	Unit MRP [₹]
60	22	30	40	1NO + 1NC	LC1D40A#	11000
80	25	35	50	1NO + 1NC	LC1D50A#	13800
80	37	50	65	1NO + 1NC	LC1D65A#	15650
80	37	50	80	1NO + 1NC	LC1D80A#	19000

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

Power Contactors - D Model (4 Pole AC & DC Control)



- Conformance to IEC, UL, CSA
- Current Rating : 20A to 250A, AC-1 Rating
- Available with AC (50/60Hz Dual frequency), DC & DC low consumption (1) coil options
- High Operating ambient temperature, no derating upto 60 deg C

[Ie] Rated Operational Current AC-1	Poles Composition	AC control Reference	Unit MRP [₹]	DC control Reference	Unit MRP [₹]
20	4NO	-	-	LC1DT20**	2655
	2NO + 2NC	-	-	LC1D098**	2890
25	4NO	-	-	LC1DT25**	3180
	2NO + 2NC	-	-	LC1D128**	4160
32	4NO	-	-	LC1DT32**	3500
	2NO + 2NC	-	-	LC1D188**	4735
40	4NO	-	-	LC1DT40**	5490
	2NO + 2NC	-	-	LC1D258**	7235
60	4NO	-	-	LC1DT60A#	10985
	2NO + 2NC	-	-	LP1D40008**	14440
[Ie] Rated Operational Current AC-1	Poles Composition	AC control Reference	Unit MRP [₹]	DC control Reference	Unit MRP [₹]
80	4NO	-	-	LC1DT80A#	16390
	2NO + 2NC	-	-	LP1D65008**	19405
125	4NO	-	-	LP1D80004**	21020
	2NO + 2NC	-	-	LP1D80008**	24255
250	4NO	LC1D1150046*	26500	LC1D1150046**	29440

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

Coil Voltage Code

Type	Voltage	24	48	72	110	220	415
AC*	CAD, LC1D09-D150 50/60 Hz	B7			F7	M7	N7
	LC1D1150046 50/60 Hz				F7	M7	N7
DC**	CAD, LC1D09-D38, LC1D80-D150	BD			FD	MD	
	LC1DT20-DT40, LC1D098-D258, LP1D40-D80, LC1D115	BD			FD	MD	
DC Low Consumption***	CAD	BL			FL	ML	
	LC1D09-D32	BL	EL	SL			

Type	Voltage	24V DC Low consumption	24-60V AC/DC	48-130V AC/DC	100-250V AC/DC
TeSys D Green#	LC1D40A-80A, LC1DT60A-DT80A	BBE	BNE	EHE	KUE

Note: Please contact Customer Care for 4 Pole AC coil contactor details

For Non standard coil voltage prices please contact customer care

(1) For current rating and ref please contact Customer Care

(2) Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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TeSys D Green

The Revolutionary Electronic Coil Contactor



**Green
Premium™**
Product

New

80A AC3
offer available
in 55mm frame



3 frame
sizes

9 to 18A

25 to 38A

40 to 80A

3 coil
ratings

24 to 60V

48 to 130V

110 to 250V

Universal AC/DC coil

Low consumption offer 40-80A



Reliability

- Improved under voltage performance,
low contact bounce.



Efficiency

- 80% less coil consumption, reduced
heat dissipation



Productivity

- Easier integration with automation
architectures



Flexibility

- Wide voltage bands, eliminate surge
suppressor



Scan to see TeSys D
Green under voltage
performance.

Tesys D Green Contactor (3 Pole AC/DC Universal Coil)



- Current Rating: 9-65A
- Universal AC/DC coil from 24 - 250V
- Special low consumption offer from 40-80A
- Fuseless Type 2 Co-ordination charts available

The Revolutionary Electronic Coil Contactor

[Ie] Rated Operational Current AC-1	AC-3 Duty (Long Life)			Auxiliary Contacts	Reference	Unit MRP [₹]
	kW	HP	A			
25	4	5.5	9	1NO + 1NC	LC1D09*	2850
	5.5	7.5	12	1NO + 1NC	LC1D12*	2950
32	9	12.5	18	1NO + 1NC	LC1D18*	3900
40	11	15	25	1NO + 1NC	LC1D25*	4650
50	15	20	32	1NO + 1NC	LC1D32*	9450
	18.5	25	38	1NO + 1NC	LC1D38*	10200
60	22	30	40	1NO + 1NC	LC1D40A*	11000
80	25	35	50	1NO + 1NC	LC1D50A*	13800
80	37	50	65	1NO + 1NC	LC1D65A*	15650
80	37	50	80	1NO + 1NC	LC1D80A*	19000
60	22	30	40	1NO + 1NC	LC1D40A*	11000
80	25	35	50	1NO + 1NC	LC1D50A*	13800
80	37	50	65	1NO + 1NC	LC1D65A*	15650
80	37	50	80	1NO + 1NC	LC1D80A*	19000

Power Contactors - TeSys D Green (4 Pole AC & DC Control)

[Ie] Rated Operational Current AC-1	Poles Composition	Auxiliary Contacts	DC control Reference	Unit MRP [₹]
60	4NO	1NO + 1NC	LC1DT60A*	10985
80	4NO	1NO + 1NC	LC1DT80A*	16390

Coil Voltage Code

Type	Voltage	24-60V AC/DC	48-130V AC/DC	100-250V AC/DC
AC/DC*	LC1D09 - D38, LC1D40A - 80A, LC1DT60A - 80A	BNE	EHE	KUE
24V DC Low Consumption*	LC1D40A - 80A, LC1DT60A - 80A	BBE (24V DC only)		

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team



Check the features of the TeSys D Green

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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Description	For use with	Reference	Unit MRP [₹]
Power connection accessories			
Terminal block	For supply to one or more GV2 G busbar sets	GV1G09	1780
Set of 63A busbars for paralleling of contactors	2 contactors LC1D09...D18 or D25...D38	GV2G245	1380
	4 contactors LC1D09...D18 or D25...D38	GV2G445	2180
Set of 115A busbars for paralleling of contactors	2 contactors LC1D40A...D80A	GV3G264	2485
	3 contactors LC1D40A...D80A	GV3G364 ⁽¹⁾	1325
Set of S-shape busbars	For circuit breakers GV3P** & GV3L** and contactors LC1 D40A...D65A	GV3S	995

**Not applicable for GV3P/GV3L 73A and 80A

Description	For use with	Reference	Unit MRP [₹]
Mechanical interlock	LC1D09 to D38 ⁽¹⁾	LAD9V2	615
	LC1D40A to D65A ⁽¹⁾	LAD4CM	1255
	LC1D80 and D95 (for AC control voltage)	LA9D4002	2740
	LC1D80 and D95 (for DC control voltage) ⁽²⁾	LA9D8002	4080
	LC1D115 and D150 ⁽²⁾	LA9D11502	4140

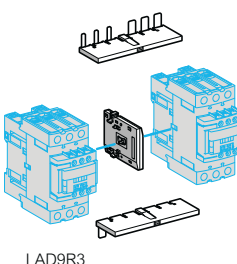
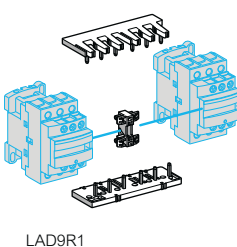
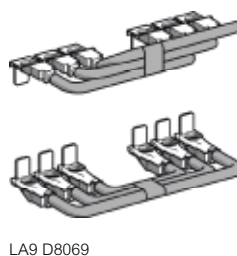
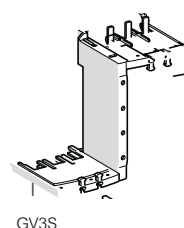
(1) With this set of busbars, any one contactor can be supplied directly by its EverLink® double cage power terminal block. The other two contactors are supplied by the busbar set. The 115A limitation is therefore applied to these two contactors.

(2) With electrical interlock

Description	For use with	Reference	Unit MRP [₹]
Power Connection for Reversing			
Kit Comprising : 1. A set of parallel bars 2. A set of reverser bars.	LC1D09 to D38	LAD9V5 + LAD9V6	1025
	LC1D40A to D80A	LA9D65A69	2660
	LC1D80 and D95 (for AC control voltage)	LA9D8069	5695
	LC1D80 and D95 (for DC control voltage)	LA9D8069	5695
	LC1D115 and D150	LA9D11569	9475

Description	For use with	Reference	Unit MRP [₹]
Reversing Kit			
Kit Comprising : 1. A mechanical interlock LAD 9V2 with electrical interlocking LAD 9V1 2. A set of power connections LAD 9V5 (parallel) and LAD 9V6 (reversing).	LC1D09 to D38	LAD9R1V	1275
Kit Comprising : 1. A mechanical interlock LAD 9V2 without electrical interlocking 2. A set of power connections LAD 9V5 (parallel) and LAD 9V6 (reversing).	LC1D09 to D38	LAD9R1	1045
Kit Comprising : 1. A mechanical interlock LAD 4CM 2. A set of power connections LA9 D65A69.	LC1D40A to D80A	LAD9R3	3040

Description	For use with	Reference	Unit MRP [₹]
Star Delta Kit			
Time delay contact block LAD S2 (LC1D09...D80),	LC1D09 and D12	LAD91217	4805
Power circuit connections (LC1D09...D80),	LC1D18 to D32	LAD93217	6175
Hardware required for fixing the contactors onto the mounting plate (LC1D80)	LC1D40A and D50A	LAD9SD3	12480
	LC1D80	LA9D8017	13860



For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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Description	Time Delay Range	Timer Type	Reference	Unit MRP [₹]
On delay timer ⁽¹⁾ ⁽²⁾	15...30 s	On delay	LA4DT2U	3815
On delay timer ⁽¹⁾ ⁽²⁾	0.1...2 s	On delay	LA4DT0U	
On delay timer ⁽¹⁾ ⁽²⁾	25...500 s	On delay	LA4DT4U	
Relay interface module - 24V DC ⁽¹⁾ ⁽²⁾	-	-	LA4DFB	3515

(1) For LC1 D09...38A (3P, AC coils only) add mounting adaptor LAD4BB and for LC1 D40A...65A (3P, AC coils only), add mounting adaptor LAD4BB3.

(2) For LC1D80...150 (3P), direct mounting, for 100-250V AC Coils only.

Mounting Location	For Use With Contactor	Reference	Unit MRP [₹]
For D Model Mechanical Latch Blocks			
Front, Clip-on	LC1D09...D38 (a or c) LC1DT20...DT40 (a or c) LC1D40A...D65A (3P a or c) LC1DT60A and DT80A (4P a or c)	LAD6K10*	4590
	LC1D80...D150 (3P a) LC1D80 and D115 (3 P c) LC1D80 (4 P a) LC1D80 and D115 (4 P a) LP1D80 and LC1D115 (4 P c)	LA6DK20*	4790

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

*Coil Voltage Code

VOLTAGE (AC/DC)	24	42/48	110/127	220/240	380/415
Code	B	E	F	M	Q

Spare coils D Model

Product Compatibility	Reference
AC Coils	
CAD, LC1-D09...D38, DT20..40	LXD1*
LC1D40A, D50A, D65A & LC1DT60A, DT80A	LXD3*
D80 & D95 (3P & 4P)	LX1D6*
LC1-D115, D150	LX1D8*
DC Coils	
LC1-D80-D95	LX4D7**
LC1-D115, D150	LX4D8**

* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

Coil Voltage Code

TYPE	VOLTAGE (V)	24	110	220	415
AC*	CAD, LC1-D09...D38, DT20..40, LC1 - D150, LC1D40A, D50A, D65A & LC1DT60A, DT80A, LC1D150 LC1D80, D95, D115	B7	F7	M7	N7

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

Accessories - D Model

Description	For use with	Contacts	Reference	Unit MRP ₹	
Add On Blocks					
Additional instantaneous auxiliary contact blocks	LC1D09 ...LC1D150 & LC1F*	Front Mounted	1NO + 1NC	LADN11	415
			2NO	LADN20	
			2NC	LADN02	535
			2NO + 2NC	LADN22	745
			4NC	LADN04	890
			4NO	LADN40	745
			1NO + 3NC	LADN13	
			3NO + 1NC	LADN31	
	LC1D80..LC1D95 & LC1F	Front Mounted	1NO	LADN10	295
			1NC	LADN01	

Description		Contacts	Reference	Unit MRP [₹]
Add On Blocks				
Additional instantaneous auxiliary contact blocks	Side Mounted ⁽¹⁾	1NO + 1NC	LAD8N11	1290
		2NO	LAD8N20	
Pneumatic timer blocks front mounted	ON delay	1NO + 1NC 0.1..3s	LADT0	2975
		1NO + 1NC 0.1..30s	LADT2	
		1NO + 1NC 10..180s	LADT4	
		1NO + 1NC 1..30s ⁽²⁾	LADS2 ☒	
	OFF delay	1NO + 1NC 0.1 ..3s	LADR0	2975
		1NO + 1NC 0.1 ..30s	LADR2 ☒	
		1NO + 1NC 10..180s	LADR4	

(1) Suitable for mounting on D Model range AC Coil Contactors and Control Relays only

(2) With Switching time of 40 ms between opening of the NC contact and closing of the NO contact recommended for Star - Delta Starters

Accessories compatibility

Contactors		Instantaneous auxiliary contacts						Time delay
Type	Number of poles and size	Side mounted		Front mounted				Front mounted
				1 contact	2 contact	4 contacts		
AC & AC/DC	3P	LC1D09...D38	1 on LH side	and	-	1	or 1	or 1
		LC1D40A...D80A	1 on LH or 1 on RH side	and	-	1	or 1	or 1
		LC1D80 and D95A (50/60 Hz)	1 on each side	or	2	and 1	or 1	or 1
		LC1D80 and D95A (50 or 60 Hz)	1 on each side	and	2	and 2	or 1	or 1
		LC1D115 and D150	1 on LH side	and	-	1	or 1	or 1
	4P	LC1DT20...DT40	1 on LH side	and	-	1	or 1	or 1
		LC1DT60A and DT80A	1 on LH or 1 on RH side	and	-	1	or 1	or 1
		LC1D40008, D65008 and D80	1 on each side	or	1	or 1	or 1	or 1
		LC1D115	1 on each side	and	1	or 1	or 1	or 1
		LC1D115	1 on each side	and	1	or 1	or 1	or 1
DC	3P	LC1D09...D38	-	-	-	1	or 1	or 1
		LC1D40A...D80A	-	-	-	1	or 1	or 1
		LC1D80 and D95	-	-	1	or 1	or 1	or 1
		LC1D115 and D150	1 on LH side	and	-	1	or 1	or 1
		LC1DT20...DT40	-	-	-	1	or 1	or 1
	4P	LC1DT60A and DT80A	-	-	-	1	or 1	or 1
		LC1D40008, D65008 and D80	-	-	2	and 1	or 1	or 1
		LC1D115	1 on each side	-	-	and 1	or 1	or 1
		LC1D115	1 on each side	-	-	and 1	or 1	or 1
		LC1D115	1 on each side	-	-	and 1	or 1	or 1
LC (3)	3P	LC1D09...D38	-	-	-	1	-	-
	4P	LC1DT20...DT40	-	-	-	1	-	-

(3) LC : Low consumption

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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Accessories for TeSys D

Description	For Use With	Reference	Unit MRP [₹]
For Contactor D115/150			
Contacts set - 3P	LC1D115	LA5D1158031	15035
Contacts set - 3P	LC1D150	LA5D150803	15590
Contacts set - 4P	LC1D1150046	LA5D115804	20730

Product Compatibility	Fixing	Control Circuit Voltage	Suppressor Type	Reference	Unit MRP [₹]
Coil Suppressor Modules					
LC1D12...D25 (4P)		110...240V AC	RC Circuit AC	LA4DA1U	1175
LC1D12...D25 (4P)		12...250V DC	Diode DC	LA4DC1U	
LC1D09...D38, LC2D09...D38, LC1DT20...DT40, LC2DT20...DT40 (3P)		24...48V AC	Varistor AC/DC	LAD4VE	1135
		24...48V AC 400Hz	RC Circuit AC	LAD4RCE	
		50...127V AC 200Hz	RC Circuit AC	LAD4RCG	1030
CAD		110...240V AC 100Hz	RC Circuit AC	LAD4RCU 	1135
		110....250V AC	Varistor AC/DC	LAD4VU	
LC1D80, LC1D95, LC2D80, LC2D95 (3P) LC2D80 (4P), LC1D40008, LC1D65008		24...250V DC	Diode DC	LA4DC3U	1175
		110...250V AC	Varistor AC/DC	LA4DE2U	1125
		24...48V AC 400Hz	RC Circuit AC	LA4DA2E	
		50...127V AC 200Hz	RC Circuit AC	LA4DA2G	1775
		110...240V AC 100Hz	RC Circuit AC	LA4DA2U	1175
		380...415V AC 150Hz	RC Circuit AC	LA4DA2N	1775
		24...48V DC	Varistor AC/DC	LA4DE3E	1175

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

 NORMAL STOCK ITEMS

W.E.F. January 11, 2021

Modular marking system simplifies identification of standard contactors in the control panel to enhance visibility of the safety chain

Simple, customisable modular marking system

Standard TeSys D contactors

Easy-to-attach covers:



Auxiliary blocks for more contact points:



Flexibility to customise contactors included in the safety chain during panel building



Simpler and faster maintenance with 100% visibility



Safety covers and auxiliary blocks prevent screwdriver contact with poles

Standard TeSys U motor starters

Translucent labels to identify safety-chain devices:



Complete safety-chain identification system

TeSys D range

Retrofit contactor safety covers



LAD9ET1S
9A upto 65A



LAD9ET3S
80A to 95A



LAD9ET4S
110A to 150A



LADN22S
2NO + 2NC

Also available for CAD32/CAD50

TeSys U range

Retrofit identification label



LU9ET1S

Built in Safety

TeSys U motor starters are certified according to IEC 60947-4-1 for safety applications thanks to integrated mirror contact

Description	For Use with	Reference	Unit MRP [₹]
Red Cover (For safety chain indication)	LC1D09...D65A and DT20 .. DT80A	LAD9ET1S	590
Auxiliary Contact block with red front face- for safety chain indication	2NO + 2NC	LADN22S	845

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

✓ NORMAL STOCK ITEMS

W.E.F. January 11, 2021



New TeSys G range: Redefining switching and protection for 115-800A

- Connected Contactor with advanced diagnostics feature
- Advanced protection function with upgraded LR9G relays
- Among the most compact contactors for given ratings

Launching in 2021....



Power Contactors - F Model (3 Pole AC/DC Control)



- Conformity to International Standards – IEC, UL, CSA, CE
- High electrical life
- Type 2 Co-ordination Charts available
- Common accessories as Model D
- Rating : 115 - 2600A, AC/DC Coils, special Hoisting application coils
- Shock Proof version and Magnetic latching contactor available

[Ie] Rated Operational Current AC-1	Motor Power (Long Life) AC-3		Reference	Unit MRP [₹]
	KW	HP		
200	59	80	LC1F115	19175
250	80	110	LC1F150	26580
275	100	135	LC1F185	32355
315	110	150	LC1F225	35245
350	140	190	LC1F265	42755
400	180	245	LC1F330	53160
500	220	300	LC1F400	58360
700	280	380	LC1F500	83780
1000	375	500	LC1F630	134050
1000	450	610	LC1F800	208010
1250	630	840	LC1F1000	360545

Note:

- Contactor reference does not include coil. Contactor coil & aux. contacts to be ordered separately.(Coil includes 1NO contact)
- Please select coils from table on next page (Page-30).

Power Contactors - F Model (2 Pole & 4 Pole AC/DC Control)



- Conformity to International Standards – IEC, UL, CSA
- 2 and 4 pole versions available
- 240-1600A in AC-1 duty, AC/DC coils
- Common accessories same as Model D
- High electrical life

[Ie] Rated Operational Current AC-1	Power Pole Composition	Reference	Unit MRP [₹]
200	4NO	LC1F1154	31460
250	4NO	LC1F1504	38200
275	4NO	LC1F1854	47190
315	4NO	LC1F2254	56405
350	4NO	LC1F2654	62360
400	4NO	LC1F3304	73705
500	2NO	LC1F4002	52245
500	4NO	LC1F4004	85955
700	2NO	LC1F5002	76405
700	4NO	LC1F5004	130710
1000	2NO	LC1F6302	129215
1000	4NO	LC1F6304	182025
1600	4NO	LC1F7804	387710

Note:

- Contactor reference does not include coil. Contactor coil & aux. contacts to be ordered separately.(Coil includes 1NO contact)
- Power terminals may be protected by the addition of shrouds, to be ordered separately.

3P AC/DC control for AC-1 applications

[Ie] Rated Operational Current AC-1	Reference	Unit MRP [₹]
1250	LC1F1250	On Request
1700	LC1F1700	
2100	LC1F2100 ⁽¹⁾	
2600	LC1F2600 ⁽²⁾	

(1) With set of right-angled connectors LA9 F2100

(2) With set of right-angled connectors LA9 F2600

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

Coils F Model

Product compatibility	AC Coil Reference	Unit MRP [₹]	DC Coil Reference ⁽²⁾	Unit MRP [₹]
LC1F115, LC1F150	LX9FF*	4020	LX4FF**	8505
LC1F185, LC1F225	LX9FG*	5565	LX4FG**	11320
LC1F265, LC1F330	LX1FH*	6925	LX4FH**	13785
LC1F400	LX1FJ*	14260	LX4FJ**	21820
LC1F500	LX1FK*	16965	LX4FK**	22525
LC1F630	LX1FL*	18975	LX4FL**	23345
LC1F800	⁽¹⁾	-	LX4F8**	33260
LC1F1000, LC1F1700, LC1F2100	LX1FK ^{*(3)}	16965		
LC1F2600	LX1FL ^{*(3)}	18975		

Please replace (*) with the Corresponding Control Voltage.

(1) Use rectifier with required DC coil (Ref: DR5TE4U)

(2) Coil with suppressor fitted as standard.

(3) Set of two coils to be connected in series.

(4) It is recommended to check availability with Customer Care team.

Coil Voltage Code

Type	Voltage (V)	24	110	220	415
AC*	LC1F115-F225, LC1F400-630	-	110	220	415
	LC1F265, LC1F330	-	1102	2202	3802
	LC1F1000	-	55	110	220
	LC1F1700, 2100, 2600	-	65	110	220
DC**	LC1F115-LC1F330	24	110	220	-
	LC1F400-LC1F780	-	110	220	
	LC1F800	-	FW	MW	

Note: (1) It is recommended to check availability with Customer Care team

Accessories - D and F Model

Description	For use with	Contacts	Reference	Unit MRP [₹]		
Add on Blocks						
Additional instantaneous auxiliary contact blocks	LC1D09....LC1D150 & LC1F*	Front Mounted	1NO + 1NC	LADN11	415	
			2NO	LADN20		
			2NC	LADN02		535
			2NO + 2NC	LADN22		
			4NC	LADN04	890	
			4NO	LADN40		
			1NO + 3NC	LADN13		745
			3NO + 1NC	LADN31		
			LC1D80....LC1D95* & LC1F	1NO	LADN10*	295
				1NC	LADN01*	

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

Accessories - D and F Model

Description		Contacts		Reference	Unit MRP ₹
Add On Blocks					
Additional instantaneous auxiliary contact blocks	Side Mounted ⁽¹⁾	1NO + 1NC		LAD8N11	1290
		2NO		LAD8N20	
Pneumatic timer blocks front mounted	ON delay	1NO + 1NC	0.1..3s	LADT0	2975
		1NO + 1NC	0.1..30s	LADT2	
		1NO + 1NC	10..180s	LADT4	
	OFF delay	1NO + 1NC	1..30s ⁽²⁾	LADS2 	3170
		1NO + 1NC	0.1 ..3s	LADR0	2975
		1NO + 1NC	0.1 ..30s	LADR2 	
		1NO + 1NC	10..180s	LADR4	

(1) Suitable for mounting on D Model range AC Coil Contactors and Control Relays only

(2) With Switching time of 40 ms between opening of the NC contact and closing of the NO contact recommended for Star - Delta Starters

* Suitable for 80A, 95A & Model F contactors only

For Use With Contactor	Reference	Unit MRP [₹]
Mechanical Interlocks ⁽¹⁾ - Horizontally Mounted		
LC1F115, LC1F150, LC1F1154, LC1F1504	LA9FF970	4200
LC1F185, LC1F1854, LC1F225, LC1F2254	LA9FG970	4850
LC1F265, LC1F330, LC1F400, LC1F500, LC1F2654, LC1F3304, LC1F4004, LC1F5004	LA9FJ970	5430
LC1F630, LC1F6304, LC1F800	LA9FL970	6045

(1) For assembly of 3/4 pole 2 contactors of identical rating. To obtain electrical interlocking, please order 2 contact blocks LADN11

All power connections are to be made by the user.

Main Contact Sets*

LC1F115, LC1F150	LA5FF431 ☒	22230
LC1F185, LC1F225	LA5FG431	32115
LC1F265	LA5FH431	42300
LC1F330, LC1F400	LA5F400803	51285
LC1F500	LA5F500803	65970
LC1F630	LA5F630803	104935
LC1F800	LA5F800803	131770

* For 3 Pole contactor (per pole: 2 fixed contacts and 1 moving contact, 2 defectors, 1 backplate, fixing screws & washers.)

Description	For use with	110V Reference	220V Reference	Unit MRP [₹]
Suppressor Blocks				
suppressor module clip on	All AC ratings	LA4FRCF	LA4FRCP	5655
suppressor bracket	For all LA4F	LA9D09981		595

Product compatibility	110V Reference	220/230V Reference	415/440V Reference	Unit MRP [₹]
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Hoisting Applications - AC Coils

LC1F265	LX9FH1102	LX9FH2202	-	On Request
LC1F330				
LC1F400	LX9FJ925	LX9FJ931	LX9FJ937	
LC1F500	LX9FK925	LX9FK931	LX9FK937	
LC1F630	LX9FL924	LX9FL931	LX9FL936	

Note: Rectifier is a must with the coil. Ref no. DR5TE4U for 110...230V & DR5TE4S* for 415...440V, needs to be added extra with coil.

Product compatibility	48V Reference	110V Reference	220V Reference	440/460 V Reference	Unit MRP [₹]
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Hoisting Applications - DC Coils

LC1F400	LX9FJ918	LX9FJ926	LX9FJ932	LX9FJ938	On Request
LC1F500	LX9FK918	LX9FK926	LX9FK932	LX9FK938	
LC1F630	LX9FL918	LX9FL926	LX9FL931	LX9FL937	

Note:

- Resistor is a must with every coil as per the quantity mentioned.
- **Economy Resistor to be selected from below table as per coil voltage code**

Contactor	110V Reference	220V Reference	440/460V Reference	Unit MRP [₹]
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Economy Resistor

- To be used with hoisting application DC coil

LC1F400	1 X DR2SC0047	1 X DR2SC1200	1 X DR2SC4700	On Request
LC1F500	1 X DR2SC0039	1 X DR2SC1000	1 X DR2SC3300	
LC1F630	2 X DR2SC0047	2 X DR2SC0047	2 X DR2SC3900	

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

TeSys Special Purpose Contactor

Capacitor Duty Contactor



Nominal Reactive Power 440V	Auxiliary Contacts	Reference	Unit MRP [₹]
LC1-D•K - with Damping Resistors & Block of Early Make poles			
12.5 KVAR	1NO + 2NC	LC1DFK*	3375
16.7 KVAR	1NO + 2NC	LC1DGK*	4740
20 KVAR	1NO + 2NC	LC1DLK*	5325
25 KVAR	1NO + 2NC	LC1DMK*	5840
32 KVAR	1 NO + 2NC	LC1DPK*	12720
40 KVAR	1NO + 2NC	LC1DTK*	17525
60 KVAR	1NO + 2NC	LC1DWK12*	19730

Contactor recommended upto 6 steps. For over 6 steps it is recommended to use chokes

* Reference to be completed by adding coil voltage code

* Coil Voltage Code

VOLTAGE	110	220
LC1DFK....DWK, 50/60Hz	F7	M7

Note: (1) For non standard coil voltage prices please consult customer care.

(2) It is recommended to check availability with Customer Care team.



Instruction Manual
Video for Capacitor
Duty Contactors



Guide for the Design
and Production of LV
Power Factor
Correction Cubicles

For complete information on selection of capacitor switching please refer to the TeSys catalogue

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

☒ NORMAL STOCK ITEMS

W.E.F. January 11, 2021

The most compact 3 KW / 400 V starter in the world



Up to 75 % of space reduction

- Ultra-compact 22.5 mm starter
- Reversing starter in the same width
- Maximum space savings for group starter architecture

Long electrical durability

- Suitable for high demanding application
- 30 000 000 of AC53a electrical cycles

> With printed QR code, referring directly to the product data sheet.

Easy Design

- Wide range setting motor protection
- Automatic, manual or remote reset after thermal trip
- Wide range of control voltage

Easy to integrate

- Direct mounting installation on DIN rail
- Control terminals on the upper side
- Power terminal on the lower side

TeSys H - Ultra-compact starters

Standard version



- **2 ratings:**
 - 2.4A 400V AC-53a
 - 6.5A 400V AC-53a
- **control voltages:**
 - 24V DC
 - 110V / 230V AC
- **2 terminal types:**
 - Screw clamps
 - Spring
- **Can provide up to 3 functions:**
 - Forward running
 - Reverse running
 - Overload protection

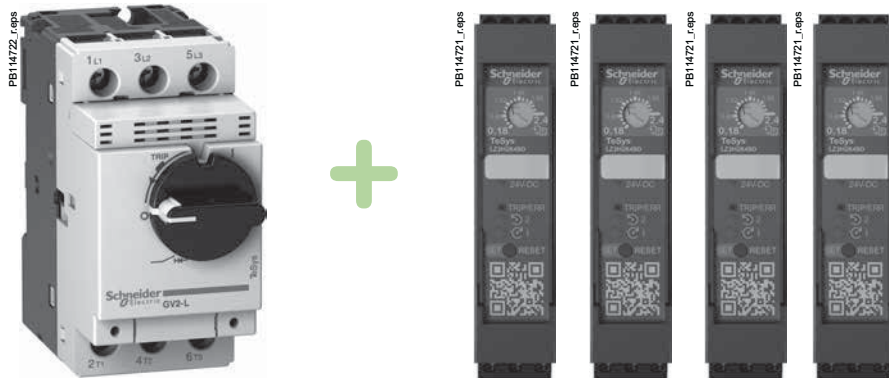
Standard Starter Tesys H

Motor Power @ 415V AC	Current range	Screw terminals	Unit MRP [₹]	Spring terminals	Unit MRP [₹]
kW			1 way (DOL)		
0.75	0.18...2.4A	LZ1H2X4**	On Request	LZ1H2X43**	On Request
3	1.5...6.5A	LZ1H6X5**	On Request	LZ1H6X53**	On Request
			2 ways (RDOL)		
0.75	0.18...2.4A	LZ2H2X4**	On Request	LZ2H2X43**	On Request
3	1.5...6.5A	LZ2H6X5**	On Request	LZ2H6X53**	On Request

** reference to be completed with the control code : BD (24V DC) or FU (110-230V AC)

It is recommended to check availability with Customer Care team

Selection Chart for TeSys H



GV2L + LZ2H2X4BD

Selection of the circuit breaker

Type 1 Co-ordination according to IEC/EN 60947-4-2

Max A	Iq kA	Number of TeSys H		Reference Circuit breaker	
		2.4 A	6.5 A	Rotary	Rocker
0.4	50.0	1	—	GV2L03	GV2LE03
0.63	50.0	1	—	GV2L04	GV2LE04
1	50.0	1	1	GV2L05	GV2LE05
1.6	50.0	1	1	GV2L06	GV2LE06
2.5	35.0	1	1	GV2L07	GV2LE07
4	12.5	1	1	GV2L08	GV2LE08
6.3	8.0	2	1	GV2L10	GV2LE10
10	7.0	4	1	GV2L14	GV2LE14
14	5.0	5	2	GV2L16	GV2LE16
18	4.0	7	2	GV2L20	GV2LE20
25	4.0	10	3	GV2L22	GV2LE22
32	3.0	13	4	GV2L32	GV2LE32

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

✓ NORMAL STOCK ITEMS

W.E.F. January 11, 2021

TeSys Protection Range

TeSys has the most rugged and reliable solution to manage motors
Please find a quick range overview below

Protection	TeSys Motor Control and Protection Solution						
	GV2P, GV4P GV3P, GV2ME	GV4PEM	Thermal Overload Relays	Overtorque Relays	TeSys U	EOCR	TeSys
	 GV2P GV3P  GV2ME	 GV4PEM	 LR2K LRD  LR9D LR9F	 EOCR SS  EOCR SSD	 TeSys U	 EOCR	 TeSys T TeSys Island
Short circuit							
Causes of overheating							
• Slight overload							
• Locked rotor							
• Ventilation fault							With probes
• Abnormal temperature rise							With probes
• Shaft bearing seizure							
• Insulation fault							
• Long starting time		Adjustable					Adjustable
• Severe duty							
• Voltage variation							
Causes of phase variation							
• Phase reversal			LR9D only				
• Phase losses							
• Phase imbalance							
• Earth fault	GV4P only						
Mechanical shocks							
Historic fault, prealarming							
			Possible Pre-alarm				

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

✓ NORMAL STOCK ITEMS

W.E.F. January 11, 2021

Overload relays for Motor Safety

New TeSys LR9D electronic overload relays
provide motor safety tailored to your needs



Thermal Overload Relays - K Model (Direct Mounting)



- Conformance to IEC, UL, CSA, CE
- Range : 0.1A to 16A
- Direct & Independent mounting
- Trip class 10A

Thermal Protection Adjustment Range	For Use With	Reference*	Unit MRP [₹]
0.11...0.16	LC1K, LP1K, LP4K, LP2K, LC2K	LR2K0301	1925
0.16...0.23		LR2K0302	
0.23...0.36		LR2K0303	
0.36...0.54		LR2K0304	
0.54...0.8		LR2K0305	
0.8...1.2		LR2K0306	
1.2...1.8		LR2K0307	
1.8...2.6		LR2K0308	
2.6...3.7		LR2K0310	
3.7...5.5		LR2K0312	
5.5...8		LR2K0314	
8...11.5		LR2K0316	
10...14		LR2K0321	
12...16		LR2K0322	
			1960

* **Note:** Terminal Block for Clip-on Mounting LA7K0064

Electronic Overload Relay - D Model



- Conformance to IEC, UL, CSA
- Range : 0.1A to 32A
- 5:1 Adjustment range
- High Operating Temperature
- Field selectable tripping class : 5, 10, 20 & 30
- Type 1 & Type 2 Co-ordination chart available

Current Range	For Use With	Reference*	Unit MRP [₹]
0.1...0.5	LC1D09 - 38A Direct Mounting	LR9D01	8790
0.4...2.0		LR9D02	9025
1.6...8.0		LR9D08	
6.4...32		LR9D32	10095

Note: For LR9D01 to LR9D32 - Terminal Block for Clip on Mounting LAD7B205.

Thermal Overload Relays - D Model



- Conformance to IEC, UL, CSA
- Range : 0.1A to 104A
- Higher operating temperature
- Tripping class 10A & 20 available
- Direct mounting on contactor is possible upto 95A

Thermal Protection Adjustment Range	For Use With	Reference*	Unit MRP [₹]
LRD Model (Direct Mounting)			
0.1...0.16	GV2L03, LE03, LC1D09...LC1D38	LRD01	1935
0.16...0.25		LRD02	
0.25...0.4		LRD03	
0.4...0.63		LRD04	
0.63...1		LRD05 ✓	
1...1.6		LRD06 ✓	
1.6...2.5		LRD07 ✓	
2.5...4		LRD08 ✓	
4...6		LRD10 ✓	
5.5...8		LRD12 ✓	
7...10		LRD14 ✓	
9...13		LRD16 ✓	
12...18		LRD21 ✓	
16...24	GV2L22, LC1D25...D38	LRD22 ✓	2240
23...32	LC1D25...LC1D38, LC1D32	LRD32 ✓	3595
30...38	LC1D32, LC1D38	LRD35	
23...32	LC1D40A...D65A	LRD332	3980
30...40	LC1D80...LC1D95	LRD3353	
30...40	LC1D40A...D65A	LRD340	
30...40	LC1D80...LC1D95	LRD3355	
37...50	LC1D40A...D65A	LRD350 ✓	5460
48...65	LC1D80...LC1D95	LRD3357	6530
48...65	LC1D40A...D65A	LRD365	7010
62...80	LC1D80A	LRD380	7305
48...65	LC1D80...LC1D95	LRD3359	7010
63...80	LC1D80...LC1D95	LRD3363	7605
80...104	LC1D80, LC1D95	LRD3365	9385

Electronic Overload Relay - F Model



- Conformity to International Standards - IEC, UL, CSA
- Direct mounting on contactors is possible upto 630A
- Higher operating temperature
- Tripping class 10

Thermal Protection Adjustment Range	Reference	Unit MRP [₹]
LR9-F Electronic Protection Relays		
90...150	LR9F5369 ✓	12920
132...220	LR9F5371	15135
200...330	LR9F7375	16245
300...500	LR9F7379	19935
380...630	LR9F7381	21165

Note:

- For LRD01...LRD35 - Terminal Block for clip-on Mounting LAD7B106
- For LRD33** - Terminal Block for clip-on Mounting LA7D3064 ✓
- For LRD332, LRD340, LRD350 & LRD365 - Connection block for separate mounting LAD96560
- The LRD relays can be used for AC or DC current up to 104A
- For long starting, Class 20 relays are available on request.
- Device for remote tripping and electrical reset is available on request.

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

✓ NORMAL STOCK ITEMS

W.E.F. January 11, 2021

Advanced Motor Protection

High performance protection
for your application



EOLR

Electronic Overload Relay

- Precise Overload Protection
- Wide operating Range 5:1
- Higher Operating Temperature
- Selectable Trip Class



EOCR

Electronic Over Current Relay

- Compact and Robust
- Advanced current protections
- Suitable for 1-phase and 3-phase applications
- Suitable for motors upto 400A
- Pass-through CT for electrical isolation

EOLR - LR9D

Electronic Overload Relay



- Conformance to IEC, UL, CSA
- Range : 0.1A to 32A
- 5:1 Adjustment range
- High Operating Temperature
- Field selectable tripping class : 5, 10, 20 & 30
- Type 1 & Type 2 Co-ordination chart available

Current Range	For Use With	Reference*	Unit MRP [₹]
0.1....0.5		LR9D01	8790
0.4....2.0	LC1D09 - 38A	LR9D02	9025
1.6....8.0	Direct Mounting	LR9D08	
6.4....32		LR9D32	10095

Note: For LR9D01 to LR9D32 - Terminal Block for Clip on Mounting LAD7B205.

Protection Relay Selection table

Features\product	EOLR	EOCR		
	LR9D	SS/SSD	3DM2/FDM2	3MZ2/FMZ2/3BZ2/FBZ2
Precise Overload Protection (Inverse Time)				
Over Current Protection (Definite Time)				
Selectable Trip Clas 5-30				
Current Unbalance Protection				
Locked Rotor, Phase Loss		*		
Under current Protection				
Ground Current Protection				
Current Measurement	3CT	2CT	3CT	3CT
Current Display		#		
Direct Mounting on Contactor	\$			
Fault History				
Configurable protection functions				

* - over current based protection
- with SSD
\$ - upto 38 Amps

Possible solution
Ideal solution

Analog EOCR

- Compact
- Protection against over current/phase loss/locked rotor (phase loss/locked rotor operates by over current)
- Manual (instant)/electrical reset
- NVR (No Volt Release) function / Fail Safe
- Suitable for single-phase / 3-phase motors
- LED (operation display and active current display)

EOCR SS

- Without Display



EOCR SS			
Current Range	Control Voltage	Reference	Unit MRP [₹]
0.5-6	24-240V AC/DC	EOCRSS-05S	5190
3-30	24-240V AC/DC	EOCRSS-30S	
5-60	24-240V AC/DC	EOCRSS-60S	

Note: 2 SPST output contacts

To order an EOCR-SS:

E 0 C R S S - 0 5 S

1	Current Setting Range	5	0.5-6A	For 60A or higher, combine 05Type and an external CT (secondary 5A) for use
		30	3.0-30A	
2	Operating Power Supply	60	5.0-60A	24-240V AC/DC
		S	380-440V AC	

Note: For a CT combination type, please write an accessory code from the CT Order Codes separately.

EOCR SSD

- With Display (Operating Current & Trip Cause)



EOCR SSD			
Current Range	Control Voltage	Reference	Unit MRP [₹]
0.5-6	24-240V AC/DC	EOCRSSD-05S	7760
3-30	24-240V AC/DC	EOCRSSD-30S	
5-60	24-240V AC/DC	EOCRSSD-60S	

Note: 2 SPST output contacts

To order an EOCR-SSD:

E 0 C R S S D - 0 5 S

1	Current Setting Range	5	0.5-6A	For 60A or higher, combine 05Type and an external CT (secondary 5A) for use
		30	3.0-30A	
2	Operating Power Supply	60	5.0-60A	24-240V AC/DC
		S	380-440V AC	

Note: For a CT combination type, please write an accessory code from the CT Order Codes separately.

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

✓ NORMAL STOCK ITEMS

W.E.F. January 11, 2021

NEW Digital EOCR



Selection Table for Digital EOCR

3 D M 2 - W R D U W Z

1 2 3 4 5 6

①	Digital Electronic Over-current Relay	3DM2/ FDM2	Without Ground Fault Protection	
		3MZ2/ FMZ2	With Ground Fault Protection with External ZCT	
		3BZ2/ FBZ2	With Ground Fault Protection inbuilt ZCT	
Built-in display 3●●2			Flush mounting display F●●2	
No	Item	Type	Current Range	
②	Standard	WR	0.5...80A	
③	Relay Output	D	b (95-96), a(97-98), a(07-08) 3DM2, FDM2	
		A	a(97-98): OL, a(57-58): GF	3MZ2, FMZ2
		C	b(95-96), a(97-98): OL/GF	
		D	b(95-96) : OL, a(57-58): GF*	
④	Control Power	B	AC/DC 24V	
		U	AC/DC 100~240V	
⑤	Wiring Method	W	Window-hole type*	
		H	Bottom-hole type	
⑥	Version	Z	New version	

* Not Possible with 3BZ2/FBZ2

- Micro-controller unit based
- Real time processing / High precision
- Protections : Over current, Under current, Phase loss, Phase reversal, Stall, Jam, Current Imbalance, Earth fault (3MZ2/FMZ2/3BZ2/FBZ2)
- Current Rating – 0.5 to 400A
- Bar graph indication of a load current to the current setting.
- Ancillary functions : Fail safe, Accumulated running hour, 3 faults records & limitation of auto-restart.
- Individual phase I-THD monitoring
- Suitable low Frequency Operation
- Communication capable RS485 (Optional)

Digital EOCR				
Current Range	Control Voltage	Reference	Description	Unit MRP [₹]
0.5-80A	100-240V AC/DC	3DM2-WRDUWZ	Without ground - fault protection	16375
		3DM2-WRDUHZ		17705
		FDM2-WRDUWZ		
		FDM2-WRDUHZ	With ground - fault protection	16595
		3MZ2-WRAUWZ		
		3MZ2-WRAUHZ		
		3MZ2-WRCUWZ		
		3MZ2-WRCUHZ		
		3MZ2-WRDUWZ		
		3MZ2-WRDUHZ		19925
		FMZ2-WRAUWZ		
		FMZ2-WRAUHZ		
		FMZ2-WRCUWZ		
		FMZ2-WRCUHZ		
		FMZ2-WRDUWZ		
		FMZ2-WRDUHZ		
		3BZ2-WRAUHZ	With ground - fault protection (inbuilt ZCT)	24085
		3BZ2-WRCUHZ		24475
		FBZ2-WRAUHZ		
		FBZ2-WRCUHZ		

EOCR Accessories

ZCT - Ground Fault Protection			
	Reference	Description	Unit MRP [₹]
	ZCT-035-Z	ZCT EP 35 mm	On Request
	ZCT-080-Z	ZCT EP 80 mm	7050
	ZCT-120-Z	ZCT EP 120 mm	11600

Display Cable for FDM2/FMZ2/FBZ2			
	Reference	Description	Unit MRP [₹]
	CABLE-RJ45-001Q	CABLE 1M	1895
	CABLE-RJ45-003Q	CABLE 3M	2015

Current Transformer			
3CT - H1 - 100 - C			
1			
	Reference	Description	Unit MRP [₹]
	H1-100-Z	Square 3CT 100:5	4165
	H1-150-Z	Square 3CT 150:5	5160
	H2-200-Z	Square 3CT 200:5	5695
	H3-300-Z	Square 3CT 300:5	5990
	H4-400-Z	Square 3CT 400:5	7050
	H4-500-Z	Square 3CT 500:5	7050

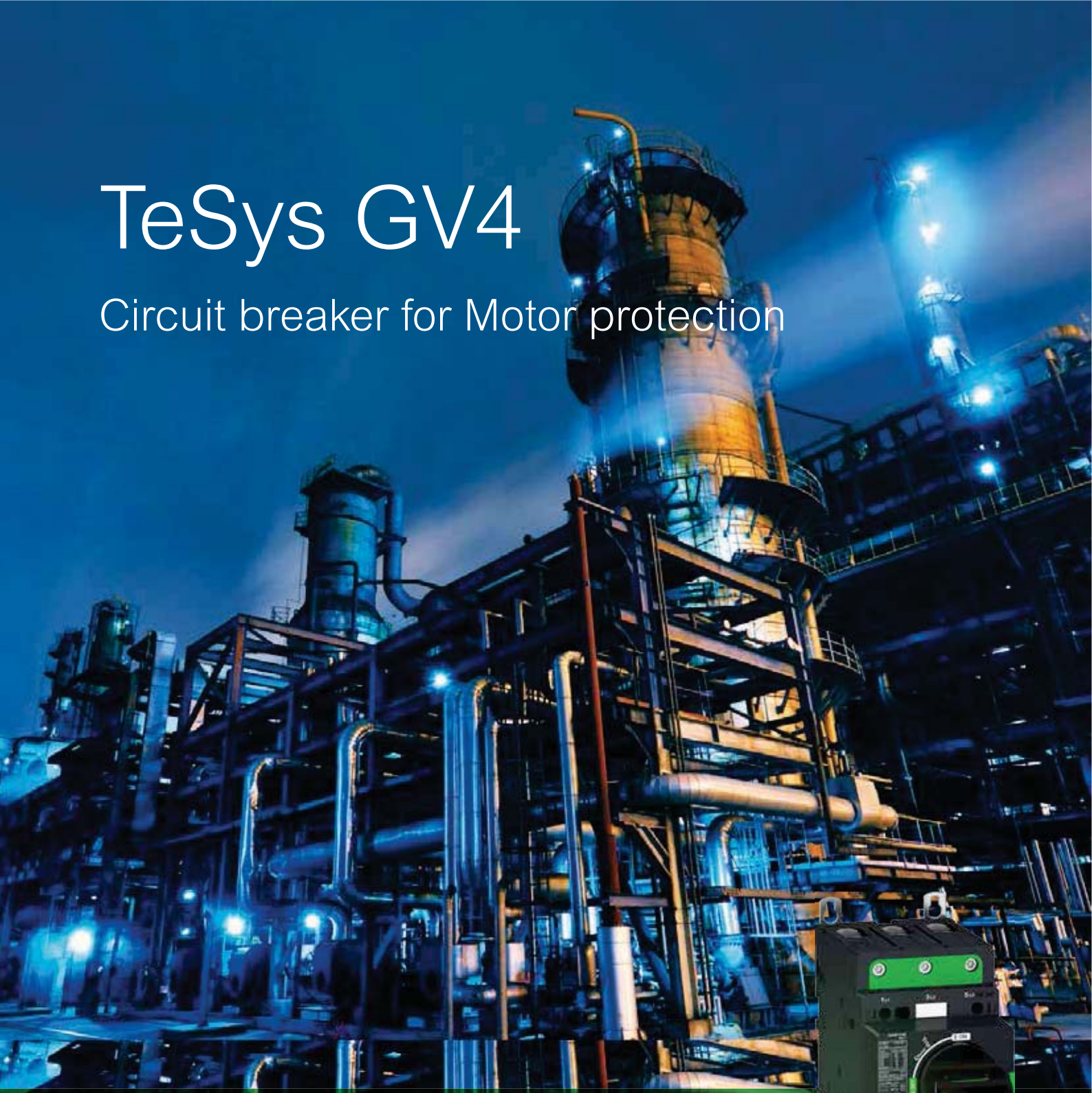
For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

✓ NORMAL STOCK ITEMS

W.E.F. January 11, 2021

TeSys GV4

Circuit breaker for Motor protection



New TeSys GV4

- Compact and Robust, covering motors upto 55kW- Breaking capacity upto 100kA
- Available with magnetic, electronic thermal magnetic and advanced protection functions including alarming, jam, long start etc
- Equipped with patented EverLink power connections for the entire range, ensuring 100% reliable connections
- Type 2 Co-ordination with TeSys range of contactors, including TeSys T motor controllers

Circuit Breakers for Motor Protection

Magnetic Circuit Breaker



- Conformance to IEC 60947 -1,-2,-4
- Magnetic circuit breakers range from 0.1-80 Amps
- High Breaking capacity up to 100kA
- Wide range of accessories

Breaking Capacity at 415V 50Hz	Motor Power AC-3** kW HP	Magnetic Protection Rating (A)	Reference	Unit MRP [₹]
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With Rocker Lever Control (Economy)*

100kA	0.09	-	0.4	GV2LE03	4075
	0.18	-	0.63	GV2LE04	
	0.37	0.5	1	GV2LE05	
	0.55	-	1.6	GV2LE06	
	1.1	1.5	2.5	GV2LE07	
	1.5	2	4	GV2LE08	
	2.2	3	6.3	GV2LE10	
	3	5.5	10	GV2LE14	
15kA	5.5	7.5	14	GV2LE16	4730
	7.5	10	18	GV2LE20	
	11	15	25	GV2LE22	
10kA	15	20	32	GV2LE32	8030

With Rotary Handle Control*

100kA	0.09	-	0.4	GV2L03	4675
	0.18	-	0.63	GV2L04	
	0.37	0.5	1	GV2L05	
	0.55	-	1.6	GV2L06	
	1.1	1.5	2.5	GV2L07	
	1.1	2	4	GV2L08	
	2.2	3	6.3	GV2L10	
	4	5.5	10	GV2L14	
50kA	5.5	7.5	14	GV2L16	13180
	7.5	10	18	GV2L20	
	11	15	25	GV2L22	
	15	20	32	GV2L32	
	18.5	25	40	GV3L40	
	22	29	50	GV3L50	
	30	40	65	GV3L65	
	37	50	73	GV3L73	
50kA	37	50	80	GV4LE80N6	13500
	55	74	115	GV4LE115N6	
	75	101	150	LV430832	
	110	147	220	LV431752	
	160	214	320	LV432749	
50kA	200	268	500	LV432949	On Request

With Protection toggle control

50kA	37	50	80	GV4LE80N6	13500
	55	74	115	GV4LE115N6	
	75	101	150	LV430832	
	110	147	220	LV431752	
	160	214	320	LV432749	
50kA	200	268	500	LV432949	On Request

* Conforming to IEC 60947-2-3-4

** 50/60Hz - 415V

• GV2-L with the D Model contactor and LRD overload relay provides Type 2 Co-ordination

** 50/60Hz - 415V

(1) With GV1-L3 current limiter, breaking capacity can be increased to 100kA. Combination of the GV2-M with the D Model provides Type 2 Co-ordination.

(2) With GV1-L3 current limiter, breaking capacity can be increased to 100kA. Combination of the GV2-P with the D Model provides Type 2 Co-ordination.

Thermal Magnetic Circuit Breaker



- Conformance to IEC 60947 -1,-2,-4, conformity to International Standards - UL, CSA, CE
- Thermal magnetic circuit breakers range from 0.1-220 Amps
- High Breaking capacity up to 100kA
- Wide range of accessories
- S-shaped busbar for side-by-side connection with 40 - 65A Contactor

Breaking Capacity at 415V 50Hz	Motor Power AC-3** kW HP	Thermal Protection Adjustment Range	Reference	Unit MRP [₹]
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With Push button Control (Economy)

100kA	-	-	0.1 - 0.16	GV2ME01	4135
	0.06	-	0.16 - 0.25	GV2ME02	
	0.09	-	0.25 - 0.40	GV2ME03	
	0.18	-	0.40 - 0.63	GV2ME04	
100kA	0.37	0.5	0.63 - 1.0	GV2ME05	4400
	0.55	0.75	1.0 - 1.6	GV2ME06	
	0.75	1	1.6 - 2.5	GV2ME07	
	1.1	2	2.5 - 4	GV2ME08	
15kA ⁽¹⁾	2.2	3	4 - 6.3	GV2ME10	4650
	3	5.5	6 - 10	GV2ME14	
	5.5	7.5	9 - 14	GV2ME16	
	7.5	10	13 - 18	GV2ME20	
15kA ⁽¹⁾	9	12.5	17 - 23	GV2ME21	5990
	11	15	20 - 25	GV2ME22	
	15	20	24 - 32	GV2ME32	

With Rotary Handle Control

100kA	-	-	0.1 - 0.16	GV2P01	4180
	0.06	-	0.16 - 0.25	GV2P02	
	0.09	-	0.25 - 0.40	GV2P03	
	0.18	-	0.40 - 0.63	GV2P04	
100kA	0.37	0.5	0.63 - 1.0	GV2P05	4795
	0.55	0.75	1.0 - 1.6	GV2P06	
	0.75	1	1.6 - 2.5	GV2P07	
	1.1	2	2.5 - 4	GV2P08	
50kA ⁽²⁾	2.2	3	4 - 6.3	GV2P10	4945
	3	5.5	6 - 10	GV2P14	
	5.5	7.5	9 - 14	GV2P16	
	7.5	10	13 - 18	GV2P20	
35kA ⁽²⁾	9	12.5	17 - 23	GV2P21	7475
	11	15	20 - 25	GV2P22	
	15	20	24 - 32	GV2P32	
50kA	18.5	25	30...40	GV3P40	12595
	22	29	37...50	GV3P50	
	30	40	48...65	GV3P65	
	37	50	62...73	GV3P73	
	55	74	115	GV4PE115N6	

With Protection toggle control

50kA	37	49.58	40...80	GV4PE80N6	17500
	55	73.7	65...115	GV4PE115N6	

With Direct Rotary Handle

70KA	75	101	70...150	GV5P150H	34500
	110	147	100...220	GV5P220H	40250
	160	214	160...320	GV6P320H	51750
	200	268	250...500	GV6P500H	71300

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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MCCB for Motor Protection

GV4LE



- IEC/EN 60947-1, IEC/EN 60947-2, CCC, EAC
- Can be used with class 5, 10 or 20 relay
- Short Circuit Protection with an adjustable pick-up $I_i = 6$ to $14 I_n$.
- From 0.25 - 55kW

Magnetic Protection Toggle Control

Motor Power AC-3 (400/415V AC)		In	Magnetic setting range	25kA breaking capacity		50kA breaking capacity		100kA breaking capacity	
kW	HP	(A)	A	Reference	Unit MRP [₹]	Reference	Unit MRP [₹]	Reference	Unit MRP [₹]
0.25..0.75	0.3..1	2	12..28	-	-	GV4LE02N6	10800	GV4LE02S6	13800
0.55..1.5	0.7..2	3.5	21..49	-	-	GV4LE03N6		GV4LE03S6	
1.5..3	2..4	7	42..96	-	-	GV4LE07N6		GV4LE07S6	
3..5.5	4..7.5	12.5	75..175	-	-	GV4LE12N6		GV4LE12S6	
5.5..11	7.5..14	25	150..350	GV4LE25B6	On Request	GV4LE25N6	13500	GV4LE25S6	16500
11..22	15..30	50	300..700	GV4LE50B6		GV4LE50N6		GV4LE50S6	
18.5..37	25..50	80	480..1120	GV4LE80B6		GV4LE80N6		GV4LE80S6	
30..55	40..75	115	690..1610	GV4LE115B6		GV4LE115N6		GV4LE115S6	

Note: For Everlink termination please order after removing the 6 at the end Eg. GV4LE115N

GV4PE



- IEC/EN 60947-1, IEC/EN 60947-2, IEC/EN 60947-4-1, UL 60497-4-1, CCC, EAC, CSA
- Overload or thermal protection
- Short time delay protection
- Short circuit protection
- Fixed Ground fault protection
- Phase unbalance or phase loss
- Front indications through LED
- Variable Trip class : Trip Class 10/ Trip Class 20

Thermal Magnetic Protection Toggle Control

Motor Power AC-3 (400/415V AC)		In	Thermal setting range	25kA breaking capacity		50kA breaking Capacity		100kA breaking Capacity	
kW	HP	(A)	A	Reference	Unit MRP [₹]	Reference	Unit MRP [₹]	Reference	Unit MRP [₹]
0.25..0.75	0.3..1	2	0.8..2	-	-	GV4PE02N6	14800	GV4PE02S6	16000
0.55..1.5	0.7..2	3.5	1.4..3.5	-	-	GV4PE03N6		GV4PE03S6	
1.5..3	2..4	7	2.9..7	-	-	GV4PE07N6		GV4PE07S6	
3..5.5	4..7.5	12.5	5..12.5	-	-	GV4PE12N6		GV4PE12S6	
5.5..11	7.5..14	25	10..25	GV4PE25B6	On Request	GV4PE25N6	17500	GV4PE25S6	18500
11..22	15..30	50	20..50	GV4PE50B6		GV4PE50N6		GV4PE50S6	
18.5..37	25..50	80	40..80	GV4PE80B6		GV4PE80N6		GV4PE80S6	
30..55	40..75	115	65..115	GV4PE115B6		GV4PE115N6		GV4PE115S6	

Note: For Everlink version please order after removing the 6 at the end. Eg. GV4PE115N

Crimp Lug/busbar connection

Description		Sold in lots of	Reference
Crimped lug connector + screws		1	GV4LUG
Transparent terminal shield for crimped lug connector		1	LAD96590
Interphase barriers		6	LV426920
Spreader 3-pole	To increase the pitch to 35 mm	1	LV426940

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

☒ NORMAL STOCK ITEMS

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Accessories for GV4



MX Shunt Trip

- Trips the circuit breaker when the control voltage rises above 70% of rated voltage
- Shunt trip 110..130V AC is suitable.. etc for ground fault protection when combined with a Class I ground fault sensing element

MN Under Voltage Release

Trips the circuit breaker when the control voltage drops below 35% of its rated voltage

Description	Mounting	Voltage	References	Unit MRP [₹]
Mx Shunt Trip	Internal, Plug-In	220-240 VAC 50 Hz, 208-240 VAC 60 Hz, 277 VAC 60 Hz	GV4AS287	2620
Mn Under Voltage Release	Internal, Plug-In	440-480 VAC 60 Hz	GV4AU486	3425

Auxiliary Contact Blocks



An auxiliary contact block provides one changeover contact with one common point for OF and SD function, depending on where it is inserted

Open/Close OF Function: indicates position of the circuit breaker contacts

Trip Alarm SD Function: indicates circuit breaker tripping due to:

- Electrical fault (overload, short circuit)
- Shunt trip/Undervoltage release
- "Push to Trip" Function

Resets when the circuit breaker is reset

Description	Maximum Number	Mounting	Type of Contacts	Reference	Unit MRP [₹]
Auxiliary Contact Block	2 (1 Each For OF or SD)	Internal Plug-In	NO + NC	GV4AE11	920

Rotary Handles

Description	Type	Degree of Protection	Reference	Unit MRP [₹]
Direct Mounting Rotary Handle	BLACK	IP40	GV4ADN01	1375
	BLACK	IP54	GV4APN01	
Front Extended Rotary Handle (Min Shaft Length 214Mm/Max Shaft Length 627Mm)	RED HANDLE ON YELLOW BEZEL	IP54	GV4APN02	2040
	RED HANDLE ON YELLOW BEZEL	IP65	GV4APN04	2145

Connection Accessories

Description	Reference
Spreader 3-pole (To increase pitch to 35mm) (1 pce)	LV426940

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

☒ NORMAL STOCK ITEMS

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Accessories for Motor Circuit Breakers

Description	Reference	Unit MRP [₹]
For GV2		
Front contact NO or NC ⁽¹⁾	GVAE1	895
Front contact NO + NC	GVAE11 ☒ GVAE20	1095 1210
Side contact NO + NC	GVAN11 ☒ GVAN20	1325
Fault signalling contact + 1NO contact ⁽²⁾	GVAD1010 ☒	1725
Fault signalling contact + 1NC contact ⁽²⁾	GVAD1001	
Short circuit signalling contact block 1 C/O	GVAM11	1645
Under voltage trip	110 ... 115V 50Hz GVAU115 220 ... 240V 50Hz GVAU225 380 ... 400V 50Hz GVAU385	2865
Shunt trip	110 ... 115V 50Hz GVAS115 220 ... 240V 50Hz GVAS225 380 ... 400V 50Hz GVAS385	3150
Additive limiter for increasing breaking capacity to 100kA for GV2ME and GV2P.	GV1L3	5085
Connection block - GV2 with contactor LC1-D09..D38	GV2AF3	620
Connection block - LS1 D32 or GV2 with Contactor LC1-K or LP1-K	GV2AF01	665
Empty enclosure for GV2ME - plastic	GV2MP02 GV2MC02	2345 2580

(1) Choice of NC or NO contact operation depending on which way round the reversible block is mounted.

(2) The GV-AD is always mounted next to the circuit breaker.

Busbars

Connection Pitch	No. of Tapoff Points	Reference	Unit MRP [₹]
For GV2 Breakers			
45 mm	2	GV2G245	1380
	4	GV2G445	2180
	2	GV2G254	1575
54 mm	3	GV2G354	1770
	4	GV2G454	2220
	5	GV2G554	2405
72 mm	4	GV2G472	2715

Description	Reference	Unit MRP [₹]
Accessories for Busbars		
Terminal block - to supply one or more 3-pole busbar GV2	GV2G05	3405
Protective end covers for unused busbar outlets	GV1G10	600
Terminal block for connection from top	GV1G09	1780

Accessories for Motor Circuit Breakers

Description	Reference	Unit MRP [₹]
For GV2-P/GV2-L		
External operator - IP54, Black	GV2APN01 ☒	3160
External operator - IP54, Yellow/Red	GV2APN02	5820
Visible isolation block - for motor circuit breaker GV2	GV2AK00	2645
For GV3P/GV3L		
Auxiliary Contacts		
Front contact: 1 NO (fault) + 1NC (Auxiliary)	GVAED011	1140
Front contact: 1 NO (fault) + 1NO (Auxiliary)	GVAED101	1255
Busbar		
3-pole, 3 tap, 64 mm pitch	GV3G364	1325
S-shape bus bar	GV3S	995
External Operator		
IP54, Black	GV3APN01	3770
IP54, Yellow/Red	GV3APN02	3620

Note: All other accessories are same as of GV2.

Busbars GV3G364 and GV3S are not compatible with GV3*73 and GV3*80.

Description	Operating Voltage	Reference	Unit MRP [₹]
For GV5 and GV6			
Auxiliary contact - 1 OC	-	GV7AE11 ☒	2105
Clip-on connector - upto 150 A - 1.5..95 mm ²	-	GV7AC021	865
Clip-on connector- upto 220 A - 1.5..185 mm ²	-	GV7AC022	820
Front rotary handle		GV7AP03	3625
GV7AP GV7R - black handle ⁽²⁾	-	GV7AP01	6305
Padlocking device - 1..3 padlocks Ø 5..8mm shank ⁽³⁾	-	GV7V01	965
Terminal shields IP405 ⁽¹⁾	-	GV7AC01	2240

For GV5 and GV6

Shunt release	200...240 V AC 50/60 HZ	GV7AS207	4790
Under Voltage release	200...240 V AC 50/60 HZ	GV7AU207	4945

(1) Terminal shields cannot be used together with spreaders.

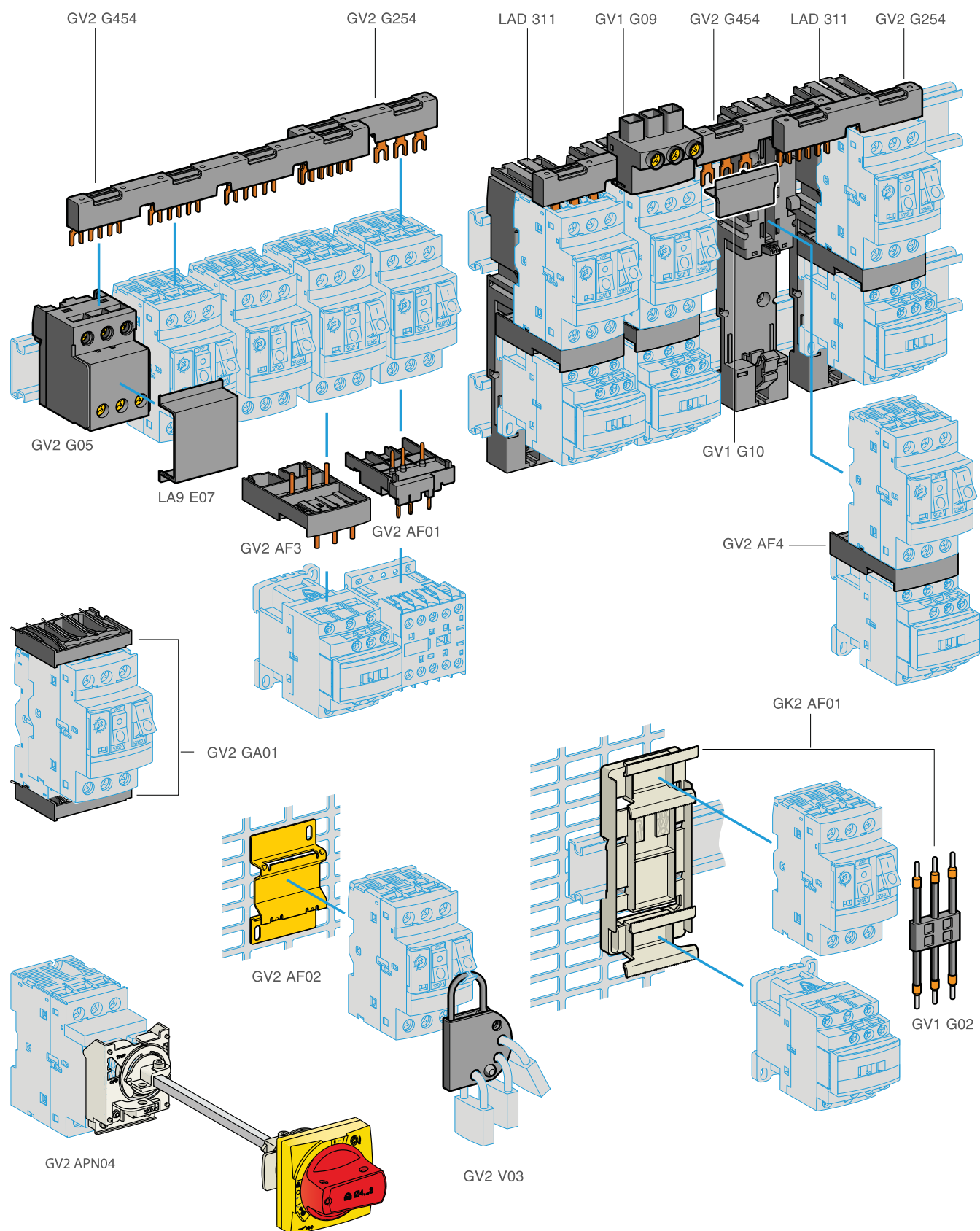
(2) For mounting direct rotary handle on enclosure door.

This accessory makes it possible to open the door If the device is closed and prevents the device from being closed if the door is open.

(3) For Circuit breaker not fitted with a rotary handle

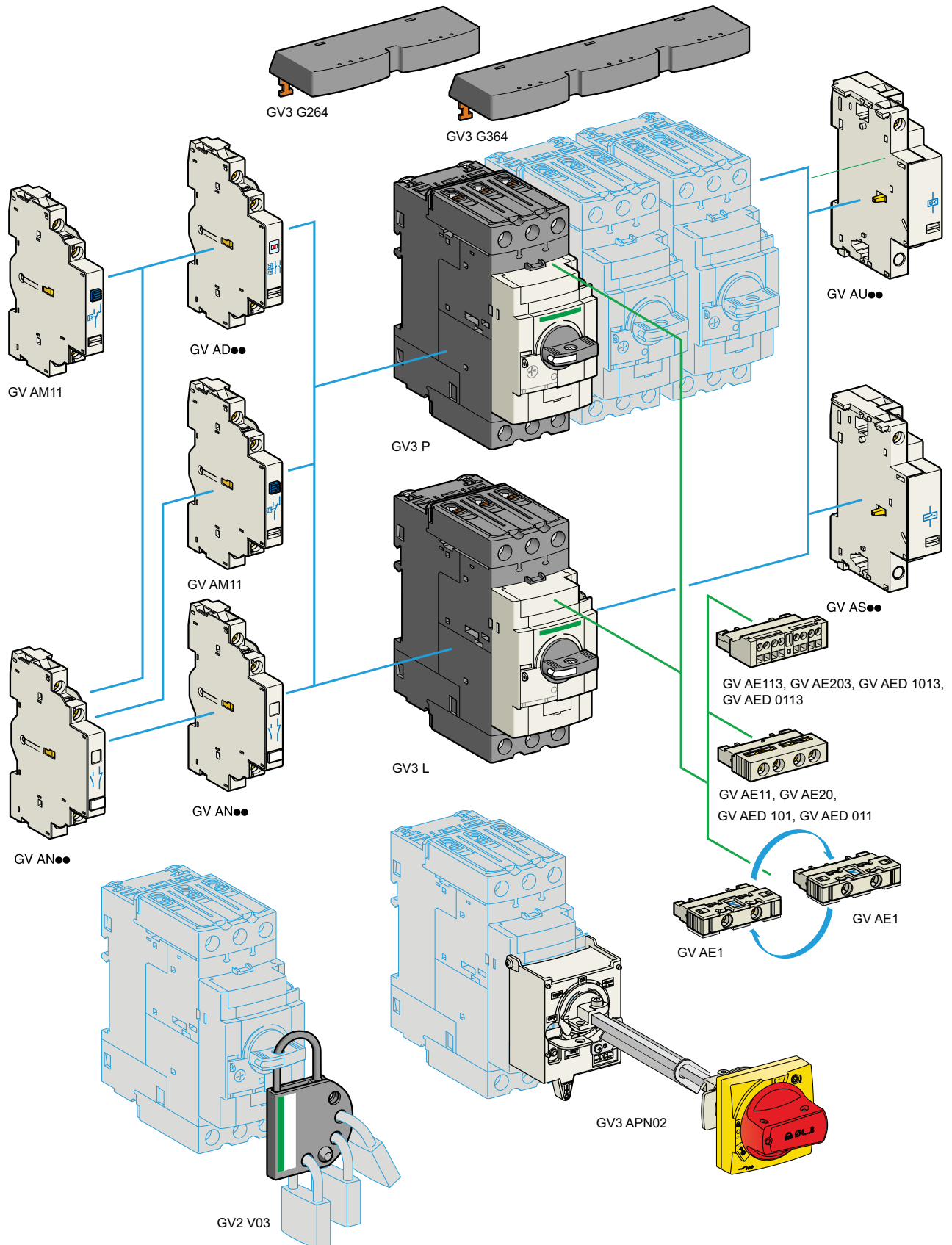
TeSys

Accessories compatibility

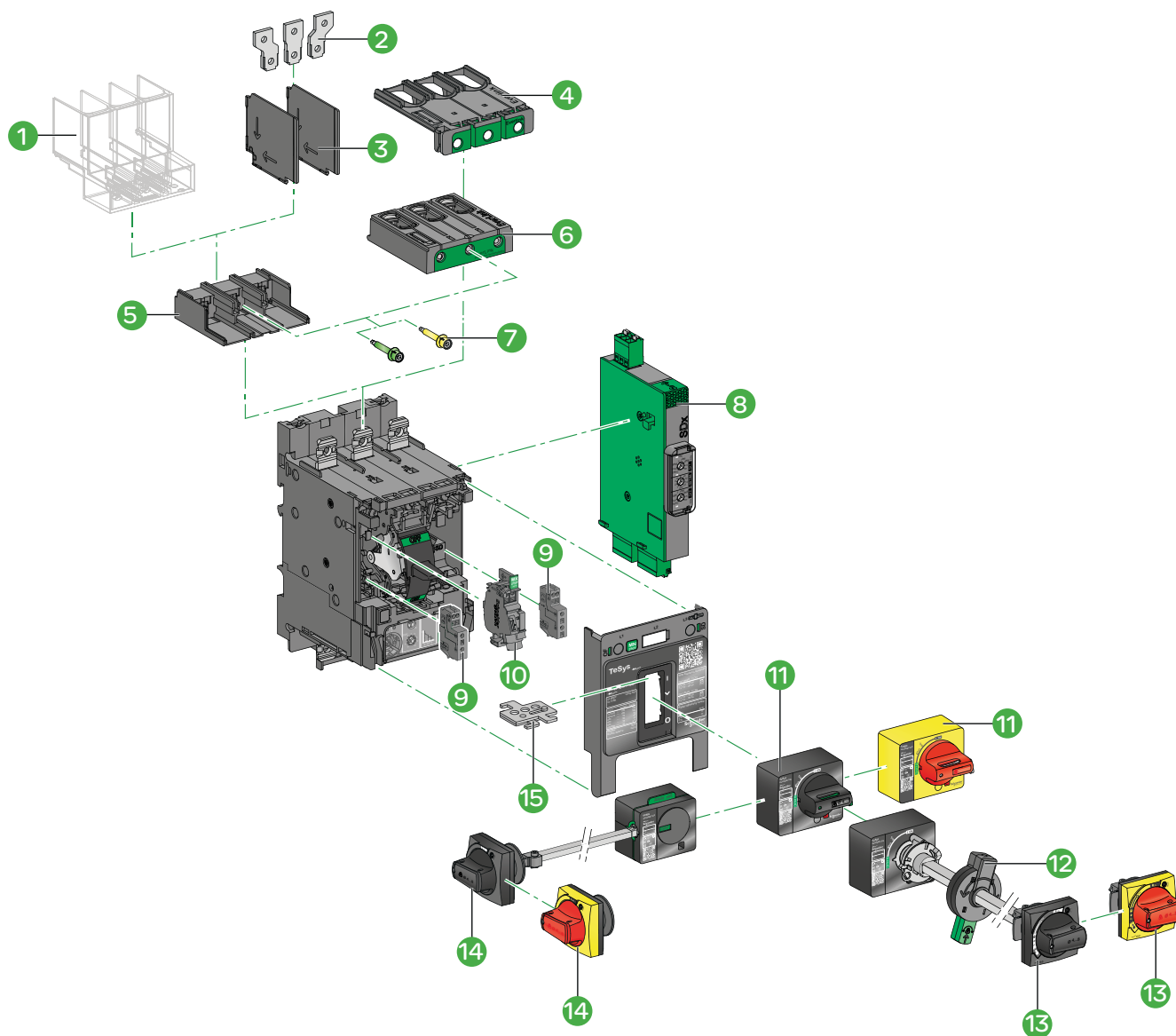


TeSys

Accessories compatibility



TeSys GV4 Overview



- ① Long terminal shield LAD96590
- ② Terminal spreaders LV426940
- ③ Interphases barriers LV426920
- ④ Large spacing cover for EverLink connector GV4G66
- ⑤ Crimp lug connector GV4LUG
- ⑥ EverLink® connector LAD96595
- ⑦ Torque limiting breakaway bits LV42699p
- ⑧ SDx alarming/fault differentiation module GV4ADM1111 (only with GV4PEM)
- ⑨ Auxiliary contact block for OF or SD function GV4AE11
- ⑩ - MN undervoltage release GV4AUpp
- MX shunt trip GV4ASpp
- ⑪ Direct mounting black or red on yellow bezel rotary handle GV4ADN01/ GV4ADN02
- ⑫ Open door shaft operator (for front extended rotary handle) LV426937
- ⑬ Front extended rotary handle kit with red handle on yellow bezel or black handle GV4APN01/ GV4APN02 /GV4APN04
- ⑭ Side rotary handle kit with red handle on yellow bezel or black handle LV426935/LV426936.
- ⑮ Toggle locking device 29370

Linergy

Linergy is tailored for your flexible panel needs (changes right up to the last minute)

Because Linergy is:

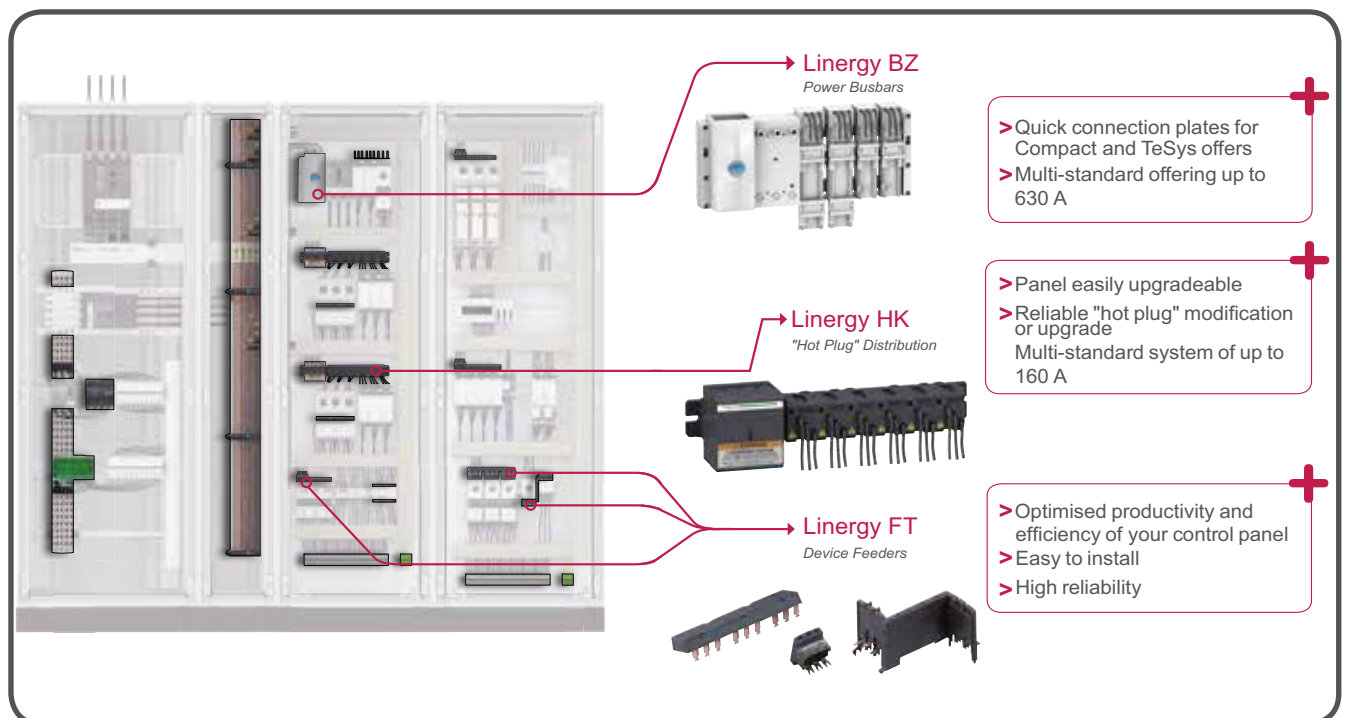
Flexible



Safer



Reliable



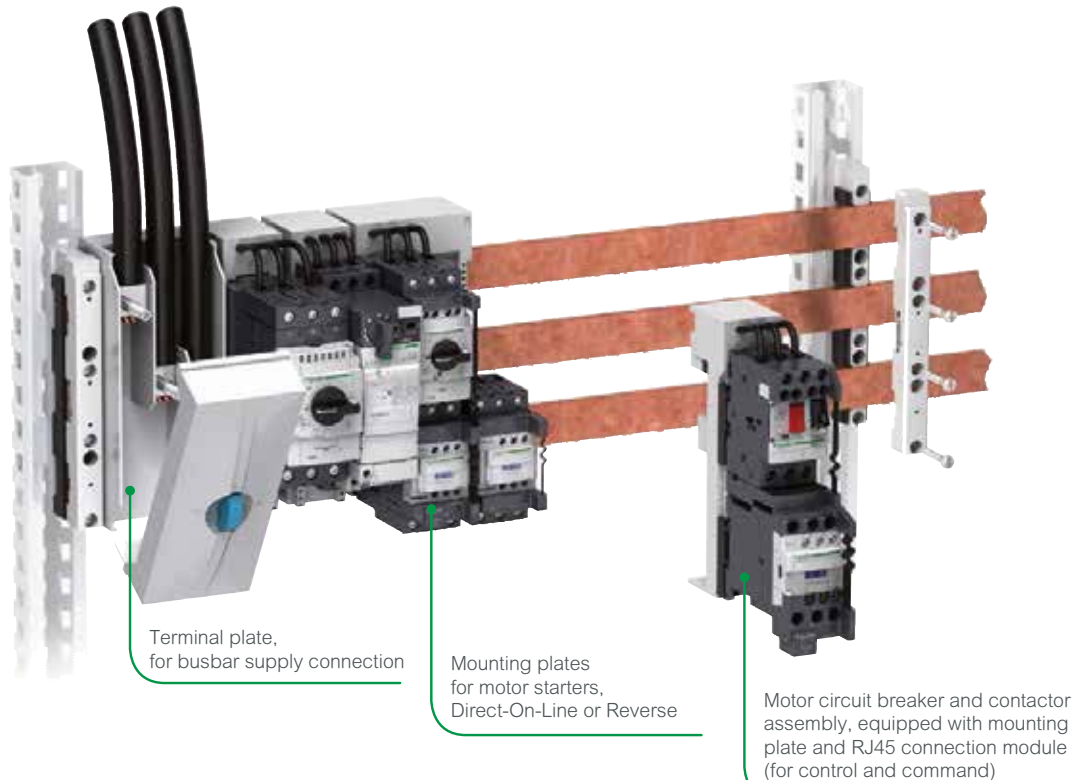
- > Quick Installation
- > Multi Standard Offer
- > Intuitive Solution

Linergy BZ

Linergy BZ, Multistandard power busbar system,

Application: power distribution to motor starters

In control switchboards, when space saving, quick mounting and replacement are required



Advantages

- Considerable space saving: components are directly mounted on the busbar
- Large choice of mounting plates (for GV2, GV3 motor circuit breakers and assemblies, GV7, TeSys U)
- Quick connection, disconnection (power off): clip-on mounting plates
- Vibration resistant busbar connections: no periodical re-tightening required

Detailed view: back face of a motor starter mounting plate

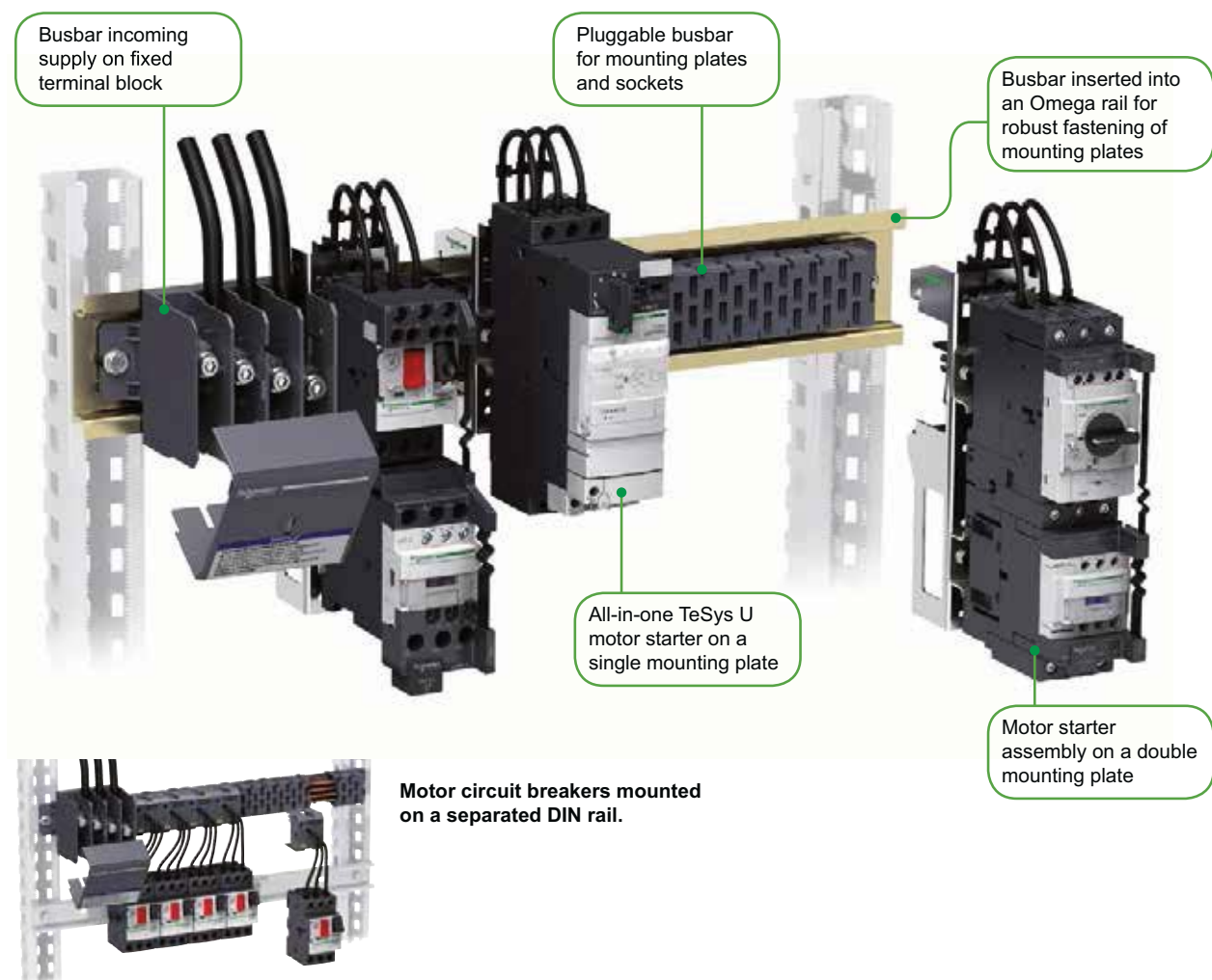
- A reliable electrical contact is ensured by copper blades
- The blue part locks the mounting plate on the busbar, compatibility is provided with standard profiles:
- Height 12, 15, 20, 25 or 30 mm,
- Width 5 or 10 mm



Linergy HK

Linergy HK, Multistandard hot-plug busbar system,
Application: electrical distribution to motor starters

When compactness and continuity of service are required



Advantages

- Space saving in compact enclosures: the total volume is reduced to that of the motor starter assemblies
- Preserved continuity of service during modification and maintenance: live connection, disconnection (off load)
- Wide adaptability: 6 busbar lengths from 344 to 1100 mm, 12 models of sockets, 23 mounting plates for motor starters up to 25 or 50 A

Detailed view: mounting plate back face

- Thanks to the plug and its pre-cabled wires the motor starter is safely assembled in the workshop, for immediate or later use.
- A piece of DIN profile rail is attached on the front face of the mounting plate for fastening the components.
- The metal mounting plate ensures a rigid and robust fastening on the omega rail.



Vario Switch Disconnectors

[Ithe] Conventional Thermal Current**	Poles Description	Rated Operational Power (AC-23)*	Reference	Unit MRP [₹]
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Complete Enclosed Switches

• Range 12 to 175A, IP 65 Sealable and Lockable

10	3P	4 KW	VCF02GE	2990
16	3P	5.5 KW	VCF01GE	3260
20	3P	7.5 KW	VCF0GE	3960
25	3P	11 KW	VCF1GE	4250
32	3P	15 KW	VCF2GE	4980
50	3P	22 KW	VCF3GE	7700
63	3P	30 KW	VCF4GE	9010

* Rated Power at 415V

** Ith in enclosure

For Switch Type (Amps)	Mounting Arrangement	Ingress	Reference	Unit MRP [₹]
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Operators (Padlockable)

12 - 40	4 Screw Fixing	IP65	KCF1PZ	700
63 - 80	4 Screw Fixing	IP65	KCF2PZ	745
125 - 175	4 Screw Fixing	IP40	KCF3PZ	3025

Accessories

Description	For Use with Switch Bodies	Rating in A	Pole Composition	Earth Contact	Auxiliary Contacts	Reference	Unit MRP [₹]
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Vario Add-on Modules ⁽¹⁾

Main Pole Module	V02/VCF02	12	1P	-	-	VZ02	875
	V01/VCF01	20	1P	-	-	VZ01	895
	V0/VCF0	25	1P	-	-	VZ0	950
	V1/VCF1	32	1P	-	-	VZ1	930
	V2/VCF2	40	1P	-	-	VZ2	995
	V3/VCF3	63	1P	-	-	VZ3	1295
	V4/VCF4	80	1P	-	-	VZ4	
Neutral Pole Module ⁽²⁾	V02 / VCF02 to V2 / VCF2	-	1N	-	-	VZ11	1065
	V3 / VCF3 to V4 / VCF4	-	1N	-	-	VZ12	1430
	V5 / VCF5 to V6 / VCF6	-	1N	-	-	VZ13	2950
Earthing Module	V02 / VCF02 to V2 / VCF20	-	-	-	-	VZ14	1055
	V3 / VCF3 to V4 / VCF4	-	-	1	-	VZ15	1245
	V5 / VCF5 to V6 / VCF6	-	-	1	-	VZ16	1930
Auxiliary Contact Block Module	V02/ VCF02 to V6 / VCF6	-	-	-	1NO + 1NC	VZ7	1100
	V2/ VCF02 to V6 / VCF6	-	-	-	2NO	VZ20	1100

(1) For mounting option of modules, please refer to the technical catalogue.

(2) With early make and late break contacts

Description	For Use With	Reference	Unit MRP [₹]
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Components for Door Interlocking

Shaft extension - for Mini-VARIO and VARIO - V02..V2	V02...V2	VZ17	1055
		VZ30	1245
Shaft extension - for Mini-VARIO and VARIO - V3 V4 V5 V6	V3, V4, V5, V6	VZ18	1415
		VZ31	
Door interlock plate	VZ17 / VZ30	KZ32	295
		KZ74	510

Input Terminal Protection Shrouds

Terminal Shrouds	V02 - V2	VZ8	355
		VZ26	310
	V3 - V4	VZ9	375
		VZ27	310
	V5 - V6	VZ10	475
		VZ28	525
	V02 - V6	VZ29	355

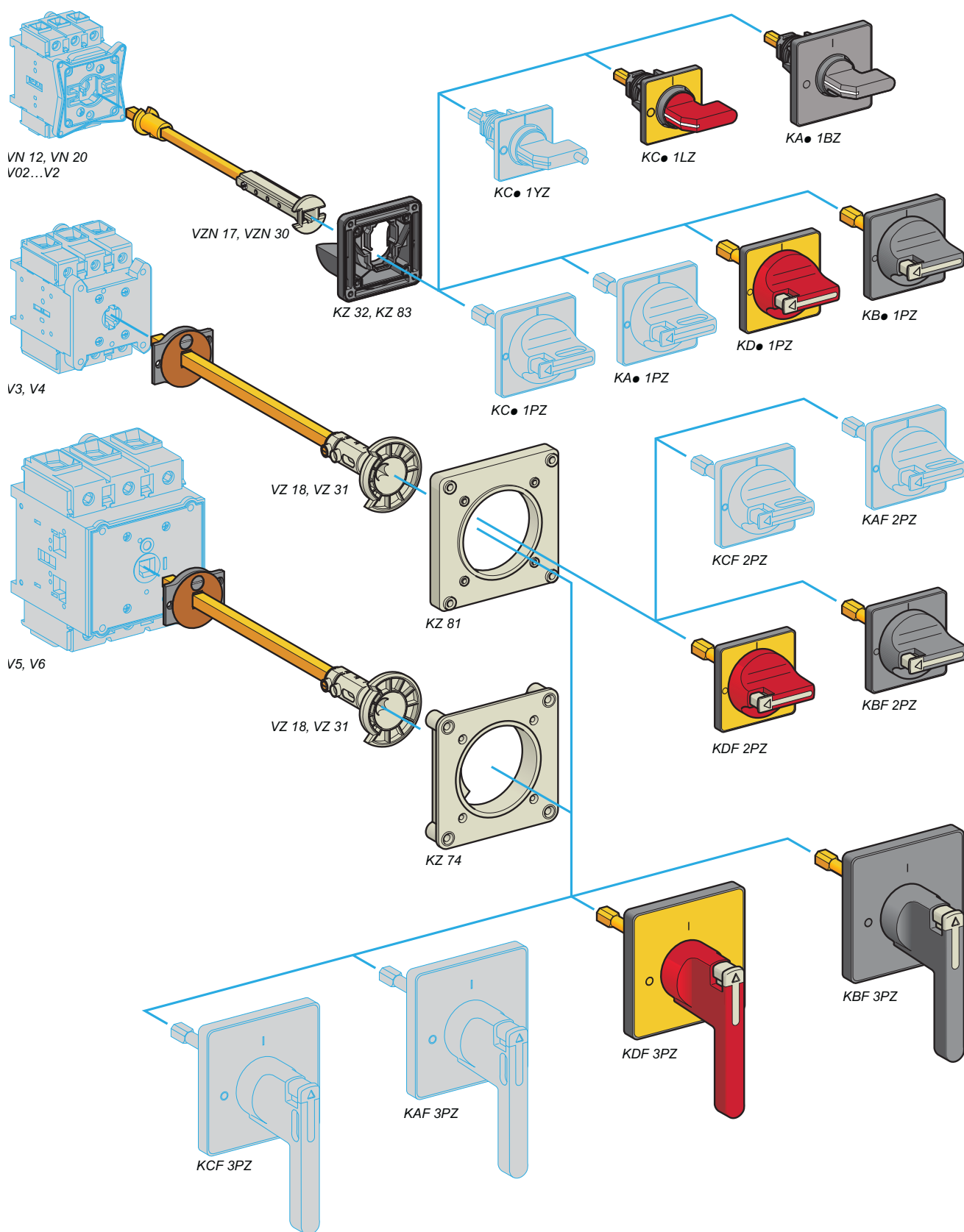
For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

✓ NORMAL STOCK ITEMS

W.E.F. January 11, 2021

TeSys Switches

Accessories



TeSys™ island

Island Concept

TeSys island is an innovative digital load management solution-providing data for higher machine efficiency and ease of servicing, and allowing faster time to market.

TeSys island is a modular, multifunctional system providing integrated functions inside an automation architecture, primarily for the direct control and management of low-voltage loads.

After commissioning, TeSys island can switch, help protect, and manage motors and other electrical loads up to 37 kW installed in an electrical control panel.

This system is designed around the concept of TeSys avatars. These avatars:

- Are the functional object representing a logical function of the physical module with pre-defined logic
- Determine the configuration of the island.

The logical aspects of the island are managed with software tools, covering all phases of product and application lifecycle: design, engineering, commissioning, operation, and maintenance.



- | | |
|----------------------------|--------------------------|
| 1 Bus Coupler | 5 Power interface module |
| 2 Analog I/O module | 6 Standard Starter |
| 3 Digital I/O module | 7 SIL Starter |
| 4 Voltage interface module | 8 SIL interface module |

Designation		Product commercial reference	
TeSys island components			
Standard Starter	9A (AC-3)		TPRST009
	25A (AC-3)		TPRST025
	38A (AC-3)		TPRST038
	65A (AC-3)		TPRST065
	66A (AC-3) - 80A (AC-1)		TPRST080
SIL Starter	9A (AC-3)		TPRSS009
	25A (AC-3)		TPRSS025
	38A (AC-3)		TPRSS038
	65A (AC-3)		TPRSS065
	66A (AC-3) - 80A (AC-1)		TPRSS080
Power interface module	9A (AC-3)		TPRPM009
	38A (AC-3)		TPRPM038
	80A (AC-3)		TPRPM080
Voltage interface module			TPRVM001
SIL interface module			TPRSM001
Digital I/O module	(4 input - 2 output)		TPRDG4X2
Analog I/O module	(2 input -1 output)		TPRAN2X1
Bus Coupler	EtherNet/IP - Modbus TCP		TPRBCEIP
	PROFINET		TPRBCPFN
	PROFIBUS		TPRBCPFB
Assembly and Wiring Kits			
Kit for reversing starter application	for 9, 25, 38A (size 1 and 2) starters		LAD9R1
	for 65, 80A (size 3) starters		LAD9R3
Jumper bar 3-pole for Star Delta application	for 9, 25, 38A (size 1 and 2) starters		LAD9P3
	for 65, 80 A (size 3) starters, a hazard sticker is provided		LAD9SD3S

TeSys U - Make the Starter Smarter



- Total Coordinated Starter – 3 functions in a single device
- Compact Starter, DOL / RDOL upto 15kW (32A, AC-3) in 45mm width
- Direct connectivity to Modbus / Profibus / CANopen / DeviceNet / AS-i
- Higher switching life - 15Million operations, 2Million AC-43 electrical life
- Breaking capacity upto 130kA

Control Unit

Performs all the electrical protection functions to cover main applications from 0 to 32A.

Some of these also provide advanced measurement, alarm and display functions.

4 simple function modules

Thermal overload alarm Indication of motor load
Thermal overload signalling and manual reset
Thermal overloaded signalling and automatic or remote reset.

6 communication modules

AS-Interface
Profibus DP
CANopen
DeviceNet
Advantys STB
Modbus.

Power Base

For assembling components, ON/OFF operation and resetting.
> 2 power bases:
upto 12A and upto 32A
> Direct starter and reversing starter models.

40%

"TeSys solutions allow us to reduce the size of our enclosure" says a panel builder from the water treatment sector

60%

"Late customization means that we can build 60% of the panels, even though the project design has not yet been completed" says an engineer in a food processing industry

Quick Selection

Select 1	+	Select 1	Optional	or	Optional	or	Optional	Accessories
BasePower Unit Non-Reversing LUB 120 0... 12A with terminal 12 0... 12A no terminal 120* 0... 32A with terminal 32 0... 32A no terminal 320* Reversing LUB2B 120 BL 0... 12A with terminal 12 0... 12A no terminal 120* 0... 32A with terminal 32 0... 32A no terminal 320* 24 V DC BL 24 V AC B 48...72 VAC/48 VDC ES 110...240 VAC/DC FU *Prewired cables to be ordered separately		Control Unit LUC B X6 BL Class 10, 3Ph B Class 10, 1Ph C Class 20, 3Ph D Multifunction M 0.15 to 0.6 A X6 0.35 to 1.4 A 1X 1.25 to 5 A 05 3 to 12 A 12 4.5 to 18 A 18 8 to 32 A 32 24V DC BL 24VAC B 48...72 VAC/48 VDC ES 110...240VAC/DC FU	Communication Module* LULC 033 Modbus Serial 033 Profibus DP 07 CANopen 08 DeviceNet 09 Advantys STB 15 ASI V2 ASILUFC51	or	Function Module LUF DH11 Fault diff. with manual reset DH11 Fault diff. with auto reset DA10 Thermal overload pre-alarm W10 Motor load indication (4-20mA) V2	or	Auxiliary Contacts Contactor auxiliary contacts LUFN 11 1NO + 1NC 11 2NC 02 2NO 20 Side contacts 2NO LUARE20 Power auxiliary contacts (trip status) LUA1C 20 1NO + 1NC 11 2NO 20	Accessories Line spacer for UL508 Type E LU9SPO Current limiter 130kA@460V LUALB1

*Suitable with 24V DC starter variant only

Note: For prices please contact regional sales office or customer care centre

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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W.E.F. January 11, 2021

Wherever productivity is a concern, intelligence to Motor Control is the solution



TeSys T Intelligence system optimises the operational performance of LV motors through advanced protections and embedded intelligent functions inside intelligent Motor Control Centre (iMCC)



Discover
TeSys T



Tesys T Motor Management Systems

TeSys T covers all load monitoring and protection needs from feeders to critical process automation. The equipment is protected, while advanced diagnostics, statistics, and alarms help in anticipating unexpected production halts and minimize downtime. TeSys T is compact and a natural fit for control panels with IEC or NEMA standards. In addition, the system's connectivity and access to real-time data provides key information to enhance the operation and safety of the process while improving efficiency.

Tesys T Controller:

Intelligent motor controller for 1P/3P Motors with built in CT up to 100Amps with accurate monitoring and protection functions, 6DI, 4DO, 1CBCT input, 1 Temperature probe

Protection Functions:

- Thermal overload
- Phase imbalance and phase overloads
- Temperature monitoring via probes
- Phase reversal
- Ground fault detection
- Long start and Jam protection
- Load shedding
- Load fluctuations
- power factor monitoring

Monitoring Functions:

- Phase and average current
- Line to Line and average voltage
- Motor temperature, ground current
- Active and Reactive Energy
- Frequency & Power Factor
- Detailed Fault history
- Fault counts
- motor statistics

Control Functions:

- Local / Remote / HMI control
- Predefined programs for DOL, RDOL, Star-delta, two-speed starters

Communication:



Quick Selection

TeSys T Controller

Reference			
	LTM R	100	E BD
Current Range	0.4 - 8 A	08	
	1.35 - 27 A	27	
	5 - 100 A	100	
Network Protocol	CAN Open	C	
	DeviceNet	D	
	Ethernet IP / Modbus TCP/IP	E	
	Modbus	M	
	Profibus DP	P	
Control Voltage	24 V DC	BD	
	110-240V AC	FM	



TeSys T
Full and Flexible
Intelligent Motor
Management System

TeSys T Accessories

TeSys T Expansion Module^{1,2}

Control Voltage	Reference
24 V DC	LTM EV40BD
110V AC	LTM EV40FM

¹ Required for Voltage & Power measurement
² 4 digital inputs

Connector for Expansion

Length (m)	Reference
0.04	LTMCC004 ³
0.3	LTM9CEXP03

³ Sold in lots of 6

Operator Control Display

Description	Reference
Operator Control Display with configuration backup	LTM CUF

Controller to Display Cable

Length (m)	Reference
1.0	LTM9CU10
3.0	LTM9CU30

Ground Fault CT's

Primary [A]	Internal Ø "d" [mm]	Reference
65	30	50437
85	50	50438
160	80	50439
250	120	50440
400	200	50441
630	300	50442

Current Transformers⁴

Primary [A]	Secondary [A]	Reference
100	1	LT6 CT1001
200	1	LT6 CT2001
400	1	LT6 CT4001
800	1	LT6 CT8001

Description	Composition	Reference
Programming software SoMove	1 Program for each PC	On request
PC connecting cable	USB to RS485 Converter	TCSMCNAM3M002P

Note: For prices please contact regional sales office or customer care centre

TE Start - Lifeline of Motors



>> TDL



>> TSD/A



>> TRS

TE Start & TeSys Motor Starters

- Exhaustive Range of industrial starters consisting of DOL, Reversing, Automatic star delta starters
- Better aesthetic & Assured performance
- Test to trip facility
- Built in single phasing protection

DOL Starters



Motor Power HP	Thermal Protection Adjustment Range	Device Short Name	Reference	Unit MRP [₹]
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TDL, Automatic 1 Phase (0.17 - 3 HP)

0.17	1.1...1.7	5TDL	MS11AC04*	3020
0.33	2.5...4	5TDL	MS11AC06*	
0.5	4...6	5TDL	MS11AC07*	
1	5.5...8	5TDL	MS11AC09*	3370
1.5	9...13	10TDL	MS11AC10*	
2	12...18	10TDL	MS11AC11*	
3		10TDL	MS11AC13*	

TDL, Automatic 3 Phase (0.05 - 125 HP)

0.05	0.16...0.25	5TDL	MS13AC01*	2890
0.125	0.24...0.4	5TDL	MS13AC03*	
0.25	0.63...1	5TDL	MS13AC05*	
0.33		5TDL	MS13AC06*	
0.5	1...1.7	5TDL	MS13AC07*	
0.75		5TDL	MS13AC08*	
1	1.6...2.5	5TDL	MS13AC09* ✓	3000
1.5		5TDL	MS13AC10*	
2	2.5...4	5TDL	MS13AC11* ✓	
3	4...6	5TDL	MS13AC12* ✓	3350
5	5.5...8	5TDL	MS13AC14* ✓	
7.5	9...13	10TDL	MS13AC15* ✓	
10	12...18	10TDL	MS13AC16* ✓	5655
12.5	16...24	15TDL	MS13AC17*	
15		15TDL	MS13AC18* ✓	
17.5	23...32	20TDL	MS13AC19*	9205
20		20TDL	MS13AC20*	
25	30...40	30TDL	MS13AC21*	
30	37...50	30TDL	MS13AC22*	14500
40	48...65	40TDL	MS13AC24*	
50	63...80	50TDL	MS13AC26*	
75	84...135	75TDL	MS13AC28*	43335
100	124...198	100TDL	MS13AC29*	
125		125TDL	MS13AC30*	

TRS, Automatic Reversing 3 Phase (3 - 20 HP)

3	4...6	10TRS	MS13RJ12*	8210
5	5.5...8	10TRS	MS13RJ14*	
7.5	9...13	10TRS	MS13RJ15*	
10	12...18	10TRS	MS13RJ16*	13435
12.5	16...24	20TRS	MS13RJ17*	
15		20TRS	MS13RJ18*	
17.5	23...32	20TRS	MS13RJ19*	14180
20		20TRS	MS13RJ20*	

Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

Star Delta Starters



Motor Power HP	Thermal Protection Adjustment Range	Device Short Name	Reference	Unit MRP [₹]
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TSD/A, Automatic 3 Phase (7.5 - 400 HP)

7.5	5.5...8	15TSDA	MS23AI15*	9790
10	7...10	15TSDA	MS23AI16* ✓	
12.5	9...13	15TSDA	MS23AI17*	
15		15TSDA	MS23AI18* ✓	9935
20	12...18	30TSDA	MS23AI20* ✓	
25	16...24	30TSDA	MS23AI21* ✓	
30	23...32	30TSDA	MS23AI22* ✓	12820
35		40TSDA	MS23AI23*	
40	30...38	40TSDA	MS23AI24*	
50	37...50	50TSDA	MS23AI26*	31775
60		75TSDA	MS23AI27*	
75	45...65	75TSDA	MS23AI28*	
100	62...99	100TSDA	MS23AI29*	76600
125	84...135	125TSDA	MS23AI30*	
150		150TSDA	MS23AI31*	
200	124...198	200TSDA	MS23AI32*	118970
250	174...279	250TSDA	MS23AI33*	

*Coil Voltage Code

VOLTAGE	220	415
AC 50Hz	M5	N5

Note:- For Three and Single Phase, the standard Stockable Coil Voltages are 415V and 220V respectively.

Note:- Submersible Star-Delta Starter Panel Starters are available on request. Please consult our local Sales Office.

TeSys Starters DOL

Thermal protection Adjustment Range	Motor Power kW	Reference	Unit MRP [₹]
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LE1-M Model Enclosed

- Conforming to IEC 947-4-1 for motors upto 7.5kW

0.54...0.8	0.25	LE1M35**05	4320
0.8...1.2	0.37	LE1M35**06	4840
1.2...1.8	0.55	LE1M35**07	4805
1.8...2.6	0.75	LE1M35**08	5095
2.6...3.7	1.50	LE1M35**10	
3.7...5.5	2.20	LE1M35**12	
5.5...8	3	LE1M35**14	4805
8...11.5	4	LE1M35**16	5095
10...14	5.50	LE1M35**21	5400
12...16	7.50	LE1M35**22	5095

** Coil Voltage Code

VOLTAGE	220/230	380/400	400/415
Code	M7	Q7	N7

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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Starters Spares

Spare Parts

Description	Lot Order Quantity	Reference	Unit MRP [₹]
For TDL, TRS & TSD/A Starters			
Pushbutton Actuator Assembly for 10/40/50/75/100/125 TDL	10	MSMC02	275
Pushbutton Switch Assembly for 10 TDL	10	MSMC03	535
Start Pushbutton Assembly for 40 - 400 TSDA	10	MSMI01	355
Stop Pushbutton Assembly for 40 - 400 TSDA	10	MSMI02	
9 Way Terminal Block for 15 TSDA	10	MSMI03	510
9 Way Terminal Block for 30 TSDA	10	MSMI04	
9 Way Terminal Block for 40 - 75 TSDA	10	MSMI05	1220
Pushbutton Actuator Assembly for 15/20/30 TDL, 10/20 TRS & 15/30 TSDA	10	MSMK01	585

Note:- For Spare coil, contactor, O/L relay and accessories, please contact nearest sales office

For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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W.E.F. January 11, 2021

Type 2 Co-ordination chart with TeSys range

Type 2 co-ordination chart for Direct-On-Line starter with circuit breaker and overload protection built into the circuit breaker

Reliable
switching for
IE2/IE3/IE4
motors



IE2



IE3



IE4

Rated operational voltage, $U_e = 400/415V, 50/60Hz$

Short Circuit Current (I_k) = 50kA

Sr. No.	3Φ Motor power in kW	Current in A	Circuit Breaker	Setting range of thermal trips (A)	Contactor
1	0.06	0.2	GV2P02 or GV2ME02	0.16...0.25	LC1D09
2	0.09	0.3	GV2P03 or GV2ME03	0.25...0.4	LC1D09
3	0.12	0.44	GV2P04 or GV2ME04	0.4...0.63	LC1D09
4	0.18	0.6	GV2P04 or GV2ME04	0.4...0.63	LC1D09
5	0.25	0.85	GV2P05 or GV2ME05	0.63...1	LC1D09
6	0.37	1.0	GV2P05 or GV2ME05	0.63...1	LC1D09
7	0.55	1.5	GV2P06 or GV2ME06	1...1.6	LC1D09
8	0.75	1.9	GV2P07 or GV2ME07	1.6...2.5	LC1D09
9	1.1	2.7	GV2P08 or GV2ME08	2.5...4	LC1D09
10	1.5	3.6	GV2P08 or GV2ME08	2.5...4	LC1D09
11	2.2	4.9	GV2P10 or GV2ME10	4...6.3	LC1D09
12	3	6.5	GV2P14 or GV2ME14	6...10	LC1D09
13	4	8.5	GV2P14 or GV2ME14	6...10	LC1D09
14	5.5	11.5	GV2P16	9...14	LC1D25
15	7.5	15.5	GV2P20	13...18	LC1D25
16	9	18.1	GV2P21	17...23	LC1D25
17	11	22	GV2P22	20...25	LC1D25
18	15	29	GV2P32	25...40	LC1D32
19	18.5	35	GV3P40	30...40	LC1D50A
20	22	41	GV3P50	37...50	LC1D50A
21	30	55	GV3P65	48...65	LC1D65A
22	37	66	GV4PE/PEM80 ^{*(2)}	62...73	LC1D80
23	45	80	GV4PE/PEM115 ^{*(2)}	65...115	LC1D115
24	55	97	GV4PE/PEM115 ^{*(2)}	65...115	LC1D115
25	75	132	GV5P150 ^{*(2)}	70...150	LC1D150
26	90	160	GV5P220 ^{*(2)}	100...220	LC1F185
27	110	195	GV5P220 ^{*(2)}	100...220	LC1F225
28	132	230	GV6P320 ^{*(2)}	160...320	LC1F265
29	160	280	GV6P320 ^{*(2)}	160...320	LC1F330
30	220	385	GV6P500 ^{*(2)}	250...500	LC1F500
31	250	450	GV6P500 ^{*(2)}	250...500	LC1F500

(1) The breaking performance of circuit-breakers GV2 P can be increased by adding a current limiter GV1 L3

(2) Reference to be completed by replacing the * with the breaking performance code as per table given below:

Circuit breaker type	GV5P150*	GV5P220*	GV5P320*	GV6P500*	GV4PE/PEM80*	GV4PE/PEM115*
Breaking performance I_k (kA) at 400/415V	70	70	70	70	50	50
Breaking performance code	H	H	H	H	N	N

For advanced protection, protection with Electronic Overcurrent Relays, heavy starting, please contact our sales teams.

Type 2 Co-ordination chart

Type 2 co-ordination chart for Direct-On-Line starter with circuit breaker and separate thermal overload relay

Reliable
switching for
IE2/IE3/IE4
motors



IE2



IE3



IE4

Rated operational voltage, $U_e = 400/415V$, 50/60Hz

Short Circuit Current (I_q) = 50kA

Sr. No.	3Φ Motor power in kW	Current in Amps	Circuit Breaker	Contactor	Overload relay	
					Type	Range (A)
1	0.06	0.2	GV2L03 or GV2LE03	LC1D09	LRD02	0.16...0.25
2	0.09	0.3	GV2L03 or GV2LE03	LC1D09	LRD03	0.25...0.40
3	0.12	0.44	GV2L04 or GV2LE04	LC1D09	LRD04	0.4...0.63
4	0.18	0.6	GV2L04 or GV2LE04	LC1D09	LRD04	0.4...0.63
5	0.25	0.85	GV2L05 or GV2LE05	LC1D09	LRD05	0.63...1
6	0.37	1.0	GV2L05 or GV2P06	LC1D09	LRD05	0.63...1
7	0.55	1.5	GV2L06 or GV2LE06	LC1D09	LRD06	1...1.7
8	0.75	1.9	GV2L07 or GV2LE07	LC1D09	LRD07	1.6...2.5
9	1.1	2.7	GV2L08 or GV2LE08	LC1D09	LRD08	2.5...4
10	1.5	3.6	GV2L08 or GV2LE08	LC1D09	LRD08	2.5...4
11	2.2	4.9	GV2L10 or GV2LE10	LC1D09	LRD10	4...6
12	3	6.5	GV2L14 or GV2LE14	LC1D09	LRD12	5.5...8
13	4	8.5	GV2L14 or GV2LE14	LC1D09	LRD14	7...10
14	5.5	11.5	GV2L16	LC1D25	LRD16	9...13
15	7.5	15.5	GV2L20	LC1D25	LRD21	12...18
16	9	18.1	GV2L22	LC1D25	LRD22	16...24
17	11	22	GV2L22	LC1D25	LRD22	16...24
18	15	29	GV3L32	LC1D40A	LRD332	23...32
19	18.5	35	GV3L40	LC1D50A	LRD340	30...40
20	22	41	GV3L50	LC1D50A	LRD350	37...50
21	30	55	GV3L65	LC1D65A	LRD365	48...65
22	37	66	GV4L/LE80 ⁽¹⁾	LC1D80	LRD3363	63...80
23	45	80	GV4L/LE115 ⁽¹⁾	LC1D115	LR9D5367	60...100
24	55	97	GV4L/LE115 ⁽¹⁾	LC1D115	LR9D5369	90...150
25	75	132	NSX160*MA ⁽¹⁾	LC1D150	LR9D5369	90...150
26	90	160	NSX250*MA ⁽¹⁾	LC1F185	LR9F5371	132...220
27	110	195	NSX250*MA ⁽¹⁾	LC1F225	LR9F5371	132...220
28	132	230	NSX400* + Mic 1.3M ⁽¹⁾	LC1F265	LR9F7375	200...330
29	160	280	NSX400* + Mic 1.3M ⁽¹⁾	LC1F330	LR9F7375	200...330
30	200	350	NSX630* + Mic 1.3M ⁽¹⁾	LC1F400	LR9F7379	300...500
31	220	388	NSX630* + Mic 1.3M ⁽¹⁾	LC1F500	LR9F7379	300...500
32	250	430	NSX630* + Mic 1.3M ⁽¹⁾	LC1F500	LR9F7379	300...500

(1) Reference to be completed by replacing the * with the breaking performance code as per table given below:

Circuit breaker type	NSX100*MA	NSX160*MA, NSX250*MA	NSX400* NSX630*	GV4L/LE80*	GV4L/LE115*
Breaking performance I_q (kA) at 400/415V	50	50	50	50	50
Breaking performance code	N	N	N	N	N

For advanced protection, protection with Electronic Overcurrent Relays, heavy starting, please contact our sales teams.

Type 2 Co-ordination chart

Type 2 co-ordination chart for Star Delta starters with circuit-breaker and separate thermal overload relay

Reliable
switching for
IE2/IE3/IE4
motors



IE2



IE3



IE4

Rated operational voltage, $U_e = 400/415V$, 50/60Hz

Short Circuit Current (I_q) = 50kA

Sr. No.	3Φ Motor power in kW	Line current in Amps	Phase current in Amps	Circuit Breaker	Main/Delta Contactor	Star Contactor	Overload Relay	
							Type	Range (A)
1	5.5	11.5	6.6	GV2L16	LC1D25	LC1D09	LRD12	5.5..8
2	7.5	15.5	8.9	GV2L20	LC1D25	LC1D09	LRD14	7..10
3	9	18.1	10.5	GV2L22	LC1D25	LC1D09	LRD16	9..13
4	11	22	12.7	GV2L22	LC1D25	LC1D09	LRD21	12..18
5	15	29	16.7	GV3L32	LC1D40A	LC1D09	LRD318	12..18
6	18.5	35	20.2	GV3L40	LC1D50A	LC1D09	LRD325	17..25
7	22	41	23.7	GV3L50	LC1D50A	LC1D18	LRD332	23..32
8	30	55	31.8	GV3L65	LC1D65A	LC1D18	LRD340	30..40
9	37	66	38.1	GV3L73	LC1D80A	LC1D32	LRD350	37..50
10	37	66	38.1	GV4L/LE80 ⁽¹⁾	LC1D80A	LC1D32	LRD3357	37..50
11	45	80	46.2	GV4L/LE115 ⁽¹⁾	LC1D115	LC1D65A	LRD3357	37..50
12	55	97	56	GV4L/LE115 ⁽¹⁾	LC1D115	LC1D65A	LRD3359	48..65
13	75	132	76.2	NSX160*MA150 ⁽¹⁾	LC1D150	LC1D65A	LR9D5367	60 ... 100
14	90	160	92.4	NSX250*MA220 ⁽¹⁾	LC1F185	LC1D80	LR9F5367	60 ... 100
15	110	195	112.6	NSX250*MA220 ⁽¹⁾	LC1F225	LC1D80	LR9F5369	90 ... 150
16	132	230	132.8	NSX400*Mic 1.3M ⁽¹⁾	LC1F265	LC1D115	LR9F5369	90 ... 150
17	160	280	161.7	NSX400*Mic 1.3M ⁽¹⁾	LC1F330	LC1D150	LR9F5371	132 ... 220
18	200	350	202.1	NSX630*Mic 1.3M ⁽¹⁾	LC1F400	LC1F185	LR9F5371	132 ... 220
19	220	388	224	NSX630*Mic 1.3M ⁽¹⁾	LC1F400	LC1F185	LR9F7375	200 ... 330
20	250	430	248.3	NSX630*Mic 1.3M ⁽¹⁾	LC1F500	LC1F265	LR9F7375	200 ... 330

(1) Reference to be completed by replacing the * with the breaking performance code as per table given below:

Circuit breaker type	NSX100*MA	NSX160*MA, NSX250*MA	NSX400* NSX630*	GV4L/LE80*	GV4L/LE115*
Breaking performance I_q (kA) at 400/415V	50	50	50	50	50
Breaking performance code	N	N	N	N	N

For advanced protection, protection with Electronic Overcurrent Relays, heavy starting, please contact our sales teams.

Type 2 Co-ordination chart

Type 2 co-ordination chart for Star Delta starter with circuit breaker and overload protection built into circuit breaker

Reliable switching for IE2/IE3/IE4 motors



IE2



IE3



IE4

Rated operational voltage, $U_e = 400/415V$, 50/60Hz
Short Circuit Current (I_q) = 50kA / 70kA as per table

Sr. No.	3Φ Motor power in kW	Line current in Amps	Phase current in Amps	I_q (kA)	Circuit Breaker	Main/Delta Contactor	Star Contactor
1	5,5	11.5	6.6	50	GV2P16	LC1D25	LC1D09
2	7,5	15.5	8.9	50	GV2P20	LC1D25	LC1D09
3	9	18.1	10.5	50	GV2P21	LC1D25	LC1D09
4	11	22	12.7	50	GV2P22	LC1D25	LC1D09
5	15	29	16.7	50	GV3P32	LC1D40A	LC1D09
6	18,5	35	20.2	50	GV3P40	LC1D50A	LC1D09
7	22	41	23.7	50	GV3P50	LC1D50A	LC1D18
8	30	55	31.8	50	GV3P65	LC1D65A	LC1D32
9	37	66	38.1	50	GV3P73	LC1D80A	LC1D32
10	37	66	38.1	70	GV4PE/PEM80 ^{*(1)}	LC1D80A	LC1D32
11	45	80	46.2	70	GV4PE/PEM115 ^{*(1)}	LC1D115	LC1D65A
12	55	97	56.0	70	GV4PE/PEM115 ^{*(1)}	LC1D115	LC1D65A
13	75	132	76.2	70	GV5P150 ^{*(1)}	LC1 D150	LC1D150
14	90	160	92.4	70	GV5P220 ^{*(1)}	LC1 F185	LC1F185
15	110	195	112.6	70	GV5P220 ^{*(1)}	LC1 F225	LC1F225
16	132	230	132.8	70	GV6P320 ^{*(1)}	LC1F265	LC1F265
17	160	280	161.7	70	GV6P320 ^{*(1)}	LC1F265	LC1F265
18	220	388	224.0	70	GV6P500 ^{*(1)}	LC1F500	LC1F500
19	250	430	248.3	70	GV6P500 ^{*(1)}	LC1F500	LC1F500

(1) Reference to be completed by replacing the * with the breaking performance code as per table given below:

Circuit breaker type	GV5P150*	GV5P220*	GV5P320*	GV6P500*	GV4PE/PEM80*	GV4PE/PEM115*
Breaking performance I_q (kA) at 400/415V	70	70	70	70	50	50
Breaking performance code	H	H	H	H	N	N

Type 2 Co-ordination chart

Type 2 Co-ordination chart for Direct-On-Line starter with circuit breaker and separate thermal overload relay

Reliable
switching for
IE2/IE3/IE4
motors



IE2



IE3



IE4

Sr. No.	3Φ Motor power in kW	Circuit Breaker	Contactor	Thermal Overload Relay
1	0.18	GV4L/LE02*	LC1D09	LRD05
2	0.25	GV4L/LE02*	LC1D09	LRD05
3	0.37	GV4L/LE02*	LC1D09	LRD06
4	0.55	GV4L/LE02*	LC1D09	LRD06
5	0.75	GV4L/LE02*	LC1D09	LRD07
6	1.1	GV4L/LE03*	LC1D25	LRD08
7	1.5	GV4L/LE07*	LC1D32+GV1L3	LRD08
8	2.2	GV4L/LE07*	LC1D32+GV1L3	LRD10
9	3	GV4L/LE07*	LC1D40A	LRD12
10	4	GV4L/LE12*	LC1D65A	LRD14
11	5.5	GV4L/LE12*	LC1D65A	LRD313
12	7.5	GV4L/LE25*	LC1D65A	LRD318
13	10	GV4L/LE25*	LC1D65A	LRD325
14	11	GV4L/LE25*	LC1D65A	LRD325
15	15	GV4L/LE50*	LC1D65A	LRD332
16	18.5	GV4L/LE50*	LC1D65A	LRD340
17	22	GV4L/LE50*	LC1D65A	LRD350
18	30	GV4L/LE80*	LC1D65A	LRD365

* - Reference to be completed by replacing the * with the breaking performance code as per table given below:

Performance I_q (kA) at 415V

Circuit breaker	Breaking performance code		
	B	N	S
GV4L/LE02-12	-	50	100
GV4L/LE25-115	25	50	100

Type 2 Co-ordination chart

Type 2 Co-ordination chart for Star Delta starter with circuit breaker and separate thermal overload relay

Reliable
switching for
IE2/IE3/IE4
motors



IE2



IE3



IE4

Sr. No.	P (kW)	I _e (A)	I _e /1,73 (A)	Circuit Breaker	Main/Delta Contactor	Star Contactor	Thermal Overload Relay	
1	0.25	0.85	0.5	GV4L/LE02*	LC1D09	LC1D09	LRD05	0.63...1
2	0.37	1	0.6	GV4L/LE02*	LC1D09	LC1D09	LRD06	1...1.7
3	0.55	1.5	0.9	GV4L/LE02*	LC1D09	LC1D09	LRD06	1...1.7
4	0.75	1.9	1.1	GV4L/LE02*	LC1D09	LC1D09	LRD07	1.6...2.5
5	1.1	2.7	1.6	GV4L/LE03*	LC1D25	LC1D09	LRD08	2.5...4
6	1.5	3.6	2.1	GV4L/LE07*	LC1D32+GV1L3	LC1D09	LRD08	2.5...4
7	2.2	4.9	2.8	GV4L/LE07*	LC1D32+GV1L3	LC1D09	LRD10	4...6
8	3	6.5	3.8	GV4L/LE07*	LC1D40A	LC1D09	LRD12	5.5...8
9	4	8.5	4.9	GV4L/LE12*	LC1D65A	LC1D09	LRD14	7...10
10	5.5	11.5	6.6	GV4L/LE12*	LC1D65A	LC1D09	LRD313	9...13
11	7.5	15.5	8.9	GV4L/LE25*	LC1D65A	LC1D09	LRD318	12...18
12	9	18.1	10.5	GV4L/LE25*	LC1D65A	LC1D09	LRD325	16...24
13	11	22	12.7	GV4L/LE25*	LC1D65A	LC1D09	LRD325	16...24
14	15	29	16.7	GV4L/LE50*	LC1D65A	LC1D18	LRD332	23...32
15	18.5	35	20.2	GV4L/LE50*	LC1D65A	LC1D18	LRD340	30...40
16	22	41	23.7	GV4L/LE50*	LC1D65A	LC1D18	LRD350	37...50
17	30	55	31.8	GV4L/LE80*	LC1D65A	LC1D25	LRD365	48...65
18	37	66	38.1	GV4L/LE80*(1)	LC1D80A	LC1D32	LRD3357	37...50

* - Reference to be completed by replacing the * with the breaking performance code as per table given below:

Performance I_q (kA) at 415V

Circuit breaker	Breaking performance code		
	B	N	S
GV4L/LE02-12	-	50	100
GV4L/LE25-115	25	50	100

Type 2 Recommended Selection Charts for Motor Feeder with EasyPact

Notes:

- Selection is for Normal Starting time (Relay Trip classes 10A/10) applications.
- Overload relay type LRE and EOCR both can be used. However, while using EOCR, setting of Trip class in EOCR should be up to 10/10A only.
- For high Inertia loads like Blowers, Pumps & ID/FD fans etc., if taking longer starting time, kindly consult us to derive the selection. However, this selection can still be used if these applications accept relay trip class 10A/10.
- Service factor of the motors considered is 1
- Selection is directly valid for Switching & Protection of Motors which comply to IS: 12615 efficiency class and can also be used for other non-standard motors whose starting current is less than or equal to starting currents as described in IS: 12615
- The rated motor current used for derivation is Full Load Current (FLC) for 3-phase, 4 Pole Squirrel Cage Induction Motors as indicated in IS: 12615. Selection can also be used for 2 Pole, 6 Pole and 8 Pole Motors based on rated motor current.
- Higher ratings of Contactors can be used in place of recommended combinations.
- These charts are derived basis Type-2 Methodology described in IEC 60947-4, Clause B.4.5.
- For Star-Delta Motor feeders, In-side delta wiring is considered.
- For Star Delta Motor feeders, proper Change-over time and Pause time must be ensured. Selected combination of Motor feeders components in this chart are valid only and only when used along with timer MSMI06 and equivalent timer from Schneider.
- This selection is valid only for suggested Product combinations. Change in any of the recommended combination including timer will invalidate the recommendations and Human safety, Installation safety and product safety requirements may not be fulfilled.
- In case of motor feeders with Circuit breaker, ensure proper Instantaneous setting as suggested in respective charts, if any.
- Max. Operating rate per Hour for contactors & Circuit breaker for Motor protection shall not be exceeded.
- Product evolution and improvement is a Continuous process at Schneider Electric. Hence, recommendations and guidelines are subject to change. Contact Schneider Electric for latest guidelines.

Contact our nearest sales office for application specific Custom / optimised selection for your motor feeders having motors with service factor more than 1, longer starting time applications, Closed transition star delta starters, other than 400/415V operational voltages, starting currents / inrush currents lower than specified in IS 12615

Selection Chart

Direct-on-Line starters with circuit-breaker and overload protection built into the circuit-breaker
Type GZ1E

Reliable
switching for
IE2/IE3 motors



IE2



IE3

Rated Operational Voltage, $U_e = 400/415V$, 50/60Hz
Short Circuit Current $I_q = 50kA$

Type-2 Recommended Selection

Sr. No.	3Φ Motors			I _q Current (kA)	Contactor	Overload Relay		Circuit Breaker	
	kW	HP	FLC - I _n (Amps)			Type	Range (A)	Type	Rating (A)
1	0.06	x	0.19	50	LC1E09	In-built in Circuit Breaker		GZ1E02	0.16 - 0.25
2	0.09	x	0.28	50	LC1E09			GZ1E03	0.25 - 0.4
3	0.12	0.16	0.51	50	LC1E09			GZ1E04	0.4 - 0.63
4	0.18	0.25	0.6	50	LC1E09			GZ1E04	0.4 - 0.63
5	0.25	0.33	0.8	50	LC1E09			GZ1E05	0.63 - 1
6	0.37	0.5	1.4	50	LC1E09			GZ1E06	1 - 1.6
7	0.55	0.75	1.7	50	LC1E09			GZ1E07	1.6 - 2.5
8	0.75	1	2.2	50	LC1E09			GZ1E07	1.6 - 2.5
9	1.1	1.5	2.9	50	LC1E09			GZ1E08	2.5 - 4
10	1.3	1.75	3	50	LC1E09			GZ1E08	2.5 - 4
11	1.5	2	3.8	50	LC1E09			GZ1E08	2.5 - 4
12	2.2	3	5.1	50	LC1E18			GZ1E10	4 - 6.3
13	3	4	6	50	LC1E18			GZ1E14	6 - 10
14	3.7	5	8.1	50	LC1E25			GZ1E14	6 - 10
15	4	5.5	8.5	50	LC1E25			GZ1E14	6 - 10
16	5.5	7.5	11.4	50*	LC1E32			GZ1E16	9 - 14
17	7.5	10	15.4	50*	LC1E32			GZ1E20	13 - 18
18	9.3	12.5	17.3	50*	LC1E40B			GZ1E21	17 - 23
19	11	15	22	50*	LC1E40B			GZ1E22	20 - 25
20	13	17.5	24	50*	LC1E50			GZ1E32	24 - 32
21	15	20	30	50*	LC1E50			GZ1E32	24 - 32

* 50kA With current Limiter type GV1L3, 10kA without current limiter

Selection Chart

Direct-On-Line starters with circuit-breaker GZL1LE and separate thermal overload relay

Reliable
switching for
IE2/IE3 motors



Rated Operational Voltage, $U_e = 400/415V, 50/60Hz$
Short Circuit Current $I_k = 50kA$ upto 4kw and above 4kw with 50kA
With current Limiter type GV1L3, 10kA without current limiter

Type-2 Recommended Selection

Sr. No.	P (kW)	I _e (A)	Circuit Breaker	Contactor	Thermal Overload relay	Range (A)
1	0.09	0.4	GZ1LE03	LC1E09	LRE03	0.25...0.40
2	0.18	0.63	GZ1LE04	LC1E09	LRE04	0.4...0.63
3	0.25	1	GZ1LE05	LC1E09	LRE05	0.63...1
4	0.37	1.4	GZ1LE06	LC1E09	LRE06	1...1.6
5	0.75	2.2	GZ1LE07	LC1E09	LRE07	1.6...2.5
6	1.5	3.8	GZ1LE08	LC1E09	LRE08	2.5...4
7	2.2	5.1	GZ1LE10	LC1E18	LRE10	4...6
8	4	8.5	GZ1LE14	LC1E25	LRE14	7...10
9	5.5	11.4	GZ1LE16	LC1E32	LRE16	9...13
10	7.5	15.4	GZ1LE20	LC1E32	LRE21	12...18
11	9.3	17.3	GZ1LE22	LC1E40	LRE22	16...24
12	11	22	GZ1LE22	LC1E40	LRE22	16...24
13	15	30	GZ1LE32	LC1E50	LRE32	23...32

Star Delta starters with circuit-breaker GZL1LE and separate thermal overload relay

Type-2 Recommended Selection

Sr. No.	P (kW)	I _e (A)	I _e /1.73 (A)	Circuit Breaker	Main/Delta Contactor	Star Contactor	Thermal Overload Relay	
1	0.09	0.4	0.2	GZ1LE03	LC1E09	LC1E09	LRE02	0.16...0.25
2	0.18	0.63	0.4	GZ1LE04	LC1E09	LC1E09	LRE03	0.25...0.40
3	0.25	1	0.6	GZ1LE05	LC1E09	LC1E09	LRE04	0.4...0.63
4	0.37	1.4	0.8	GZ1LE06	LC1E09	LC1E09	LRE05	0.63...1
5	0.75	2.2	1.3	GZ1LE07	LC1E09	LC1E09	LRE06	1...1.6
6	1.5	3.8	2.2	GZ1LE08	LC1E09	LC1E09	LRE07	1.6...2.5
7	2.2	5.1	2.9	GZ1LE10	LC1E18	LC1E09	LRE08	2.5...4
8	4	8.5	4.9	GZ1LE14	LC1E25	LC1E09	LRE10	4...6
9	5.5	11.4	6.6	GZ1LE16	LC1E32	LC1E09	LRE12	5.5...8
10	7.5	15.4	8.9	GZ1LE20	LC1E32	LC1E09	LRE14	7...10
11	9.3	17.3	10.0	GZ1LE22	LC1E40B	LC1E18	LRE16	9...13
12	11	22	12.7	GZ1LE22	LC1E40B	LC1E18	LRE16	9...13
13	15	30	17.3	GZ1LE32	LC1E50	LC1E18	LRE21	12...18

Selection Chart

Direct-on-Line starters with Fuses and overload protection by separate overload relay type LRE (thermal) or EOCR** (up to Trip class 10/10A)

Reliable
switching for
IE2 motors



IE2

Rated Operational Voltage, $U_e = 400/415V$, 50/60Hz
Short Circuit Current $I_q = 50kA$

Type-2 Recommended Selection

Sr. No.	3Φ Motors			Contactor	Overload Relay		Nominal Back-up Fuse			SDF
	kW	HP	FLC - I_n (Amps)		Type	Range (A)	Fuse	Fuse Rating	Fuse Size	
1	0.12	0.16	0.51	LC1E09	LRE04	0.4-0.63	4NHG000B	4	000	NX032
2	0.18	0.25	0.6	LC1E09	LRE04	0.4-0.63	4NHG000B	4	000	NX032
3	0.25	0.33	0.8	LC1E09	LRE05	0.63-1	4NHG000B	4	000	NX032
4	0.37	0.5	1.4	LC1E09	LRE06	1-1.6	4NHG000B	4	000	NX032
5	0.55	0.75	1.7	LC1E09	LRE06	1-1.6	4NHG000B	4	000	NX032
6	0.75	1	2.2	LC1E09	LRE07	1.6-2.5	6NHG000B	6	000	NX032
7	1.1	1.5	2.9	LC1E09	LRE08	2.5-4	10NHG000B	10	000	NX032
8	1.3	1.75	3	LC1E09	LRE08	2.5-4	10NHG000B	10	000	NX032
9	1.5	2	3.8	LC1E09	LRE08	2.5-4	10NHG000B	10	000	NX032
10	2.2	3	5.1	LC1E09	LRE10	4-6	16NHG000B	16	000	NX032
11	3	4	6	LC1E09	LRE12	5.5-8	20NHG000B	20	000	NX032
12	3.7	5	8.1	LC1E09	LRE14	7-10	20NHG000B	20	000	NX032
13	4	5.5	8.5	LC1E09	LRE14	7-10	20NHG000B	20	000	NX032
14	5.5	7.5	11.4	LC1E12	LRE16	9-13	25NHG000B	25	000	NX032
15	7.5	10	15.4	LC1E18	LRE21	12-18	32NHG000B	32	000	NX063
16	9.3	12.5	17.3	LC1E25	LRE22	16-24	50NHG000B	50	000	NX063
17	11	15	22	LC1E25	LRE22	16-24	50NHG000B	50	000	NX063
18	13	17.5	24	LC1E32	LRE32	23-32	50NHG000B	50	000	NX063
19	15	20	30	LC1E32	LRE32	23-32	63NHG000B	63	000	NX063
20	18.5	25	36	LC1E40	LRE355	30-40	80NHG000B	80	000	NX080
21	22	30	43	LC1E50	LRE357	37-50	80NHG000B	80	000	NX080
22	30	40	56	LC1E65	LRE359	48-65	100NHG000B	100	000	NX100
23	37	50	69	LC1E80	LRE363	63-80	125NHG00B	125	00	NX125
24	45	60	84	LC1E95	LRE365	80-104	160NHG00B	160	00	NX160
25	55	75	99	LC1E120	LRE482	84-135	160NHG00B	160	00	NX160
26	75	100	134	LC1E160	LRE483*	124-198	250NHG1B	250	1	NX250
27	80	110	139	LC1E160	LRE483*	124-198	250NHG1B	250	1	NX250
28	90	120	164	LC1E200	LRE483	124-198	250NHG1B	250	1	NX250
29	110	150	204	LC1E250	LRE484	146-234	250NHG1B	250	1	NX250
30	125	170	234	LC1E250	LRE485	174-279	315NHG2B	315	2	NX315
31	132	180	247	LC1E250	LRE485	174-279	315NHG2B	315	2	NX315
32	160	215	288	LC1E300	LRE486	208-333	400NHG2B	400	2	NX400
33	180	240	298	LC1E300	LRE486	208-333	400NHG2B	400	2	NX400
34	200	270	348	LC1E400	LRE487	258-414	400NHG2B	400	2	NX400
35	225	300	360	LC1E400	LRE487	258-414	500NHG3B	500	3	NX630
36	250	335	435	LC1E500	LRE488	321-513	630NHG3B	630	3	NX630
37	275	370	440	LC1E500	LRE488	321-513	630NHG3B	630	3	NX630
38	315	425	548	LC1E630	LRE489	394-630	800NHG3B	800	3	NA
39	335	452	580	LC1E630	LRE489	394-630	800NHG3B	800	3	NA

* Relay can match with contactor electrically (i.e Cannot be directly mounted), rest all relays are suitable for direct mounting as per catalogue.

** Selection valid upto Trip class 10/10A, Contact nearest sales office for details of EOCR to be used with this selection charts.

Selection Chart

Star Delta starters with Fuses and overload protection by separate overload relay type LRE (thermal) or EOCR** (up to Trip class 10/10A)

Reliable
switching for
IE2 motors



IE2

Rated Operational Voltage, $U_e = 400/415V$, 50/60Hz
Short Circuit Current $I_q = 50kA$

Type-2 Recommended Selection

Sr. No.	3Φ Motors				Contactor			Overload Relay		Nominal Back-up Fuse			SDF	Minimum Pause time (mSec)	Star-Delta Timer#
	kW	HP	FLC - I _n (Amps)					Type	Range (A)	Fuse type	Fuse Rating	Fuse Size			
			Line	Phase	Main	Delta	Star								
1	0.75	1	2.2	1.3	LC1E09	LC1E09	LC1E09	LRE06	1-1.6	4NHG000B	4	000	NX032	50	MSMI06
2	1.1	1.5	2.9	1.7	LC1E09	LC1E09	LC1E09	LRE07	1.6-2.5	4NHG000B	4	000	NX032	50	MSMI06
3	1.3	1.75	3	1.7	LC1E09	LC1E09	LC1E09	LRE07	1.6-2.5	4NHG000B	4	000	NX032	50	MSMI06
4	1.5	2	3.8	2.2	LC1E09	LC1E09	LC1E09	LRE07	1.6-2.5	6NHG000B	6	000	NX032	50	MSMI06
5	2.2	3	5.1	2.9	LC1E09	LC1E09	LC1E09	LRE08	2.5-4	10NHG000B	10	000	NX032	50	MSMI06
6	3	4	6	3.5	LC1E09	LC1E09	LC1E09	LRE08	2.5-4	10NHG000B	10	000	NX032	50	MSMI06
7	3.7	5	8.1	4.7	LC1E09	LC1E09	LC1E09	LRE10	4-6	10NHG000B	10	000	NX032	50	MSMI06
8	4	5.5	8.5	4.9	LC1E09	LC1E09	LC1E09	LRE10	4-6	16NHG000B	16	000	NX032	50	MSMI06
9	5.5	7.5	11.4	6.6	LC1E09	LC1E09	LC1E09	LRE12	5.5-8	16NHG000B	16	000	NX032	50	MSMI06
10	7.5	10	15.4	8.9	LC1E09	LC1E09	LC1E09	LRE14	7-10	20NHG000B	20	000	NX032	50	MSMI06
11	9.3	12.5	17.3	10.0	LC1E12	LC1E12	LC1E09	LRE14	7-10	20NHG000B	20	000	NX032	50	MSMI06
12	11	15	22	12.7	LC1E18	LC1E18	LC1E09	LRE16	9-13	32NHG000B	32	000	NX032	50	MSMI06
13	15	20	30	17.3	LC1E18	LC1E18	LC1E09	LRE21	12-18	40NHG000B	40	000	NX063	50	MSMI06
14	18.5	25	36	20.8	LC1E25	LC1E25	LC1E09	LRE22	16-24	40NHG000B	40	000	NX063	50	MSMI06
15	22	30	43	24.8	LC1E25	LC1E25	LC1E25	LRE32	23-32	50NHG000B	50	000	NX063	50	MSMI06
16	30	40	56	32.3	LC1E40	LC1E40	LC1E25	LRE355	30-40	63NHG000B	63	000	NX063	50	MSMI06
17	37	50	69	39.8	LC1E50	LC1E50	LC1E32	LRE355	30-40	80NHG000B	80	000	NX080	50	MSMI06
18	45	60	84	48.5	LC1E50	LC1E50	LC1E32	LRE357	37-50	100NHG00B	100	00	NX125	50	MSMI06
19	55	75	99	57.2	LC1E65	LC1E65	LC1E40	LRE359	48-65	125NHG00B	125	00	NX125	50	MSMI06
20	75	100	134	77.4	LC1E80	LC1E80	LC1E65	LRE363	63-80	160NHG00B	160	00	NX160	50	MSMI06
21	80	110	139	80.3	LC1E80	LC1E80	LC1E80	LRE363	63-80	160NHG00B	160	00	NX160	50	MSMI06
22	90	120	164	94.7	LC1E95	LC1E95	LC1E80	LRE365	80-104	200NHG1B	200	1	NX200	50	MSMI06
23	110	150	204	117.8	LC1E120	LC1E120	LC1E95	LRE482	84-135	250NHG1B	250	1	NX250	50	MSMI06
24	125	170	234	135.1	LC1E160	LC1E160	LC1E120	LRE483*	124-198	250NHG1B	250	1	NX250	50	MSMI06
25	132	180	247	142.6	LC1E160	LC1E160	LC1E120	LRE483*	124-198	250NHG1B	250	1	NX250	50	MSMI06
26	150	200	248	143.2	LC1E160	LC1E160	LC1E120	LRE483*	124-198	250NHG1B	250	1	NX250	50	MSMI06
27	160	215	288	166.3	LC1E200	LC1E200	LC1E160	LRE483	124-198	315NHG2B	300	2	NX315	50	MSMI06
28	180	240	298	172.1	LC1E200	LC1E200	LC1E160	LRE483	124-198	315NHG2B	300	2	NX315	50	MSMI06
29	200	270	348	200.9	LC1E250	LC1E250	LC1E160	LRE484	146-234	400NHG2B	400	2	NX400	50	MSMI06
30	225	300	360	207.9	LC1E250	LC1E250	LC1E160	LRE484	146-234	400NHG2B	400	2	NX400	50	MSMI06
31	250	335	435	251.2	LC1E300	LC1E300	LC1E200	LRE485	174-279	450NHG3B	450	3	NX630	50	MSMI06
32	275	370	440	254.0	LC1E300	LC1E300	LC1E200	LRE485	174-279	450NHG3B	450	3	NX630	50	MSMI06
33	315	425	548	316.4	LC1E400	LC1E400	LC1E250	LRE486	208-333	630NHG3B	630	3	NX630	50	MSMI06
34	335	452	580	334.9	LC1E400	LC1E400	LC1E250	LRE487	258-414	630NHG3B	630	3	NX630	50	MSMI06
35	355	475	618	356.8	LC1E400	LC1E400	LC1E250	LRE487	258-414	630NHG3B	630	3	NX630	50	MSMI06
36	375	502	653	377.0	LC1E400	LC1E400	LC1E250	LRE487	258-414	800NHG3B	800	3	NA	50	MSMI06
37	400	535	674	389.1	LC1E500	LC1E500	LC1E300	LRE487	258-414	800NHG3B	800	3	NA	200	MSMI06

* Relay can match with contactor electrically (i.e Cannot be directly mounted), rest all relays are suitable for direct mounting as per catalogue.
Use alternate suggested for direct mounting.

**Selection valid upto Trip class 10/10A, Contact nearest sales office for details of EOCR to be used with this selection charts.

For guaranteed performance, Motor feeders built using this chart must make use of MSMI06 or equivalent Schneider Electric make timer only.

Selection Chart

Direct-on-Line starters with circuit-breaker type CVS and overload protection by separate overload relay type LRE (thermal) or EOCR** (up to Trip class 10/10A)

Reliable
switching for
IE2/IE3 motors



IE2



IE3

Rated Operational Voltage, $U_e = 400/415V$, 50/60Hz
Short Circuit Current $I_q = 50kA$

Type-2 Recommended Selection

Sr. No.	3Φ Motors			Contactor	Overload Relay		Circuit Breaker			
	kW	HP	FLC - I_n (Amps)		Type	Range (A)	Type	Trip Unit Rating	Magnetic Setting Range	Setting on Trip Unit in Amps
1	0.37	0.5	1.4	LC1E09	LRE06	1-1.6	CVS100-MA	2.5	6-14	15
2	0.55	0.75	1.7	LC1E09	LRE07	1.6-2.5	CVS100-MA	2.5	6-14	17.5
3	0.75	1	2.2	LC1E09	LRE07	1.6-2.5	CVS100-MA	2.5	6-14	22.5
4	1.1	1.5	2.9	LC1E09	LRE08	2.5-4	CVS100-MA	6.3	6-14	31.5
5	1.3	1.75	3	LC1E09	LRE08	2.5-4	CVS100-MA	6.3	6-14	31.5
6	1.5	2	3.8	LC1E09	LRE08	2.5-4	CVS100-MA	6.3	6-14	37.8
7	2.2	3	5.1	LC1E18	LRE10	4-6	CVS100-MA	6.3	6-14	63
8	3	4	6	LC1E18	LRE10	4-6	CVS100-MA	6.3	6-14	69.3
9	3.7	5	8.1	LC1E25	LRE14	7-10	CVS100-MA	12.5	6-14	100
10	4	5.5	8.5	LC1E25	LRE14	7-10	CVS100-MA	12.5	6-14	100
11	5.5	7.5	11.4	LC1E32	LRE16	9-13	CVS100-MA	12.5	6-14	137.5
12	7.5	10	15.4	LC1E32	LRE21	12-18	CVS100-MA	25	6-14	175
13	9.3	12.5	17.3	LC1E32	LRE21	12-18	CVS100-MA	25	6-14	200
14	11	15	22	LC1E40B	LRE22	16-24	CVS100-MA	25	6-14	275
15	13	17.5	24	LC1E40B	LRE22	16-24	CVS100-MA	25	6-14	300
16	15	20	30	LC1E50	LRE32* or LRE353	23-32	CVS100-MA	50	6-14	350
17	18.5	25	36	LC1E65	LRE35* or LRE355	30-38* 30-40	CVS100-MA	50	6-14	450
18	22	30	43	LC1E65	LRE357	37-50	CVS100-MA	50	6-14	500
19	30	40	56	LC1E80	LRE359	48-65	CVS100-MA	100	6-14	700
20	37	50	69	LC1E95	LRE361	55-70	CVS100-MA	100	6-14	800
21	45	60	84	LC1E120	LRE482	84-135	CVS100-MA	100	6-14	1000
22	55	75	99	LC1E160	LRE482	84-135	CVS100-MA	100	6-14	1200
23	75	100	134	LC1E160	LRE482	84-135	CVS250-MA	150	9-14	1650
24	80	110	139	LC1E160	LRE483	124-198	CVS250-MA	150	9-14	1650
25	90	120	164	LC1E200	LRE483	124-198	CVS250-MA	220	9-14	1980
26	110	150	204	LC1E250	LRE484	146-234	CVS250-MA	220	9-14	2420
27	125	170	234	LC1E300	LRE484	146-234	CVS400-MA	320	6-13	2880
28	132	180	247	LC1E300	LRE485	174-279	CVS400-MA	320	6-13	3200
29	160	215	288	LC1E400	LRE486	208-333	CVS400-MA	320	6-13	3520
30	180	240	298	LC1E400	LRE486	208-333	CVS400-MA	320	6-13	3520
31	200	270	348	LC1E400	LRE487	258-414	CVS630-MA	500	6-13	4500
32	225	300	360	LC1E500	LRE487* or LRE488	258-414* 321-513	CVS630-MA	500	6-13	4500
33	250	335	435	LC1E500	LRE488	321-513	CVS630-MA	500	6-13	5500
34	275	370	440	LC1E630	LRE489	394-630	CVS630-MA	500	6-13	5500
35	315	425	548	LC1E630	LRE489	394-630	CVS630-ETS	630	2-10	6300
36	335	452	580	LC1E630	LRE489	394-630	CVS630-ETS	630	2-10	6300
37	355	475	618	LC1E630	LRE489	394-630	CVS800-TMD	800	3.5-10	8000

* Relay can match with contactor electrically (i.e Cannot be directly mounted), rest all relays are suitable for direct mounting as per catalogue.
Use alternate suggested for direct mounting.

** Selection valid upto Trip class 10/10A, Contact nearest sales office for details of EOCR to be used with this selection charts.

Selection Chart

Star Delta starters with circuit-breaker type CVS and overload protection by separate overload relay type LRE (thermal) or EOCR** (up to Trip class 10/10A)

Reliable
switching for
IE2/IE3 motors



IE2



IE3

Rated Operational Voltage, $U_e = 400/415V$, 50/60Hz
Short Circuit Current $I_q = 50kA$

Type-2 Recommended Selection

Sr. No.	3Φ Motors				Contactor			Overload Relay		Circuit Breaker				Minimum Pause time (mSec)	Star-Delta Timer#
	kW	HP	FLC - I _n (Amps)					Type	Range (A)	Type	Trip Unit Rating	Mag- netic Setting Range	Setting on Trip Unit in Amps		
			Line	Phase	Main	Delta	Star								
1	0.75	1	2.2	1.3	LC1E09	LC1E09	LC1E09	LRE06	1-1.6	CVS100-MA	6.3	6-14	37.8	50	MSMI06
2	1.1	1.5	2.9	1.7	LC1E09	LC1E09	LC1E09	LRE07	1.6-2.5	CVS100-MA	6.3	6-14	50.4	50	MSMI06
3	1.3	1.8	3	1.7	LC1E09	LC1E09	LC1E09	LRE07	1.6-2.5	CVS100-MA	6.3	6-14	50.4	50	MSMI06
4	1.5	2	3.8	2.2	LC1E09	LC1E09	LC1E09	LRE07	1.6-2.5	CVS100-MA	6.3	6-14	63	50	MSMI06
5	2.2	3	5.1	2.9	LC1E09	LC1E09	LC1E09	LRE08	2.5-4	CVS100-MA	12.5	6-14	100	50	MSMI06
6	3	4	6	3.5	LC1E09	LC1E09	LC1E09	LRE08	2.5-4	CVS100-MA	12.5	6-14	112.5	50	MSMI06
7	3.7	5	8.1	4.7	LC1E09	LC1E09	LC1E09	LRE10	4-6	CVS100-MA	12.5	6-14	150	50	MSMI06
8	4	5.5	8.5	4.9	LC1E09	LC1E09	LC1E09	LRE10	4-6	CVS100-MA	12.5	6-14	162.5	50	MSMI06
9	5.5	7.5	11.4	6.6	LC1E12	LC1E12	LC1E09	LRE12	5.5-8	CVS100-MA	25	6-14	225	50	MSMI06
10	7.5	10	15.4	8.9	LC1E18	LC1E18	LC1E09	LRE14	7-10	CVS100-MA	25	6-14	300	50	MSMI06
11	9.3	13	17.3	10	LC1E25	LC1E25	LC1E12	LRE14	7-10	CVS100-MA	25	6-14	325	50	MSMI06
12	11	15	22	12.7	LC1E25	LC1E25	LC1E12	LRE16	9-13	CVS100-MA	50	6-14	400	50	MSMI06
13	13	18	24	13.9	LC1E32	LC1E32	LC1E12	LRE21	12-18	CVS100-MA	50	6-14	450	50	MSMI06
14	15	20	30	17.3	LC1E32	LC1E32	LC1E18	LRE21	12-18	CVS100-MA	50	6-14	550	50	MSMI06
15	18.5	25	36	20.8	LC1E40B	LC1E40B	LC1E25	LRE22	16-24	CVS100-MA	50	6-14	700	50	MSMI06
16	22	30	43	24.8	LC1E40	LC1E40	LC1E32	LRE32* or LRE353	23-32	CVS100-MA	100	6-14	800	50	MSMI06
17	30	40	56	32.3	LC1E50	LC1E50	LC1E38	LRE355	30-40	CVS100-MA	100	6-14	1100	50	MSMI06
18	37	50	69	39.8	LC1E65	LC1E65	LC1E40	LRE355	30-40	CVS100-MA	100	6-14	1300	50	MSMI06
19	45	60	84	48.5	LC1E80	LC1E80	LC1E50	LRE357	37-50	CVS250-MA	150	9-14	1650	50	MSMI06
20	55	75	99	57.2	LC1E95	LC1E95	LC1E65	LRE359	48-65	CVS250-MA	150	9-14	1950	50	MSMI06
21	75	100	134	77.4	LC1E120	LC1E120	LC1E80	LRE481	62-99	CVS250-MA	220	9-14	2640	50	MSMI06
22	80	110	139	80.3	LC1E120	LC1E120	LC1E80	LRE481	62-99	CVS250-MA	220	9-14	2640	50	MSMI06
23	90	120	164	94.7	LC1E160	LC1E160	LC1E95	LRE482	84-135	CVS250-MA	220	9-14	3080	50	MSMI06
24	110	150	204	117.8	LC1E200	LC1E200	LC1E120	LRE482*	84-135	CVS400-MA	320	6-13	3840	50	MSMI06
25	125	170	234	135.1	LC1E250	LC1E250	LC1E120	LRE483*	124-198	CVS630-MA	500	6-13	4500	50	MSMI06
26	132	180	247	142.6	LC1E250	LC1E250	LC1E120	LRE483*	124-198	CVS630-MA	500	6-13	5000	50	MSMI06
27	150	200	248	143.2	LC1E250	LC1E250	LC1E120	LRE483*	124-198	CVS630-MA	500	6-13	5000	50	MSMI06
28	160	215	288	166.3	LC1E300	LC1E300	LC1E160	LRE483*	124-198	CVS630-MA	500	6-13	5500	50	MSMI06
29	180	240	298	172.1	LC1E300	LC1E300	LC1E160	LRE483*	124-198	CVS630-MA	500	6-13	6000	50	MSMI06
30	200	270	348	200.9	LC1E400	LC1E400	LC1E200	LRE484	146-234	CVS630-MA	500	6-13	6500	50	MSMI06
31	225	300	360	207.9	LC1E400	LC1E400	LC1E200	LRE484	146-234	CVS630-MA	500	6-13	6500	50	MSMI06
32	250	335	435	251.2	LC1E400	LC1E400	LC1E250	LRE485	174-279	CVS630-MA	500	6-13	6500	50	MSMI06
33	275	370	440	254	LC1E400	LC1E400	LC1E250	LRE485	174-279	CVS630-MA	500	6-13	6500	50	MSMI06
34	315	425	548	316.4	LC1E500	LC1E500	LC1E300	LRE486*	208-333	CV630-ETS	630	2-10	6300	200	MSMI06

* Relay can match with contactor electrically (i.e Cannot be directly mounted), rest all relays are suitable for direct mounting as per catalogue.
Use alternate suggested for direct mounting.

**Selection valid upto Trip class 10/10A, Contact nearest sales office for details of EOCR to be used with this selection charts.

For guaranteed performance, Motor feeders built using this chart must make use of MSMI06 or equivalent Schneider Electric make timer only.

[illegible]

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Schneider
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- All Prices are in Indian Rupees.
- Prices are subject to change without notice.
- Product evolution is a continuous process and Schneider Electric reserves the right to modify/withdraw any product at any time without prior notice.
- Prices charged will be as prevailing on the date of dispatch.
- Maximum Retail Price (MRP) is inclusive of all taxes.
- Tax incidence on invoices is basis applicable GST rates. Invoice amount not to exceed MRP

Distributor