

Life Is On

Schneider
Electric

 PriceList

Switching and Controlling Products

With effect from January 18th, 2019



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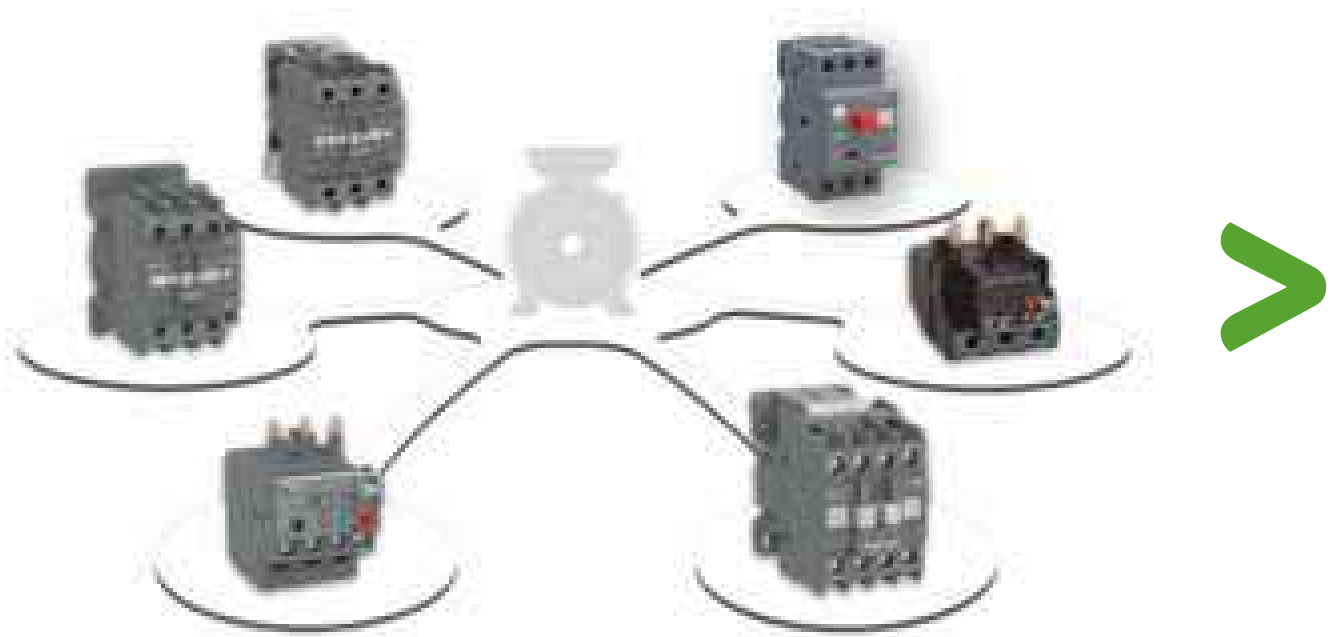
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For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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



Designed for the Essential

Power Contactors - ETVS(3 Pole AC Control)



- Conformance to IEC 60947-4-1, CE Marking
- Current Rating: 6A to 630A, AC3 Rating
- Type 2 co-ordination chart available with Fuse, MPCB and MCCB.
- Wide Band Coil in 6-38 A for 220 & 415 V AC
- New dual frequency coil available for select coil ratings

Frame	[Ie] Rated Operational Current		Motor Power at 415 V, 3Ph, 50Hz		Auxiliary Contacts		Reference	Unit MRP [₹]
	AC-1	AC-3	hP	kW	NO	NC		
FRAME-1	20 A	6 A	3	2.2	-	1	LC1E0601* <input checked="" type="checkbox"/>	850
					1	-	LC1E0610* <input checked="" type="checkbox"/>	
	25 A	9 A	5.5	4	-	1	LC1E0901* <input checked="" type="checkbox"/>	880
					1	-	LC1E0910* <input checked="" type="checkbox"/>	
	25 A	12 A	7.5	5.5	-	1	LC1E1201* <input checked="" type="checkbox"/>	1000
					1	-	LC1E1210* <input checked="" type="checkbox"/>	
32 A	18 A	12	9	-	1	LC1E1801* <input checked="" type="checkbox"/>	1150	
				1	-	LC1E1810* <input checked="" type="checkbox"/>		
36A	25 A	15	11	-	1	LC1E2501* <input checked="" type="checkbox"/>	1575	
				1	-	LC1E2510* <input checked="" type="checkbox"/>		
FRAME-2	50 A	32 A	20	15	-	1	LC1E3201* <input checked="" type="checkbox"/>	3300
					1	-	LC1E3210* <input checked="" type="checkbox"/>	
	50 A	38 A	25	18.5	-	1	LC1E3801* <input checked="" type="checkbox"/>	3900
					1	-	LC1E3810* <input checked="" type="checkbox"/>	
	50 A	40 A	29	22	-	1	LC1E40B01**	4160
					1	-	LC1E40B10**	
FRAME-3	60 A	40 A	29	22	1	1	LC1E40* <input checked="" type="checkbox"/>	5100
					1	1	LC1E50* <input checked="" type="checkbox"/>	
					1	1	LC1E65* <input checked="" type="checkbox"/>	

Frame	[Ie] Rated Operational Current		Motor Power at 415 V, 3Ph, 50Hz		Auxiliary Contacts		Reference	Unit LP [₹]
	AC-1	AC-3	hP	kW	NO	NC		
FRAME-4	110 A	80 A	60	45	1	1	LC1E80* <input checked="" type="checkbox"/>	10920
	120 A	95 A	60	45	1	1	LC1E95* <input checked="" type="checkbox"/>	13100
FRAME-5	150 A	120 A	75	55	1	1	LC1E120*	15600
	200 A	160 A	120	90	1	1	LC1E160*	20600
FRAME-6	250 A	200 A	150	110	-	-	LC1E200*	28350
	300 A	250 A	175	132	-	-	LC1E250*	37360
FRAME-7	320 A	300 A	215	160	-	-	LC1E300*	44730
	500 A	400 A	295	220	-	-	LC1E400*	56860
FRAME-8	700 A	500 A	375	280	-	-	LC1E500*	80090
FRAME-9	1000 A	630 A	500	375	-	-	LC1E630*	113700

* Reference to be completed by adding coil voltage code

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.. LC1E38	-	-	M5WB	N5WB

Non Standard Voltage/code: 48 V AC/E5, 380 V AC/Q5, 440 V AC/R5
Please add ₹ 120/- while ordering Contactors with 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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Power Contactors - ETVS (4 Pole AC Control)



- Conformance to IEC 60947-4-1
- Current Rating: 16A to 125A, AC1 rating
- Available in 4NO and 2NO+2NC Power Pole combination
- Wide Band Coil for all ratings in 220 & 415 V AC

Frame	AC-1 Rating	Power Poles	Reference	Unit MRP [₹]	Power Poles	Reference	Unit MRP [₹]
FRAME-1	20	4NO	LC1E06004*IN	1090	2NO + 2NC	LC1E06008*IN	1300
	25	4NO	LC1E09004*IN	1150	2NO + 2NC	LC1E09008*IN	1400
	32	4NO	LC1E12004*IN	1200	2NO + 2NC	LC1E12008*IN	1500
	40	4NO	LC1E18004*IN	1500	2NO + 2NC	LC1E18008*IN	1700
FRAME-2	50	4NO	LC1E25004*IN	1900	2NO + 2NC	LC1E25008*IN	2700
	55	4NO	LC1E32004*IN	3200	2NO + 2NC	LC1E32008*IN	4300
	60	4NO	LC1E38004*IN	3750	2NO + 2NC	LC1E38008*IN	5300
FRAME-3	75	4NO	LC1E40004*IN	5950	2NO + 2NC	LC1E40008*IN	8000
	85	4NO	LC1E65004*IN	8050	2NO + 2NC	LC1E65008*IN	10000

Frame	AC-1 Rating	Power Poles	Reference	Unit LP [₹]	Power Poles	Reference	Unit LP [₹]
FRAME-4	110	4NO	LC1E80004*IN	10200	2NO + 2NC	LC1E80008*IN	14200
	125	4NO	LC1E95004*	11500	2NO + 2NC	LC1E95008*	17000

* Reference to be completed by adding coil voltage code

Control Relays - CAE

Auxiliary Contacts		Reference	Unit MRP [₹]
NO	NC		
4	0	CAE40*	925
3	1	CAE31*	
2	2	CAE22*	

* Reference to be completed by adding coil voltage code

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	B5	F5	M5	N5

Note:

- 4P power contactor also available at 48V AC E7 and 380V AC Q7
- Add ₹120 while ordering non-standard voltages

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

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				
0.1...0.16 A	E06...E38	LRE01	1400	
0.16...0.25 A	E06...E38	LRE02		
0.25...0.4 A	E06...E38	LRE03		
0.4...0.63 A	E06...E38	LRE04		
0.63...1 A	E06...E38	LRE05 <input checked="" type="checkbox"/>		
1...1.6 A	E06...E38	LRE06 <input checked="" type="checkbox"/>		
1.6...2.5 A	E06...E38	LRE07 <input checked="" type="checkbox"/>		
2.5...4 A	E06...E38	LRE08 <input checked="" type="checkbox"/>		
4...6 A	E06...E38	LRE10 <input checked="" type="checkbox"/>		
5.5...8 A	E09...E38	LRE12 <input checked="" type="checkbox"/>		
7...10 A	E09...E38	LRE14 <input checked="" type="checkbox"/>		
9...13 A	E12...E38	LRE16 <input checked="" type="checkbox"/>		
12...18 A	E18...E38	LRE21 <input checked="" type="checkbox"/>		1550
16...24 A	E25...E38	LRE22 <input checked="" type="checkbox"/>		1800
23...32 A	E25...E38	LRE32 <input checked="" type="checkbox"/>	2400	
30...38 A	E38	LRE35 <input checked="" type="checkbox"/>	2700	
17...25 A	E40...E95	LRE322	3050	
23...32 A	E40...E95	LRE353		
30...40 A	E40...E95	LRE355		
37...50 A	E50...E95	LRE357 <input checked="" type="checkbox"/>		
48...65 A	E65...E95	LRE359		4000

Thermal Protection Adjustment Range	For Use with Contactor	Reference	Unit LP [₹]
LRE			
55...70 A	E80...E95	LRE361	4650
63...80 A	E80...E95	LRE363	4750
80...104 A	E95	LRE365	
51...81 A	E120...E300	LRE480	8900
62...99 A	E120...E300	LRE481	
84...135 A	E120...E300	LRE482	
124...198 A	E160...E300	LRE483	
146...234 A	E200...E300	LRE484	
174...279 A	E250...E300	LRE485	9700
208...333 A	E300	LRE486	
258...414 A	E300...E400	LRE487	11800
321...513 A	E500	LRE488	12800
394...630 A	E630	LRE489	13800

Note: For separate mounting block, for LRE

- For LRE01...LRE35 – terminal block for clip-on Mounting LAEB1 Unit LP: ₹500
- For LRE322...LRE365 – terminal block for clip-on Mounting LAEB3 Unit LP: ₹ 1470

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

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Spare Coil for Contactors

Contactor	Reference	Unit LP [₹]
CAE, LC1E06...E18	LAEX12**	820
LC1E25		
LC1E32/E38	LAEX2**	1010
LC1E40/E65	LAEX3**	1500
LC1E80/E95	LAEX4**	1870
LC1E120/E160	LAEX5**	2080
LC1E200/E250	LAEX6**	2910
LC1E300	LAEX7**	3170
LC1E0600*... LC1E1800*	LAEX1T**	945
LC1E2500*... LC1E3800*	LAEX2T**	1130
LC1E4000*...LC1E9500*	LAEX4T**	2000

* Reference to be completed by adding 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..LC1E38	-	-	M5WB	N5WB

Note:

- Add ₹ 120 while ordering non-standard voltages

Accessories - For ETVS Contactors

Description	For Use with	Mounting	Contacts	Reference	Unit LP [₹]
Auxiliary contact block	LC1E06..E630 & LC1E0600..E9500	FRONT	1NO+1NC	LAEN11 <input checked="" type="checkbox"/>	250
			2NO	LAEN20 <input checked="" type="checkbox"/>	
			2NC	LAEN02 <input checked="" type="checkbox"/>	300
			2NO+2NC	LAEN22 <input checked="" type="checkbox"/>	460
			4NO	LAEN40 <input checked="" type="checkbox"/>	2100
Star delta timer	LC1E25..E630	LAETSD <input checked="" type="checkbox"/>			

Description	For Use with	Coil Voltage	Reference	Unit LP [₹]
Surge suppressor	LC1E06...E95	24..48 V AC	LAERCE	810
	LC1E06...E95	50..127 V AC	LAERCG	
	LC1E06...E95	110..240 V AC	LAERCU	
	LC1E06...E95	380..415 V AC	LAERCN	

Description	For Use with	Reference	Unit LP [₹]
Mechanical Interlock	LC1E06..E65 & LC1E0600*..E3800*	LAEM1	525
	LC1E80/E95 & LC1E4000*...LC1E9500*	LAEM4	1715
	LC1E120..E160	LAEM5	3195
	LC1E200/E250	LAEM6	3255
	LC1E300	LAEM7	4140
	LC1E400	LAEM8	4515

*Reference to be completed by adding coil voltage

3 Pole Accessories compatibility

Contactor	Built in contacts	LAEN**	LAETSD	LAERC*	LAEM
LC1E06					
LC1E09					
LC1E12		1	-		
LC1E18	1 NO or 1NC				
LC1E25					
LC1E32					
LC1E38				1	
LC1E40B					
LC1E40					
LC1E50		1 or 1			
LC1E65					1
LC1E80	1 NO or 1NC				
LC1E95					
LC1E120					
LC1E160					
LC1E200					
LC1E250					
LC1E300		2 or 0		-	
LC1E400		1 or 1			
LC1E500					
LC1E630					

4 Pole Accessories compatibility

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

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EasyPact TVS

Circuit Breaker for Motor Protection - ETVS



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

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	2525
	0.06	-	0.16 - 0.25	GZ1E02	
	0.09	-	0.25 - 0.40	GZ1E03	
	0.18	-	0.40 - 0.63	GZ1E04	
	0.37	0.5	0.63 - 1.0	GZ1E05	2940
	0.55	0.75	1.0 - 1.6	GZ1E06	2880
	0.75	1	1.6 - 2.5	GZ1E07	
	1.1	2	2.5 - 4	GZ1E08	2990
	2.2	3	4 - 6.3	GZ1E10	
	3	5.5	6 - 10	GZ1E14	3190
10 kA	5.5	7.5	9 - 14	GZ1E16	3600
	7.5	10	13 - 18	GZ1E20	3910
	9	12.5	17 - 23	GZ1E21	4120
	11	15	20 - 25	GZ1E22	4325
	15	20	24 - 32	GZ1E32	7725

Accessories - ETVS Circuit Breaker for Motor Protection

Description	Mounting	Contacts	Reference	Unit LP [₹]
Auxillary Contact Block	LH side Mounted	1NO+1NC	GZ1AN11	830
		2NO	GZ1AN20	1040

Description	Mounting	Range	Reference	Unit LP [₹]	
Electric Trips					
Undervoltage	RH Side Mounted	110...115 V	50 Hz	GZ1AU115	2290
		220...240 V	50 Hz	GZ1AU225	
		380...400 V	50 Hz	GZ1AU385	3160
Shunt trip		110...115 V	50 Hz	GZ1AS115	2300
		220...240 V	50 Hz	GZ1AS225	

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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!



[Schneider-electric.co.in/Tesys](https://schneider-electric.co.in/Tesys)

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Electric

TeSys Range

The most comprehensive solution for switching and motor management.



Switch Disconnectors

Vario



Fuse disconnectors GS



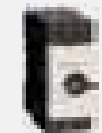
Protection

Circuit Breakers

TeSys GV Circuit Breakers
Magnetic



GV2L



GV3L



GV2LE

Thermal-magnetic



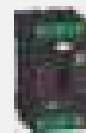
GV2ME



GV2P



GV3P



GV4



GV7

Relays

Thermal protection



LR2K



LRD



LR9D



LR9F

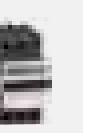
Fuse



DF



LS1



All-in-one



TeSys U



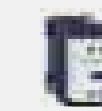
Control

Contactors

From 6A to 2750A



K



D



TeSys B Bar contactor

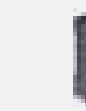
Low Consumption versions



KLC

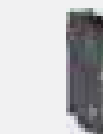


DLC

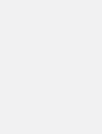


D Green

Starters and Motor Starters



TeSys H
Ultra-compact starter



TeSys U



Integral 63

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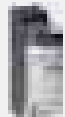
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TeSys Range



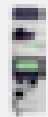
Monitor

Vario Compact starter



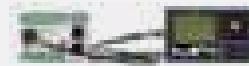
TeSys U

For standard application



TeSys U

For high-end management



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



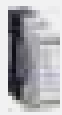
GV2M



Specific Applications

For protection

Thermistor Protection unit



LT3

Advanced Motor Protection relay



Digital EOCR

Electromechanic overcurrent relay



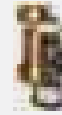
EOCRSS

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 modular enclosures / Din rail



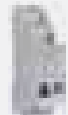
3 poles-SKGC



GC



Dual Tariff GY



Impulse relay GF

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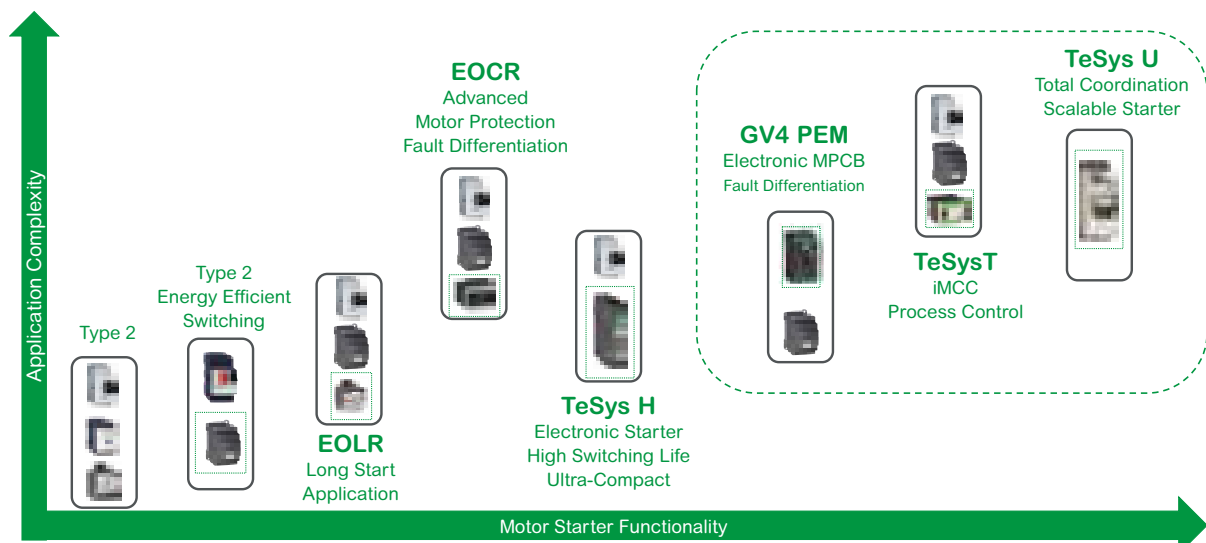
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Motor management solution



Unlock maximum efficiency with...



MOTOR MANAGEMENT SOLUTIONS



Your requirements

+



TeSys Intelligence

=

100% reliable

Schneider Electric puts reliability at the heart of its strategy of innovation and, with TeSys, offers a wide range of solutions for the Power Control and Protection that covers all your needs, from basic to advanced.

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TeSys Control Range

TeSys Control Range	Frame Size	Rated operational current AC1	AC3 Duty			Aux Contacts	AC control Reference	Unit MRP [₹]	DC Control Reference	Unit MRP [₹]
			KW	HP	A					
TeSys K	FRAME-1	-	3	-	6	1NO/NC	LC1K06*	1000	LP1K06**	1500
		-	5.5	-	9	1NO/NC	LC1K09*	1060	LP1K09**	1650
		-	7.5	-	12	1NO/NC	LC1K12*	1160	LP1K12**	1850
		-	10	-	16	1NO/NC	LC1K16*	1390	-	-
TeSys D	FRAME-2	32	9	12.5	18	1NO+1NC	LC1D18*	1610	LC1D18**	2710
		40	11	15	25	1NO+1NC	LC1D25*	2000	LC1D25**	3450
	FRAME-3	50	15	20	32	1NO+1NC	LC1D32*	4000	LC1D32**	7425
		50	18.5	25	38	1NO+1NC	LC1D38*	5750	LC1D38**	8500
	FRAME-4	60	22	30	40	1NO+1NC	LC1D40A*	6100	LC1D40A**	10500
		80	25	35	50	1NO+1NC	LC1D50A*	7650	LC1D50A**	12500
		80	37	50	65	1NO+1NC	LC1D65A*	10650	LC1D65A**	14000
		80	37	50	80	1NO+1NC	LC1D80A*	12750	LC1D80A**	17000
	FRAME-5	125	45	60	80	1NO+1NC	LC1D80*	14500	LC1D80**	17900
		125	45	60	95	1NO+1NC	LC1D95*	16200	LC1D95**	20000
		250	59	80	115	1NO+1NC	LC1D115*	20000	LC1D115**	20950
		250	80	110	150	1NO+1NC	LC1D150*	26000	LC1D150**	27200

TeSys Control Range	[le] Rated Operational Current AC1	AC3 DUTY			Reference ^{(1) (2)}	Unit LP [₹]
		KW	HP	A		
TeSys F	275	100	135	185	LC1F185	28000
	315	110	150	225	LC1F225	30500
	350	140	190	265	LC1F265	37000
	400	180	245	330	LC1F330	46000
	500	220	300	400	LC1F400	50500
	700	280	380	500	LC1F500	72500
	1000	375	500	630	LC1F630	116000
	1000	450	610	800	LC1F800	180000
	1250	630	840	1000	LC1F1000	312000

Note:

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

(2) Please select coils from Page 29.

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	24-60 AC/DC	48-130 AC/DC	100-250 AC/DC
TeSys D Green	LC1D40A-80A	BBE	BNE	EHE	KUE

Note: For ordering contactors with other coil voltages & frequencies, please add ₹ 190/- to the unit Price of the standard contactor of the same rating.



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

NORMAL STOCK ITEMS

W.E.F. January 18, 2019

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 LP [₹]	DC Control Reference ⁽⁴⁾	Unit LP [₹]	DC low consumption Reference ^{(1) (2) (3)}	Unit LP [₹]
2NO + 2NC	CA2KN22*	1150	CA3KN22**	1600	CA4KN22***	1950
3NO + 1NC	CA2KN31*		CA3KN31**		CA4KN31***	
4NO + 0NC	CA2KN40*		CA4KN40***			

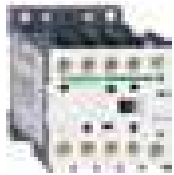
(1) Compatible with PLC outputs

(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)

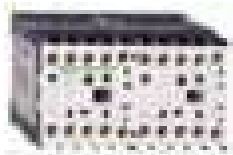


- Conformance to IEC, UL, CSA
- Current Rating : 6A to 16 A, AC-3 duty
- 1NO or 1NC inbuilt auxiliary contact
- Available in 3P & 4P version
- Available with AC (50/60Hz Dual frequency), DC & DC low consumption⁽⁵⁾ coil options

[le] Rated Operational Current (A)	Motor Power (kW)	Auxiliary Contacts	AC Control Reference	Unit LP [₹]	DC Control Reference ⁽⁵⁾	Unit LP [₹]
6	3	1 NC	LC1K0601*	1000	LP1K0601**	1500
		1 NO	LC1K0610*		LP1K0610**	
9	5.5	1 NC	LC1K0901*	1060	LP1K0901**	1650
		1 NO	LC1K0910*		LP1K0910**	
12	7.5	1 NC	LC1K1201*	1160	LP1K1201**	1850
		1 NO	LC1K1210*		LP1K1210**	
16	10	1 NC	LC1K1601*	1390	-	-
		1 NO	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 16 A, 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

[le] Rated Operational Current (A)	Motor Power (kW)	Auxiliary Contacts	AC Control Reference	Unit LP [₹]
6	3	1 NC	LC2K0601*	3140
		1 NO	LC2K0610*	
9	5.5	1 NC	LC2K0901*	3350
		1 NO	LC2K0910*	
12	7.5	1 NC	LC2K1201*	3450
		1 NO	LC2K1210*	
16	10	1 NC	LC2K1601*	3850
		1 NO	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: For ordering contactors with other coil voltages & frequencies, please add ₹ 190/- to the unit Price of the standard contactor of the same rating.

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 18, 2019

Accessories - K Model

Description	Mounting	Contacts	Reference	Unit LP [₹]
Auxiliary contact block	Front	2 NC	LA1KN02	380
		1 NO + 1 NC	LA1KN11 <input checked="" type="checkbox"/>	
		2 NO	LA1KN20	
		4 NC	LA1KN04	595
		1 NO + 3 NC	LA1KN13	
		2 NO + 2 NC	LA1KN22 <input checked="" type="checkbox"/>	
		3 NO + 1 NC	LA1KN31	
				4 NO

Description	Control Voltage	Range	Reference	Unit LP [₹]
On Delay Electronic Timer	24..48 V AC/DC	1..30S	LA2KT2E(1)	1820
	110..240 V AC	1..30S	LA2KT2UA(1)	

Description	Coil Voltage	Reference	Unit LP [₹]
Surge Suppressor - RC Circuit	220..250V AC	LA4KA1U*	560
Surge Suppressor - Varistor	130..250 V 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*	1250	CAD32**	1800	CAD32***	2150
5NO+0NC	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 150 A
- Available with AC (50/60Hz Dual frequency), DC & DC low consumption coil options
- High Operating ambient temperature, no derating upto 60 Deg C
- Inbuilt 1 NO + 1 NC auxiliary contacts upto 150A
- High electrical and mechanical life
- Fuse-less Type 2 Coordination Charts available
- EverLink® terminal for 40, 50, 65 & 80A contactors
- Inbuilt surge suppressor in DC coil for 9-80A

[le] Rated Operational Current AC1	AC3 Duty			Auxiliary Contacts	AC Control Reference	Unit MRP [₹]	DC Control Reference ⁽¹⁾	Unit MRP [₹]
	kW	hP	A					
25	4	5.5	9	1 NO + 1 NC	LC1D09* <input checked="" type="checkbox"/>	1250	LC1D09** <input checked="" type="checkbox"/>	1980
	5.5	7.5	12	1 NO + 1 NC	LC1D12* <input checked="" type="checkbox"/>	1405	LC1D12** <input checked="" type="checkbox"/>	2180
32	9	12.5	18	1 NO + 1 NC	LC1D18* <input checked="" type="checkbox"/>	1610	LC1D18** <input checked="" type="checkbox"/>	2710
40	11	15	25	1 NO + 1 NC	LC1D25* <input checked="" type="checkbox"/>	2000	LC1D25** <input checked="" type="checkbox"/>	3450
50	15	20	32	1 NO + 1 NC	LC1D32* <input checked="" type="checkbox"/>	4000	LC1D32** <input checked="" type="checkbox"/>	7425
	18.5	25	38	1 NO + 1 NC	LC1D38* <input checked="" type="checkbox"/>	5750	LC1D38** <input checked="" type="checkbox"/>	8500
60	22	30	40	1 NO + 1 NC	LC1D40A* <input checked="" type="checkbox"/>	6100	LC1D40A#	10500
80	25	35	50	1 NO + 1 NC	LC1D50A* <input checked="" type="checkbox"/>	7650	LC1D50A#	12500
80	37	50	65	1 NO + 1 NC	LC1D65A* <input checked="" type="checkbox"/>	10650	LC1D65A#	14000
80	37	50	80	1 NO + 1 NC	LC1D80A* <input checked="" type="checkbox"/>	12750	LC1D80A#	17000
125	45	60	80	1 NO + 1 NC	LC1D80* <input checked="" type="checkbox"/>	14500	LC1D80**	17900
	45	60	95	1 NO + 1 NC	LC1D95* <input checked="" type="checkbox"/>	16200	LC1D95**	20000
250	59	80	115	1 NO + 1 NC	LC1D115* <input checked="" type="checkbox"/>	20000	LC1D115**	20950
	80	110	150	1 NO + 1 NC	LC1D150* <input checked="" type="checkbox"/>	26000	LC1D150**	27200

* Reference to be completed by adding coil voltage code

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 18, 2019

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 AC1	Motor Power AC3			Auxiliary Contacts	Reference	Unit LP [₹]
	kW	hP	A			
25	4	5.5	9	1 NO + 1 NC	LC1D09**** <input checked="" type="checkbox"/>	2200
	5.5	7.5	12	1 NO + 1 NC	LC1D12**** <input checked="" type="checkbox"/>	2400
32	9	12.5	18	1 NO + 1 NC	LC1D18**** <input checked="" type="checkbox"/>	3650
40	11	15	25	1 NO + 1 NC	LC1D25**** <input checked="" type="checkbox"/>	4500
50	15	20	32	1 NO + 1 NC	LC1D32**** <input checked="" type="checkbox"/>	7650

[Ie] Rated Operational Current AC1	Motor Power AC3			Auxiliary Contacts	Reference	Unit LP [₹]
	kW	hP	A			
60	22	30	40	1 NO + 1 NC	LC1D40A#	10500
80	25	35	50	1 NO + 1 NC	LC1D50A#	12500
80	37	50	65	1 NO + 1 NC	LC1D65A#	14000
80	37	50	80	1 NO + 1 NC	LC1D80A#	17000

* Reference to be completed by adding coil voltage code

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



- Conformance to IEC, UL, CSA
- Current Rating : 20A to 250A, AC1 Rating
- Available with AC (50/60Hz Dual frequency), DC & DC low consumption (1) coil options
- High Operating ambient temperature, no derating upto 60° C

[Ie] Rated Operational Current AC1	Poles Composition	AC control Reference	Unit MRP [₹]	DC control Reference	Unit MRP [₹]
20	4NO	-	-	LC1DT20**	2300
	2NO+2NC	-	-	LC1D098**	2600
25	4NO	-	-	LC1DT25**	2750
	2NO+2NC	-	-	LC1D128**	3600
32	4NO	-	-	LC1DT32**	3030
	2NO+2NC	-	-	LC1D188**	4100
40	4NO	-	-	LC1DT40**	4750
	2NO+2NC	-	-	LC1D258**	6260
60	4NO	-	-	LC1DT60A#	9510
	2NO+2NC	-	-	LP1D40008**	12500

[Ie] Rated Operational Current AC1	Poles Composition	AC control Reference	Unit LP [₹]	DC control Reference	Unit LP [₹]
80	4NO	-	-	LC1DT80A#	14190
	2NO+2NC	-	-	LP1D65008**	16800
125	4NO	-	-	LP1D80004**	18200
	2NO+2NC	-	-	LP1D80008**	21000
250	4NO	LC1D1150046*	24500	LC1D1150046**	26500

* Reference to be completed by adding coil voltage code

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

Note: Please contact CCC for 4 Pole Ac coil contactor details

For ordering contactors with other coil voltages & frequencies, please add ₹ 190/- to the unit price of the standard contactor of the same rating.

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

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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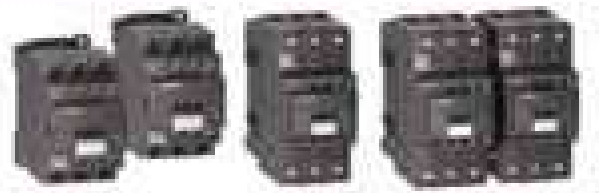


TeSys D Green





The Revolutionary Electronic Coil Contactor



New
80A AC3
offer available
in 55mm frame



3 frame sizes	9 to 18A	25 to 38A	40 to 80A
	24 to 60V	48 to 130V	
4 coil ratings	110 to 250V		250 to 500V
	Universal AC/DC coil		
Low consumption offer 40-80A			

- 
Reliability - improved under voltage performance, low contactor 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 undervoltage 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
- Fuse-less Type 2 coordination charts available

The Revolutionary Electronic Coil Contactor

[Ie] Rated Operational Current AC1	AC3 Duty (Long Life)			Auxiliary Contacts	Reference	Unit LP [₹]
	kW	hP	A			
25	4	5.5	9	1 NO + 1 NC	LC1D09*	2850
	5.5	7.5	12	1 NO + 1 NC	LC1D12*	2950
32	9	12.5	18	1 NO + 1 NC	LC1D18*	3900
40	11	15	25	1 NO + 1 NC	LC1D25*	4650
50	15	20	32	1 NO + 1 NC	LC1D32*	9450
	18.5	25	38	1 NO + 1 NC	LC1D38*	10200
60	22	30	40	1 NO + 1 NC	LC1D40A*	10500
80	25	35	50	1 NO + 1 NC	LC1D50A*	12500
80	37	50	65	1 NO + 1 NC	LC1D65A*	14000
80	37	50	80	1 NO + 1 NC	LC1D80A*	17000

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

[Ie] Rated Operational Current AC1	Poles Composition	Auxiliary Contacts	DC control Reference	Unit MRP [₹]
60	4NO	1 NO + 1 NC	LC1DT60A*	9510
80	4NO	1 NO + 1 NC	LC1DT80A*	14190

Coil Voltage Code

Type	Voltage	24-60VAC/DC	48-130VAC/DC	100-250VAC/DC
AC/DC*	LC1D09 - D38, LC1D40A - 80A, LC1DT40A - 80A	BNE	EHE	KUE
24V DC Low Consumption*	LC1D40A - 80A, LC1DT40A - 80A	BBE (24 V DC only)		



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

NORMAL STOCK ITEMS

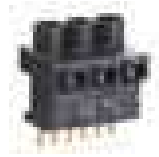
W.E.F. January 18, 2019

Description	For use with	Reference	Unit LP [₹]
Power connection accessories			
Terminal block	For supply to one or more GV2 G busbar sets	GV1G09	1450
Set of 63 A busbars for parallelling of contactors	2 contactors LC1 D09...D18 or D25...D38	GV2G245	1090
	4 contactors LC1 D09...D18 or D25...D38	GV2G445	1720
Set of 115 A busbars for parallelling of contactors	2 contactors LC1 D40A...D80A	GV3G264	1960
	3 contactors LC1 D40A...D80A	GV3G364 (1)	1045
Set of S-shape busbars	For circuit breakers GV3P** & GV3L** and contactors LC1 D40A...D65A	GV3S	785

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



GV2G245

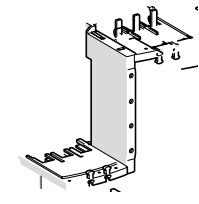


GV1G09

Description	For use with	Reference	Unit LP [₹]
Mechanical interlock	LC1 D09 to D38 (1)	LAD9V2	520
	LC1 D40A to D65A (1)	LAD4CM	1055
	LC1 D80 and D95 (for AC control voltage) (2)	LA9D4002	2305
	LC1 D80 and D95 (for DC control voltage) (2)	LA9D8002	3440
	LC1 D115 and D150 (2)	LA9D11502	3485

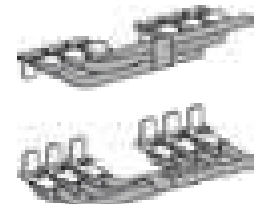
(1) With this set of busbars, any one contactor can be supplied directly by its EverLink® double cage power terminal block. The other two contactors are supplied by the busbar set. The 115 A limitation is therefore applied to these two contactors.

(2) With electrical interlock



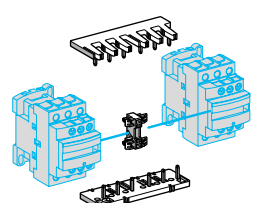
GV3S

Description	For use with	Reference	Unit LP [₹]
Power Connection for Reversing			
Kit Comprising : 1. a set of parallel bars 2. a set of reverser bars.	LC1 D09 to D38	LAD9V5 + LAD9V6	970
	LC1 D40A to D80A	LA9D65A69	2240
	LC1 D80 and D95 (for AC control voltage)	LA9D8069	4795
	LC1 D80 and D95 (for DC control voltage)	LA9D8069	4795
	LC1 D115 and D150	LA9D11569	7980



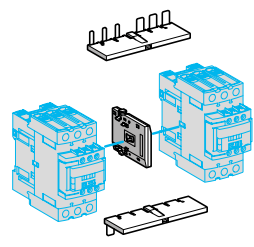
LA9 D8069

Description	For use with	Reference	Unit LP [₹]
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).	LC1 D09 to D38	LAD9R1V	1075
	LC1 D09 TO D38	LAD9R1	820
Kit Comprising : 1. a mechanical interlock LAD 4CM 2. a set of power connections LA9 D65A69.	LC1 D40A TO D80A	LAD9R3	2560



LAD9R1

Description	For use with	Reference	Unit LP [₹]
Star Delta Kit			
Time delay contact block LAD S2 (LC1 D09...D80),	LC1 D09 and D12	LAD91217	4045
Power circuit connections (LC1 D09...D80),	LC1 D18 to D32	LAD93217	5205
Hardware required for fixing the contactors onto the mounting plate (LC1D80)	LC1 D40A AND D50A	LAD9SD3	10515
	LC1 D80	LA9D8017	11675



LAD9R3



LAD91217



LAD9SD3



LA9D8017

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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Description	Time Delay Range	Timer Type	Reference	Unit LP [₹]
On delay timer ⁽¹⁾ ⁽²⁾	15...30 s	On delay	LA4DT2U	3010
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	2775

(1) For LC1 D09...38A (3P, AC coils only) add mounting adaptor LAD4BB = ₹ 590/- and for LC1 D40A...65A (3P, AC coils only), add mounting adaptor LAD4BB3 = ₹ 500/-.

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

Mounting Location	For Use With Contactor	Reference	Unit LP [₹]
For D Model Mechanical Latch Blocks			
Front, Clip-on	LC1 D09...D38 (a or c) LC1 DT20...DT40 (a or c) LC1 D40A...D65A (3P a or c) LC1DT60A AND DT80A (4P a or c)	LAD6K10*	3625
	LC1 D80...D150 (3P a) LC1 D80 AND D115 (3 P c) LC1 D80 (4 P a) LC1 D80 AND D115 (4 P a) LP1 D80 AND LC1 D115 (4 P c)	LA6DK20*	3785

* Reference to be completed by adding coil voltage code

Note: For ordering Mechanical Latch Block with other coil voltages, please add ₹ 190/- to the unit price of the standard reference

*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	Unit LP [₹]
AC Coils		
CAD, LC1-D09...D38, DT20..40	LXD1*	870
LC1D40A, D50A, D65A & LC1DT60A, DT80A	LXD3*	2340
D80 & D95 (3P & 4P)	LX1D6*	2430
LC1-D115,D150	LX1D8*	4770
DC Coils		
LC1-D80-D95	LX4D7**	7340
LC1-D115, D150	LX4D8**	8070

Note: For ordering coils with other voltages and frequencies, please add ₹ 190/- to the unit price of the respective standard coil.

* Reference to be completed by adding coil voltage code

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 LP [₹]	
Add On Blocks					
Additional instantaneous auxiliary contact blocks	LC1D09...LC1D150 & LC1F*	Front Mounted	1 NO+1NC	LADN11	350
			2 NO	LADN20 <input checked="" type="checkbox"/>	350
			2 NC	LADN02	420
			2 NO+2NC	LADN22 <input checked="" type="checkbox"/>	625
			4 NC	LADN04	700
			4 NO	LADN40 <input checked="" type="checkbox"/>	625
	LC1D80..LC1D95 & LC1F	Front Mounted	1 NO+3NC	LADN13	625
			3 NO+1NC	LADN31 <input checked="" type="checkbox"/>	625
			1 NO	LADN10	230
			1 NC	LADN01	230

Description	Contacts	Reference	Unit LP [₹]	
Add On Blocks				
Additional instantaneous auxiliary contact blocks	Side Mounted ⁽¹⁾	1 NO+1NC	LAD8N11	1015
		2 NO	LAD8N20	1015
Pneumatic timer blocks front mounted	ON delay	1 NO+1NC 0.1..3s	LADT0	2505
		1 NO+1NC 0.1..30s	LADT2	2505
		1 NO+1NC 10..180s	LADT4	2505
	OFF delay	1 NO+1NC 1..30s ⁽²⁾	LADS2 <input checked="" type="checkbox"/>	2670
		1 NO+1NC 0.1 ..3s	LADR0	2505
		1 NO+1NC 0.1 ..30s	LADR2 <input checked="" type="checkbox"/>	2505
Set of shims to be used with 4 pole contactors		1 NO+1NC 10..180s	LADR4	2505
			LA9D511	980

(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 Front mounted
Type	Number of poles and size	Side mounted	Front mounted				
			1 contact	2 contact	4 contacts		
AC & AC/DC	3P	LC1 D09...D38	1 on LH side	and -	1	or 1	or 1
		LC1 D40A...D80A	1 on LH or 1 on RH side	and -	1	or 1	or 1
		LC1 D80 and D95A (50/60 Hz)	1 on each side	or 2	and 1	or 1	or 1
		LC1 D80 and D95A (50 or 60 Hz)	1 on each side	and 2	and 2	or 1	or 1
		LC1 D115 and D150	1 on LH side	and -	1	or 1	or 1
	4P	LC1 DT20...DT40	1 on LH side	and -	1	or 1	or 1
		LC1 DT60A and DT80A	1 on LH or 1 on RH side	and -	1	or 1	or 1
		LC1 D40008, D65008 and D80	1 on each side	or 1	or 1	or 1	or 1
		LC1 D115	1 on each side	and 1	or 1	or 1	or 1
DC	3P	LC1 D09...D38	-	-	1	or 1	or 1
		LC1 D40A...D80A	-	-	1	or 1	or 1
		LC1 D80 and D95	-	1	or 1	or 1	or 1
	4P	LC1 D115 and D150	1 on LH side	and -	1	or 1	or 1
		LC1 DT20...DT40	-	-	1	or 1	or 1
		LC1 DT60A and DT80A	-	-	1	or 1	or 1
		LC1 D40008, D65008 and D80	-	2	and 1	or 1	or 1
LC (3)	3P	LC1 D09...D38	-	-	1	-	-
	4P	LC1 DT20...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

NORMAL STOCK ITEMS

W.E.F. January 18, 2019

Accessories for TeSys D

Description	For Use With	Reference	Unit LP [₹]
For Contactor D115/150			
Arc chamber - 3P	LC1D115	LA5D11550	4505
Arc chamber - 3P	LC1D150	LA5D15050	4505
Contacts set - 3P	LC1D115	LA5D1158031	11880
Contacts set - 3P	LC1D150	LA5D150803	12320
Contacts set - 4P	LC1D1150046	LA5D115804	16385

Product Compatibility	Fixing	Control Circuit Voltage	Suppressor Type	Reference	Unit LP [₹]
Coil Suppressor Modules					
LC1-D12...D25 (4P)	Clip-on	24...48 V AC	RC Circuit AC	LA4DA1E	925
LC1-D12...D25 (4P)		110...240 V AC	RC Circuit AC	LA4DA1U	925
LC1-D12 & D25 (4P)		12...250 V DC	Diode DC	LA4DC1U	925
LC1-D12...D25 (4P)		24...48 V AC/DC	Varistor AC/DC	LA4DE1E	925
-		110...250 V AC/DC	Varistor AC/DC	LA4DE1U	925
LC1D09...D38, LC2D09...D38, LC1DT20...DT40, LC2DT20...DT40 (3P)		24...48 V AC	Varistor AC/DC	LAD4VE	895
		24...48 V AC 400 Hz	RC Circuit AC	LAD4RCE	895
		50...127 V AC 200 Hz	RC Circuit AC	LAD4RCG	810
CAD		110...240 V AC 100 Hz	RC Circuit AC	LAD4RCU <input checked="" type="checkbox"/>	895
		110...250 V AC	Varistor AC/DC	LAD4VU	
LC1D80, LC1D95, LC2D80, LC2D95 (3P) LC2D80 (4P), LC1D40008, LC1D65008	Screw	24...250 V DC	Diode DC	LA4DC3U	925
LC1D80...D115, LC2D80...D115 (3P) LC1D80...D115, LC2D80...D115 (4P)		24...48 V AC	Varistor AC/DC	LA4DE2E	885
		110...250 V AC	Varistor AC/DC	LA4DE2U	885
		24...48 V AC 400 Hz	RC Circuit AC	LA4DA2E	885
		50...127 V AC 200 Hz	RC Circuit AC	LA4DA2G	1400
		110...240 V AC 100 Hz	RC Circuit AC	LA4DA2U	925
		380...415 V AC 150 Hz	RC Circuit AC	LA4DA2N	1400
		24...48 V DC	Varistor AC/DC	LA4DE3E	925
		110...250 V DC	Varistor AC/DC	LA4DE3U	885

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

TeSys D

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				TeSys U range
Retrofit contactor safety covers			Auxiliary contact block	Retrofit identification label
LAD9ET1S 9A up to 65 A	LAD9ET3S 80A to 95A	LAD9ET4S 110A to 150A	LADN22S 2NO + 2NC	LU9ET1S
<small>Also available for CAD32/CAD50</small>				

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 LP [₹]
Red cover (for safety chain indication)	LC1 D09...D80A and DT20...DT80A	LAD9ET1S	495
	LC1 D80 and D95	LAD9ET3S	
	LC1 D115 AND D150	LAD9ET4S	
Auxiliary Contact Block With red front face - for safety chain indication	2NO+2NC	LADN22S	710

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 18, 2019

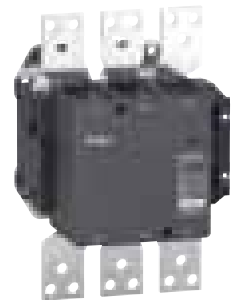
A perfect fit for power switching



TeSys F 1250 to 2600 A

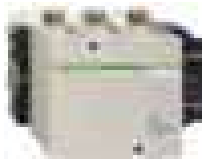
Designed for demanding power switching applications. The complete, robust TeSys™ F range keeps pace with demanding AC1 applications in wind power, solar and more.

- Optimised size for reduced panel space
- Proven reliability & high electrical durability
- Wide operating temperature range: up to 60°C
- Type 1 & 2 coordination with Masterpact™ ACB
- Shared accessories with entire TeSys F range
- Drawer-mounted coils allow easy maintenance



Introducing the specially designed LC1SF1200* Contactor for solar PV applications

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



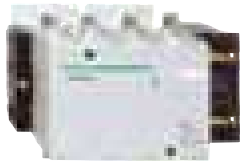
- Conformity to International Standards – IEC, UL, CSA, CE
- High electrical life
- Type 2 Coordination Charts available
- Common accessories as Model D
- Rating : 115 - 2600 A, AC/DC Coils, special Hoisting application coils
- Shock Proof version and Magnetic latching contactor available

[le] Rated Operational Current AC1	Motor Power (Long Life) AC3			Motor Power (Normal Life) AC3			Reference	Unit LP [₹]
	kW	hP	A	kW	hP	A		
200	59	80	115	80	110	150	LC1F115	16750
250	80	110	150	100	135	185	LC1F150	23000
275	100	135	185	110	150	205	LC1F185	28000
315	110	150	225	140	190	265	LC1F225	30500
350	140	190	265	160	220	300	LC1F265	37000
400	180	245	330	220	300	400	LC1F330	46000
500	220	300	400	250	340	450	LC1F400	50500
700	280	380	500	375	500	630	LC1F500	72500
1000	375	500	630	450	610	800	LC1F630	116000
1000	450	610	800				LC1F800	180000
1250	630	840	1000				LC1F1000	312000

Note:

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

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



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

[le] Rated Operational Current AC1	Power Pole Composition	Reference	Unit LP [₹]
200 A	4 NO	LC1F1154	28000
250 A	4 NO	LC1F1504	34000
275 A	4 NO	LC1F1854	42000
315 A	4 NO	LC1F2254	50200
350 A	4 NO	LC1F2654	55500
400 A	4 NO	LC1F3304	65600
500 A	2 NO	LC1F4002	46500
500 A	4 NO	LC1F4004	76500
700 A	2 NO	LC1F5002	68000
700 A	4 NO	LC1F5004	116330
1000 A	2 NO	LC1F6302	115000
1000 A	4 NO	LC1F6304	162000
1600 A	4 NO	LC1F7804	345060

Note:

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

[le] Rated Operational Current AC1	Reference	Unit LP [₹]
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

NORMAL STOCK ITEMS

W.E.F. January 18, 2019

Coils F Model

Product compatibility	AC Coil Reference	Unit LP [₹]	DC Coil Reference ⁽²⁾	Unit LP [₹]
LC1F115, LC1F150	LX9FF*	3495	LX4FF**	7395
LC1F185, LC1F225	LX9FG*	4840	LX4FG**	9845
LC1F265, LC1F330	LX1FH*	6020	LX4FH**	11985
LC1F400	LX1FJ*	12400	LX4FJ**	18975
LC1F500	LX1FK*	14750	LX4FK**	19585
LC1F630	LX1FL*	16500	LX4FL**	20300
LC1F780	LX1FX* (3)	40755	LX4FX** (3)	42810
LC1F800	(1)	-	LX4F8**	26900
LC1F1000, LC1F1700, LC1F2100	LX1FK*(3)	14750		
LC1F2600	LX1FL*(3)	16500		

Please replace (*) with the Corresponding Control Voltage.

(1) Use rectifier with required DC coil (Ref: DR5TE4U) LP ₹ 8940/-

(2) Coil with suppressor fitted as standard.

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

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
DC**	LC1F1700, 2100, 2600	-	65	110	220
	LC1F115--LC1F330	24	110	220	-
	LC1F400--LC1F780	-	110	220	
	LC1F800	-	FW	MW	

Note: For ordering coils with other voltages and frequencies, please add ₹ 190/- to the unit Price of the respective standard coil.

Accessories - D and F Model

Description	For use with	Contacts	Reference	Unit LP [₹]		
Add on Blocks						
Additional instantaneous auxiliary contact blocks	LC1D09 ...LC1D150 & LC1F	Front Mounted	1 NO+1NC	LADN11	350	
			2 NO	LADN20		
			2 NC	LADN02		
			2 NO+2NC	LADN22		
			4 NC	LADN04		
	LC1D80..LC1D95 & LC1F		4 NO	LADN40	625	
			1 NO+3NC	LADN13		
			3 NO+1NC	LADN31		
			1 NO	LADN10		230
			1 NC	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 LP [₹]	
Add On Blocks				
Additional instantaneous auxiliary contact blocks	Side Mounted ⁽¹⁾	1 NO+1NC	LAD8N11	
		2 NO	LAD8N20	
Pneumatic timer blocks front mounted	ON delay	1 NO+1NC 0.1..3s	LADT0	
		1 NO+1NC 0.1..30s	LADT2	
		1 NO+1NC 10..180s	LADT4	
	OFF delay	1 NO+1NC 1..30s ⁽²⁾	LADS2 <input checked="" type="checkbox"/>	2670
		1 NO+1NC 0.1 ..3s	LADR0	2505
		1 NO+1NC 0.1 ..30s	LADR2 <input checked="" type="checkbox"/>	
	1 NO+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 LP [₹]
Mechanical Interlocks ⁽¹⁾ - Horizontally Mounted		
LC1F115, LC1F150, LC1F1154, LC1F1504	LA9FF970	3315
LC1F185, LC1F1854, LC1F225, LC1F2254	LA9FG970	3830
LC1F265, LC1F330, LC1F400, LC1F500, LC1F2654, LC1F3304, LC1F4004, LC1F5004	LA9FJ970	4290
LC1F630, LC1F6304, LC1F800	LA9FL970	4775

(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 <input checked="" type="checkbox"/>	17570
LC1F185, LC1F225	LA5FG431	25385
LC1F265	LA5FH431	33435
LC1F330, LC1F400	LA5F400803	40540
LC1F500	LA5F500803	52150
LC1F630	LA5F630803	82950
LC1F800	LA5F800803	104160

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

Description	For use with	110 V Reference	220 V Reference	Unit LP [₹]
Suppressor Blocks				
suppressor module clip on	All AC ratings	LA4FRCF	LA4FRCP	4465
suppressor bracket	For all LA4F	LA9D09981		465

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

Product compatibility	110V Reference	220/230V Reference	415/440V Reference	Unit LP [₹]
Hoisting Applications - AC Coils				
LC1F265, LC1F330	LX9FH1102	LX9FH2202	-	17440
LC1F400	LX9FJ925	LX9FJ931	LX9FJ937	21535
LC1F500	LX9FK925	LX9FK931	LX9FK937	On request
LC1F630	LX9FL924	LX9FL931	LX9FL936	26460

Note: Rectifier is a must with the coil. Ref no. DR5TE4U for 110..230V & DR5TE4S* for 415..440V , LP ₹ 8940/- needs to be added extra with coil.

Product compatibility	48V Reference	110V Reference	220V Reference	440/460 V Reference	Unit LP [₹]
Hoisting Applications - DC Coils					
LC1F400	LX9FJ918	LX9FJ926	LX9FJ932	LX9FJ938	On request
LC1F500	LX9FK918	LX9FK926	LX9FK932	LX9FK938	On request
LC1F630	LX9FL918	LX9FL926	LX9FL931	LX9FL937	27190

Note:

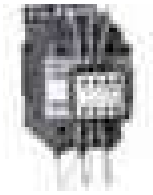
- Resistor is a must with every coil as per the quantity mentioned.
- **Economy Resistor to be selected from below table as per coil voltage code**

Contactora	110 V Reference	220 V Reference	440/460 V Reference	Unit LP [₹]
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	On request
LC1F630	2 X DR2SC0047	2 X DR2SC0047	2 X DR2SC3900	On request

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 Contactors (AC Control)



- Conformance to IEC 60070 and 60831, CSA
- Special Contactors designed for switching of 3 Phase, single or multi step capacitor bank#
- Current limiting using block of early make poles and damping resistors
- Inbuilt auxiliary contacts

Nominal Reactive Power 440 V	Auxiliary Contacts	Reference	Unit MRP ₹
LC1-D•K - with Damping Resistors & Block of Early Make poles			
12.5 KVAR	1 NO + 2 NC	LC1DFK*	2795
16.7 KVAR	1 NO + 1 NC	LC1DGK11*C	3925
20 KVAR	1 NO + 2 NC	LC1DLK*	4410
25 KVAR	1 NO + 1 NC	LC1DMK11*C	4840
33.3 KVAR	1 NO + 2 NC	LC1DPK*C	10535
40 KVAR	1 NO + 2 NC	LC1DTK*C	14515
60 KVAR	1 NO + 2 NC	LC1DWK*C	16340

#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: For ordering contactors with other coil voltages & frequencies, please add ₹ 190/- to the unit price of the standard contactor of the same rating.

Bar contactors



General Purpose offer

LC1B Range for standard applications

- From 750A to 1800A AC3
- From 800A to 2750A AC1

CR1B Magnetic latching contactors - 1000V

- From 750A to 1800A AC3
- From 800 to 2750A AC1

Special range of configurable bar contactors for Photovoltaic applications

- CV3BJ, for voltages between 1000 and 1500V DC
 - Complete range of configurable bar contactors CV1*, CV3*
- Special purpose offers for induction furnaces, DC excitation circuits of synchronous motors etc.

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 18, 2019

TeSys Special Purpose Contactor

TeSys LC1 FG 3-pole Shockproof Contactors



In an environment subject to severe mechanical shocks, unwanted closing of a contactor's poles and the serious consequences of this, is not permissible. Shockproof contactors LC1 FG150 to FG630 are equipped with an auxiliary electromechanical device which ensures that the contactor is mechanically locked in the "open" position when it's main electromagnet is not energised.

If the contactor is subjected to mechanical impact, from back to front or from front to back, accidental closing of the poles is then impossible. In addition, accidental opening of the poles (when the contactor is in the "on" position), is virtually impossible due to the significant pull-in force characteristic of these contactors.

- Marine: on-board equipment, windlasses, capstans, winches, etc...
- Military equipment : land, sea, launching silos.
- Heavy mechanical handling systems: travelling cranes, cranes, gantries.
- Conveying and handling: lifts, hoists, conveyors.
- Equipment for power stations.
- Distribution boards.

Vacuum Contactors (3 Pole AC Control)

[Ie] Rated Operational Current		Motor Power		Auxiliary Contacts	Reference	Unit LP [₹]
AC1	AC3	KW	HP			
160 A	160 A	75	100	2 NO + 1 NC	LC1V160*	104290
320 A	320 A	160	213	1 NO + 1 NC	LC1V320*	140045
630 A	610 A	300	400	1 NO + 1 NC	LC1V610*	251185

* Coil Voltage Code

VOLTAGE	110-120	220-240	380-415	440-480	550-600
Code	FE7	P7	V7	R7	X7

Note: Accessories for Vacuum Contactors available on request, please contact our Sales Office.

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

TeSys H - Ultra-compact starters

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

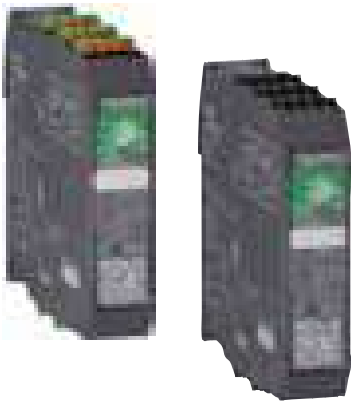
Easy to integrate

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

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

TeSys H - Ultra-compact starters

Standard version



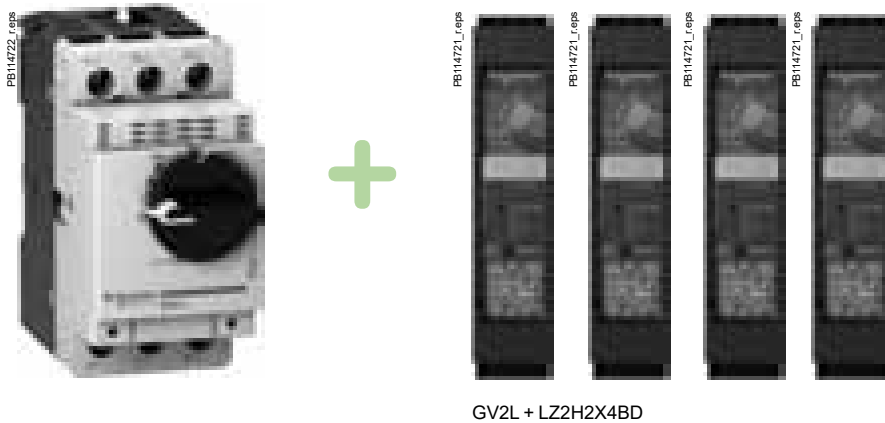
- **2 ratings:**
 - 2.4 A 400 V AC53a
 - 6.5 A 400 V AC53a
- **2 control voltages:**
 - 24 V DC
 - 110 V / 230 V AC
- **2 terminal types:**
 - Screw clamps
 - Spring
- **Can provide up to 3 functions:**
 - Forward running
 - Reverse running
 - Overload protection

Standard Starter Tesys H

Motor Power @ 415VAC	Current range	Screw terminals	Unit LP [₹]	Spring terminals	Unit LP [₹]
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 (24 V DC) or FU (110-230V AC)

Selection Chart for TeSys H



GV2L + LZ2H2X4BD

Selection of the circuit breaker Type 1 coordination according to IEC/EN 60947-4-2




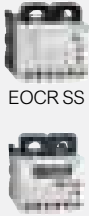



Max A	Iq kA	Number of TeSys H		Reference Circuit breaker	
		2.4 A	6.5 A	Rotary	Rocker
0.4	50.0	1	–	GV2L03	GV2LE03
0.63	50.0	1	–	GV2L04	GV2LE04
1	50.0	1	1	GV2L05	GV2LE05
1.6	50.0	1	1	GV2L06	GV2LE06
2.5	35.0	1	1	GV2L07	GV2LE07
4	12.5	1	1	GV2L08	GV2LE08
6.3	8.0	2	1	GV2L10	GV2LE10
10	7.0	4	1	GV2L14	GV2LE14
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

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 T
	 GV2P GV3P GV2ME	 GV4PEM	 LR2K LRD LR9D LR9F	 EOCR SS EOCR SSD	 TeSys U	 EOCR	 TeSys T
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				

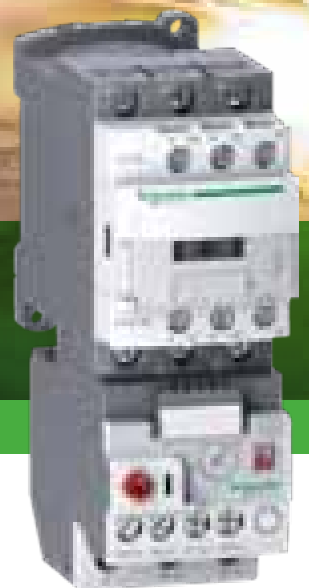
For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

NORMAL STOCK ITEMS

W.E.F. January 18, 2019

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 LP [₹]
0.11...0.16 A		LR2K0301	1620
0.16...0.23 A		LR2K0302	
0.23...0.36 A		LR2K0303	
0.36...0.54 A		LR2K0304	
0.54...0.8 A		LR2K0305	
0.8...1.2 A		LR2K0306	
1.2...1.8 A	LC1K, LP1K, LP4K,	LR2K0307	
1.8...2.6 A	LP2K, LC2K	LR2K0308	
2.6...3.7 A		LR2K0310	
3.7...5.5 A		LR2K0312	
5.5...8 A		LR2K0314	
8...11.5 A		LR2K0316	
10...14 A		LR2K0321	
12...16 A		LR2K0322	

* Note: Terminal Block for Clip-on Mounting LA7K0064 Unit LP ₹ 600/-

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 Coordination chart available

Current Range	For Use With	Reference*	Unit MRP [₹]
0.1....0.5A		LR9D01	7400
0.4....2.0A	LC1D09 - 38A	LR9D02	7600
1.6....8.0A	Direct Mounting	LR9D08	7600
6.4....32A		LR9D32	8500

Note: For LR9D01 to LR9D32 - Terminal Block for Clip on Mounting LAD7B205. Unit LP ₹. 700

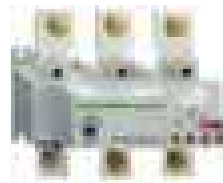
Thermal Overload Relays - D Model



- Conformance to IEC, UL, CSA
- Range : 0.1A to 104 A
- Higher operating temperature
- Tripping class 10A & 20A 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 A		LRD01	1630	
0.16...0.25 A		LRD02		
0.25...0.4 A		LRD03		
0.4...0.63 A		LRD04		
0.63...1 A		LRD05 ✓		
1...1.6 A	GV2L03, LE03,	LRD06 ✓		
1.6...2.5 A	LC1D09...LC1D38	LRD07 ✓		
2.5...4 A		LRD08 ✓		
4...6 A		LRD10 ✓		
5.5...8 A		LRD12 ✓		
7...10 A		LRD14 ✓		
9...13 A		LRD16 ✓	1830	
12...18 A		LRD21 ✓	1890	
16...24 A	GV2L22, LC1D25...D38	LRD22 ✓	1890	
23...32 A	LC1D25...LC1D38, LC1D32	LRD32 ✓	3030	
30...38 A	LC1D32, LC1D38	LRD35	3350	
23...32 A	LC1D40A...D65A	LRD332		
30...40 A	LC1D80...LC1D95	LRD3353		
30...40 A	LC1D40A...D65A	LRD340		
30...40 A	LC1D80...LC1D95	LRD3355		
37...50 A	LC1D40A...D65A	LRD350 ✓		4600
48...65 A	LC1D80...LC1D95	LRD3357		5500
48...65 A	LC1D40A...D65A	LRD365	5900	
62...80 A	LC1D80A	LRD380	6150	
48...65 A	LC1D80...LC1D95	LRD3359	5900	
LRD Model (Direct Mounting)				
63...80 A	LC1D80...LC1D95	LRD3363	6400	
80...104 A	LC1D80, LC1D95	LRD3365	7900	

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 LP [₹]
LR9-F Electronic Protection Relays		
90...150 A	LR9F5369 ✓	10500
132...220 A	LR9F5371	12300
200...330 A	LR9F7375	13200
300...500 A	LR9F7379	16200
380...630 A	LR9F7381	17200

Note:

- For LRD01...LRD35 - Terminal Block for clip-on Mounting LAD7B106 Unit LP: ₹ 560/-
- For LRD33** - Terminal Block for clip-on Mounting LA7D3064 ✓ Unit LP: ₹ 1650/-
- For LRD332, LRD340, LRD350 & LRD365 - Connection block for separate mounting LAD96560 Unit LP: ₹ 1380/-
- The LRD relays can be used for AC or DC current up to 104 Amps
- 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 18, 2019

Advanced Motor Protection

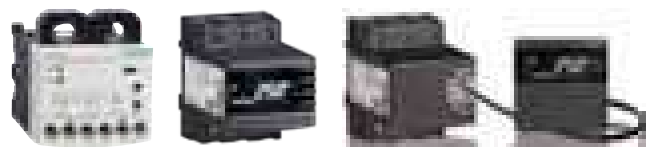
High performance protection
for your application



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 Coordination chart available

Current Range	For Use With	Reference*	Unit MRP [₹]
0.1...0.5A		LR9D01	7400
0.4...2.0A	LC1D09 - 38A	LR9D02	7600
1.6...8.0A	Direct Mounting	LR9D08	7600
6.4...32A		LR9D32	8500

Note: For LR9D01 to LR9D32 - Terminal Block for Clip on Mounting LAD7B205. **Unit LP ₹. 700**

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 [₹]
0.5-6A	24-240V AC/DC	EOCRSS-05S	4250
0.5-6A	380-440V AC	EOCRSS-05W	
3-30A	24-240V AC/DC	EOCRSS-30S	
3-30A	380-440V AC	EOCRSS-30W	
5-60A	24-240V AC/DC	EOCRSS-60S	
5-60A	380-440V AC	EOCRSS-60W	

Note: 2 SPST output contacts

To order an EOCR-SS:

E 0 C R S S - 0 5 S

① ②

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	
	60	5.0-60A	
② Operating Power Supply	S	24-240V AC/DC	
	W	380-440V AC	

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

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

Light Green: Possible solution
Dark Green: Ideal solution

EOCR SSD

- With Display (Operating Current & Trip Cause)



EOCR SSD			
Current Range	Control Voltage	Reference	Unit MRP [₹]
0.5-6A	24-240V AC/DC	EOCRSSD-05S	6750
0.5-6A	380-440V AC	EOCRSSD-05W	
3-30A	24-240V AC/DC	EOCRSSD-30S	
3-30A	380-440V AC	EOCRSSD-30W	
10-60A	24-240V AC/DC	EOCRSSD-60S	
10-60A	380-440V AC	EOCRSSD-60W	

Note: 2 SPST output contacts

To order an EOCR-SSD:

E 0 C R S S D - 0 5 S

① ②

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	
	60	5.0-60A	
② Operating Power Supply	S	24-240V AC/DC	
	W	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 18, 2019

NEW Digital EOCR



- 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)

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	
		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

Digital EOCR				
Current Control Range	Control Voltage	Reference	Description	Unit MRP [₹]
0.5-80A	100-240V AC/DC	3DM2-WRDUWZ	Without ground - fault protection	14750
		3DM2-WRDUHZ		
		FDM2-WRDUWZ	15950	
		FDM2-WRDUHZ		
		3MZ2-WRAUWZ	14950	
		3MZ2-WRAUHZ		
		3MZ2-WRCUWZ		
		3MZ2-WRCUHZ		
		3MZ2-WRDUWZ		
		3MZ2-WRDUHZ		
		3MZ2-WRDUHZ	With ground - fault protection	17950
		FMZ2-WRAUWZ		
		FMZ2-WRAUHZ		
		FMZ2-WRCUWZ	21700	
		FMZ2-WRCUHZ		
		FMZ2-WRDUWZ		
		FMZ2-WRDUHZ	22050	
		3BZ2-WRAUHZ		
3BZ2-WRCUHZ				
FBZ2-WRAUHZ	With ground - fault protection (inbuilt ZCT)	22050		
FBZ2-WRCUHZ				

EOCR Accessories

ZCT - Ground Fault Protection			
	Reference	Description	LP
	ZCT-035Q	ZCT EP 35 M/M	4350
	ZCT-080Q	ZCT EP 80 M/M	6350
	ZCT-120Q	ZCT EP 120 MM	10450

Display Cable for FDM2/FMZ2/FBZ2			
	Reference	Description	LP
	CABLE-RJ45-001Q	CABLE 1M	1550
	CABLE-RJ45-003Q	CABLE 3M	1650

Current Transformer				
3CT - H1 - 100 - C				
1				
	Reference	Description	LP	
	1 CT ratio	H1-100-C	Square 3CT 100:5	3750
		HH-150-C	Square 3CT 150:5	4650
		H2-200-C	Square 3CT 200:5	4950
		H3-300-C	Square 3CT 300:5	5395
		H4-400-C	Square 3CT 400:5	6350

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 18, 2019

Introducing New 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 II coordination 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 415 V 50 Hz	Motor Power AC3** kW	hP	Magnetic Protection Rating (A)	Reference	Unit LP [₹]
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With Rocker Lever Control (Economy)*

100 kA	0.09	-	0.4	GV2LE03	3400
	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	
15 kA	5.5	7.5	14	GV2LE16	3950
	7.5	10	18	GV2LE20	
	11	15	25	GV2LE22	
10 kA	15	20	32	GV2LE32	6700

With Rotary Handle Control*

100 kA	0.09	-	0.4	GV2L03	3900
	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	
50 kA	5.5	7.5	14	GV2L16	11000
	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	13000	

With Protection toggle control

50 kA	37	50	80	GV4LE80N	15000
	55	74	115	GV4LE115N	15000
	75	101	150	LV430832	20090
	110	147	220	LV431752	29630
	160	214	320	LV432749	40770
	200	268	500	LV432949	46790

* Conforming to IEC 60947-2-3-4

** 50/60Hz - 415 V

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

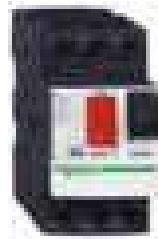
** 50/60Hz - 415 V

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

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

(3) GV7 range will be substituted by GV5 range in H2 2019

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 100 kA
- Wide range of accessories
- S-shaped busbar for side-by-side connection with 40 - 65A Contactor

Breaking Capacity at 415 V 50 Hz	Motor Power AC3** kW	hP	Thermal Protection Adjustment Range	Reference	Unit MRP [₹]
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With Push button Control (Economy)

100 kA	-	-	0.1 - 0.16	GV2ME01	3450
	0.06	-	0.16 - 0.25	GV2ME02	
	0.09	-	0.25 - 0.40	GV2ME03	
	0.18	-	0.40 - 0.63	GV2ME04	
	0.37	0.5	0.63 - 1.0	GV2ME05	
	0.55	0.75	1.0 - 1.6	GV2ME06	
	0.75	1	1.6 - 2.5	GV2ME07	
	1.1	2	2.5 - 4	GV2ME08	
15 kA ⁽¹⁾	2.2	3	4 - 6.3	GV2ME10	3880
	3	5.5	6 - 10	GV2ME14	
	5.5	7.5	9 - 14	GV2ME16	
	7.5	10	13 - 18	GV2ME20	
	9	12.5	17 - 23	GV2ME21	
	11	15	20 - 25	GV2ME22	
	15	20	24 - 32	GV2ME32	
10 kA ⁽¹⁾	15	20	24 - 32	GV2ME32	8100

With Rotary Handle Control

100 kA	-	-	0.1 - 0.16	GV2P01	3550
	0.06	-	0.16 - 0.25	GV2P02	
	0.09	-	0.25 - 0.40	GV2P03	
	0.18	-	0.40 - 0.63	GV2P04	
	0.37	0.5	0.63 - 1.0	GV2P05	
	0.55	0.75	1.0 - 1.6	GV2P06	
	0.75	1.0	1.6 - 2.5	GV2P07	
	1.1	2	2.5 - 4	GV2P08	
	2.2	3	4 - 6.3	GV2P10	
	3	5.5	6 - 10	GV2P14	
50 kA ⁽²⁾	5.5	7.5	9 - 14	GV2P16	4200
	7.5	10	13 - 18	GV2P20	
	9	12.5	17 - 23	GV2P21	
	11	15	20 - 25	GV2P22	
	15	20	24 - 32	GV2P32	
	18.5	25	30...40 A	GV3P40	
	22	29	37...50 A	GV3P50	
35 kA ⁽²⁾	30	40	48...65 A	GV3P65	4475
	37	50	62...73 A	GV3P73	
	50 kA	15	20	24 - 32	
50 kA	18.5	25	30...40 A	GV3P40	5500
	22	29	37...50 A	GV3P50	
	30	40	48...65 A	GV3P65	
	37	50	62...73 A	GV3P73	
50 kA	9	12.5	17 - 23	GV2P21	6350
	11	15	20 - 25	GV2P22	
50 kA	15	20	24 - 32	GV2P32	10700
	18.5	25	30...40 A	GV3P40	
50 kA	22	29	37...50 A	GV3P50	12500
	30	40	48...65 A	GV3P65	
50 kA	37	50	62...73 A	GV3P73	15900
	50 kA	15	20	24 - 32	
50 kA	18.5	25	30...40 A	GV3P40	16250
	22	29	37...50 A	GV3P50	

With Protection toggle control

50 kA	37	50	40...80	GV4PE80N	18500
	55	74	65...115	GV4PE115N	18500
70 kA	75	101	90 - 150	GV7RS150 ⁽³⁾	36850
	110	147	132 - 220	GV7RS220 ⁽³⁾	45100
50 kA	160	214	144-320	LV432776	51920
	200	268	225-500	LV432977	64940

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

GV4LE/GV4L



- 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 AC3 (400/415V AC)		In (A)	Magnetic setting range A	25kA breaking capacity		50kA breaking capacity		100kA breaking capacity	
kW	hP			Reference	LP	Reference	LP	Reference	LP
0.25..0.75	0.3..1	2	12..28	-	-	GV4LE02N	on request	GV4LE02S	on request
0.55..1.5	0.7..2	3.5	21..49	-	-	GV4LE03N		GV4LE03S	
1.5..3	2..4	7	42..96	-	-	GV4LE07N		GV4LE07S	
3..5.5	4..7.5	12.5	75..175	-	-	GV4LE12N		GV4LE12S	
5.5..11	7.5..14	25	150..350	GV4LE25B	on request	GV4LE25N		GV4LE25S	
11..22	15..30	50	300..700	GV4LE50B	on request	GV4LE50N	GV4LE50S		
18.5..37	25..50	80	480..1120	GV4LE80B	12800	GV4LE80N	15000	GV4LE80S	21700
30..55	40..75	115	690..1610	GV4LE115B	12800	GV4LE115N	15000	GV4LE115S	21700

Magnetic Protection Rotary Handle Control

Motor Power AC3 (400/415V AC)		In (A)	Magnetic setting range A	25kA breaking capacity		50kA breaking Capacity	
kW	hP			Reference	LP	Reference	LP
0.25..0.75	0.3..1	2	12..28	-	-	GV4L02N	10000
0.55..1.5	0.7..2	3.5	21..49	-	-	GV4L03N	
1.5..3	2..4	7	42..96	-	-	GV4L07N	
3..5.5	4..7.5	12.5	75..175	-	-	GV4L12N	
5.5..11	7.5..14	25	150..350	GV4L25B	on request	GV4L25N	13000
11..22	15..30	50	300..700	GV4L50B	on request	GV4L50N	15800
18.5..37	25..50	80	480..1120	GV4L80B	13500	GV4L80N	
30..55	40..75	115	690..1610	GV4L115B	13500	GV4L115N	

GV4PE/GV4P



- 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 AC3 (400/415V AC)		In (A)	Thermal setting range A	25kA breaking capacity		50kA breaking Capacity		100kA breaking Capacity	
kW	hP			Reference	LP	Reference	LP	Reference	LP
0.25..0.75	0.3..1	2	0.8..2	-	-	GV4PE02N	14500	GV4PE02S	on request
0.55..1.5	0.7..2	3.5	1.4..3.5	-	-	GV4PE03N		GV4PE03S	
1.5..3	2..4	7	2.9..7	-	-	GV4PE07N	16500	GV4PE07S	
3..5.5	4..7.5	12.5	5..12.5	-	-	GV4PE12N		GV4PE12S	
5.5..11	7.5..14	25	10..25	GV4PE25B	on request	GV4PE25N	18500	GV4PE25S	
11..22	15..30	50	20..50	GV4PE50B	on request	GV4PE50N	18500	GV4PE50S	
18.5..37	25..50	80	40..80	GV4PE80B	16380	GV4PE80N	18500	GV4PE80S	22150
30..55	40..75	115	65..115	GV4PE115B	16380	GV4PE115N	18500	GV4PE115S	22150

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

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GV4P

Thermal Magnetic Protection Rotary Handle Control

Motor power AC3**		In	Thermal setting range	25kA breaking capacity		50kA breaking Capacity	
kW	hP	(A)	A	Reference	LP	Reference	LP
0.25..0.75	0.3..1	2	0.8..2	-	-	GV4P02N	on request
0.55..1.5	0.7..2	3.5	1.4..3.5	-	-	GV4P03N	
1.5..3	2..4	7	2.9..7	-	-	GV4P07N	
3..5.5	4..7.5	12.5	5..12.5	-	-	GV4P12N	
5.5..11	7.5..14	25	10..25	GV4P25B	on request	GV4P25N	
11..22	15..30	50	20..50	GV4P50B		GV4P50N	
18.5..37	25..50	80	40..80	GV4P80B	17200	GV4P80N	19400
30..55	40..75	115	65..115	GV4P115B	17200	GV4P115N	19400

* Reference to be completed by adding coil voltage code BD (24 V DC) or FU (110-230V AC)

GV4PEM



- IEC/EN 60947-1,-2,-4-1, UL 60947-4-1, CCC, EAC, CSA
- Short circuit and overload protection
- Embedded protection functions: jam, long start, phase unbalance or phase loss, ground fault
- LED indication on front face
- Remote indication, fault differentiation and alarming with the SDx module



Fully configurable on NFC using the TeSys GV4 app, available for select Android devices.

Multifunction Advanced Protection Toggle Control

Motor power AC3**		In	Thermal setting range	25kA breaking capacity		50kA breaking Capacity		100kA breaking Capacity	
kW	hP	(A)	A	Reference	LP	Reference	LP	Reference	LP
0.25..0.75	0.3..1	2	0.8..2	-	-	GV4PEM02N	on request	GV4PEM02N	on request
0.55..1.5	0.7..2	3.5	1.4..3.5	-	-	GV4PEM03N		GV4PEM03N	
1.5..3	2..4	7	2.9..7	-	-	GV4PEM07N		GV4PEM07N	
3..5.5	4..7.5	12.5	5..12.5	-	-	GV4PEM12N		GV4PEM12S	
5.5..11	7.5..14	25	10..25	GV4PEM25B	on request	GV4PEM25N		GV4PEM25S	
11..22	15..30	50	20..50	GV4PEM50B	33000	GV4PEM50N	36000	GV4PEM50S	41000
22..37	25..50	80	40..80	GV4PEM80B	34500	GV4PEM80N	37000	GV4PEM80S	42000
37..55	40..75	115	65..115	GV4PEM115B	34500	GV4PEM115N	37000	GV4PEM115S	42000

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	LP
Auxiliary Contact Block	2 (1 Each For Of Or Sd)	Internal Plug-In	NO+NC	GV4AE11	800

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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MX Shunt Trip

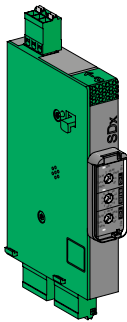
- Trips the circuit breaker when the control voltage rises above 70% of rated voltage
- Shunt trip 110..130V AC is suitable.. etc for ground fault protection when combined with a Class I ground fault sensing element

MN Under Voltage Release

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

Description	Maximum Number	Mounting	Voltage	References	LP
Mx Shunt Trip	1	Internal, Plug-In	24 VAC 50/60 HZ, 24 VDC	GV4AS027	2170
			48 VAC 50/60 HZ, 48 VDC	GV4AS057	
			110-130 VAC 50/60 HZ, 125 VDC	GV4AS137	
			220-240 VAC 50 HZ, 208-240 VAC 60 HZ, 277 VAC 60 HZ	GV4AS287	
			380-415 VAC 50 HZ, 440-480 VAC 60 HZ	GV4AS487	
Mn Undervoltage Release	1	Internal, Plug-In	24 VAC 50/60 HZ, 24 VDC	GV4AU027	2840
			48 VAC 50/60 HZ, 48 VDC	GV4AU057	
			110-130 VAC 50/60 HZ, 125VDC	GV4AU137	
			220-240 VAC 50 HZ, 208-240 VAC 60 HZ	GV4AU247	
			277 VAC 60 HZ	GV4AU286	
			380-415 VAC 50 HZ	GV4AU415	
			440-480 VAC 60 HZ	GV4AU486	

SDx Contact Module (For GV4PEM)



Provides fault differentiation and alarming for GV4PEM

2 NO/NC outputs dry contacts which can be assigned to any of the following 8 SD status

- SDT 95% overload alarm when thermal image of the motor exceeds 95% of permissible temp rise
- SDTXXS overload alarm will trip in 10-40s (adjustable) with the same load
- SDTAM overload alarm before tripping - for phase imbalance, overload, jam, activates to open contactor before cb tripping
- SDT overload trip indication
- SDJAM jam trip indication
- SDUNB phase imbalance trip indication
- SDLS long start trip indication
- SDGF ground fault trip indication

Description	Maximum Number	Mounting	Type of Contacts	References	LP
SDx Alarming/Fault Differentiation Module	2	SIDE	NO/NC	GV4ADM1111	on request

Rotary Handles

Description	Type	Degree of Protection	Reference	LP
Direct Mounting Rotary Handle	Black	IP40	GV4ADN01	1140
	Red Handle on Yellow Bezel	IP40	GV4ADN02	
Front Extended Rotary Handle (Min Shaft Length 214Mm/Max Shaft Length 627Mm)	Black	IP54	GV4APN01	1690
	Red Handle on Yellow Bezel	IP54	GV4APN02	
	Red Handle on Yellow Bezel	IP65	GV4APN04	1775
Side Rotary Handle (Left or Right)	Black	IP54	LV426935	2800
	Red Handle on Yellow Bezel	IP54	LV426936	

Connection Accessories

Description	Reference	LP
Spreader 3-pole (To increase pitch to 35mm) (1 pce)	LV426940	600

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 18, 2019

Accessories for Motor Circuit Breakers

Description	Reference	Unit LP [₹]	
For GV2			
Front contact NO or NC ⁽¹⁾	GVAE1	730	
Front contact NO + NC	GVAE11 <input checked="" type="checkbox"/>	890	
	GVAE20	980	
Side contact NO + NC	GVAN11 <input checked="" type="checkbox"/>	1075	
	GVAN20	1075	
Fault signalling contact +1 NO contact ⁽²⁾	GVAD1010 <input checked="" type="checkbox"/>	1400	
Fault signalling contact +1 NC contact ⁽²⁾	GVAD1001	1400	
Short circuit signalling contact block 1 C/O	GVAM11	1335	
Undervoltage trip :	110 ... 115V 50Hz	GVAU115	2415
	220 ... 240V 50Hz	GVAU225	2560
	380 ... 400V 50Hz	GVAU385	2560
Shunt trip :	110 ... 115V 50Hz	GVAS115	2560
	220 ... 240V 50Hz	GVAS225	2560
	380 ... 400V 50Hz	GVAS385	2560
Additive limiter for increasing breaking capacity to 100kA for GV2ME and GV2P.	GV1L3	4130	
Connection block - GV2 with contactor LC1-D09..D38	GV2AF3	505	
Connection block - LS1 D32 or GV2 with contactor LC1-K or LP1-K	GV2AF01	540	
Empty enclosure for GV2ME - plastic	GV2MP02	1850	
	GV2MC02	2035	

(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 LP [₹]
For GV2 Breakers			
45 mm	2	GV2G245	1090
	4	GV2G445	1720
54 mm	2	GV2G254	1280
	3	GV2G354	1440
	4	GV2G454	1805
72 mm	5	GV2G554	1955
	2	GV2G272	1535
	4	GV2G472	2205

Description	Reference	Unit LP [₹]
Accessories for Busbars		
Terminal block - to supply one or more 3-pole busbar GV2	GV2G05	2765
Protective end covers for unused busbar outlets	GV1G10	485
Terminal block for connection from top	GV1G09	1450

Accessories for Motor Circuit Breakers

Description	Reference	Unit LP [₹]
For GV2-P/GV2-L		
External operator - IP54, Black	GV2APN01 <input checked="" type="checkbox"/>	2570
External operator - IP54, Yellow/Red	GV2APN02	4730
Visible isolation block - for motor circuit breaker GV2	GV2AK00	2150
For GV3P/GV3L		
Auxiliary Contacts		
Front contact: 1 NO (fault) + 1 NC (Auxiliary)	GVAED011	925
Front contact: 1 NO (fault) + 1 NO (Auxiliary)	GVAED101	1020
Busbar		
3-pole, 3 tap, 64 mm pitch	GV3G364	1045
S-shape bus bar	GV3S	785
External Operator		
IP54, Black	GV3APN01	3065
IP54, Yellow/Red	GV3APN02	2945

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 LP [₹]
For GV7			
Accessory for direct rotary handle mount on door ⁽²⁾	-	GV7AP05	1690
Auxiliary contact - 1 OC	-	GV7AE11 <input checked="" type="checkbox"/>	1660
Clip-on connector - upto 150 A - 1.5..95 mm ²	-	GV7AC021	680
Clip-on connector- upto 220 A - 1.5..185 mm ²	-	GV7AC022	645
Fault discrimination Device	24...72V DC/ 24...48V AC	GV7AD111	4870
	110 ... 240V AC/ DC	GV7AD112	4870
Front rotary handle GV7AP GV7R - black handle ⁽²⁾	-	GV7AP03	2860
	-	GV7AP01	4980
Padlocking device - 1..3 padlocks Ø 5..8mm shank ⁽³⁾	-	GV7V01	785
Phase barriers	-	GV7AC04	875
Terminal shields IP405 ⁽¹⁾	-	GV7AC01	1765

For GV7			
Shunt release	110...130 V AC 50/60 Hz	GV7AS107	3785
	200...240 V AC 50/60 Hz	GV7AS207	3785
	380...440 V AC 50/60 Hz	GV7AS387	3645
Under Voltage release	110...130 V AC 50/60 Hz	GV7AU107	3905
	200...240 V AC 50/60 Hz	GV7AU207	3905
	380...440 V AC 50/60 Hz	GV7AU387	3905
3-pole spreader - for Motor circuit breaker GV7 45 mm pitch		GV7AC03	1130

(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

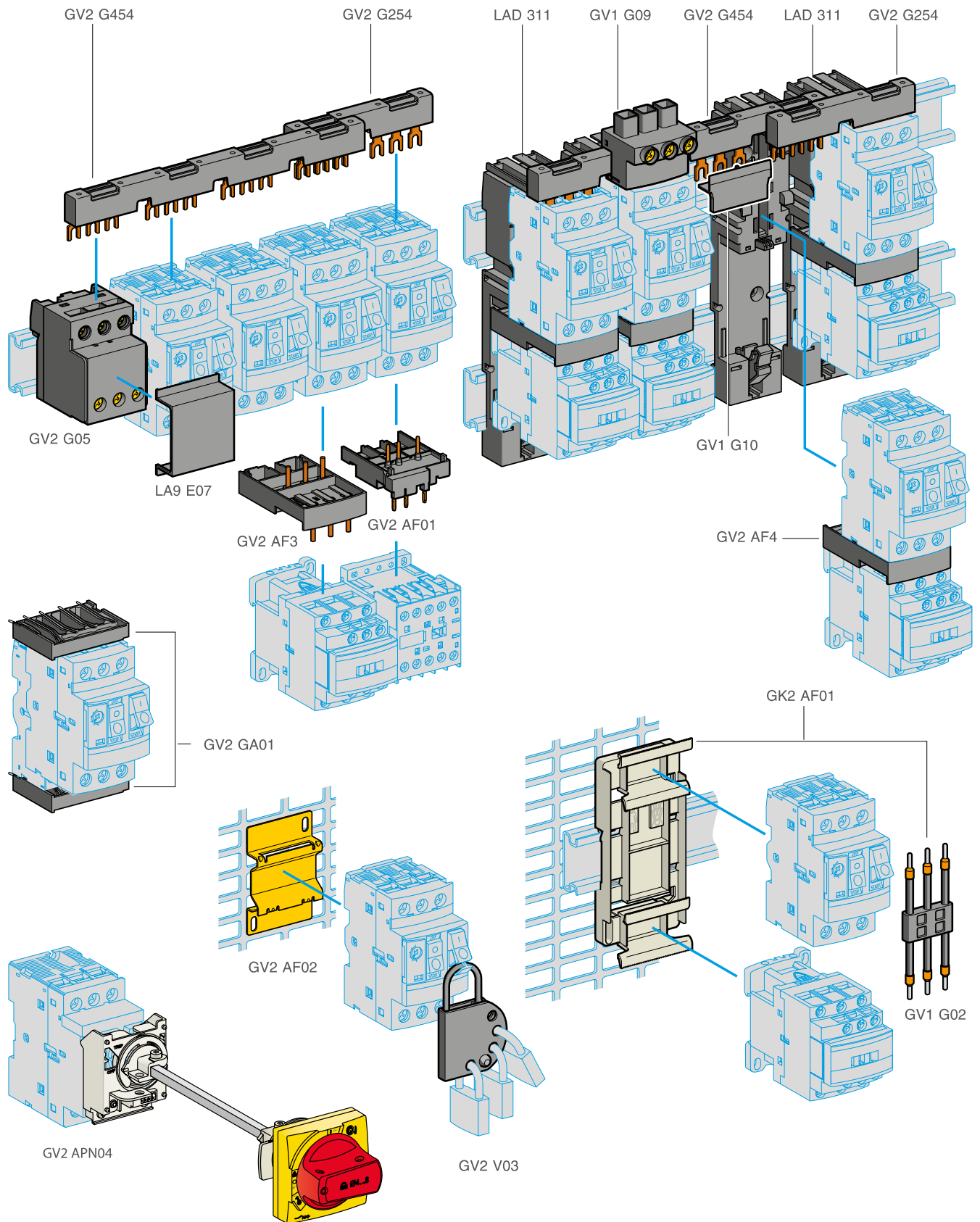
For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

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TeSys

Accessories compatibility



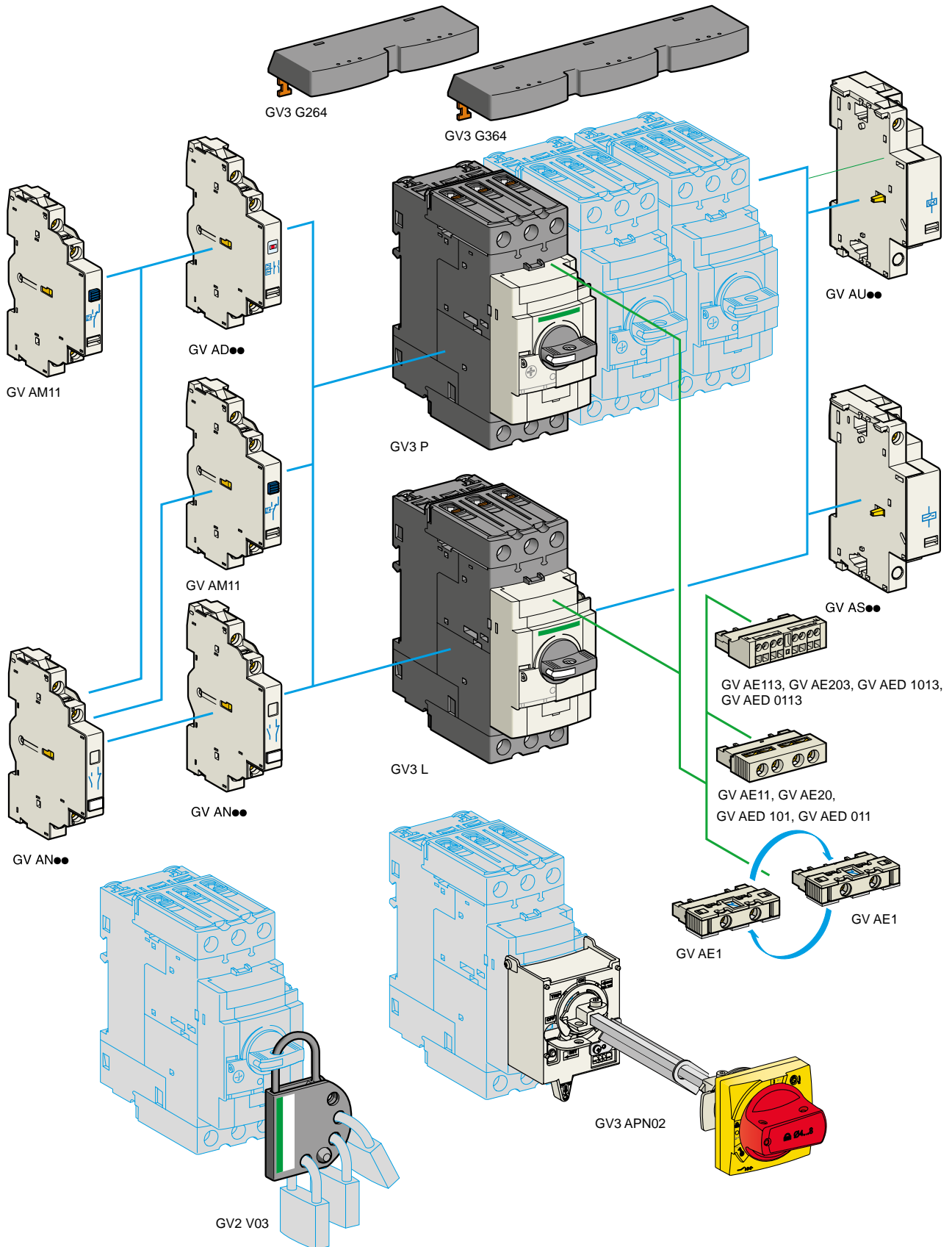
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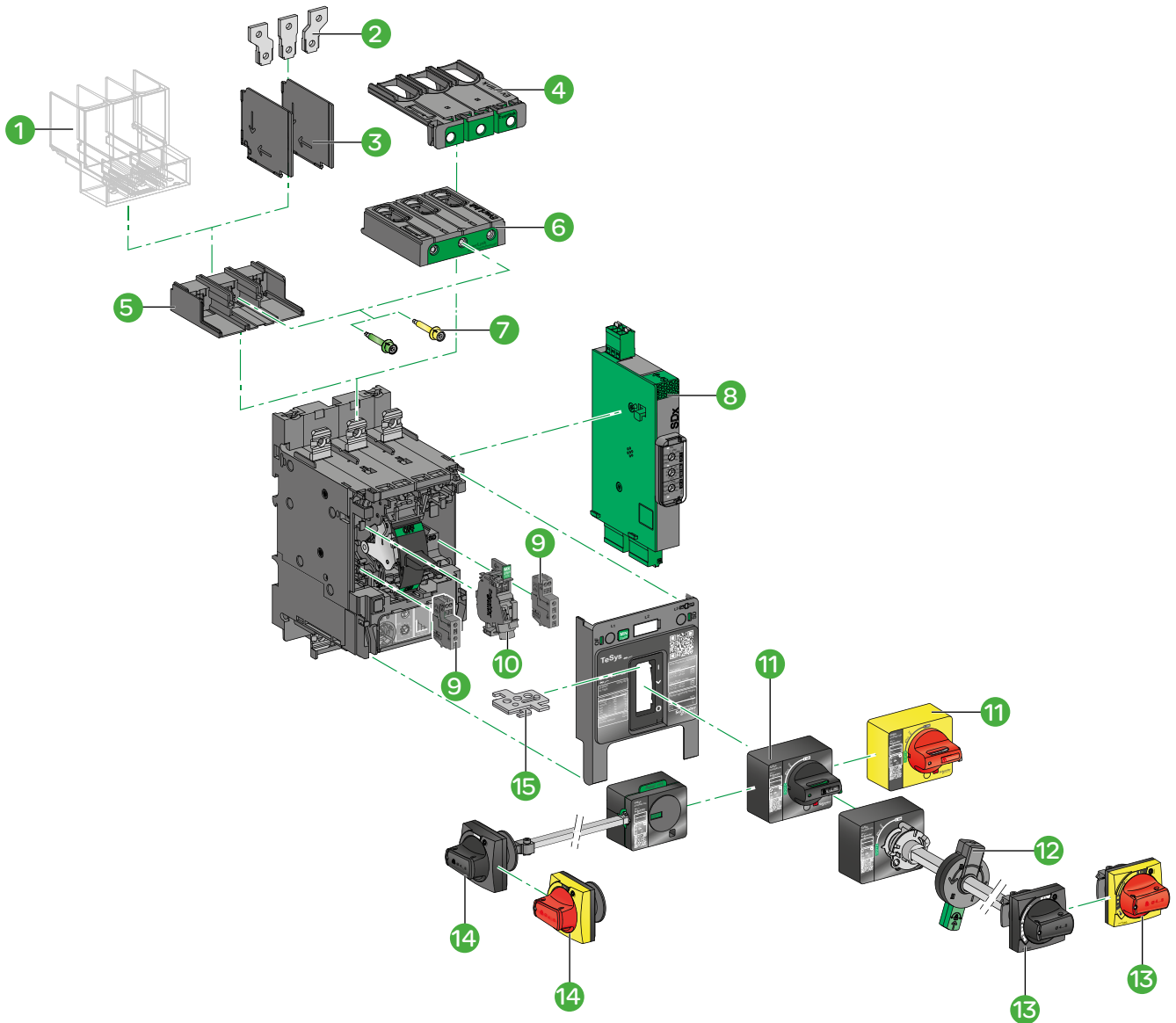
TeSys

Accessories compatibility



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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

Lineryg

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

Because Lineryg is:

Flexible



Safer



Reliable



Linergy BZ
Power Busbars

- > Quick connection plates for Compact and TeSys offers
- > Multi-standard offering up to 630 A

Linergy HK
"Hot Plug" Distribution

- > Panel easily upgradeable
- > Reliable "hot plug" modification or upgrade
- Multi-standard system of up to 160 A

Linergy FT
Device Feeders

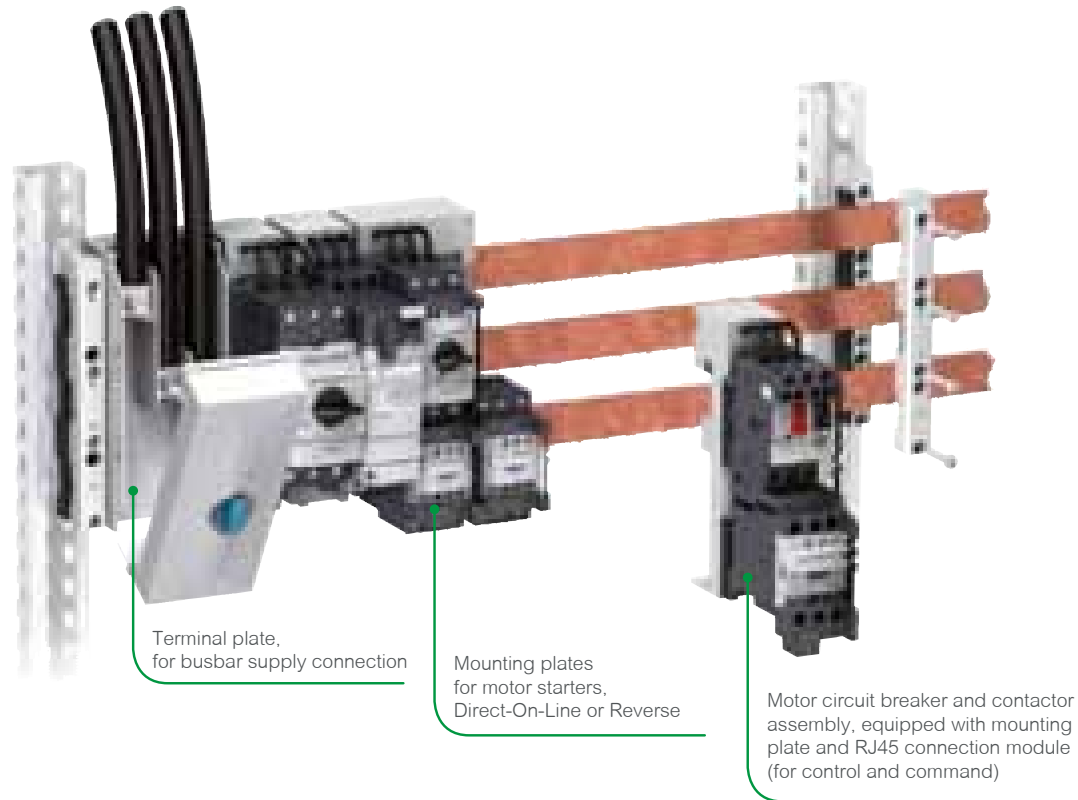
- > Optimised productivity and efficiency of your control panel
- > Easy to install
- > High reliability

- > 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

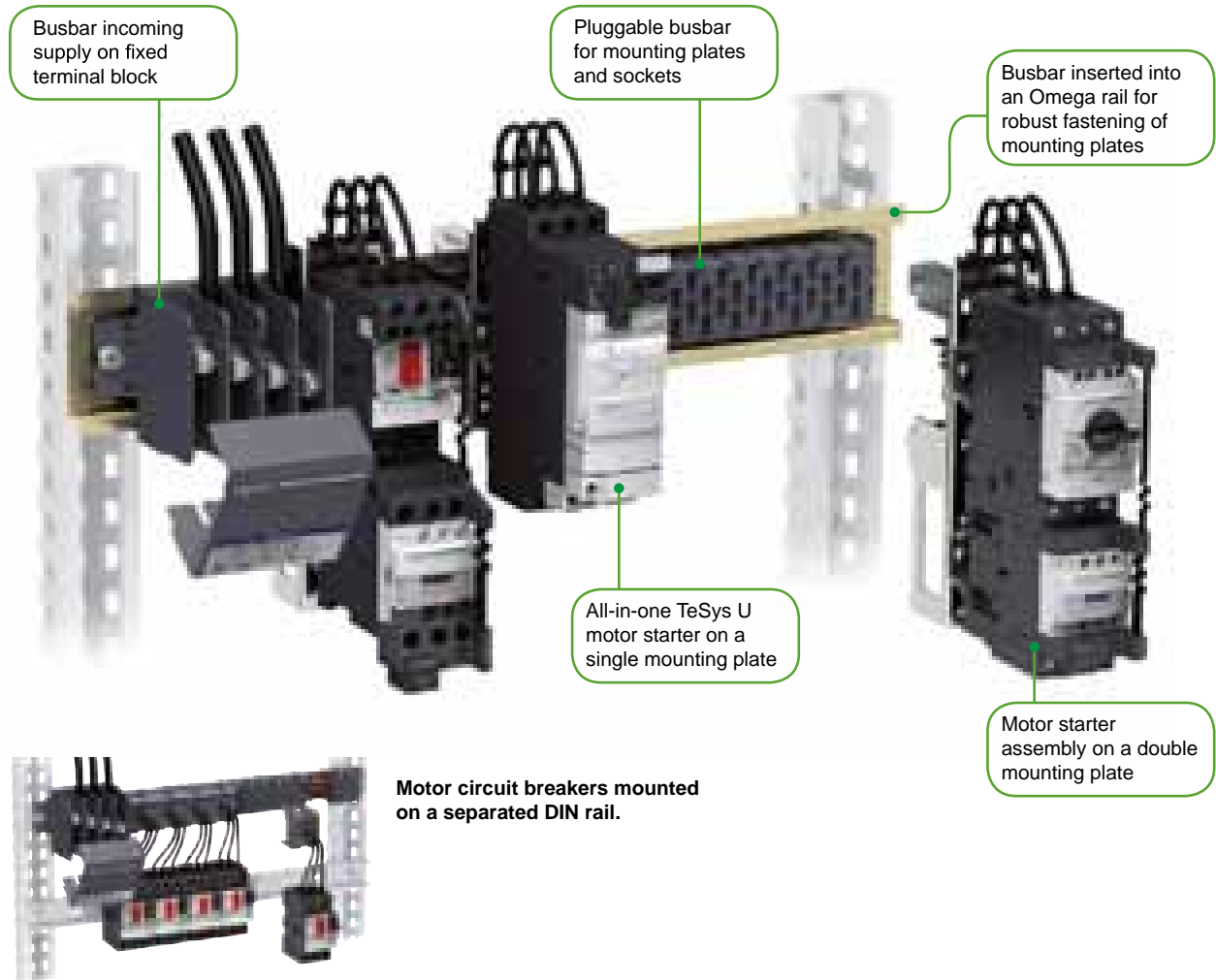
- A reliable electrical contact is ensured by copper blades
- The blue part locks the mounting plate on the busbar, compatibility is provided with standard profiles:
 - v Height 12, 15, 20, 25 or 30 mm,
 - v Width 5 or 10 mm



Lineryg HK

Lineryg 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.



TeSys Switches

Vario Switch Disconnectors

[I _{th}] Conventional Thermal Current**	Poles Description	Rated Operational Power (AC 23)*	Reference	Unit LP [₹]
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Complete Enclosed Switches

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

10 A	3P	4 KW	VCF02GE	2520
16 A	3P	5.5 KW	VCF01GE	2745
20 A	3P	7.5 KW	VCF0GE	3335
25 A	3P	11 KW	VCF1GE	3580
32 A	3P	15 KW	VCF2GE	4195
50 A	3P	22 KW	VCF3GE	6485
63 A	3P	30 KW	VCF4GE	7590

* Rated Power at 415 V

** I_{th} in enclosure

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

12 - 40 A	4 Screw Fixing	IP65	KCF1PZ	550
63 - 80 A	4 Screw Fixing	IP65	KCF2PZ	585
125 - 175 A	4 Screw Fixing	IP40	KCF3PZ	2390

Accessories

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

Main Pole Module	V02/VCF02	12 A	1P	-	-	VZ02	735
	V01/VCF01	20 A	1P	-	-	VZ01	755
	V0/VCF0	25 A	1P	-	-	VZ0	800
	V1/VCF1	32 A	1P	-	-	VZ1	785
	V2/VCF2	40 A	1P	-	-	VZ2	840
	V3/VCF3	63 A	1P	-	-	VZ3	1090
	V4/VCF4	80 A	1P	-	-	VZ4	1090
Neutral Pole Module ⁽²⁾	V02 / VCF02 to V2 / VCF2	-	1N	-	-	VZ11	895
	V3 / VCF3 to V4 / VCF4	-	1N	-	-	VZ12	1205
	V5 / VCF5 to V6 / VCF6	-	1N	-	-	VZ13	2485
Earthing Module	V02 / VCF02 to V2 / VCF20	-	-	-	-	VZ14	885
	V3 / VCF3 to V4 / VCF4	-	-	1	-	VZ15	1045
	V5 / VCF5 to V6 / VCF6	-	-	1	-	VZ16	1625
Auxiliary Contact Block Module	V02/ VCF02 to V6 / VCF6	-	-	-	1 NO + 1 NC	VZ7	925
	V2/ VCF02 to V6 / VCF6	-	-	-	2 NO	VZ20	925

(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 LP [₹]
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Components for Door Interlocking

Shaft extension - for Mini-VARIO and VARIO - V02..V2	V02...V2	VZ17	885
		VZ30	1045
Shaft extension - for Mini-VARIO and VARIO - V3 V4 V5 V6	V3, V4, V5, V6	VZ18	1045
		VZ31	1195
Door interlock plate	VZ17 / VZ30	KZ32	230
		VZ18/31	KZ74

Input Terminal Protection Shrouds

Terminal Shrouds	V02 - V2	VZ8	295
		VZ26	260
	V3 - V4	VZ9	315
		VZ27	260
	V5 - V6	VZ10	400
		V02 - V6	VZ28
VZ29	295		

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

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Vario Switch Disconnectors

[I _{th}] Conventional Thermal Current	Poles Description	Reference	Unit LP [₹]
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Complete Switch with Padlockable Operator

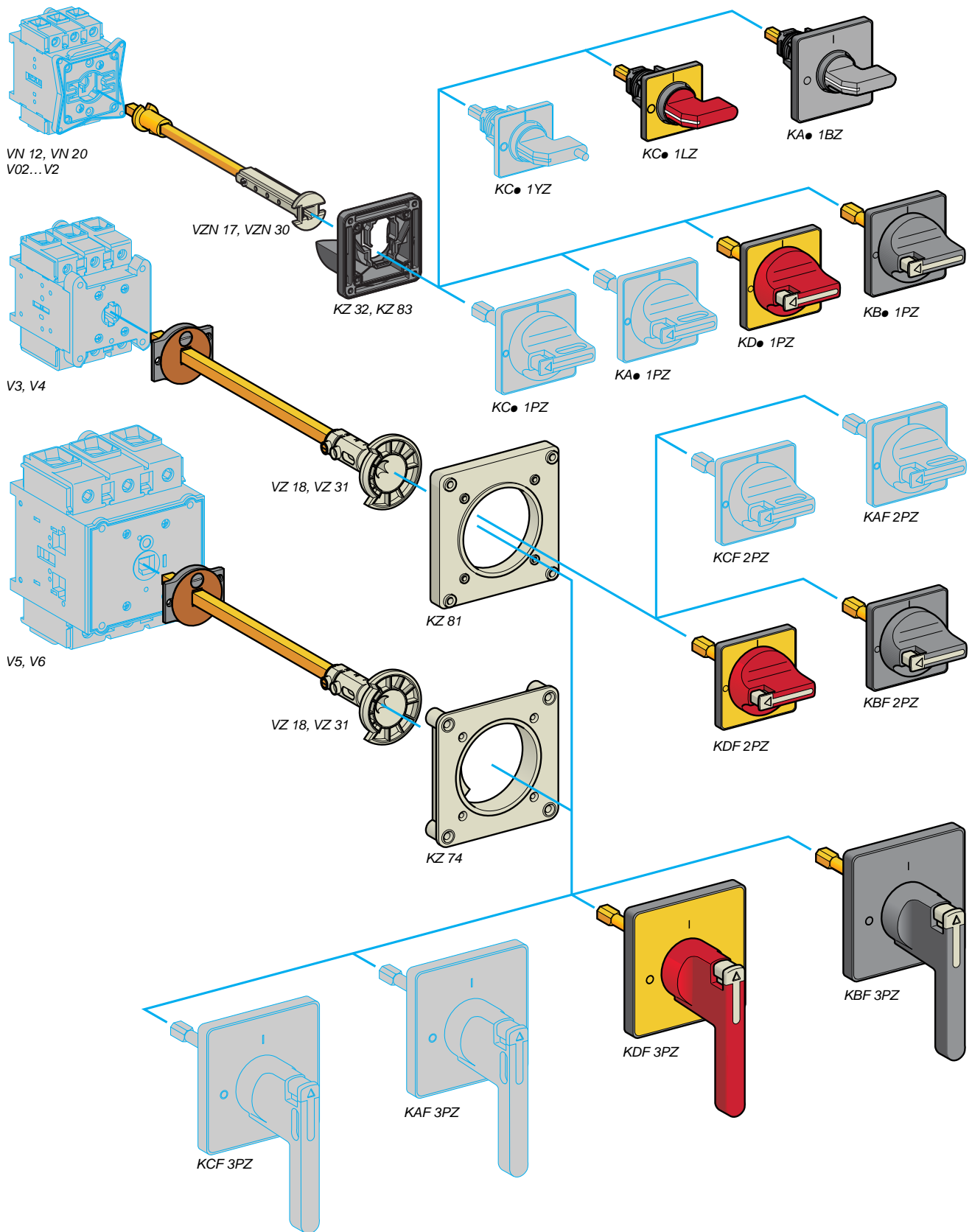
• Suitable for Front Mounting or Base Mounting

12A	3P	VCF02	1585
20 A	3P	VCF01	1720
25 A	3P	VCF0	2015
32 A	3P	VCF1	2110
40 A	3P	VCF2	2615
63 A	3P	VCF3	4100
80 A	3P	VCF4	4430
125 A	3P	VCF5	10150
175 A	3P	VCF6	12300

Switch Bodies

12A	V02	1035
20 A	V01	1195
25 A	V0	1420
32 A	V1	1720
40 A	V2	2110
63 A	V3	2935
80 A	V4	3860
125 A	V5	7830
175 A	V6	9990

TeSys Switches Accessories



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

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Let TeSys U build the solution for you!



TeSys U is an innovative “self-protected combination starter” providing motor disconnect, motor branch circuit protection, motor controller and motor overload protection in a single product.

- Total Coordination compliant to IEC 60947-6-2 and UL 508 Type E
- Modular and Scalable
- Compact starter 45 mm width

schneider-electric.co.in/TeSys



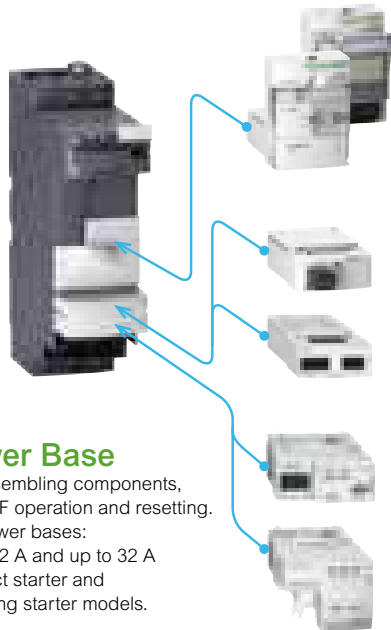
TeSys U: All in
one Motor
Starter Solution



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 32 A.

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: up to 12 A and up to 32 A
- > 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
Base Power 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 or 48 VDC ES 110..240 VAC/DC FU <small>*prewired cables to be ordered separately</small>		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* LUC 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 LUFN 11 Contactor auxiliary contacts 1NO + 1NC 11 2NC 02 2NO 20 Side contacts 2NO LUARE20 Power auxiliary contacts (trip status) LUA1C 20 1NO + 1NC 11 2NO 20	Accessories Description Reference Mounting kit Black handle, with error status IP54 LUAPN21 Mounting kit Red handle, with error status IP54 LUAPN22 Line spacer for UL508 Type E LUSPO 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

☑ NORMAL STOCK ITEMS

W.E.F. January 18, 2019

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

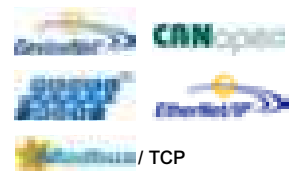
Monitoring Functions:

- 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

Operator Control Display



Description	Reference
Operator Control Display with configuration backup	LTM CUF


Connector for Expansion



Length (m)	Reference
0.04	LTMCC004 ³
0.3	LTM9CEXP03
1	LTM9CEXP10


³ Sold in lots of 6

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

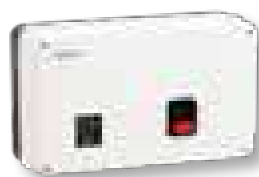
Description	Composition	Reference
Programming software SoMove	1 Program for each PC	On request
PC connecting cable	USB to RS485 Converter	TCSMCNAM3M002P

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

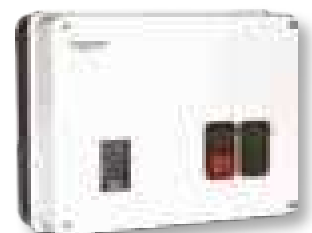
TE Start - Lifeline of Motors



>> 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 [₹]
----------------	-------------------------------------	-------------------	-----------	--------------

TDL, Automatic 1 Phase (0.17 - 3 HP)

0.17	1.1...1.7 A	5TDL	MS11AC04*	2615
0.33	2.5...4 A	5TDL	MS11AC06*	
0.5	4...6 A	5TDL	MS11AC07*	
1	5.5...8 A	5TDL	MS11AC09*	
1.5	9...13 A	10TDL	MS11AC10*	2920
2		10TDL	MS11AC11*	
3		10TDL	MS11AC13*	

TDL, Automatic 3 Phase (0.05 - 125 HP)

0.05	0.16...0.25 A	5TDL	MS13AC01*	2500	
0.125	0.24...0.4 A	5TDL	MS13AC03*		
0.17	0.4...0.63 A	5TDL	MS13AC04*		
0.25	0.63...1 A	5TDL	MS13AC05*		
0.33		5TDL	MS13AC06*		
0.5	1...1.7 A	5TDL	MS13AC07*		
0.75	1.6...2.5 A	5TDL	MS13AC08*	2595	
1		5TDL	MS13AC09* ✓		
1.5		5TDL	MS13AC10*		
2	2.5...4 A	5TDL	MS13AC11* ✓	2900	
3	4...6 A	5TDL	MS13AC12* ✓		
5	5.5...8 A	5TDL	MS13AC14* ✓		
7.5	9...13 A	10TDL	MS13AC15* ✓		
10	12...18 A	10TDL	MS13AC16* ✓		
12.5	16...24 A	15TDL	MS13AC17*		
15		15TDL	MS13AC18* ✓		
17.5	23...32 A	20TDL	MS13AC19*		7970
20		20TDL	MS13AC20*		
25	30...40 A	30TDL	MS13AC21*		12550
30	37...50 A	30TDL	MS13AC22*		
40	48...65 A	40TDL	MS13AC24*		
50	63...80 A	50TDL	MS13AC26*		
75	84...135 A	75TDL	MS13AC28*		
100	124...198 A	100TDL	MS13AC29*	37520	
125		125TDL	MS13AC30*		44145

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

3	4...6 A	10TRS	MS13RJ12*	7110
5	5.5...8 A	10TRS	MS13RJ14*	
7.5	9...13 A	10TRS	MS13RJ15*	
10	12...18 A	10TRS	MS13RJ16*	
12.5	16...24 A	20TRS	MS13RJ17*	11635
15		20TRS	MS13RJ18*	
17.5	23...32 A	20TRS	MS13RJ19*	12275
20		20TRS	MS13RJ20*	

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 A	15TSDA	MS23AI15*	8475
10	7...10 A	15TSDA	MS23AI16* ✓	8475
12.5	9...13 A	15TSDA	MS23AI17*	8600
15		15TSDA	MS23AI18* ✓	8600
20	12...18 A	30TSDA	MS23AI20* ✓	9765
25	16...24 A	30TSDA	MS23AI21* ✓	11100
30	23...32 A	30TSDA	MS23AI22* ✓	12835
35		40TSDA	MS23AI23*	20580
40	30...38 A	40TSDA	MS23AI24*	22660
50	37...50 A	50TSDA	MS23AI26*	27510
60		75TSDA	MS23AI27*	47735
75	45...65 A	75TSDA	MS23AI28*	50970
100	62...99 A	100TSDA	MS23AI29*	66320
125	84...135 A	125TSDA	MS23AI30*	68870
150		150TSDA	MS23AI31*	85715
200	124...198 A	200TSDA	MS23AI32*	103005
250	174...279 A	250TSDA	MS23AI33*	129990
400	259...414 A	400TSDA	MS23AI34*	156010

*Coil Voltage Code

VOLTAGE	220	415
AC 50 Hz	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 D.O.L

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 7.5 kW

0.54...0.8 A	0.25	LE1M35**05	3740
0.8...1.2 A	0.37	LE1M35**06	4190
1.2...1.8 A	0.55	LE1M35**07	4570
1.8...2.6 A	0.75	LE1M35**08	4410
2.6...3.7 A	1.50	LE1M35**10	
3.7...5.5 A	2.20	LE1M35**12	
5.5...8 A	3	LE1M35**14	4160
8...11.5 A	4	LE1M35**16	4410
10...14 A	5.50	LE1M35**21	4675
12...16 A	7.50	LE1M35**22	4410

** 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

✓ NORMAL STOCK ITEMS

W.E.F. January 18, 2019

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	210
Pushbutton Switch Assembly for 10 TDL	10	MSMC03	420
Start Pushbutton Assembly for 40 - 400 TSDA	10	MSMI01	275
Stop Pushbutton Assembly for 40 - 400 TSDA	10	MSMI02	275
9 Way Terminal Block for 15 TSDA	10	MSMI03	400
9 Way Terminal Block for 30 TSDA	10	MSMI04	400
9 Way Terminal Block for 40 - 75 TSDA	10	MSMI05	960
Electronic Timer for 15 - 400 TSDA	10	MSMI06 <input checked="" type="checkbox"/>	1870
Pushbutton Actuator Assembly for 15/20/30 TDL, 10/20 TRS &15/30 TSDA	10	MSMK01	455

Note:- For Spare coil, contactor, O/L relay and accessories, please see Activa pricelist 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 18, 2019

Selection Table

Recommended Selection Chart*

- Selection for: DOL Motor Feeders with Contactor + OL Relay + Fuses
- Type of Motor: IE2/IE3 Complying to IS:12615
- Contactor & Relay: EasyPact TVS
- Iq Current : 50kA
- Ue: 415 V, 50 Hz

3Φ Motors		FLC - I _n (Amps)	Contactor	Overload Relay	Nominal Back-up Fuse			SDF	
kW	hp		Type	Range (A)	Fuse type	Fuse Rating	Fuse Size		Type
0.12	0.16	0.51	LC1E09	LRE04	0.4-0.63 A	4NHG000B	4	000	NX032
0.18	0.25	0.6	LC1E09	LRE04	0.4-0.63 A	4NHG000B	4	000	NX032
0.25	0.33	0.8	LC1E09	LRE05	0.63-1 A	4NHG000B	4	000	NX032
0.37	0.5	1.4	LC1E09	LRE06	1-1.6 A	4NHG000B	4	000	NX032
0.55	0.75	1.7	LC1E09	LRE06	1-1.6 A	4NHG000B	4	000	NX032
0.75	1	2.2	LC1E09	LRE07	1.6-2.5 A	6NHG000B	6	000	NX032
1.1	1.5	2.9	LC1E09	LRE08	2.5-4 A	10NHG000B	10	000	NX032
1.3	1.75	3	LC1E09	LRE08	2.5-4 A	10NHG000B	10	000	NX032
1.5	2	3.8	LC1E09	LRE08	2.5-4 A	10NHG000B	10	000	NX032
2.2	3	5.1	LC1E09	LRE10	4-6 A	16NHG000B	16	000	NX032
3	4	6	LC1E09	LRE12	5.5-8 A	20NHG000B	20	000	NX032
3.7	5	8.1	LC1E09	LRE14	7-10 A	20NHG000B	20	000	NX032
4	5.5	8.5	LC1E12	LRE14	7-10 A	20NHG000B	20	000	NX032
5.5	7.5	11.4	LC1E18	LRE16	9-13 A	25NHG000B	25	000	NX032
7.5	10	15.4	LC1E18	LRE21	12-18 A	32NHG000B	32	000	NX063
9.3	12.5	17.3	LC1E25	LRE22	16-24 A	50NHG000B	50	000	NX063
11	15	22	LC1E25	LRE22	16-24 A	50NHG000B	50	000	NX063
13	17.5	24	LC1E32	LRE32	23-32 A	50NHG000B	50	000	NX063
15	20	30	LC1E32	LRE32	23-32 A	63NHG000B	63	000	NX063
18.5	25	36	LC1E40	LRE355	30-40 A	80NHG000B	80	000	NX080
22	30	43	LC1E65	LRE357	37-50 A	80NHG000B	80	000	NX080
30	40	56	LC1E80	LRE359	48-65 A	100NHG000B	100	000	NX100
37	50	69	LC1E95	LRE363	63-80 A	125NHG000B	125	00	NX125
45	60	84	LC1E95	LRE365	80-104 A	160NHG000B	160	00	NX160
55	75	99	LC1E120	LRE482	84-135 A	160NHG000B	160	00	NX160
75	100	134	LC1E160	LRE483	124-198 A	250NHG1B	250	1	NX250
80	110	139	LC1E160	LRE483	124-198 A	250NHG1B	250	1	NX250
90	120	164	LC1E200	LRE483	124-198 A	250NHG1B	250	1	NX250
110	150	204	LC1E250	LRE484	146-234 A	250NHG1B	250	1	NX250
125	170	234	LC1E250	LRE485	174-279 A	315NHG2B	300	2	NX315
132	180	247	LC1E250	LRE485	174-279 A	315NHG2B	315	2	NX315
160	215	288	LC1E300	LRE486	208-333 A	400NHG2B	400	2	NX400
180	240	298	LC1E300	LRE486	208-333 A	400NHG2B	400	2	NX400
200	270	348	LC1E400	LRE487	258-414 A	400NHG2B	400	2	NX400
225	300	360	LC1E400	LRE487	258-414 A	500NHG3B	500	3	NX0630
250	335	435	LC1E500	LRE488	321-513 A	630NHG3B	630	3	NX0630
275	370	440	LC1E500	LRE488	321-513 A	630NHG3B	630	3	NX0630
315	425	548	LC1E630	LRE489	394-630 A	800NHG3B	800	3	--
335	452	550	LC1E630	LRE489	394-630 A	800NHG3B	800	3	--

Disclaimer

- The rated motor current used for derivation is Full Load Current (FLC) for 3-phase Squirrel Cage Induction Motors as indicated in IS12615:2011
- Selection is for Normal Starting time (Relay Trip classes 10A/10).
- This selection is valid only for suggested Product combinations. Change in any of the recommended combination will invalidate the co-ordination and Human safety. Installation safety and product safety requirements may not be fulfilled.

For more details contact the 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

Selection Table

Recommended Selection Chart*

- Selection for: DOL Motor Feeders with Contactor + Circuit Breaker (OL Integral or Separate)
- Type of Motor: IE2/IE3, 4Pole Motors Complying to IS:12615
- Contactor, Relay & CB: EasyPact
- Iq Current: 50kA
- Ue: 415 V, 50 Hz

3Φ Motors			Contactor	Overload Relay		Circuit Breaker	
kW	hp	FLC - In (Amps)	Type	Range (A)	Type	Rating	Fuse Size
0.06	x	0.19	LC1E09			GZ1E02	0.16 - 0.25
0.09	x	0.28	LC1E09			GZ1E03	0.25 - 0.4
0.12	0.16	0.51	LC1E09			GZ1E04	0.4 - 0.63
0.18	0.25	0.6	LC1E09			GZ1E04	0.4 - 0.63
0.25	0.33	0.8	LC1E09			GZ1E05	0.63 - 1
0.37	0.5	1.2	LC1E09			GZ1E06	1 - 1.6
0.55	0.75	1.5	LC1E09			GZ1E06	1 - 1.6
0.75	1	2	LC1E09			GZ1E07	1.6 - 2.5
1.1	1.5	2.7	LC1E09			GZ1E08	2.5 - 4
1.3	1.75	3	LC1E09			GZ1E08	2.5 - 4
1.5	2	3.5	LC1E09			GZ1E08	2.5 - 4
2.2	3	4.92	LC1E18			GZ1E10	4 - 6.3
3	4	6	LC1E18			GZ1E14	6--10
3.7	5	7.5	LC1E25			GZ1E14	6--10
4	5.5	8.5	LC1E25			GZ1E14	6--10
5.5	7.5	11	LC1E32			GZ1E16	9--14
7.5	10	14.5	LC1E32			GZ1E20	13 - 18
9.3	12.5	17.3	LC1E40			GZ1E21	17 - 23
11	15	21	LC1E40			GZ1E22	20-25
13	17.5	24	LC1E50			GZ1E32	24 - 32
15	20	29	LC1E50			GZ1E32	24 - 32
18.5	40	34	LC1E80	LRE355	30 - 40	CVS100-MA	50
22	50	40	LC1E80	LRE357	37 - 50	CVS100-MA	50
30	63	55	LC1E120	LRE480	51 - 81	CVS100-MA	100
37	100	66	LC1E120	LRE481	62 - 99	CVS100-MA	100
45	100	80	LC1E120	LRE481	62 - 99	CVS100-MA	100
55	135	100	LC1E160	LRE482	84 - 135	CVS160-MA	150
75	150	135	LC1E160	LRE483	124 - 198	CVS160-MA	150
90	185	160	LC1E300	LRE484	146 - 234	CVS250-MA	220
110	220	200	LC1E300	LRE484	146 - 234	CVS250-MA	220
132	265	230	LC1E300	LRE485	174 - 279	CVS400-MA	320
160	315	270	LC1E300	LRE486	208 - 333	CVS400-MA	320
200	400	361	LC1E500	LRE488	321 - 513	CVS630-MA	500
220	500	380	LC1E500	LRE488	321 - 513	CVS630-MA	500
250	500	430	LC1E500	LRE488	321 - 513	CVS630-MA	500

Disclaimer

- The rated motor current used for derivation is Full Load Current (FLC) for 3-phase Squirrel Cage Induction Motors as indicated in IS12615:2011
- Selection is for Normal Starting time (Relay Trip classes 10A/10).
- This selection is valid only for suggested Product combinations. Change in any of the recommended combination will invalidate the co-ordination and Human safety. Installation safety and product safety requirements may not be fulfilled.

For more details contact the 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




NORMAL STOCK ITEMS

W.E.F. January 18, 2019

Selection Table

TeSys motor starters - Type 2 coordination

- Selection for: DOL Motor Feeders with Contactor + Circuit Breaker (OL Inbuilt)
- Type of Motor: IE2/IE3/IE4
- I_q Current: 50kA
- U_e: 415 V, 50 Hz

Standard power ratings of 3-phase motors P (kW)	FLC	Circuit-breaker	Setting range of thermal trips	Contactor
	I _e (A)	Reference ⁽¹⁾	A	Reference
0.06	0.2	GV2 P02 or GV2 ME02	0.16...0.25	LC1 D09
0.09	0.3	GV2 P03 or GV2 ME03	0.25...0.4	LC1 D09
0.12	0.44	GV2 P04 or GV2 ME04	0.4...0.63	LC1 D09
0.18	0.6	GV2 P04 or GV2 ME04	0.4...0.63	LC1 D09
0.25	0.85	GV2 P05 or GV2 ME05	0.63...1	LC1 D09
0.37	1.1	GV2 P05 or GV2 ME05	0.63...1	LC1 D09
0.55	1.5	GV2 P06 or GV2 ME06	1...1.6	LC1 D09
0.75	1.9	GV2 P07 or GV2 ME07	1.6...2.5	LC1 D09
1.1	2.7	GV2 P08 or GV2 ME08	2.5...4	LC1 D09
1.5	3.6	GV2 P08 or GV2 ME08	2.5...4	LC1 D09
2.2	4.9	GV2 P10 or GV2 ME10	4...6.3	LC1 D09
3	6.5	GV2 P14 or GV2 ME14	6...10	LC1 D09
4	8.5	GV2 P14 or GV2 ME14	6...10	LC1 D09
5.5	11.5	GV2 P16	9...14	LC1 D25
7.5	15.5	GV2 P20	13...18	LC1 D25
9	18.1	GV2 P21	17...23	LC1 D25
11	22	GV2 P22	20...25	LC1 D25
15	29	GV2 P32	25...40	LC1 D32
18.5	35	GV3 P40	30...40	LC1 D50A
22	41	GV3 P50	37...50	LC1 D50A
30	55	GV3 P65	48...65	LC1 D65A
37	66	GV4 P80 	62...73	LC1 D80
45	80	GV4P115N 	65...115	LC1 D115
55	97	GV4P115N 	65...115	LC1 D115
55	97	GV7 RS150	90...150	LC1 D150
75	132	GV7 RS150	90...150	LC1 D150
90	160	GV7 RS220	132...220	LC1 F185
110	195	GV7 RS220	132...220	LC1 F225

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

Note:

The Type-2 coordination tables are based on internal testing conducted by Schneider Electric.

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For more information, please contact Schneider Electric Customer Care: customercare.in@schneider-electric.com

For Star delta selection please contact Customer care



For detailed
Type 2 booklet.

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 18, 2019

Selection Table

TeSys motor starters - Type 2 coordination

- Selection for: DOL Motor Feeders with Contactor + Circuit Breaker (OL Seperate)
- Type of Motor: IE2/IE3/IE4
- Iq Current: 50kA
- Ue: 415 V, 50 Hz

Standard power ratings of 3-phase motors	Circuit-breaker		Contactor	Thermal Overload relay		
	FLC	Reference	Reference	Reference	Setting Range	
P (kW)	Ie (A)	Rating (A)				
0.06	0.2	GV2 L03 or LE03	0.4	LC1 D09	LRD 02	0.16...0.25
0.09	0.3	GV2 L03 or LE03	0.4	LC1 D09	LRD 03	0.25...0.40
0.12	0.44	GV2 L04 or LE04	0.63	LC1 D09	LRD 04	0.4...0.63
0.18	0.6	GV2 L04 or LE04	0.63	LC1 D09	LRD 04	0.4...0.63
0.25	0.85	GV2 L05 or LE05	1	LC1 D09	LRD 05	0.63...1
0.37	1.1	GV2 L05 or LE05	1	LC1 D09	LRD 05	0.63...1
0.55	1.5	GV2 L06 or LE06	1.6	LC1 D09	LRD 06	1...1.7
0.75	1.9	GV2 L07 or LE07	2.5	LC1 D09	LRD 07	1.6...2.5
1.1	2.7	GV2 L08 or LE08	4	LC1 D09	LRD 08	2.5...4
1.5	3.6	GV2 L08 or LE08	4	LC1 D09	LRD 08	2.5...4
2.2	4.9	GV2 L10 or LE10	6.3	LC1 D09	LRD 10	4...6
3	6.5	GV2 L14 or LE14	10	LC1 D09	LRD 12	5.5...8
4	8.5	GV2 L14 or LE14	10	LC1 D09	LRD 14	7...10
5.5	11.5	GV2 L16	14	LC1 D25	LRD 16	9...13
7.5	15.5	GV2 L20	18	LC1 D25	LRD 21	12...18
9	18.1	GV2 L22	25	LC1 D25	LRD 22	16...24
11	22	GV2 L22	25	LC1 D25	LRD 22	16...24
15	29	GV3 L32	32	LC1 D40A	LRD 332	23...32
18.5	35	GV3 L40	40	LC1 D50A	LRD 340	30...40
22	41	GV3 L50	50	LC1 D50A	LRD 350	37...50
30	55	GV3 L65	65	LC1 D65A	LRD 365	48...65
37	66	GV4L80N 	80	LC1 D80	LRD 3363	63...80
45	80	GV4L115N 	115	LC1 D115	LR9 D5367	60...100
55	97	GV4L115N 	115	LC1 D115	LR9 D5369	90...150
75	132	NSX160*MA (2)	150	LC1 D150	LR9 D5369	90...150
90	160	NSX250*MA (2)	220	LC1 F185	LR9 F5371	132...220
110	195	NSX250*MA (2)	220	LC1 F225	LR9 F5371	132...220
132	230	NSX400* + Mic 1.3M (2)	320	LC1 F265	LR9 F7375	200...330
160	280	NSX400* + Mic 1.3M (2)	320	LC1 F330	LR9 F7375	200...330
200	350	NSX630* + Mic 1.3M (2)	500	LC1 F400	LR9 F7379	300...500
220	388	NSX630* + Mic 1.3M (2)	500	LC1 F500	LR9 F7379	300...500
250	430	NSX630* + Mic 1.3M (2)	500	LC1 F500	LR9 F7379	300...500

(1) For reversing operation, replace the prefix LC1 with LC2.

(2) Reference to be completed by replacing the * with the breaking performance code:

Breaking performance (Iq)	NSX100*MA	NSX160*MA, NSX250*MA	NSX400* NSX630*
400/415 V	50	50	50
Code	N	N	N

Note:

The Type-2 coordination tables are based on internal testing conducted by Schneider Electric.

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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 18, 2019

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- Invoice Amount = (MRP – less Applicable discount) + Applicable GST %

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