Life Is On | Schneider Electric

PriceList

Atithi Enterprises

Switching and Controlling Products

With effect from January 30th, 2023

Atithi Enterprises®

Life Is On | Schneider Electric

Authorized Partner

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Price List

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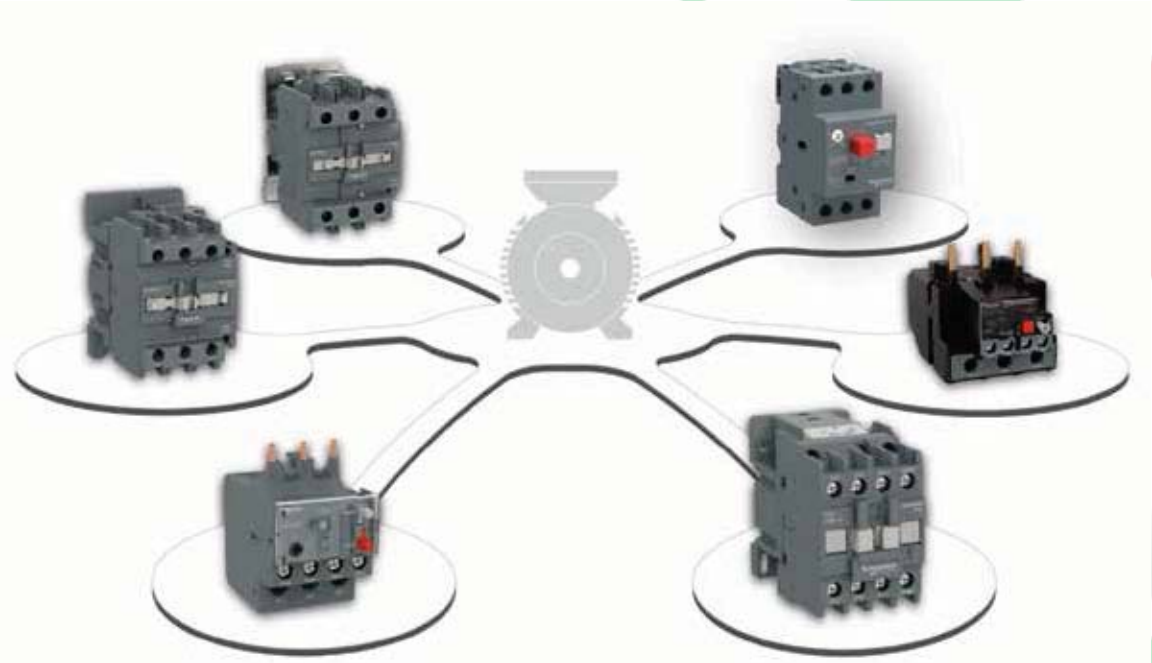
EasyPact TVS

The Easy choice for simplicity and flexibility

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

A2L certified upto 50A for HVAC applications



EasyPact TVS Catalogue

Designed for the Essential

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

Power Contactors - ETVS (3 Pole AC Control)

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

Frame	[Ie] Rated Operational Current		Motor Power at 415V, 3Ph, 50Hz		Auxiliary Contacts		Reference	Unit MRP [₹]
	AC-1	AC-3	HP	kW	NO	NC		
FRAME-1	20	6	3	2.2	-	1	LC1E0601* ☑	1260
					1	-	LC1E0610* ☑	
	25	9	5.5	4	-	1	LC1E0901* ☑	1295
					1	-	LC1E0910* ☑	
	25	12	7.5	5.5	-	1	LC1E1201* ☑	1475
					1	-	LC1E1210* ☑	
	32	18	12	9	-	1	LC1E1801* ☑	1700
					1	-	LC1E1810* ☑	
	36	25	15	11	-	1	LC1E2501* ☑	2320
					1	-	LC1E2510* ☑	
FRAME-2	50	32	20	15	-	1	LC1E3201* ☑	4860
					1	-	LC1E3210* ☑	
	50	38	25	18.5	-	1	LC1E3801* ☑	5745
					1	-	LC1E3810* ☑	
	50	40	29	22	-	1	LC1E40B01**	6125
					1	-	LC1E40B10**	
FRAME-3	60	40	29	22	1	1	LC1E40* ☑	7610
	70	50	34	25/30	1	1	LC1E50*	9255
	80	65	50	37	1	1	LC1E65* ☑	12540

Frame	[Ie] Rated Operational Current		Motor Power at 415V, 3Ph, 50Hz		Auxiliary Contacts		Reference	Unit MRP [₹]
	AC-1	AC-3	HP	kW	NO	NC		
FRAME-4	110	80	60	45	1	1	LC1E80* ☑	16305
	120	95	60	45	1	1	LC1E95* ☑	19545
FRAME-5	150	120	75	55	1	1	LC1E120*	23285
	200	160	120	90	1	1	LC1E160*	30745
FRAME-6	250	200	150	110	-	-	LC1E200*	42315
	300	250	175	132	-	-	LC1E250*	55765
FRAME-7	320	300	215	160	-	-	LC1E300*	68650
	500	400	295	220	-	-	LC1E400*	85675
FRAME-8	700	500	375	280	-	-	LC1E500*	120675
FRAME-9	1000	630	500	375	-	-	LC1E630*	169755

* Prices indicated above are for standard coil voltage rating, for non-standard coil rating please check the prices with Customer Care

Spare Coil for Contactors

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

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

Coil Voltage Code

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

Please check with customer care for price and availability of non standard voltages (Except 110 and 220 V AC)

** 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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W.E.F. January 30th, 2023

Power Contactors - ETVS (4 Pole AC Control)

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

Frame	AC-1 Rating	Power Poles	Reference	Unit MRP [₹]	Power Poles	Reference	Unit MRP [₹]
FRAME-1	20	4NO	LC1E06004*IN	1615	2NO + 2NC	LC1E06008*IN	1930
	25	4NO	LC1E09004*IN	1715	2NO + 2NC	LC1E09008*IN	2080
	32	4NO	LC1E12004*IN	1785	2NO + 2NC	LC1E12008*IN	2225
	40	4NO	LC1E18004*IN	2225	2NO + 2NC	LC1E18008*IN	2240
FRAME-2	50	4NO	LC1E25004*IN	2820	2NO + 2NC	LC1E25008*IN	4005
	55	4NO	LC1E32004*IN	4755	2NO + 2NC	LC1E32008*IN	7545
	60	4NO	LC1E38004*IN	5565	2NO + 2NC	LC1E38008*IN	7870
FRAME-3	75	4NO	LC1E40004*IN	8675	2NO + 2NC	LC1E40008*IN	11660
	85	4NO	LC1E65004*IN	11735	2NO + 2NC	LC1E65008*IN	14575

Frame	AC-1 Rating	Power Poles	Reference	Unit MRP [₹]	Power Poles	Reference	Unit MRP [₹]
FRAME-4	110	4NO	LC1E80004*IN	14865	2NO + 2NC	LC1E80008*IN	20695
	125	4NO	LC1E95004*	16760			

* Prices indicated above are for standard coil voltage rating, for non-standard coil rating please check the prices with Customer Care

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

Auxiliary Contacts NO	Auxiliary Contacts NC	Reference	Unit MRP [₹]
4	0	CAE40*	1360
3	1	CAE31*	
2	2	CAE22*	

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

Prices indicated above are for standard coil voltage rating, for non-standard coil rating please check the prices with Customer Care

Spare Coil for Contactors

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

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

Coil Voltage Code

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

Note:
For non standard voltages (Except 110 and 220 V AC) please consult Customer Care for prices
* Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

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

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Accessories - For ETVS Contactors

Description	For Use with	Mounting	Contacts	Reference	Unit MRP [₹]
Auxiliary contact block	LC1E06..E630 & LC1E0600..E9500	FRONT	1NO+1NC	LAEN11 ☑	400
			2NO	LAEN20 ☑	
			2NC	LAEN02 ☑	475
			2NO+2NC	LAEN22 ☑	730
			4NO	LAEN40 ☑	
Star delta timer	LC1E25..E630			LAETSD ☑	3310

For 415v control supply please contact customer care team

Description	For Use with	Coil Voltage	Reference	Unit MRP [₹]
Surge suppressor*	LC1E06...E95	24..48V AC	LAERCE	2190
	LC1E06...E95	110..240V AC	LAERCU	930

*For higher rating contactors, contact nearest sales office

Description	For Use with	Reference	Unit MRP [₹]
Mechanical Interlock	LC1E06..E65 & LC1E0600*..E3800*	LAEM1	830
	LC1E80/E95 & LC1E4000*...LC1E9500*	LAEM4	2700
	LC1E120..E160	LAEM5	5035
	LC1E200/E250	LAEM6	5130

*Reference to be completed by adding coil voltage

3 Pole Accessories Compatibility

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

4 Pole Accessories Compatibility

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

Control Relay Accessories Compatibility

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

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

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Thermal Overload Relay - ETVS

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

Thermal Protection Adjustment Range	For Use with Contactor	Reference	Unit MRP [₹]
LRE			
0.25...0.4	E06...E38	LRE03	2155
0.4...0.63	E06...E38	LRE04	
0.63...1	E06...E38	LRE05 ☑	
1...1.6	E06...E38	LRE06 ☑	
1.6...2.5	E06...E38	LRE07 ☑	
2.5...4	E06...E38	LRE08 ☑	
4...6	E06...E38	LRE10 ☑	
5.5...8	E09...E38	LRE12 ☑	
7...10	E09...E38	LRE14 ☑	
9...13	E12...E38	LRE16 ☑	
12...18	E18...E38	LRE21 ☑	2385
16...24	E25...E38	LRE22 ☑	2760
23...32	E25...E38	LRE32 ☑	3690
30...38	E38	LRE35 ☑	4155
17...25	E40...E95	LRE322	4690
23...32	E40...E95	LRE353	
30...40	E40...E95	LRE355	
37...50	E50...E95	LRE357 ☑	
48...65	E65...E95	LRE359	6150

Thermal Protection Adjustment Range	For Use with Contactor	Reference	Unit MRP [₹]
LRE			
55...70	E80...E95	LRE361	7290
63...80	E80...E95	LRE363	7610
80...104	E95	LRE365	
51...81	E120...E300	LRE480	14250
62...99	E120...E300	LRE481	
84...135	E120...E300	LRE482	
124...198	E160...E300	LRE483	
146...234	E200...E300	LRE484	
174...279	E250...E300	LRE485	
208...333	E300	LRE486	15530
258…414	E300…E400	LRE487	18890

Accessories for Relay

Accessory	For Relay	Reference	Unit MRP [₹]
Separate Mounting Block	LRE01…LRE35	LAEB1	750
	LRE322…LRE365	LAEB3	1725

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

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W.E.F. January 30th, 2023

Circuit Breaker for Motor Protection - GZ1E - Pushbutton control

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

Motor Protection Circuit Breaker - ETVS

Breaking Capacity at 415 V 50 Hz	Motor Power AC3**		Thermal Protection Adjustment Range (A)	Reference	Unit MRP [₹]
	kW	hP			
GZ1-E Thermal Magnetic - With Pushbutton Control					
100 kA	-	-	0.1 - 0.16	GZ1E01	3915
	0.06	-	0.16 - 0.25	GZ1E02	
	0.09	-	0.25 - 0.40	GZ1E03	
	0.18	-	0.40 - 0.63	GZ1E04	4560
	0.37	0.5	0.63 – 1.0	GZ1E05	
	0.55	0.75	1.0 – 1.6	GZ1E06	4465
	0.75	1	1.6 – 2.5	GZ1E07	
	1.1	2	2.5 – 4	GZ1E08	4640
	2.2	3	4 – 6.3	GZ1E10	
	3	5.5	6 – 10	GZ1E14	4945
10 kA*	5.5	7.5	9 – 14	GZ1E16	5575
	7.5	10	13 – 18	GZ1E20	6060
	9	12.5	17 – 23	GZ1E21	6390
	11	15	20 – 25	GZ1E22	6710
	15	20	24 – 32	GZ1E32	11975

Breaking Capacity at 415 V 50 Hz	Motor Power AC3**		Magnetic Protection (A)	Reference	Unit MRP [₹]
	kW	hP			
GZ1-LE Magnetic- With Pushbutton Control					
100 kA	0.09	-	0.4	GZ1LE03	2860
	0.18	-	0.63	GZ1LE04	
	0.37	0.5	1	GZ1LE05	
	0.55	0.75	1.6	GZ1LE06	
	0.75	1	2.5	GZ1LE07	
	1.1	2	4	GZ1LE08	
	2.2	3	6.3	GZ1LE10	
	3	5.5	10	GZ1LE14	
10 kA*	5.5	7.5	14	GZ1LE16	3090
	7.5	10	18	GZ1LE20	
	11	15	25	GZ1LE22	
	15	20	32	GZ1LE32	3665

* 50kA With current Limiter type GV1L3

Accessories - ETVS Circuit Breaker for Motor Protection

Description	Mounting	Contacts	Reference	Unit MRP [₹]
Auxillary Contact Block	LH side Mounted	1NO+1NC	GZ1AN11	730
		2NO	GZ1AN20	950

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

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Green Premium™

An industry leading portfolio of offers delivering sustainable value

Green Premium™

More than 75% of our product sales offer superior transparency on the material content, regulatory information and environmental impact of our products:

- RoHS compliance
- REACh substance information
- Industry leading # of PEP's*
- Circularity instructions

Discover what we mean by green
Check your products!

The Green Premium program stands for our commitment to deliver customer valued sustainable performance. It has been upgraded with recognized environmental claims and extended to cover all offers including Products, Services and Solutions.

CO2 and P&L impact through… Resource Performance

Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO_2 emissions.

Cost of ownership optimization through… Circular Performance

We're helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

Peace of mind through… Well-being Performance

Green Premium products are RoHS and REACh compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

Improved sales through… Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.

TeSys

> Control > Protect > Power > Active

Innovative and connected solutions for motor starters

TeSys is an innovative motor control and management solution from the global market leader. TeSys offers connected, efficient products and solutions for switching and protection of motors and electrical loads in compliance with all major global electrical standards

TeSys Function Names

TeSys components are grouped by function name, for easier identification.
These functions are related to motor, power, control and protection.

> **TeSys** Power:
Components for powering motors

> **TeSys** Control:
Components for controlling motors

> **TeSys** Protect:
Components for protecting motors

> **TeSys** Active:
Connected components for motor circuits

Start smart. Run smart. With TeSys motor controls.

Stay smart with the world's best-selling motor control solutions from the inventor of the world's first contactor - Schneider Electric™.

For almost a century, TeSys motor controls have driven the industry with innovations in motor protection, monitoring, and control.

It started with the introduction of the industry's first BAR contactor in 1924, and today, the legacy of innovation is built into every TeSys motor control device.

Best-in-class safety and reliability, plug-and-play architecture, and flexible functionality mean TeSys motor control solutions can meet your requirements across a wide range of applications, from the most common to the most advanced.

Wherever you are and anywhere your projects come together, you can trust Schneider Electric and TeSys contactors, circuit breakers, relays, and switches for unmatched reliability, complete compatibility with international standards, and the robust support of the Schneider Electric global supply network.

Start smart, run smart and stay smart with TeSys motor controls.

1st BAR Contactor — 1924

1st Enclosed Motor Starter — 1935

1st Modular Contactor — 1973

TeSys D Contactor — 2000

1st Modular 3 in 1 Motor Starter — 2004

GV3 MSP with EverLink — 2008

TeSys D Green — 2016

TeSys Island — 2019

TeSys Giga — 2021

TeSys Deca — 2021

How do everlinks improve power connection reliability?

For more information on switching and motor management scan!

Superior safety for all industries

TeSys motor controls come with all of the isolation, protection and emergency handling you need to comply with international codes. High-contrast covers identify safety-critical devices to prevent inadvertent manual operation. Every **TeSys** contactor is both mechanically linked and equipped with mirror contacts for safety applications and wherever auxiliary contact state reliability is critical.

HVAC

Ensure 24/7 availability of your HVAC system with reliable products that can reach high ambient temperatures without derating.

Conveying

Decentralize the control cabinet of your conveyor line and benefit from up to 80% space reduction.

Genset

Make certain your generator starts even in the harshest conditions with our robust solutions.

Pumping

Optimize single or multi-drive boosters for industry or infrastructure with energy and cost-effective solutions.

Packaging

Keep pace with the most demanding, high-end packing applications with our solutions

Oil and Gas

Keep your employees and assets safe and improve uptime in onshore and offshore applications: pipeline operations: LNG and natural gas processing: and refining and petrochemical applications.

Water and Wastewater

Optimize the treatment and delivery of safer water by reducing energy usage and lowering operating costs.

Food and Beverage

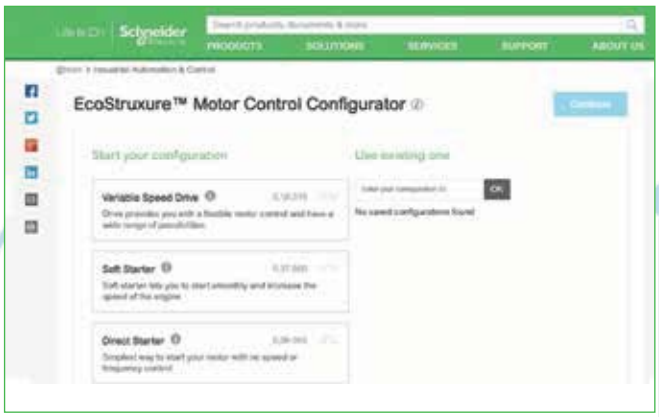
Serve your customers with environmentally friendly products to improve sustainability, efficiency, and flexibility, allowing you to adapt to changing customer habits.

Online selection tool

EcoStruxure™ Motor Control Configurator

For Direct-On-Line and Star-Delta starters, motor circuit breakers with advanced protection, motor management relays, configurations for total coordination, drives, and soft starters.

No matter what kind of starting method you need, our online **EcoStruxure™ Motor Control Starter Configurator** will help you to quickly and easily select the optimal combination of components to ensure maximized motor safety, protection, and uptime.



Scan or click on the QR code

TeSys Component Series Names

Series names are now grouped as per the current ratings

- Series names group conventional components (circuit breakers, contactors, relays, overcurrent relays) by current rating ranges.
  - 0 to 16 A > **TeSys K** Series
  - 9 to 150 A > **TeSys 'Deca'** Series
  - 185 to 800 A > **TeSys 'Giga'** Series.

- TeSys advanced components have a specific classification.
  - 0 to 38 A All-in-one starters > **TeSys 'Ultra'** Series
  - 0 to 80 A Motor Control/Protection/Monitoring system > **TeSys 'island'** Series.

- Other TeSys component names remain unchanged (TeSys F, TeSys B, TeSys T).

TeSys K Series

The essential line for motors up to 7.5kW/16A direct on TeSys K series of Motor Starters

TeSys Deca Series

The industrial standard for motors up to 75kW/150A direct on TeSys Deca series of Motor Starters

TeSys Giga Series

For large motors up to 450kW/800A direct on TeSys Giga Series

TeSys Ultra Series

The most compact totally coordinated solution for Motor Starters. For Direct On Line or Reversing Motor Control and Drive Protection upto 18.5kW/38 A on TeSys Ultra series

TeSys Island Series

Digitally powered monitoring, control and protection of electrical motors up to 37kW/80 A on TeSys Island Series

Control Relays - K Model (AC & DC Control)

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

No of Poles	AC Control Reference	Unit MRP [₹]	DC Control Reference (4)	Unit MRP [₹]	DC low consumption Reference (1) (2) (3)	Unit MRP [₹]
2NO + 2NC	CA2KN22*	1700	CA3KN22**	2345	CA4KN22***	2905
3NO + 1NC	CA2KN31*		CA3KN31**		CA4KN31***	
4NO	CA2KN40*				CA4KN40***	

(1) Compatible with PLC outputs
(2) Wide range coil (0.7...1.25Uc), suppressor fitted as standard
(3) 2 pole auxiliary contact block can be mounted additionally
(4) Optional in-built surge supressor available

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

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

[Ie] Rated Operational Current (A)	Motor Power (kW)	Auxiliary Contacts	AC Control Reference	Unit MRP [₹]	DC Control Reference(5)	Unit MRP [₹]
6	3	1NC	LC1K0601*	1430	LP1K0601**	2210
		1NO	LC1K0610*		LP1K0610**	
9	5.5	1NC	LC1K0901*	1495	LP1K0901**	2405
		1NO	LC1K0910*		LP1K0910**	
12	7.5	1NC	LC1K1201*	1690	LP1K1201**	2790
		1NO	LC1K1210*		LP1K1210**	
16	10	1NC	LC1K1601*	1995	-	-
		1NO	LC1K1610*		-	-

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

Reversing Contactors - K Model

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

[Ie] Rated Operational Current (A)	Motor Power (kW)	Auxiliary Contacts	AC Control Reference	Unit MRP [₹]
6	3	1NC	LC2K0601*	4755
		1NO	LC2K0610*	
9	5.5	1NC	LC2K0901*	5075
		1NO	LC2K0910*	
12	7.5	1NC	LC2K1201*	5230
		1NO	LC2K1210*	
16	10	1NC	LC2K1601*	7030
		1NO	LC2K1610*	

* Reference to be completed by adding coil voltage code
(6) For current rating and ref please contact Customer Care

Coil Voltage Code

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

Note: (1) For Non standard coil voltage (Except 110, 240 V AC and 24 V DC) prices please contact customer care.
(2) Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team rating.

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

☑ NORMAL STOCK ITEMS

W.E.F. January 30th, 2023

Accessories - K Model

Description	Mounting	Contacts	Reference	Unit MRP [₹]
Auxiliary contact block	Front	2NC	LA1KN02	770
		1NO + 1NC	LA1KN11 ☑	705
		2NO	LA1KN20	770
		4NC	LA1KN04	1190
		1NO + 3NC	LA1KN13	
		2NO + 2NC	LA1KN22 ☑	
		3NO + 1NC	LA1KN31	
		4NO	LA1KN40	

Description	Control Voltage	Range	Reference	Unit MRP [₹]
On Delay Electronic Timer	24..48V AC/DC	1..30S	LA2KT2E(1)	3890
	110..240V AC	1..30S	LA2KT2UA(1)	

Description	Coil Voltage	Reference	Unit MRP [₹]
Surge Suppressor - RC Ciruit	220..250V AC	LA4KA1U*	1215
Surge Suppressor - Varistor	130..250V AC/DC	LA4KE1UG*	
Surge Suppressor - Varistor	50..129V AC/DC	LA4KE1FC*	

* Lot size 5
(1) Front mounted with common point changeover contact

Hi Enterp

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 30th, 2023

TeSys Control
TeSys Deca

The next-generation TeSys Deca series motor starters offer a reliable and robust solution for a faster machine time-to-market. It has a new modern look & feel and is designed to meet the requirements of Electro domestic applications. Ease of operation and reliability is guaranteed with the new multi-standard screws. Digital customer experience is enhanced with a QR embedded from product to packaging.

TeSys Deca Control Contactors (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*	1810	CAD32**	2590	CAD32***	3240
5NO	CAD50*		CAD50**		CAD50***	

(1) Compatible with PLC outputs
(2) Wide range coil (0.7...1.25Uc), suppressor fitted as standard
(3) 2 pole auxiliary block can be mounted

TeSys Deca Power Contactors (3P AC & DC)

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

[Ie] Rated Operational Current AC-1	AC-3 Duty kW	HP	A	Auxiliary Contacts	AC Control Reference	Unit MRP [₹]	DC Control Reference(1)	Unit MRP [₹]
25	4	5.5	9	1NO + 1NC	LC1D09* ☑	1815	LC1D09** ☑	2865
	5.5	7.5	12	1NO + 1NC	LC1D12* ☑	2040	LC1D12** ☑	3225
32	9	12.5	18	1NO + 1NC	LC1D18* ☑	2370	LC1D18** ☑	3970
40	11	15	25	1NO + 1NC	LC1D25* ☑	2930	LC1D25** ☑	5020
50	15	20	32	1NO + 1NC	LC1D32* ☑	5700	LC1D32** ☑	10235
	18.5	25	38	1NO + 1NC	LC1D38* ☑	8220	LC1D38** ☑	12095
60	22	30	40	1NO + 1NC	LC1D40A* ☑	8625	LC1D40A#	14490
80	25	35	50	1NO + 1NC	LC1D50A* ☑	11240	LC1D50A#	18180
80	37	50	65	1NO + 1NC	LC1D65A* ☑	15595	LC1D65A#	20615
80	37	50	80	1NO + 1NC	LC1D80A* ☑	19490	LC1D80A#	25025
125	45	60	80	1NO + 1NC	LC1D80* ☑	23585	LC1D80**	28000
	45	60	95	1NO + 1NC	LC1D95*	25100	LC1D95**	30685
250	59	80	115	1NO + 1NC	LC1D115*	30890	LC1D115**	36265
	80	110	150	1NO + 1NC	LC1D150* ☑	38615	LC1D150**	43520

* Prices indicated above are for standard coil voltage rating, for non-standard coil rating please check the prices with Customer Care

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 30th, 2023

TeSys Control
TeSys Deca

TeSys Deca Power Contactors (3 Pole DC Low Consumption)

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

[Ie] Rated Operational Current AC-1	Motor Power AC-3 kW	HP	A	Auxiliary Contacts	Reference	Unit MRP [₹]
25	4	5.5	9	1NO + 1NC	LC1D09**** ☑	3145
	5.5	7.5	12	1NO + 1NC	LC1D12**** ☑	3520
32	9	12.5	18	1NO + 1NC	LC1D18**** ☑	5380
40	11	15	25	1NO + 1NC	LC1D25**** ☑	6555
50	15	20	32	1NO + 1NC	LC1D32**** ☑	11210
[Ie] Rated Operational Current AC-1	Motor Power AC-3 kW	HP	A	Auxiliary Contacts	Reference	Unit MRP [₹]
60	22	30	40	1NO + 1NC	LC1D40A#	14490
80	25	35	50	1NO + 1NC	LC1D50A#	18180
80	37	50	65	1NO + 1NC	LC1D65A#	20615
80	37	50	80	1NO + 1NC	LC1D80A#	25025

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

TeSys Deca Power Contactors (4 Pole AC & DC Control)

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

[Ie] Rated Operational Current AC-1	Poles Composotion	AC Control Reference	Unit MRP [₹]	DC Control Reference	Unit MRP [₹]
20	4NO	-	-	LC1DT20**	3450
	2NO + 2NC	-	-	LC1D098**	3755
25	4NO	-	-	LC1DT25**	4140
	2NO + 2NC	-	-	LC1D128**	5405
32	4NO	-	-	LC1DT32**	4550
	2NO + 2NC	-	-	LC1D188**	6155
40	4NO	-	-	LC1DT40**	7135
	2NO + 2NC	-	-	LC1D258**	9405
60	4NO	-	-	LC1DT60A#	14280
	2NO + 2NC	-	-	LP1D40008**	18765
[Ie] Rated Operational Current AC-1	Poles Composotion	AC Control Reference	Unit MRP [₹]	DC Control Reference	Unit MRP [₹]
80	4NO	-	-	LC1DT80A#	21300
	2NO + 2NC	-	-	LP1D65008**	25225
125	4NO	-	-	LP1D80004**	27325
	2NO + 2NC	-	-	LP1D80008**	31530
250	4NO	LC1D1150046*	34440	LC1D1150046**	38260

* Prices indicated above are for standard coil voltage rating, for non-standard coil rating please check the prices with Customer Care

Coil Voltage Code

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

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

Note: Please contact Customer Care for 4 Pole AC coil contactor details
For Non standard coil voltage prices please contact customer care
(1) For current rating and ref please contact Customer Care
(2) Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team

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

☑ NORMAL STOCK ITEMS

W.E.F. January 30th, 2023

TeSys Deca Green
The Revolutionary Electronic Coil Contactor

Complete range in 3 frame sizes:
09-12-18A
25-32-38A
40-50-65-80A

-80%
Up to 80% less energy consumption than a traditional electromechanical motor starter

10X Reduction in references
Only 3 references to cover the complete voltage range for AC and DC

→← -35%
Highest currents in smallest size, e.g.

PLC Compatible
Direct connection to a PLC without the need for an interposing relay

SEMIF47
High uptime thanks to wide band coil with high resistance to voltage surges/SEMIF47 conform

Scan to see TeSys Deca Green under voltage performance.

TeSys Deca Green Contactor (3 Pole AC/DC Universal Coil)

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

The Revolutionary Electronic Coil Contactor

[Ie] Rated Operational Current AC-1	AC-3 Duty (Long Life)			Auxiliary Contacts	Reference	Unit MRP [₹]
	kW	HP	A			
25	4	5.5	9	1NO + 1NC	LC1D09*	3735
	5.5	7.5	12	1NO + 1NC	LC1D12*	3870
32	9	12.5	18	1NO + 1NC	LC1D18*	5110
40	11	15	25	1NO + 1NC	LC1D25*	6100
50	15	20	32	1NO + 1NC	LC1D32*	12395
	18.5	25	38	1NO + 1NC	LC1D38*	13375
60	22	30	40	1NO + 1NC	LC1D40A*	14490
80	25	35	50	1NO + 1NC	LC1D50A*	18180
80	37	50	65	1NO + 1NC	LC1D65A*	20615

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

[Ie] Rated Operational Current AC-1	Poles Composotion	Auxiliary Contacts	DC Control Reference	Unit MRP [₹]
60	4NO	1NO + 1NC	LC1DT60A*	14280
80	4NO	1NO + 1NC	LC1DT80A*	21300

Coil Voltage Code

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

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

Check the features of the TeSys Deca 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 30th, 2023

Description	For use with	Reference	Unit MRP [₹]
Power connection accessories			
Terminal block	For supply to one or more GV2 G busbar sets	GV1G09	2235
Set of 63A busbars for parallelling of contactors	2 contactors LC1D09…D18 or D25…D38	GV2G245	2165
	4 contactors LC1D09…D18 or D25…D38	GV2G445	3405
Set of 115A busbars for parallelling of contactors	2 contactors LC1D40A…D80A	GV3G264	3890
	3 contactors LC1D40A…D80A	GV3G364(1)	2080
Set of S-shape busbars	For circuit breakers GV3P** & GV3L** and contactors LC1 D40A…D65A	GV3S	1555

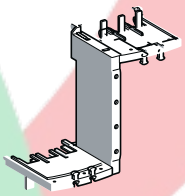
**Not applicable for GV3P/GV3L 73A and 80A

GV2G245

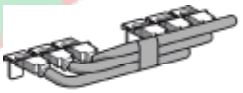
GV1G09

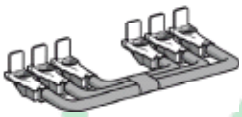
Description	For use with	Reference	Unit MRP [₹]
Mechanical interlock	LC1D09 to D38(1)	LAD9V2	795
	LC1D40A to D65A(1)	LAD4CM	1620
	LC1D80 and D95 (for AC control voltage)	LA9D4002	3545
	LC1D80 and D95 (for DC control voltage)(2)	LA9D8002	5280
	LC1D115 and D150(2)	LA9D11502	5355

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

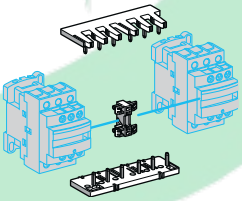

GV3S

Description	For use with	Reference	Unit MRP [₹]
Power Connection for Reversing			
Kit Comprising : 1. A set of parallel bars 2. A set of reverser bars.	LC1D09 to D38	LAD9V5	660
		LAD9V6	825
	LC1D40A to D80A	LA9D65A69	3445
	LC1D80 and D95 (for AC control voltage)	LA9D8069	7370
	LC1D80 and D95 (for DC control voltage)	LA9D8069	7370
	LC1D115 and D150	LA9D11569	12260

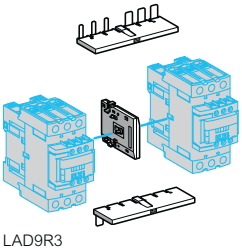



LA9 D8069

Description	For use with	Reference	Unit MRP [₹]
Reversing Kit			
Kit Comprising : 1. A mechanical interlock LAD 9V2 with electrical interlocking LAD 9V1 2. A set of power connections LAD 9V5 (parallel) and LAD 9V6 (reversing).	LC1D09 to D38	LAD9R1V	1655
Kit Comprising : 1. A mechanical interlock LAD 9V2 without electrical interlocking 2. A set of power connections LAD 9V5 (parallel) and LAD 9V6 (reversing).	LC1D09 to D38	LAD9R1	1640
Kit Comprising : 1. A mechanical interlock LAD 4CM 2. A set of power connections LA9 D65A69.	LC1D40A to D80A	LAD9R3	3930


LAD9R1

Description	For use with	Reference	Unit MRP [₹]
Star Delta Kit			
Time delay contact block LAD S2 (LC1D09…D80), Power circuit connections (LC1D09…D80), Hardware required for fixing the contactors onto the mounting plate (LC1D80)	LC1D09 and D12	LAD91217	6215
	LC1D18 to D32	LAD93217	7995
	LC1D40A and D50A	LAD9SD3	16155
	LC1D80	LA9D8017	17940


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

W.E.F. January 30th, 2023

Description	Time Delay Range	Timer Type	Reference	Unit MRP [₹]
On delay timer(1) (2)	15...30 s	on delay	LA4DT2U	5965
On delay timer(1) (2)	0.1...2 s	on delay	LA4DT0U	
On delay timer(1) (2)	25...500 s	on delay	LA4DT4U	6685
Relay interface module - 24V DC(1) (2)	-	-	LA4DFB	5495

(1) For LC1 D09...38A (3P, AC coils only) add mounting adaptor LAD4BB and for LC1 D40A...65A (3P, AC coils only), add mounting adaptor LAD4BB3.
(2) For LC1D80...150 (3P), direct mounting, for 100-250V AC Coils only.

Description	For use with	Reference	Unit MRP [₹]
TeSys Deca Model Mechanical Latch Blocks			
Front, Clip-on	LC1D09...D38 (a or c) LC1DT20...DT40 (a or c) LC1D40A...D65A (3P a or c) LC1DT60A and DT80A (4P a or c)	LAD6K10*	7170
	LC1D80...D150 (3P a) LC1D80 and D115 (3 P c) LC1D80 (4 P a) LC1D80 and D115 (4 P a) LP1D80 and LC1D115 (4 P c)	LA6DK20*	7485

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

Coil Voltage Code

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

Spare Coils TeSys Deca Model

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

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

Coil Voltage Code

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

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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 30th, 2023

Accessories

Description	For use With	Contacts		Reference	Unit MRP [₹]
Add On Blocks					
Additional instantaneous auxiliarycontact blocks	LC1D09 ...LC1D150 & LC1F*	Front Mounted	1NO + 1NC	LADN11	535
			2NO	LADN20 ☑	
			2NC	LADN02	845
			2NO + 2NC	LADN22 ☑	965
			4NC	LADN04	1400
			4NO	LADN40 ☑	965
			1NO + 3NC	LADN13	
			3NO + 1NC	LADN31 ☑	
	LC1D80..LC1D95 & LC1F	Front Mounted	1NO	LADN10	470
			1NC	LADN01	

Description		Contacts		Reference	Unit MRP [₹]
Add On Blocks					
Additional instantaneous auxiliary contact blocks	Side Mounted (1)	1NO + 1NC		LAD8N11	2020
		2NO		LAD8N20	
Pneumatic timer blocks front mounted	ON delay	1NO + 1NC	0.1..3s	LADT0	3845
		1NO + 1NC	0.1..30s	LADT2	
		1NO + 1NC	10..180s	LADT4	
		1NO + 1NC	1..30s (2)	LADS2 ☑	4105
	OFF delay	1NO + 1NC	0.1 ..3s	LADR0	3845
		1NO + 1NC	0.1 ..30s	LADR2 ☑	
		1NO + 1NC	10..180s	LADR4	

(1) Suitable for mounting on TeSys Deca 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
					Front mounted			
Type	Number of Poles and Size		Side mounted		1 contact	2 contact	4 contacts	
AC & AC/DC	3P	LC1D09…D38	1 on LH side	and	-	1	or 1	or 1
		LC1D40A…D80A	1 on LH or 1 on RH side	and	-	1	or 1	or 1
		LC1D80 and D95A (50/60 Hz)	1 on each side	or	2	and 1	or 1	or 1
		LC1D80 and D95A (50 or 60 Hz)	1 on each side	and	2	and 2	or 1	or 1
		LC1D115 and D150	1 on LH side	and	-	1	or 1	or 1
	4P	LC1DT20…DT40	1 on LH side	and	-	1	or 1	or 1
		LC1DT60A and DT80A	1 on LH or 1 on RH side	and	-	1	or 1	or 1
		LC1D40008, D65008 and D80	1 on each side	or	1	or 1	or 1	or 1
		LC1D115	1 on each side	and	1	or 1	or 1	or 1
DC	3P	LC1D09…D38	–		-	1	or 1	or 1
		LC1D40A…D80A	–		-	1	or 1	or 1
		LC1D80 and D95	–		1	or 1	or 1	or 1
		LC1D115 and D150	1 on LH side	and	-	1	or 1	or 1
	4P	LC1DT20…DT40	–		-	1	or 1	or 1
		LC1DT60A and DT80A	–		-	1	or 1	or 1
		LC1D40008, D65008 and D80	–		2	and 1	or 1	or 1
		LC1D115	1 on each side		-	and 1	or 1	or 1
LC (3)	3P	LC1D09…D38	–		-	1	-	–
	3P	LC1DT20…DT40	–		-	1	-	–

(3) LC : Low consumption

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

☑ NORMAL STOCK ITEMS

W.E.F. January 30th, 2023

Accessories

Description	For use with	Reference	Unit MRP [₹]
For Contactor D115/150			
Contacts set - 3P	LC1D115	LA5D1158031	23480
Contacts set - 3P	LC1D150	LA5D150803	24340
Contacts set - 4P	LC1D1150046	LA5D115804	32365

Product Compatibility	Fixing	Control Circuit Voltage	Suppressor Type	Reference	Unit MRP [₹]
Coil Suppressor Modules					
LC1D12...D25 (4P)	Screw	110...240V AC	RC Circuit AC	LA4DA1U	1840
LC1D12...D25 (4P)		12...250V DC	Diode DC	LA4DC1U	2060
LC1D09...D38, LC2D09...D38, LC1DT20...DT40, LC2DT20...DT40 (3P)		24...48V AC	Varistor AC/DC	LAD4VE	1785
		24...48V AC 400Hz	RC Circuit AC	LAD4RCE	
		50...127V AC 200Hz	RC Circuit AC	LAD4RCG	1615
CAD		110...240V AC 100Hz	RC Circuit AC	LAD4RCU ☑	1785
		110....250V AC	Varistor AC/DC	LAD4VU	
LC1D80, LC1D95, LC2D80, LC2D95 (3P) LC2D80 (4P), LC1D40008, LC1D65008		24...250V DC	Diode DC	LA4DC3U	1840
		110...250V AC	Varistor AC/DC	LA4DE2U	1760
		24...48V AC 400Hz	RC Circuit AC	LA4DA2E	
		50...127V AC 200Hz	RC Circuit AC	LA4DA2G	2775
		110...240V AC 100Hz	RC Circuit AC	LA4DA2U	1840
		380...415V AC 150Hz	RC Circuit AC	LA4DA2N	2775
		24...48V DC	Varistor AC/DC	LA4DE3E	1840

Hi Enterp

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 30th, 2023

TeSys Control
TeSys Deca

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

Simple, customisable modular marking sytem

Standard TeSys Deca contactors

Easy-to-attach covers:

Standard TeSys Ultra motor starters

Translucent labels to identify safety-chain devices:

Auxiliary blocks with safety chain identification also available 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

Complete safety-chain identification system

TeSys Deca range

Retrofit contactor safety covers

LAD9ET1S
9A upto 65A

LAD9ET3S
80A to 95A

LAD9ET4S
110A to 150A

Also available for CAD32/CAD50

TeSys Ultra range

Auxiliary contact block

LADN22S
2NO + 2NC

Retrofit identification label

LU9ET1S

Built in Safety

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

Description	For use with	Reference	Unit MRP [₹]
Red Cover (For safety chain indication)	LC1D09…D65A and DT20 .. DT80A	LAD9ET1S	765
Auxiliary Contact block with red front face- for safety chain indication	2NO + 2NC	LADN22S	1090

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 30th, 2023

New TeSys Giga Contactors and Relays Futuristic ready…

- **New generation** of high power contactors..115-800 A (AC-3)
- Advanced contact wear diagnostic for **predictive maintenance**
- **Modular design** for easy maintenance and short down times
- **Compact** design for less installation space consumption
- Less product references for **easier selection** and **reduced inventory**
- Right choice for a wide range of **demanding applications**!!

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TeSys Control
TeSys Giga

A comprehensive range of TeSys Giga Contactors that are available in 'Advanced' and 'Standard' versions, in 3 sizes, covering several ratings.
A common range of auxiliary contacts and accessories, enabling high flexibility and simplicity.

> TeSys Giga Contactors - Standard version

Power & control
- 3 or 4 power poles
- 115 to 800A (AC-3)
- 200 to 1050A (AC-1)
- Embedded 1 NO + 1 NC auxiliary contacts
- Push-in type terminals for coils & control

Remote control
- 48-130V, 100-250V AC/DC coils
- Wide voltage range coils (direct coil control)
- Embedded surge-suppressor

Diagnostic
- Embedded wear diagnostic
- Embedded control voltages diagnostic
- Self diagnosis function
- Local alarm signaling (LED)

Mounting
- *'Cabling memory' adapter enables maintenance without removing power cables and busbar connections. (Provided as an accessory in standard version)*

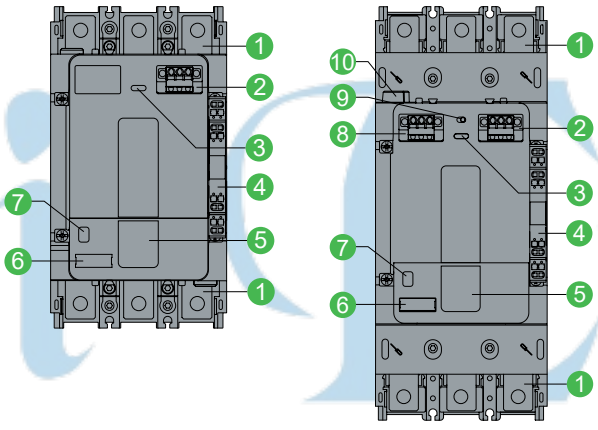
> TeSys Giga Contactors - Advanced version

Power & control
- 3 or 4 power poles
- 115 to 800A (AC-3)
- 200 to 1050A (AC-1)
- Embedded 1 NO + 1 NC auxiliary contacts
- Push-in type terminals for coils & control

Remote control
- *24-48V, 48-130V, 200-500V AC/DC coils*
- *Low consumption coils*
- Wide voltage range coils (direct coil control)
- *Digital control input (PLC output digital coil control)*
- Embedded surge suppressor

Diagnostic
- Embedded wear diagnostic
- Embedded control voltages diagnostic
- Self diagnosis function
- Local alarm signaling (LED)
- *Remote wear diagnostic signaling kit (accessory)*

Mounting
- *'Cabling memory' adapter enables maintenance without removing power cables and busbar connections. (Provided as default in advanced version)*



Standard (*N) version Advanced (*A) version

1. Power connection (cable memory kit provided with Advanced version contactor)
2. A1-A2 coil terminal
3. Contact wear diagnosis LED
4. 1 NO + 1 NC auxiliary contact
5. QR code
6. Label holder
7. Status indicator
8. PLC control terminal
9. PLC control ON/OFF switch
10. Connector for Remote Wear Diagnostic (RWD) module

*Product references finishing by A or N.

TeSys Giga Power Contactors (3 Pole AC and DC)

Future ready:
Continuous local and remote monitoring of contact wear optimizes the predictive maintenance by allowing you to replace contacts only when necessary, facilitated by diagnostic visual indicator.

- Current Rating: 115-800[1] A AC3 rating; and AC1 upto 1050[1] A
- Universal AC/DC electronic wideband coil
- Fuseless Type 2 Co-ordination charts as per IEC60947-4-1 available
- Conformity to International Standards – IEC, UL, CSA, CE

[Ie] Rated Operational Current AC-1	Motor Power (Long Life) AC-3			Standard version Reference	Unit MRP [₹]	Advanced version Reference	Unit MRP [₹]
	kW	HP	A				
250	59	80	115	LC1G115***N	29540	LC1G115***A	On Request
275	80	110	150	LC1G150***N	37665	LC1G150***A	
305	100	135	185	LC1G185***N	46680	LC1G185***A	
330	110	150	225	LC1G225***N	50230	LC1G225***A	
385	140	190	265	LC1G265***N	61740	LC1G265***A	
440	180	245	330	LC1G330***N	74660	LC1G330***A	
550	220	300	400	LC1G400***N	90235	LC1G400***A	
700	280	380	500	LC1G500***N	125180	LC1G500***A	

TeSys Giga Power Contactors (4 Pole AC and DC)

[Ie] Rated Operational Current AC-1	Power Pole Composition	Standard version Reference	Unit MRP [₹]	Advanced version Reference	Unit MRP [₹]
250	4 NO	LC1G1154***N	46870	LC1G1154***A	On Request
275	4 NO	LC1G1504***N	55765	LC1G1504***A	
305	4 NO	LC1G1854***N	69680	LC1G1854***A	
330	4 NO	LC1G2254***N	81850	LC1G2254***A	
385	4 NO	LC1G2654***N	91515	LC1G2654***A	
440	4 NO	LC1G3304***N	106500	LC1G3304***A	
550	4 NO	LC1G4004***N	132360	LC1G4004***A	
700	4 NO	LC1G5004***N	195050	LC1G5004***A	

Standard Coil Reference(***N)	Voltages (AC/DC)
EHEN	48-130
KUEN	100-250
Standard Coil Reference(*A)**	**Voltages (AC/DC)**
LSEA[1]	200-500
BEEA[1] [2]	24-48

1: Advanced version (Price on request)
2: Available upto 500 A
Contactor prices are for the standard version (100-250 V AC/DC) and inclusive of coil.
Reference to be completed by adding coil voltage code and recommended to check availability with Customer Care team.

Accessories - TeSys Giga

Add On Blocks	Push In Type Terminal	Position	Contacts	Reference	Unit MRP [₹]
Auxillary contact module	1st left or 1st right	Side Mounted[1]	1 NO+1NC	LAG8N113P	1325
		Side Mounted	2 NO	LAG8N203P	1720
	2nd left or right	Side Mounted	1 NO+1NC	LAG8N113	1325
		Side Mounted	2 NO	LAG8N203	1720

(1) Always supplied with TeSys Giga LC1G contactors, fitted to the right side lateral face.

Mechanical interlock between contactors[1]	Reference	Unit MRP [₹]
For Use With Contactor		
Between Identical contactor frames	LA9G970	2420
Between LC1G(265-500) and LC1G(185-225)	LA9G971	
LC1G630 to LC1G800 and LC1G265 to LC1G500	LA9G972	On Request

(1) Maximum 3 auxiliary contacts can be installed between 2 contactors with mechanical interlock kit.

EcoStruxure™ Motor Control Configuration

Product Selector for TeSys Giga

EcoStruxureTM Motor Management Design

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 30th, 2023

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, refering 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

It is recommended to check with Customer care team for selection, recommendation ,and availability of stockable and non stockable references

☑ NORMAL STOCK ITEMS

W.E.F. January 30th, 2023

TeSys Protection Range

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

	TeSys Power		TeSys Protect			TeSys Active		
Feature	Motor Protection Circuit Breakers		Overload Relays	Multi function Relays		TeSys Ultra	TeSys T	TeSys Island
TeSys Range of Products	GV2P, GV4P GV3P,GV2ME	GV4PEM	LR2K, LRD, LR9D, LR9F	LR9G	EOCR			
	GV2P GV3P GV2ME	GV4PEM	LR2K LR9D LRD LR9F	LR9G	EOCR	TeSys Ultra	TeSys T	TeSys Island
Short circuit								
Causes of overheating								
Slight overload								
Locked rotor								
Ventilation fault With probes							With Probes	With Probes
Abnormal temperature rise								With Probes
Shaft bearing seizure								
Insulation fault					With CBCT			
Long starting time Adjustable Adjustable		Adjustable			Adjustable	Adjustable	Adjustable	Adjustable
Heavy duty			LR9D only					
Voltage variation (Derived)								
Causes of phase variation								
Phase reversal								
Phase losses								
Phase imbalance								
Earth fault	GV4P only							
Historic fault, Pre-Alarming				Possible Pre alarm				

Protection Relays for Motor Safety

Providing Motor Safety tailored to your needs

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Atithi Enterprises®

Life Is On | Schneider Electric

Authorized Partner

Life Is On | Schneider Electric

Rajeshkumar Rajaraman
99406 30301

Door No: 40, Thirumalai Samy Street,
New Siddhapudur, Coimbatore - 641044.

atithicbe@gmail.com
www.atithienterprises.com
0422-4951395 | 75984 05301

TeSys Protect
TeSys K, TeSys Deca, TeSys F, TeSys Giga

Thermal Overload Relays - Tesys K Series (Direct Mounting)

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

Thermal Protection Adjustment	For Use With	For Use With	Unit MRP [₹]
0.11...0.16	LC1K, LP1K, LP4K, LP2K, LC2K	LR2K0301	2455
0.16...0.23		LR2K0302	
0.23...0.36		LR2K0303	
0.36...0.54		LR2K0304	
0.54...0.8		LR2K0305	
0.8...1.2		LR2K0306	
1.2...1.8		LR2K0307	
1.8...2.6		LR2K0308	
2.6...3.7		LR2K0310	
3.7...5.5		LR2K0312	
5.5...8		LR2K0314	
8...11.5		LR2K0316	
10...14		LR2K0321	2535
12...16		LR2K0322	

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

Thermal Overload Relays - TeSys Deca Series

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

Thermal Protection Adjustment Range	For Use With	Reference*	Unit MRP [₹]
LRD Model (Direct Mounting)			
0.1...0.16	GV2L03, LE03, LC1D09...LC1D38	LRD01	2470
0.16...0.25		LRD02	
0.25...0.4		LRD03	
0.4...0.63		LRD04	
0.63...1		LRD05 ☑	
1...1.6		LRD06 ☑	
1.6...2.5		LRD07 ☑	
2.5...4		LRD08 ☑	
4...6		LRD10 ☑	
5.5...8		LRD12 ☑	
7...10		LRD14 ☑	2770
9...13		LRD16 ☑	
12...18		LRD21 ☑	2855
16...24	GV2L22, LC1D25...D38	LRD22 ☑	
23...32	LC1D25...LC1D38, LC1D32	LRD32 ☑	4590
30...38	LC1D32, LC1D38	LRD35	
23...32	LC1D40A...D65a	LRD332	5080
	LC1D80...LC1D95	LRD3353	
30...40	LC1D40A...D65a	LRD340	
30...40	LC1D80...LC1D95	LRD3355	
37...50	LC1D40A...D65a	LRD350 ☑	6965
	LC1D80...LC1D95	LRD3357	8330
48...65	LC1D40A...D65a	LRD365	8940
62...80	LC1D80A	LRD380	9325
48...65	LC1D80...LC1D95	LRD3359	8940
63...80	LC1D80...LC1D95	LRD3363	9700
80...104	LC1D80, LC1D95	LRD3365	11975

Electronic Overload Relay - TeSys Deca Series

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

Current Range	For Use With	Reference*	Unit MRP [₹]
0.1....0.5	LC1D09 - 38A Direct Mounting	LR9D01	11215
0.4....2.0		LR9D02	11515
1.6....8.0		LR9D08	
6.4....32		LR9D32	12880

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

Electronic Overload Relay - TeSys Giga Series

- Wide range of protection with only 4 references (28A to 630A)
- Switchable protection against ground fault and phase imbalance
- ON status and overload alarm signaling by LED
- Direct mouting of relay with contactors saving in panel space and installation time
- Selectable Trip class from 5E to class 30E to suit different application needs

Thermal Protection Adjustment Range	Reference	Unit MRP [₹]
28...115 A	LR9G115	19080
57...225 A	LR9G225	22260
125...500 A	LR9G500	26180
160...630 A	LR9G630*	on request

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

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

☑ NORMAL STOCK ITEMS

W.E.F. January 30th, 2023

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

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TeSys Protect
EOLR, EOCR

EOLR
Electronic Overload Relay

- Conformance to IEC, UL, CSA
- Range : 0.1A to 630A
- High Operating Temperature
- Field selectable tripping class : 5,10, 20 & 30
- Type 1 & Type 2 Co-ordination chart available

Current Range	For Use With	Reference*	Unit MRP [₹]
LR9-D Electronic Protection Relays			
0.1....0.5	LC1D09 - 38A Direct Mounting	LR9D01	11215
0.4....2.0		LR9D02	11515
1.6....8.0		LR9D08	
6.4....32		LR9D32	12880
LR9-G Electronic Protection Relays			
28...115	LC1G115 - 630A Direct Mounting	LR9G115	19080
57...225		LR9G225	22260
125...500		LR9G500	26180
160...630		LR9G630	On Request

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

Protection Relay Selection Table

	EOLR	EOCR		
Features\product	**LR9D/ LR9G**	**SS/ SSD**	**3DM2/ FDM2**	**3MZ2/ FMZ2/ 3BZ2/ FBZ2**
Precise Overload Protection (Inverse Time)	■		■	■
Over Current Protection (Defnite Time)		■	■	■
Selectable Trip Clas 5-30	■		■	■
Current Unbalance Protection	LR9G Only		■	■
Locked Rotor, Phase Loss	■	*	■	■
Under current Protection			■	■
Ground Current Protection	LR9G Only			■
Current Measurement	3CT	2CT	3CT	3CT
Current Display		#	■	■
Direct Mounting on Contactor	$			
Fault History			■	■
Configurable protection functions			■	■

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

Possible solution
■ Ideal solution

Analog EOCR

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

EOCR SS
- Without Display

EOCR SS			
Current Range	Control Voltage	Reference	Unit MRP [₹]
0.5-6	24-240V AC/DC	EOCRSS-05S	6470
3-30	24-240V AC/DC	EOCRSS-30S	
5-60	24-240V AC/DC	EOCRSS-60S	

Note: 2 SPST output contacts

To order an EOCR-SS:

E 0 C R S S - 0 5 S
(1) (2)

(1)	**Current Setting Range**	**5**	0.5-6A	For 60A or higher, combine 05 Type 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.

EOCR SSD
- With Display (Operating Current & Trip Cause)

EOCR SSD			
Current Range	Control Voltage	Reference	Unit MRP [₹]
0.5-6	24-240V AC/DC	EOCRSSD-05S	9680
3-30	24-240V AC/DC	EOCRSSD-30S	
5-60	24-240V AC/DC	EOCRSSD-60S	

Note: 2 SPST output contacts

To order an EOCR-SS:

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 30th, 2023

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
❶					❷		❸	❹	❺	❻

No	Item	Type	Current Range	
❶	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	
❷	Standard	WR	0.5...80A	
❸	Relay Output	D	b (95-96), a(97-98), a(07-08) 3DM2, FDM2	
		A	a(97-98): OL, a(57-58): GF	3MZ2, FMZ2
		C	b(95-96), a(97-98): OL/GF	
		D	b(95-96) : OL, a(57-58): GF*	
❹	Control Power	B	AC/DC 24V	
		U	AC/DC 100~240V	
❺	Wiring Method	W	Window-hole type*	
		H	Bottom-hole type	
❻	Version	Z	New version	

* Not Possible with 3BZ2/FBZ2

Digital EOCR				
Current Range	Control Voltage	Reference	Description	Unit MRP [₹]
0.5-80A	100-240V AC/DC	3DM2-WRDUWZ	Without ground - fault protection	20420
		3DM2-WRDUHZ		
		FDM2-WRDUWZ		22085
		FDM2-WRDUHZ		
		3MZ2-WRAUWZ	With ground - fault protection	20695
		3MZ2-WRAUHZ		
		3MZ2-WRCUWZ		
		3MZ2-WRCUHZ		
		3MZ2-WRDUWZ		
		3MZ2-WRDUHz		
		FMZ2-WRAUWZ		24845
		FMZ2-WRAUHZ		
		FMZ2-WRCUWZ		
		FMZ2-WRCUHZ		
		FMZ2-WRDUWZ		
		FMZ2-WRDUHZ		
		3BZ2-WRAUHZ	With ground - fault protection (inbuilt ZCT)	30040
		3BZ2-WRCUHZ		
		FBZ2-WRAUHZ		30525
		FBZ2-WRCUHZ		

EOCR Accessories

ZCT - Ground Fault Protection			
	Reference	Description	Unit MRP [₹]
	ZCT-035-Z	ZCT EP 35 mm	On Request
	ZCT-080-Z	ZCT EP 80 mm	8795
	ZCT-120-Z	ZCT EP 120 mm	14470

Display Cable for FDM2/FMZ2/FBZ2			
	Reference	Description	Unit MRP [₹]
	CABLE-RJ45-001Q	CABLE 1M	2365

ZCT - Ground Fault Protection				
3CT - H1 - 100 - Z				
❶				
	Reference		Description	Unit MRP [₹]
	❶ CT ratio	H1-100-Z	Square 3CT 100:5	5200
		HH-150-Z	Square 3CT 150:5	6440
		H2-200-Z	Square 3CT 200:5	7100
		H3-300-Z	Square 3CT 300:5	7475
		H4-400-Z	Square 3CT 400:5	8795

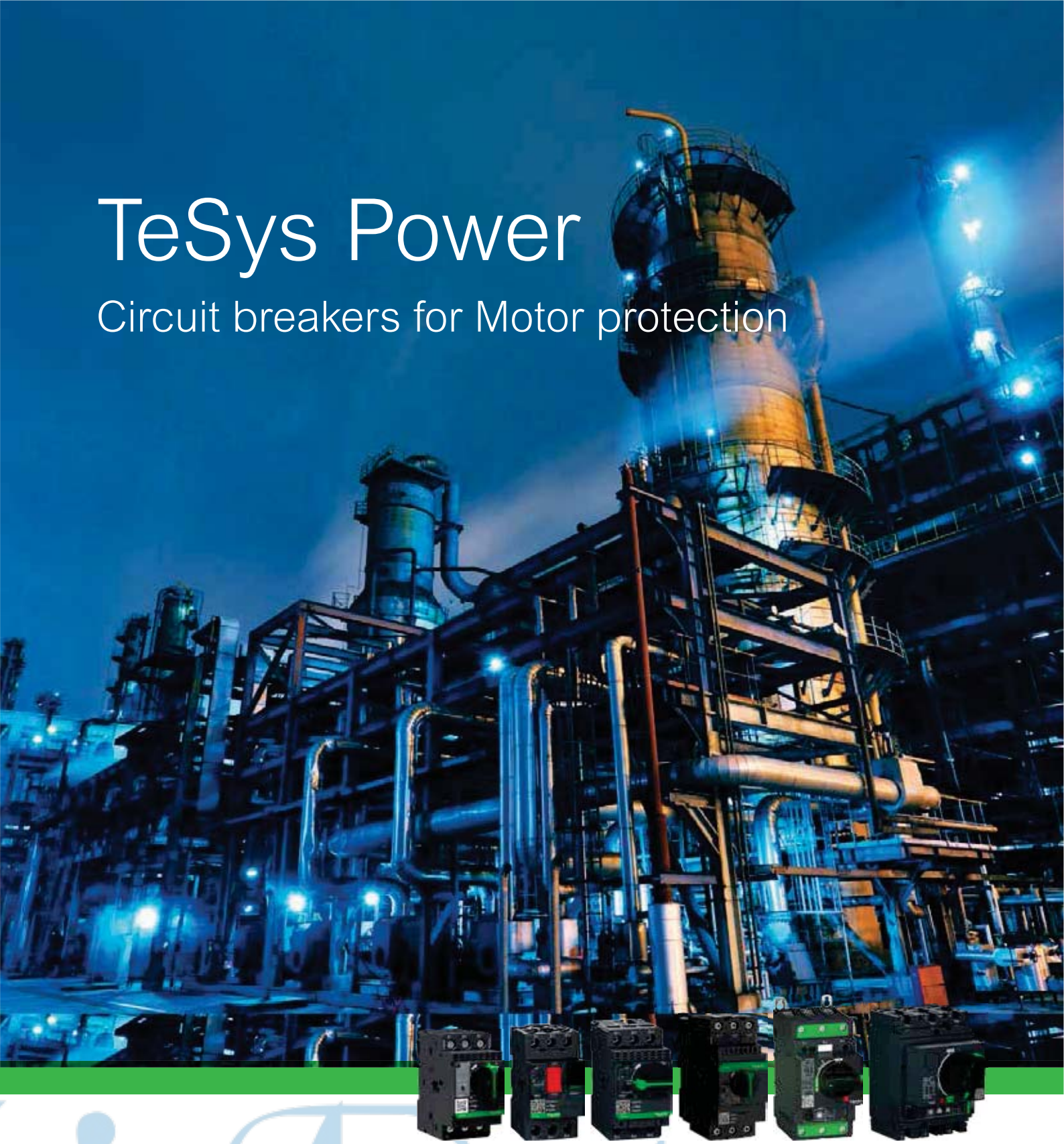
For details on non standard references, technical parameters, accessories, compatibility, stockable and non stockable status please contact Customer Care

☑ NORMAL STOCK ITEMS

W.E.F. January 30th, 2023

TeSys Power

Circuit breakers for Motor protection



Circuit breakers for motor protection and control

TeSys Deca and TeSys Giga Circuit Breakers provide compact, reliable and efficient solutions:

- Isolation
- Protection against short circuits and overloads
- Control of motors from 0.06 to 250 kW.
- Conforming to global standards.(IEC/EN/UL/CSA)

For more information on motor protection circuit breakers

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TeSys Power
Circuit Breakers for Motor Protection

Magnetic Circuit Breaker

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

Breaking Capacity at 415V 50Hz	Motor Power AC-3** kW	HP	Magnetic Protection Rating (A)	Reference	Unit MRP [₹]
With Rocker Lever Control (Economy)*					
100kA	0.09	-	0.4	GV2LE03	5215
	0.18	-	0.63	GV2LE04	
	0.37	0.5	1	GV2LE05	
	0.55	-	1.6	GV2LE06	
	1.1	1.5	2.5	GV2LE07	
	1.5	2	4	GV2LE08	
	2.2	3	6.3	GV2LE10	
	3	5.5	10	GV2LE14	
15kA	5.5	7.5	14	GV2LE16	
	7.5	10	18	GV2LE20	6055
	11	15	25	GV2LE22	
10kA	15	20	32	GV2LE32	10290
With Rotary Handle Control*					
100kA	0.09	-	0.4	GV2L03	5985
	0.18	-	0.63	GV2L04	
	0.37	0.5	1	GV2L05	
	0.55	-	1.6	GV2L06	
	1.1	1.5	2.5	GV2L07	
	1.1	2	4	GV2L08	
	2.2	3	6.3	GV2L10	
	4	5.5	10	GV2L14	
50kA	5.5	7.5	14	GV2L16	
	7.5	10	18	GV2L20	
	11	15	25	GV2L22	
	15	20	32	GV2L32	
	18.5	25	40	GV3L40	16720
	22	29	50	GV3L50	17115
	30	40	65	GV3L65	17485
	37	50	73	GV3L73	19770
With Toggle Control					
50kA	37	50	80	GV4LE80N6	17080
	55	74	115	GV4LE115N6	
	75	101	150	LV430832	On Request
	110	147	220	LV431752	
	160	214	320	LV432749	
	200	268	500	LV432949	

* Conforming to IEC 60947-2-3-4
** 50/60Hz - 415V
- GV2-L with the TeSys Deca contactor and LRD overload relay provides Type 2 Co-ordination

Thermal Magnetic Circuit Breaker

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

Breaking Capacity at 415V 50Hz	Motor Power AC-3** kW	HP	Thermal Protection Adjustment Range	Reference	Unit MRP [₹]
With Push Button Control (Economy)					
100kA	-	-	0.1 - 0.16	GV2ME01	5495
	0.06	-	0.16 - 0.25	GV2ME02	
	0.09	-	0.25 - 0.40	GV2ME03	
	0.18	-	0.40 - 0.63	GV2ME04 ☑	5845
	0.37	0.5	0.63 - 1.0	GV2ME05 ☑	
	0.55	0.75	1.0 - 1.6	GV2ME06 ☑	5975
	0.75	1	1.6 - 2.5	GV2ME07 ☑	
	1.1	2	2.5 - 4	GV2ME08 ☑	6180
	2.2	3	4 - 6.3	GV2ME10 ☑	
	3	5.5	6 - 10	GV2ME14 ☑	
15kA(1)	5.5	7.5	9 - 14	GV2ME16 ☑	6930
	7.5	10	13 - 18	GV2ME20 ☑	7455
	9	12.5	17 - 23	GV2ME21 ☑	7960
	11	15	20 - 25	GV2ME22 ☑	7960
10kA(1)	15	20	24 - 32	GV2ME32 ☑	12895
With Rotary Handle Control					
100kA	-	-	0.1 - 0.16	GV2P01	5375
	0.06	-	0.16 - 0.25	GV2P02	
	0.09	-	0.25 - 0.40	GV2P03	
	0.18	-	0.40 - 0.63	GV2P04	6160
	0.37	0.5	0.63 - 1.0	GV2P05 ☑	
	0.55	0.75	1.0 - 1.6	GV2P06	
	0.75	1	1.6 - 2.5	GV2P07	
	1.1	2	2.5 - 4	GV2P08 ☑	6350
	2.2	3	4 - 6.3	GV2P10 ☑	
	3	5.5	6 - 10	GV2P14 ☑	6775
	5.5	7.5	9 - 14	GV2P16 ☑	8320
50kA(2)	7.5	10	13 - 18	GV2P20 ☑	9605
	9	12.5	17 - 23	GV2P21 ☑	
	11	15	20 - 25	GV2P22 ☑	
35kA(2)	15	20	24 - 32	GV2P32 ☑	16185
50kA	18.5		30...40	GV3P40 ☑	19000
	22		37...50	GV3P50 ☑	23560
	30		48...65	GV3P65 ☑	24165
	37		62...73	GV3P73	24700
With Toggle Control					
50kA	37	49.58	40...80	GV4PE80N6	22140
	55	73.7	65...115	GV4PE115N6	
With Direct Rotary Handle					
70kA	75	101	70...150	GV5P150H	45030
	110	147	100...220	GV5P220H	52530
	160	214	160...320	GV6P320H	67545
	200	268	250...500	GV6P500H	93060

** 50/60Hz - 415V
(1) With GV1-L3 current limiter, breaking capacity can be increased to 100kA. Combination of the GV2-M with the TeSys Deca provides Type 2 Co-ordination.
(2) With GV1-L3 current limiter, breaking capacity can be increased to 100kA. Combination of the GV2-P with the TeSys Deca providesType 2 Co-ordination.

It is recommended to check with Customer care team for selection, recommendation, and availability of stockable and non stockable references

☑ NORMAL STOCK ITEMS

W.E.F. January 30th, 2023

TeSys Power
Circuit Breakers for Motor Protection

GV4LE

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

Magnetic Toggle Control

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

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

GV4PE

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

Thermal Magnetic Protection Toggle Control

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

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

Crimp Lug/busbar connection Description		Sold in lots of	Reference
Crimped lug connector + screws		1	GV4LUG
Transparent terminal shield for crimped lug connector		1	LAD96590
Interphase barriers		6	LV426920
Spreader 3-pole	To increase the pitchto 35 min	1	LV426940

It is recommended to check with Customer care team for selection, recommendation, and availability of stockable and non stockable references

☑ NORMAL STOCK ITEMS

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Accessories for GV4

MX Shunt Trip

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

MN Under Voltage Release

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

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

Auxiliary Contact Blocks

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

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

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

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

Resets when the circuit breaker is reset

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

Rotary Handles

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

Connection Accessories

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

It is recommended to check with Customer care team for selection, recommendation, and availability of stockable and non stockable references

☑ NORMAL STOCK ITEMS

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Accessories for Motor Circuit Breakers

Description			Reference	Unit MRP [₹]
For GV2				
Front contact NO or NC(1)			GVAE1	1125
Front contact NO + NC			GVAE11 ☑	1380
			GVAE20	1525
Side contact NO + NC			GVAN11 ☑	1665
			GVAN20	
Fault signalling contact + 1NO contact (2)			GVAD1010 ☑	2170
Fault signalling contact + 1NC contact (2)			GVAD1001	
Short circuit signalling contact block 1 C/O			GVAM11	2070
Under voltage trip	110 ... 115V	50Hz	GVAU115	4465
	220 ... 240V	50Hz	GVAU225	3960
	380 ... 400V	50Hz	GVAU385	
Shunt trip	110 ... 115V	50Hz	GVAS115	
	220 ... 240V	50Hz	GVAS225	
	380 ... 400V	50Hz	GVAS385	
Additive limiter for increasing breaking capacity to100kA for GV2ME and GV2P.			GV1L3	6390
Connection block - GV2 with contactor LC1-D09..D38			GV2AF3	775
Connection block - LS1 D32 or GV2 with Contactor LC1-K or LP1-K			GV2AF01	840
Empty enclosure for GV2ME - plastic			GV2MP02	3675
			GV2MC02	4035

(1) Choice of NC or NO contact operation depending on which way round the reversible block is mounted.
(2) The GV-AD is always mounted next to the circuit breaker.

Busbars

Connection Pitch	No. of Tapoff Points	Reference	Unit MRP [₹]
For GV2			
45 mm	2	GV2G245	2165
	4	GV2G445	3405
54 mm	2	GV2G254	1980
	3	GV2G354	2225
	4	GV2G454	2790
	5	GV2G554	3020
72 mm	4	GV2G472	3415

Description	Reference	Unit MRP [₹]
Accessories for Busbars		
Terminal block - to supply one or more 3-pole busbar GV2	GV2G05	4280
Protective end covers for unused busbar outlets	GV1G10	755
Terminal block for connection from top	GV1G09	2235

Accessories for Motor Circuit Breakers

Description	Reference	Unit MRP [₹]
For GV2-P/GV2-L		
External operator - IP54, Black	GV2APN01 ☑	3930
External operator - IP54, Yellow/Red	GV2APN02	7315
Visible isolation block - for motor circuit breaker GV2	GV2AK00	3325
For GV3P/GV3L		
Auxiliary Contacts		
Front contact: 1 NO (fault) + 1NC (Auxiliary)	GVAED011	1435
Front contact: 1 NO (fault) + 1NO (Auxiliary)	GVAED101	1575
Busbar		
3-pole, 3 tap, 64 mm pitch	GV3G364	2080
S-shape bus bar	GV3S	1555
External Operator		
IP54, Black	**GV3APN01**	**4740**
IP54, Yellow/Red	**GV3APN02**	**4590**

Note: All other accessories are same as of GV2.
Busbars GV3G364 and GV3S are not compatible with GV3*73 and GV3*80.

Description	Operating Voltage	Reference	Unit MRP [₹]
For GV5 and GV6			
Auxiliary contact - 1 OC	-	GV7AE11 ☑	3295
Clip-on connector - upto 150 A - 1.5..95 mm2	-	GV7AC021	1360
Clip-on connector- upto 220 A - 1.5..185 mm2	-	GV7AC022	1870
Front rotary handle GV7AP GV7R - black handle (2)	-	GV7AP03	5665
		GV7AP01	9850
Padlocking device - 1..3 padlocks Ø 5..8mm shank(3)	-	GV7V01	1235
Terminal shields IP405(1)	-	GV7AC01	3505
For GV5 and GV6			
Shunt release	200...240 V AC 50/60 Hz	GV7AS207	7485
Under Voltage release	200...240 V AC 50/60 Hz	GV7AU207	7730

(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

It is recommended to check with Customer care team for selection, recommendation, and availability of stockable and non stockable references

☑ NORMAL STOCK ITEMS

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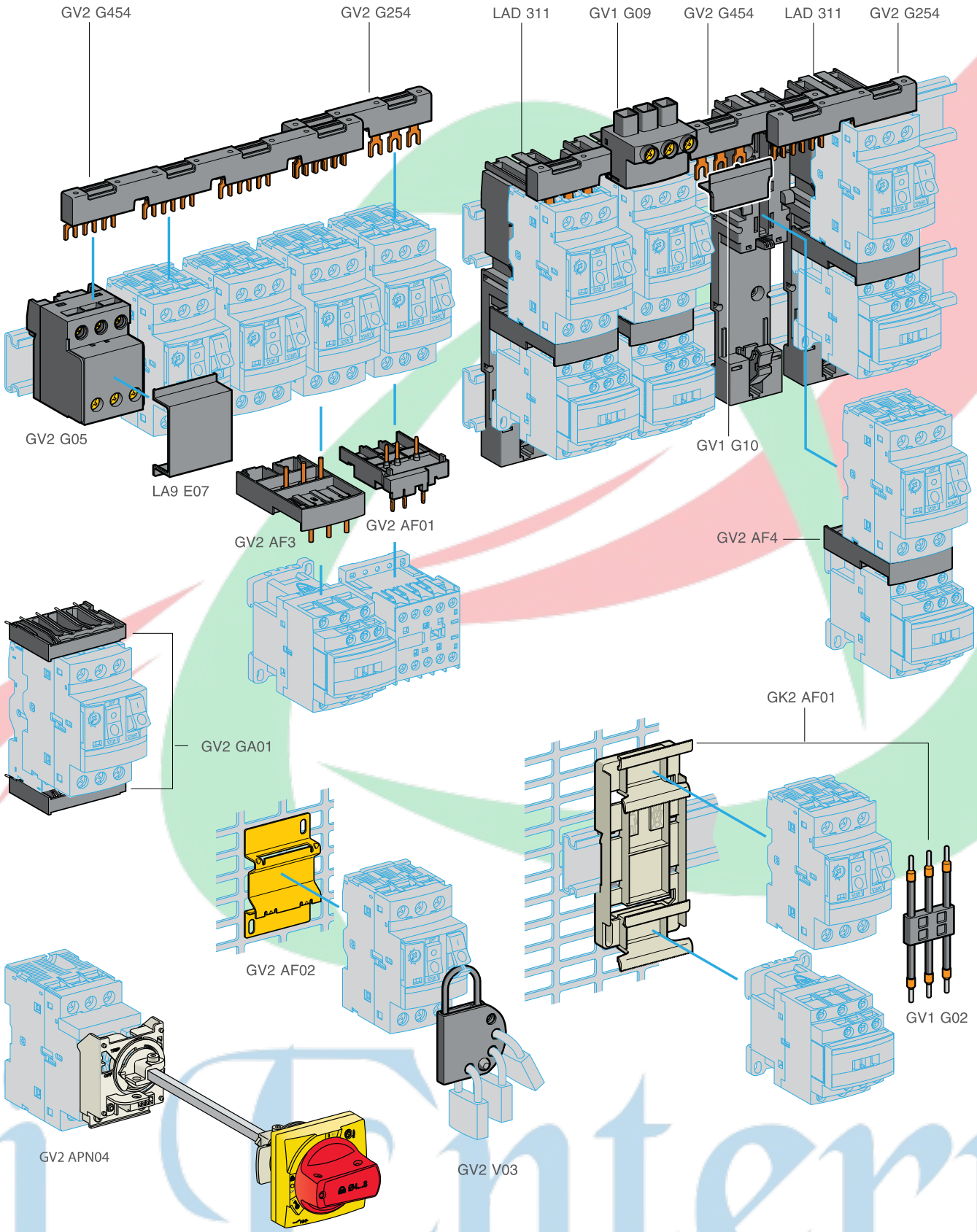
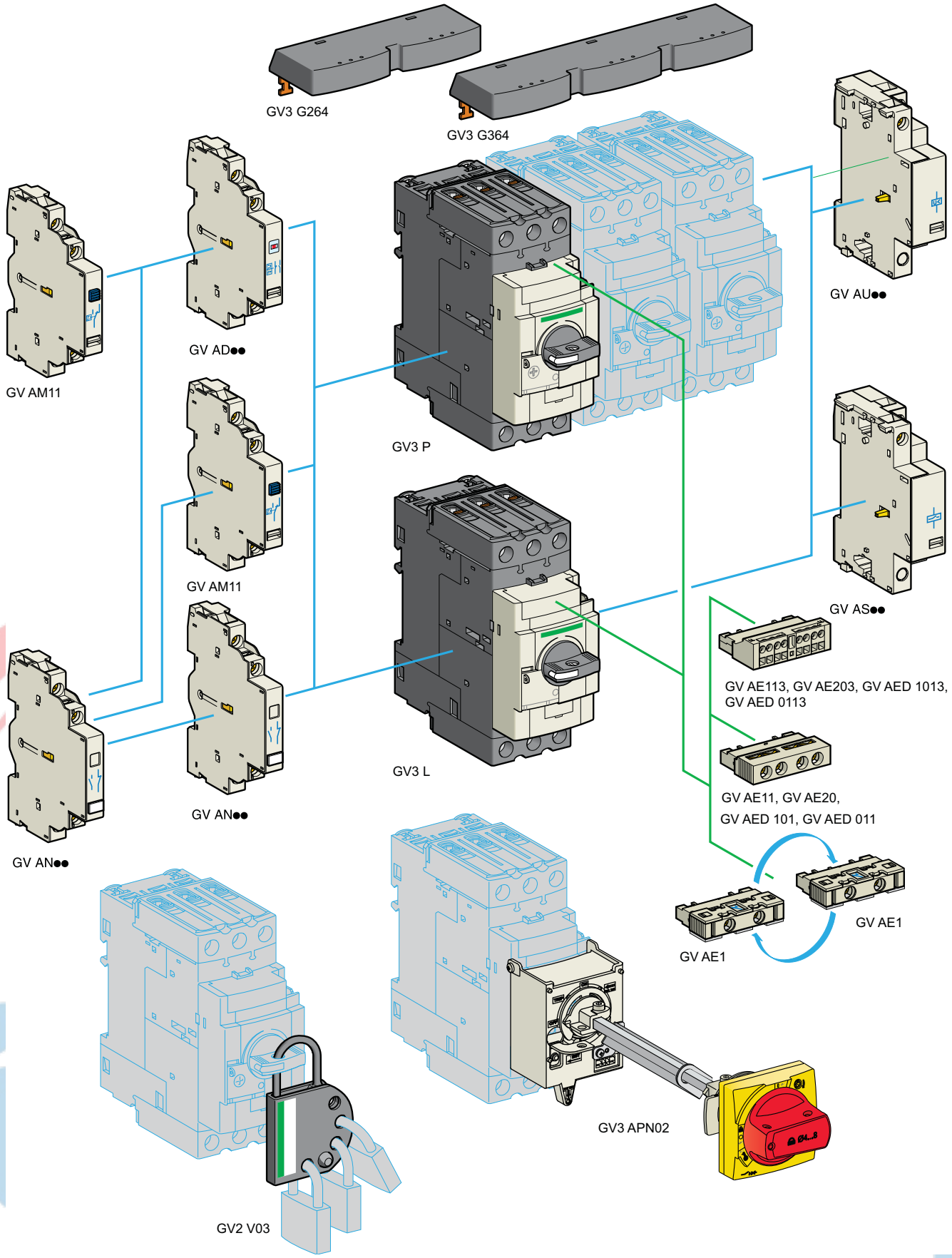
TeSys
Accessories compatibility

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GV3 P
GV AM11
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GV3 L
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GV AED 0113
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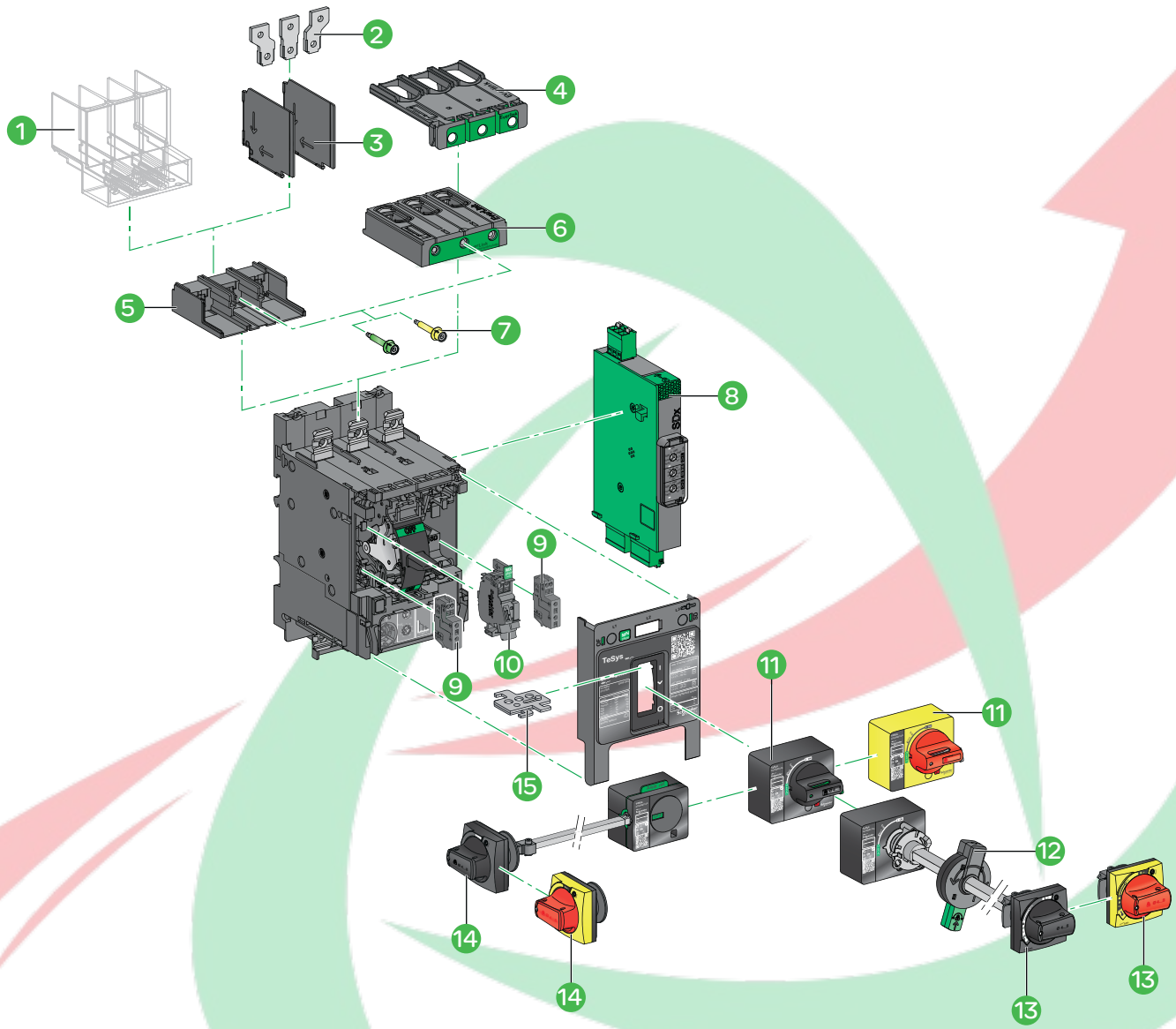
GV AE1
GV AE1
GV3 APN02
GV2 V03

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

Vario Switch Disconnectors

[Ithe] Conventional Thermal Current**	Poles Description	Rated Operational Power (AC-23)*	Reference	Unit MRP [₹]
Complete Enclosed Switches				
• Range 12 to 175A, IP 65 Sealable and Lockable				
10	3P	4 kW	VCF02GE	3875
16	3P	5.5 kW	VCF01GE	4215
20	3P	7.5 kW	VCF0GE	5125
25	3P	11 kW	VCF1GE	5500
32	3P	15 kW	VCF2GE	6445
50	3P	22 kW	VCF3GE	9965
63	3P	30 kW	VCF4GE	11660

* Rated Power at 415V
** Ith in enclosure

For Switch Type (Amps)	Mounting Arrangement	Ingress	Reference	Unit MRP [₹]
Operators (Padlockable)				
12 - 40	4 Screw Fixing	IP65	KCF1PZ	1105
63 - 80	4 Screw Fixing	IP65	KCF2PZ	1170
125 - 175	4 Screw Fixing	IP40	KCF3PZ	4730

Vario Switch Disconnectors

[Ithe] onventional Thermal Current**	Poles Description	Reference	Unit MRP [₹]
Complete Switch with Padlockable Operator			
• Suitable for Front Mounting or Base Mounting			
12	3P	VCF02	2435
20	3P	VCF01	2650
25	3P	VCF0	3090
32	3P	VCF1	3240
40	3P	VCF2	4015
63	3P	VCF3	8110
80	3P	VCF4	6805
125	3P	VCF5	15595
175	3P	VCF6	18905
Switch Bodies			
12		V02	1585
20		V01	1830
25		V0	2175
32		V1	2650
40		V2	3240
63		V3	4510
80		V4	5930
125		V5	12030
175		V6	15355

Accessories

Description	For Use with Switch Bodies	Rating in A	Pole Composition	Earth Contact	Auxiliary Contacts	Reference	Unit MRP [₹]
Vario Add-on Modules (1)							
Main Pole Module	V02/VCF02	12	1P	-	-	VZ02	1135
	V0/1/VCF01	20	1P	-	-	VZ01	1155
	V0/VCF0	25	1P	-	-	VZ0	1230
	V1/VCF1	32	1P	-	-	VZ1	1205
	V2/VCF2	40	1P	-	-	VZ2	1290
	V3/VCF3	63	1P	-	-	VZ3	1675
	V4/VCF4	80	1P		-	VZ4	
Neutral Pole Module(2)	V02 / VCF02 to V2 / VCF2	-	1N	-	-	VZ11	1380
	V3 / VCF3 to V4 / VCF4	-	1N	-	-	VZ12	1850
	V5 / VCZ5 to V6 / VCZ6	-	1N	-	-	VZ13	3820
Earthing Module	V02 / VCF02 to V2 / VCF20	-	-	-	-	VZ14	1365
	V3 / VCF3 to V4 / VCF4	-	-	1	-	VZ15	1610
	V5 / VCZ5 to V6 / VCZ6	-	-	1	-	VZ16	2500
Auxiliary Contact Block Module	V02/ VCF02 to V6 / VCZ6	-	-	-	1NO + 1NC	VZ7	1425
	V2/ VCF02 to V6 / VCZ6	-	-	-	2NO	VZ20	

(1) For mounting option of modules, please refer to the technical catalogue.
(2) With early make and late break contacts

Description	For Use With	Reference	Unit MRP [₹]
Components for Door Interlocking			
Shaft extension - for Mini-VARIO and VARIO - V02..V2	V02...V2	VZ17	1365
		VZ30	1610
Shaft extension - for Mini-VARIO and VARIO - V3 V4 V5 V6	V3, V4, V5, V6	VZ18	
		VZ31	1830
Door interlock plate	VZ17 / VZ30	KZ32	470
	VZ18/31	KZ74	810
Input Terminal Protection Shrouds			
Terminal Shrouds	V02 - V2	VZ8	460
	V3 - V4	VZ26	400
		VZ9	485
	V5 - V6	VZ27	400
		VZ10	610
	V02 - V6	VZ28	680
		VZ29	555

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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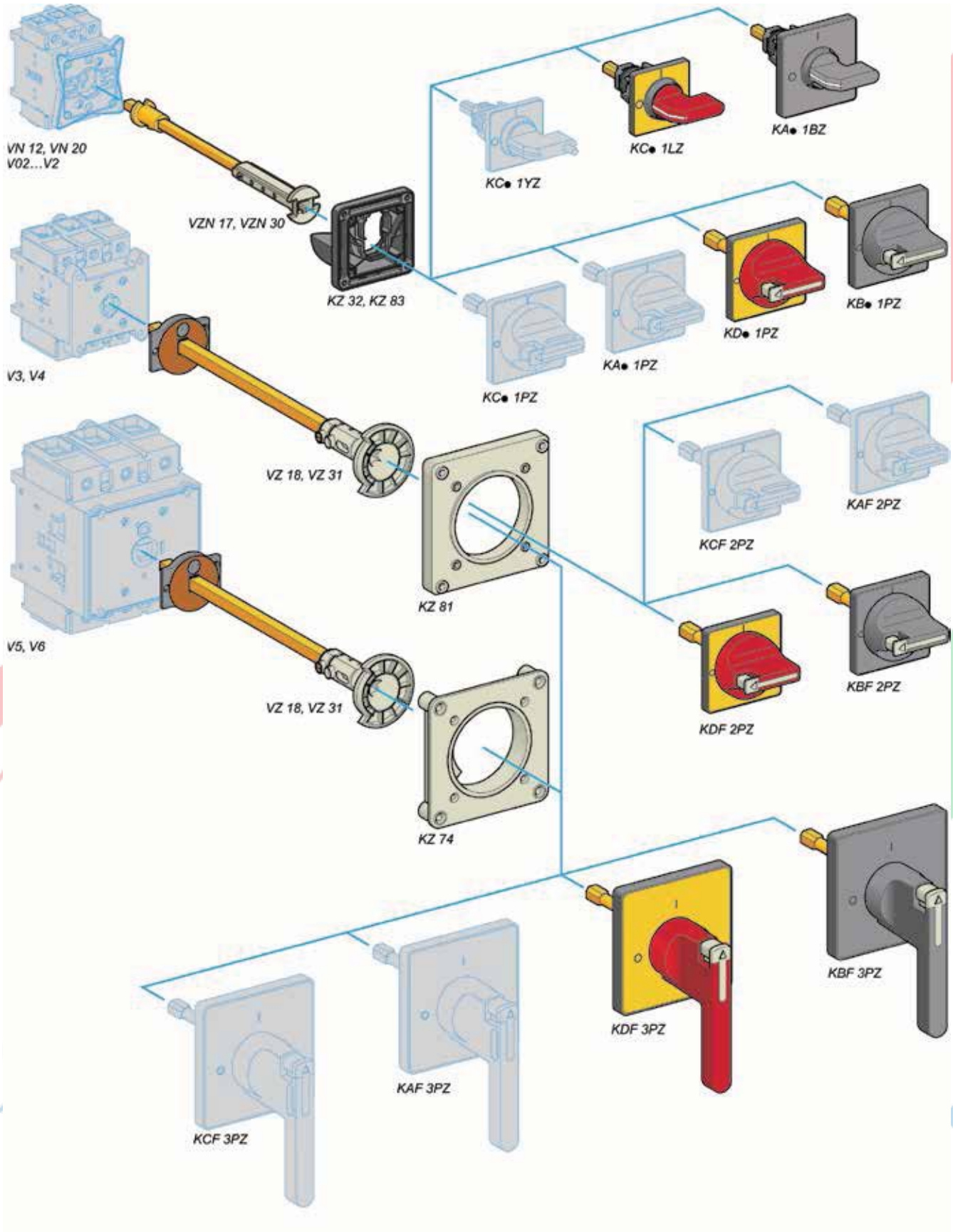
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KCF 2PZ
KAF 2PZ
V5, V6
VZ 18, VZ 31
KZ 74
KDF 2PZ
KBF 2PZ
KCF 3PZ
KAF 3PZ
KDF 3PZ
KBF 3PZ

EcoStruxure™
Innovation At Every Level

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

TeSys island

Unique features

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

Benefits

Why should you choose TeSys island?

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

se.com/in/TeSys

For more information on TeSys island Digital Load Management System

TeSys Active
TeSys island

Enable smarter design and engineering

Efficient

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

Enable new business models

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

A data provider

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

Improved security

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

Technical specifications

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

ni Enterp

TeSys Active
TeSys island

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

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

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

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

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

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

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

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

Introduction

From traditional solution to …

Motor circuit breaker: GV2L

Magnetic protection
> short-circuit protection

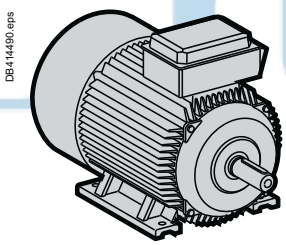
Contactor: LC1D

Control
> Start /Stop

Status monitoring
> signaling
> alarm monitoring

Protection relay: LRD

Thermal protection
> overload



Introduction

…Ultra motor starter

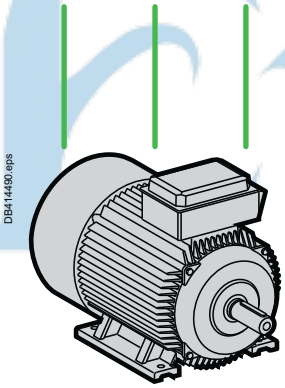
Ultra motor starter

> All basic or advanced protection and control functions in one block

and more...

> Overload indication and alarm

> Status report, remote control via communication bus



Ultra motor starters can be used in **80 %** of motor protection and control applications.

TeSys Control
Ultra motor starters

- Total Coordinated Starter – 3 functions in a single device
- Compact Starter, DOL / RDOL upto 18.5kW (38A, AC-3) in 45mm width
- Direct connectivity to Modbus / Profibus / CANopen / DeviceNet
- 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 38A.

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.

Power Base
For assembling components, ON/OFF operation and resetting.
> 3 power bases: upto 12A and upto 38A
> Direct starter and reversing starter models.

4 communication modules
Profibus DP
CANopen
DeviceNet
Modbus.

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

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*
0.. 38A with terminal	38
0.. 38A no terminal	380*

Reversing

LU2B	120	BL
0.. 12A with terminal	12	
0.. 12A no terminal	120*	
0.. 32A with terminal	32	
0.. 32A no terminal	320*	
0.. 38A with terminal	38	
0.. 38A no terminal	380*	
24 V DC		BL
24 V AC		B
48...72 VAC or 48 VDC		ES
110..240 VAC/DC		FU

*prewired cables to be ordered separately

Control Unit

LUC	B	X6	BL
Class 10, 3Ph	B		
Class 10, 1Ph	C		
Class 20, 3Ph	D		
Multifunction	M		
0.15 to 0.6 A		X6	
0.35 to 1.4 A		1X	
1.25 to 5 A		05	
3 to 12 A		12	
4.5 to 18 A		18	
8 to 38 A		38	
24V DC			BL
24VAC			B
48...72 VAC/48 VDC			ES
110..24VAC/DC			FU

Communication Module*

LULC	033
Modbus Serial	033
Profibus DP	07
CANopen	08
DeviceNet	09

Prewired Cables

Description	Reference
Prewired cable for non-reversing power base	LU9BN11C or LU9BN11L
Prewired cable for reversing power base	LU9MRC or LU9MRL

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

Auxiliary Contacts

Contactor auxiliary contacts

LUFN	11
1NO + 1NC	11
2NC	02
2NO	20
Side contacts 2NO	LUA8E20

Power auxiliary contacts (trip status)

LUA1C	20
1NO + 1NC	11
2NO	20

Accessories

Description	Reference
Line spacer for UL508 Type E	LU9SPO
Current limiter 130kA@460V	LUALB1

*Suitable with 24V DC starter variant only

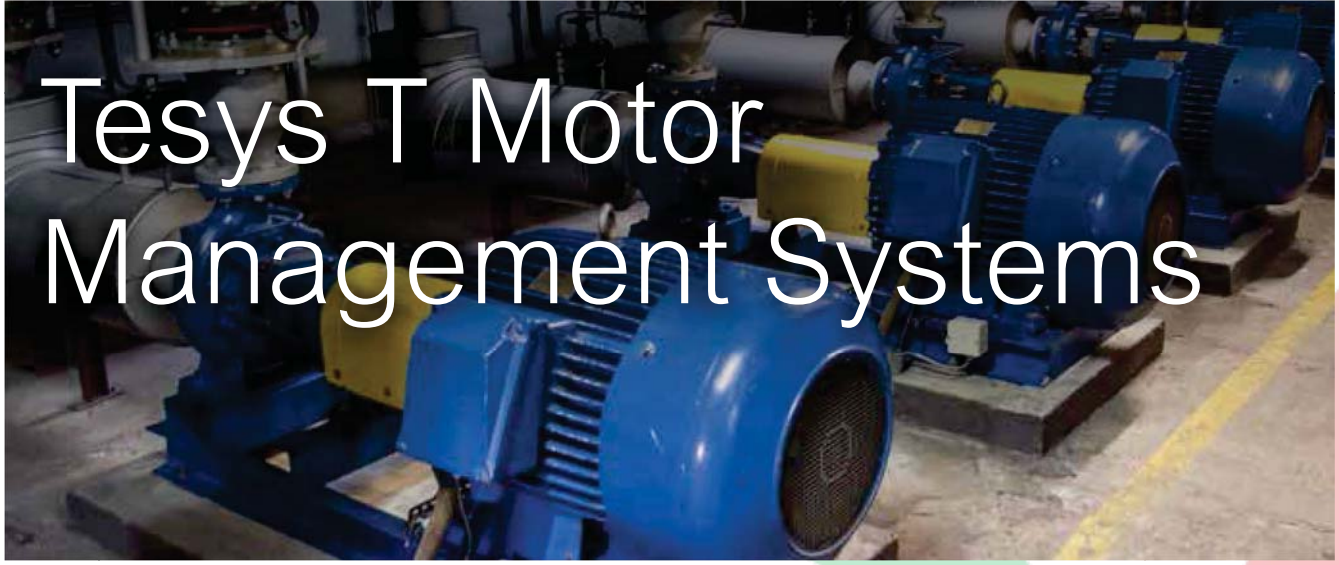
Note: For prices please contact regional sales office or customer care centre

W.E.F. January 30th, 2023

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:

DeviceNet, CANopen, PROFIBUS, EtherNet/IP, Modbus / TCP

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

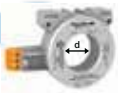
Length (m)	Reference
0.04	LTMCC004[3]

[3] Sold in lots of 6

Controller to Display Cable

Length (m)	Reference
1.0	LTM9CU10
3.0	LTM9CU30

Ground Fault CT's



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

Current Transformers[4]

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

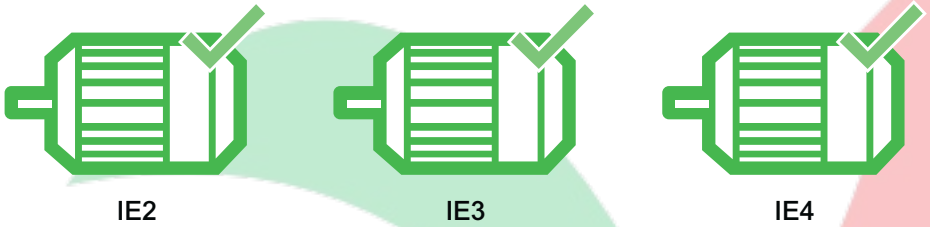
Description	Composition	Reference
Programming software SoMove	1 Program for each PC	On request
PC connecting cable	USB to RS485 Converter	TCSMCNAM3M002P

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

Type 2 Co-ordination chart with TeSys range

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

Reliable switching for IE2/IE3/IE4 motors



Rated operational voltage, Ue = 400/415V, 50/60Hz
Short Circuit Current (Iq) = 50kA

Sr. No.	3Φ Motor power in kW	Current in A	Circuit Breaker	Setting range of thermal trips (A)	Contactor
1	0.06	0.2	GV2P02 or GV2ME02	0.16…0.25	LC1D09
2	0.09	0.3	GV2P03 or GV2ME03	0.25…0.4	LC1D09
3	0.12	0.44	GV2P04 or GV2ME04	0.4…0.63	LC1D09
4	0.18	0.6	GV2P04 or GV2ME04	0.4…0.63	LC1D09
5	0.25	0.85	GV2P05 or GV2ME05	0.63…1	LC1D09
6	0.37	1.0	GV2P05 or GV2ME05	0.63…1	LC1D09
7	0.55	1.5	GV2P06 or GV2ME06	1…1.6	LC1D09
8	0.75	1.9	GV2P07 or GV2ME07	1.6…2.5	LC1D09
9	1.1	2.7	GV2P08 or GV2ME08	2.5…4	LC1D09
10	1.5	3.6	GV2P08 or GV2ME08	2.5…4	LC1D09
11	2.2	4.9	GV2P10 or GV2ME10	4…6.3	LC1D09
12	3	6.5	GV2P14 or GV2ME14	6…10	LC1D09
13	4	8.5	GV2P14 or GV2ME14	6…10	LC1D09
14	5.5	11.5	GV2P16	9…14	LC1D25
15	7.5	15.5	GV2P20	13…18	LC1D25
16	9	18.1	GV2P21	17…23	LC1D25
17	11	22	GV2P22	20…25	LC1D25
18	15	29	GV2P32	25…40	LC1D32
19	18.5	35	GV3P40	30…40	LC1D50A
20	22	41	GV3P50	37…50	LC1D50A
21	30	55	GV3P65	48…65	LC1D65A
22	37	66	GV4PE/PEM80*(2)	62…73	LC1D80
23	45	80	GV4PE/PEM115*(2)	65…115	LC1D115
24	55	97	GV4PE/PEM115*(2)	65…115	LC1D115
25	75	132	GV5P150*(2)	70...150	LC1D150
26	90	160	GV5P220*(2)	100...220	LC1G185
27	110	195	GV5P220*(2)	100...220	LC1G225
28	132	230	GV6P320*(2)	160...320	LC1G265
29	160	280	GV6P320*(2)	160...320	LC1G330
30	220	385	GV6P500*(2)	250...500	LC1G500
31	250	450	GV6P500*(2)	250...500	LC1G500

(1) The breaking performance of circuit-breakers GV2 P can be increased by adding a current limiter GV1 L3
(2) Reference to be completed by replacing the * with the breaking performance code as per table given below:

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

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

Type 2 Co-ordination chart

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

Reliable switching for IE2/IE3/IE4 motors

IE2 IE3 IE4

Rated operational voltage, Ue = 400/415V, 50/60Hz
Short Circuit Current (Iq) = 50kA

Sr. No.	3Φ Motor power in kW	Current in Amps	Circuit Breaker	Contactor	Overload relay	
					Type	Range (A)
1	0.06	0.2	GV2L03 or GV2LE03	LC1D09	LRD02	0.16…0.25
2	0.09	0.3	GV2L03 or GV2LE03	LC1D09	LRD03	0.25…0.40
3	0.12	0.44	GV2L04 or GV2LE04	LC1D09	LRD04	0.4…0.63
4	0.18	0.6	GV2L04 or GV2LE04	LC1D09	LRD04	0.4…0.63
5	0.25	0.85	GV2L05 or GV2LE05	LC1D09	LRD05	0.63…1
6	0.37	1.0	GV2L05 or GV2P06	LC1D09	LRD05	0.63…1
7	0.55	1.5	GV2L06 or GV2LE06	LC1D09	LRD06	1…1.7
8	0.75	1.9	GV2L07 or GV2LE07	LC1D09	LRD07	1.6…2.5
9	1.1	2.7	GV2L08 or GV2LE08	LC1D09	LRD08	2.5…4
10	1.5	3.6	GV2L08 or GV2LE08	LC1D09	LRD08	2.5…4
11	2.2	4.9	GV2L10 or GV2LE10	LC1D09	LRD10	4…6
12	3	6.5	GV2L14 or GV2LE14	LC1D09	LRD12	5.5…8
13	4	8.5	GV2L14 or GV2LE14	LC1D09	LRD14	7…10
14	5.5	11.5	GV2L16	LC1D25	LRD16	9…13
15	7.5	15.5	GV2L20	LC1D25	LRD21	12…18
16	9	18.1	GV2L22	LC1D25	LRD22	16…24
17	11	22	GV2L22	LC1D25	LRD22	16…24
18	15	29	GV3L32	LC1D40A	LRD332	23…32
19	18.5	35	GV3L40	LC1D50A	LRD340	30…40
20	22	41	GV3L50	LC1D50A	LRD350	37…50
21	30	55	GV3L65	LC1D65A	LRD365	48…65
22	37	66	GV4L/LE80*(1)	LC1D80	LRD3363	63…80
23	45	80	GV4L/LE115*(1)	LC1D115	LR9D5367	60…100
24	55	97	GV4L/LE115(1)	LC1D115	LR9D5369	90…150
25	75	132	NSX160*MA(1)	LC1D150	LR9D5369	90…150
26	90	160	NSX250*MA(1)	LC1G185	LR9G225	57…225
27	110	195	NSX250*MA(1)	LC1G225	LR9G225	57…225
28	132	230	NSX400* + Mic 1.3M(1)	LC1G265	LR9G500	125…500
29	160	280	NSX400* + Mic 1.3M(1)	LC1G330	LR9G500	125…500
30	200	350	NSX630* + Mic 1.3M(1)	LC1G400	LR9G500	125…500
31	220	388	NSX630* + Mic 1.3M(1)	LC1G500	LR9G500	125…500
32	250	430	NSX630* + Mic 1.3M(1)	LC1G500	LR9G500	125…500

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

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

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

Type 2 Co-ordination chart

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

Reliable switching for IE2/IE3/IE4 motors

IE2

IE3

IE4

Rated operational voltage, Ue = 400/415V, 50/60Hz
Short Circuit Current (Iq) = 50kA

Sr. No.	3Φ Motor power in kW	Line current in Amps	Phase current in Amps	Circuit Breaker	Main/Delta Contactor	Star Contactor	Overload Relay	
							Type	Range (A)
1	5.5	11.5	6.6	GV2L16	LC1D25	LC1D09	LRD12	5.5..8
2	75	15.5	8.9	GV2L20	LC1D25	LC1D09	LRD14	7..10
3	9	18.1	10.5	GV2L22	LC1D25	LC1D09	LRD16	9..13
4	11	22	12.7	GV2L22	LC1D25	LC1D09	LRD21	12..18
5	15	29	16,7	GV3L32	LC1D40A	LC1D09	LRD318	12..18
6	18.5	35	20.2	GV3L40	LC1D50A	LC1D09	LRD325	17..25
7	22	41	23.7	GV3L50	LC1D50A	LC1D18	LRD332	23..32
8	30	55	31.8	GV3L65	LC1D65A	LC1D18	LRD340	30..40
9	37	66	38.1	GV3L73	LC1D80A	LC1D32	LRD350	37..50
10	37	66	38.1	GV4L/LE80*(1)	LC1D80A	LC1D32	LRD3357	37..50
11	45	80	46.2	GV4L/LE115*(1)	LC1D115	LC1D65A	LRD3357	37..50
12	55	97	56	GV4L/LE115*(1)	LC1D115	LC1D65A	LRD3359	48...65
13	75	132	76.2	NSX160*MA150(1)	LC1D150	LC1D65A	LR9D5367	60 ... 100
14	90	160	92.4	NSX250*MA220(1)	LC1G115	LC1D65	LR9G115	28 ... 115
15	110	195	112.6	NSX250*MA220(1)	LC1G150	LC1D80	LR9G225	57 ... 225
16	132	230	132.8	NSX400*Mic 1.3M(1)	LC1G150	LC1D80	LR9G225	57 ... 225
17	160	280	161.7	NSX400*Mic 1.3M(1)	LC1G185	LC1D115	LR9G225	57 ... 225
18	200	350	202.1	NSX630*Mic 1.3M(1)	LC1G225	LC1G150	LR9G225	57 ... 225
19	220	388	224	NSX630*Mic 1.3M(1)	LC1G265	LC1G150	LR9G500	125 ... 500
20	250	430	248.3	NSX630*Mic 1.3M(1)	LC1G265	LC1G150	LR9G500	125 ... 500

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

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

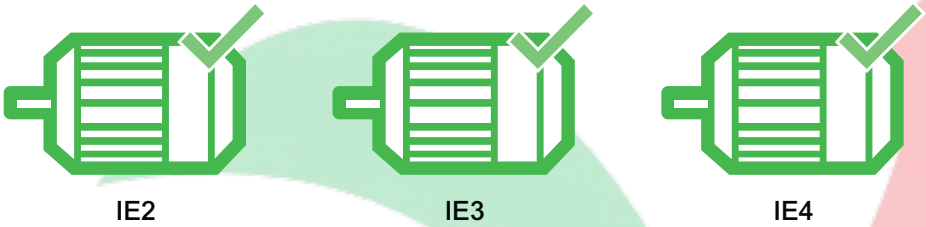
For advanced protection, protection with Electronic Overcurrent Relays, heavy starting, please contact our sales teams.

W.E.F. January 30th, 2023

Type 2 Co-ordination chart

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

Reliable switching for IE2/IE3/IE4 motors



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

Sr. No.	3Φ Motor power in kW	Line current in Amps	Phase current in Amps	Iq (kA)	Circuit Breaker	Main/Delta Contactor	Star Contactor
1	5,5	11.5	6.6	50	GV2P16	LC1D25	LC1D09
2	7,5	15.5	8.9	50	GV2P20	LC1D25	LC1D09
3	9	18.1	10.5	50	GV2P21	LC1D25	LC1D09
4	11	22	12.7	50	GV2P22	LC1D25	LC1D09
5	15	29	16,7	50	GV3P32	LC1D40A	LC1D09
6	18,5	35	20.2	50	GV3P40	LC1D50A	LC1D09
7	22	41	23.7	50	GV3P50	LC1D50A	LC1D18
8	30	55	31.8	50	GV3P65	LC1D65A	LC1D32
9	37	66	38.1	50	GV3P73	LC1D80A	LC1D32
10	37	66	38.1	70	GV4PE/PEM80*(1)	LC1D80A	LC1D32
11	45	80	46.2	70	GV4PE/PEM115*(1)	LC1D115	LC1D65A
12	55	97	56.0	70	GV4PE/PEM115*(1)	LC1D115	LC1D65A
13	75	132	76.2	70	GV5P150*(1)	LC1 D150	LC1D150
14	90	160	92.4	70	GV5P220*(1)	LC1 G115	LC1D65
15	110	195	112.6	70	GV5P220*(1)	LC1 G150	LC1D80
16	132	230	132.8	70	GV6P320*(1)	LC1G150	LC1D95
17	160	280	161.7	70	GV6P320*(1)	LC1G185	LC1G115
18	220	388	224.0	70	GV6P500*(1)	LC1G265	LC1G150
19	250	430	248.3	70	GV6P500*(1)	LC1G265	LC1G150

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

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

W.E.F. January 30th, 2023

Type 2 Co-ordination chart

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

Reliable switching for IE2/IE3/IE4 motors

IE2

IE3

IE4

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

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

Performance Iq (kA) at 415V

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

Type 2 Co-ordination chart

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

Reliable switching for IE2/IE3/IE4 motors

IE2 IE3 IE4

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

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

Performance Iq (kA) at 415V

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

Type 2 Co-ordination chart with TeSys range (With TeSys G Contactors and Relays)

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

Reliable switching for IE2/IE3/IE4 motors

IE2

IE3

IE4

Rated operational voltage, Ue = 400/415V, 50/60Hz
Short Circuit Current (Iq) = 50kA

45 to 250 kW at 400/415V: type 2 coordination (with ref. GV4, GV5, GV6 circuit breakers)							
Sr. No.	Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor
	400/415V			Reference(1)	Ir Setting	Irm	Reference
	P	Ie	Iq (max)				
	kW	A	kA		A	A	
1	45	80	100	GV4P/GV4PE/GV4PEM115●	86	1118	LC1G115
2	55	97	100	GV4P115●	100	1300	LC1G115
3	55	97	70	GV5P150●	100	1300	LC1G115
4	75	132	70	GV5P150●	140	1820	LC1G150
5	90	160	70	GV5P220●	170	2210	LC1G185
6	110	195	70	GV5P220●	200	2600	LC1G225
7	110	195	70	GV6P320●	200	2600	LC1G265
8	132	230	70	GV6P320●	240	3120	LC1G265
9	160	280	70	GV6P320●	300	3900	LC1G330
10	200	350	70	GV6P500●	380	4940	LC1G400
11	220	380	70	GV6P500●	400	5200	LC1G500
12	250	430	70	GV6P500●	440	5720	LC1G500

(1) Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance Iq (kA)

Code	GV4P/GV4PE/GV4PEM115●			GV5P150●/ 220● GV6P320●/ 500●	
	B	N	S	F	H
400/415V	25	50	100	36	70

Type 2 Co-ordination chart with TeSys range (With TeSys G Contactors and Relays)

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

Reliable switching for IE2/IE3/IE4 motors

Rated operational voltage, Ue = 400/415V, 50/60Hz
Short Circuit Current (Iq) = 50kA

45 to 335 kW at 400/415V: type 2 coordination (with ref GV4, or NSX circuit breakers)

Sr. No.	Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor	Contactor	
	400/415V			Reference(1)	Irm	Reference	Reference	Ir Setting
	P	Ie	Iq (max)					
	kW	A	kA		A			A
1	45	80	100	GV4L/GV4LE115●	1265	LC1G115	LR9G115	80
2	55	97	100	GV4L/GV4LE115●	1100	LC1G115	LR9G225	80
3	45	80	130	NSX100● + MA	1265	LC1G115	LR9G115	97
4	55	97	130	NSX160● + MA	1500	LC1G115	LR9G225	97
5	75	132	130	NSX160● + MA	1800	LC1G150	LR9G225	132
6	90	160	130	NSX250● + MA	2640	LC1G185	LR9G225	160
7	110	195	130	NSX250● + MA	2640	LC1G225	LR9G225	195
8	110	195	130	NSX400● + Micrologic 1.3M	3520	LC1G265	LR9G500	195
9	132	230	130	NSX400● + Micrologic 1.3M	3520	LC1G265	LR9G500	230
10	160	280	130	NSX400● + Micrologic 1.3M	3840	LC1G330	LR9G500	280
11	200	350	130	NSX630● + Micrologic 1.3M	5500	LC1G400	LR9G500	350
12	220	380	130	NSX630● + Micrologic 1.3M	5500	LC1G500	LR9G500	380
13	250	430	130	NSX630● + Micrologic 1.3M	6000	LC1G500	LR9G500	430
14	300	460	130	NS800● + Micrologic 5	8800	LC1G630	LR9G630	460
15	335	575	130	NS800● + Micrologic 5	9600	LC1G630	LR9G630	575

(1) Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance Iq (kA)

Code	GV4L115●/ GV4LE115●			NSX100●/ NSX160●/ NSX250●/ NSX400●/ NSX630●				NS800●		
	B	N	S	F	N	H	R	N	H	L
400/415V	25	50	100	36	50	70	200	50	70	150

Magnetic circuit breakers + Contactor + TeSys T + current transformers

90 to 250 kW at 400/415V: type 2 coordination

Sr. No.	Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor	TeSys T Motor management controller		Current transformers
	400/415V			Reference(1)	Rating Irm	Reference	Reference (2)	Ir Setting	Reference
	P	Ie	Iq (max)						
	kW	A	kA		A			A	
1	90	160	130	NSX250● + MA	2200	LC1G185	LTMR08●●	160	LT6CT2001
2	110	195	130	NSX250● + MA	2640	LC1G225	LTMR08●●	195	LT6CT2001
3	132	230	130	NSX400● + Micrologic 1.3M	3200	LC1G265	LTMR08●●	230	LT6CT4001
4	150	280	130	NSX400● + Micrologic 1.3M	3840	LC1G330	LTMR08●●	280	LT6CT4001
5	200	350	130	NSX630● + Micrologic 1.3M	5000	LC1G400	LTMR08●●	350	LT6CT4001
6	220	388	130	NSX630● + Micrologic 1.3M	5500	LC1G500	LTMR08●●	388	LT6CT4001
7	250	430	130	NSX630● + Micrologic 1.3M	6000	LC1G500	LTMR08●●	430	LT6CT8001

(1) Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance Iq (kA)

Code	NSX250●/ NSX400●/ NSX630●			
	F	N	H	R
400/415V	36	50	70	200

W.E.F. January 30th, 2023

Type 2 Co-ordination chart with TeSys range (With TeSys G Contactors and Relays)

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

Reliable switching for IE2/IE3/IE4 motors

IE2 IE3 IE4

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

Contactor: **Maximum operating rate**: 30 starts/hour - **Maximum starting time**: 30 seconds.
The coordination table is for normal starting conditions (Class 10e/ 20e). For other heavy starting applications with long start times, please contact techncial support.
RE17RMMWS timer to be used for Star-Delta starter application.

90 to 250 kW at 400/415V: type 2 coordination

Sr. No.	Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Circuit breaker			Contactor Line/ Delta	Contactor Star
	400/415V			Reference(1)	Ir Setting	Irm	Reference	
	P	Ie	Iq (max)					
	kW	A	kA		A	A		
1	90	160	70	GV5P220●	170	1360	LC1G115	LC1D65
2	110	195	70	GV5P220●	200	1600	LC1G150	LC1D80
3	110	195	70	GV6P320●	200	1600	LC1G150	LC1D80
4	132	230	70	GV6P320●	240	1920	LC1G150	LC1D95
5	160	280	70	GV6P320●	300	2400	LC1G185	LC1G115
6	200	350	70	GV6P500●	380	3040	LC1G225	LC1G115
7	220	380	70	GV6P500●	400	3200	LC1G265	LC1G150
8	250	430	70	GV6P500●	440	3520	LC1G265	LC1G150

(1) Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance Iq (kA)

Code	GV5P220● GV6P320●/GV6P500●	
	F	H
400/415V	36	70

90 to 450 kW at 400/415V: type 2 coordination

Sr. No.	Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Circuit breaker			Contactor Line/ Delta	Contactor Star
	400/415V			Reference(1)	Ir Setting	Irm	Reference	
	P	Ie	Iq (max)					
	kW	A	kA		A	A		
1	90	160	130	NSX250● + Micrologic 2.2M	170	1360	LC1G115	LC1D65
2	110	195	130	NSX250● + Micrologic 2.2M	200	1600	LC1G150	LC1D80
3	110	195	130	NSX400● + Micrologic 2.3M	200	1600	LC1G150	LC1D80
4	132	230	130	NSX400● + Micrologic 2.3M	240	1920	LC1G150	LC1D95
5	160	280	130	NSX400● + Micrologic 2.3M	300	2400	LC1G185	LC1G115
6	200	350	130	NSX630● + Micrologic 2.3M	380	3040	LC1G225	LC1G115
7	220	380	130	NSX630● + Micrologic 2.3M	400	3200	LC1G265	LC1G150
8	250	430	130	NSX630● + Micrologic 2.3M	440	3520	LC1G265	LC1G150
9	300	460	130	NS800● + Micrologic 5	480	3840	LC1G330	LC1G185
10	335	575	130	NS800● + Micrologic 5	640	5120	LC1G400	LC1G225
11	355	610	130	NS800● + Micrologic 5	640	5120	LC1G400	LC1G225
12	400	690	130	NS800● + Micrologic 5	720	5760	LC1G500	LC1G265
13	450	770	130	NS1000● + Micrologic 5	784	6272	LC1G500	LC1G330

(1) Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance Iq (kA)

Code	NSX250●/ NSX400●/ NSX630●				NS800●/ NS1000●		
	F	N	H	R	N	H	L
400/415V	36	50	70	200	50	70	150

W.E.F. January 30th, 2023

Type 2 Co-ordination chart with TeSys range (With TeSys G Contactors and Relays)

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

Reliable switching for IE2/IE3/IE4 motors

IE2 IE3 IE4

Contactor: **Maximum operating rate**: 30 starts/hour - **Maximum starting time**: 30 seconds.
The coordination table is for normal starting conditions (Class 10e/ 20e). For other heavy starting applications with long start times, please contact techncial support.
RE17RMMWS timer to be used for Star-Delta starter application.

90 to 450 kW at 400/415V: type 2 coordination

Sr. No.	Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Circuit breaker		Contactor Line/ Delta	Contactor Star	Thermal overload relay	
	400/415V			Reference(1)	Irm	Reference		Reference	Setting range
	P	Ie	Iq (max)						
	kW	A	kA		A				A
1	90	160	130	NSX250● + MA	1980	LC1G115	LC1D65	LR9G115	92
2	110	195	130	NSX250● + MA	1980	LC1G150	LC1D80	LR9G225	113
3	110	195	130	NSX400● + Micrologic 1.3M	1920	LC1G150	LC1D80	LR9G225	113
4	132	230	130	NSX400● + Micrologic 1.3M	1920	LC1G150	LC1D80	LR9G225	133
5	160	280	130	NSX400● + Micrologic 1.3M	2560	LC1G185	LC1G115	LR9G225	162
6	200	350	130	NSX630● + Micrologic 1.3M	3000	LC1G225	LC1G150	LR9G225	202
7	220	380	130	NSX630● + Micrologic 1.3M	3500	LC1G265	LC1G150	LR9G500	219
8	250	430	130	NSX630● + Micrologic 1.3M	3500	LC1G265	LC1G150	LR9G500	248
9	300	460	130	NS800● + Micrologic 5	4000	LC1G330	LC1G185	LR9G500	266
10	335	575	130	NS800● + Micrologic 5	4800	LC1G400	LC1G225	LR9G500	332
11	355	610	130	NS800● + Micrologic 5	5600	LC1G400	LC1G225	LR9G500	352
12	400	627	130	NS800● + Micrologic 5	5600	LC1G400	LC1G225	LR9G500	362
13	450	695	130	NS800● + Micrologic 5	6400	LC1G500	LC1G265	LR9G500	401

(1) Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance Iq (kA)

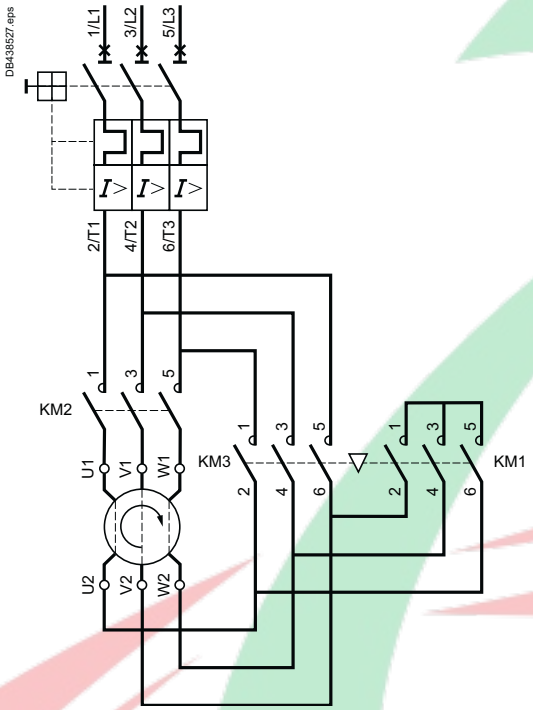
Code	NSX250●/ NSX400●/ NSX630●				NS800●		
	F	N	H	R	N	H	L
400/415V	36	50	70	200	50	70	150

W.E.F. January 30th, 2023

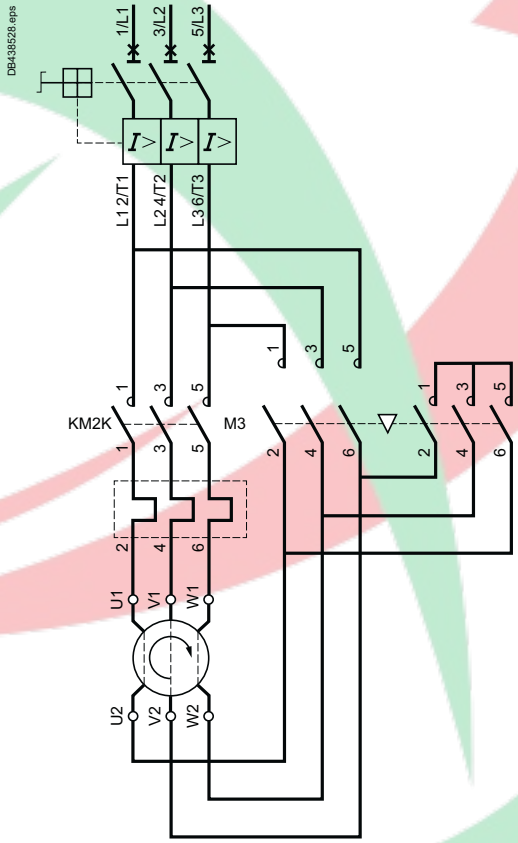
Coordination tables
Star-Delta motor starter - Common circuit diagrams

Star-Delta motor 'Power' circuit diagram

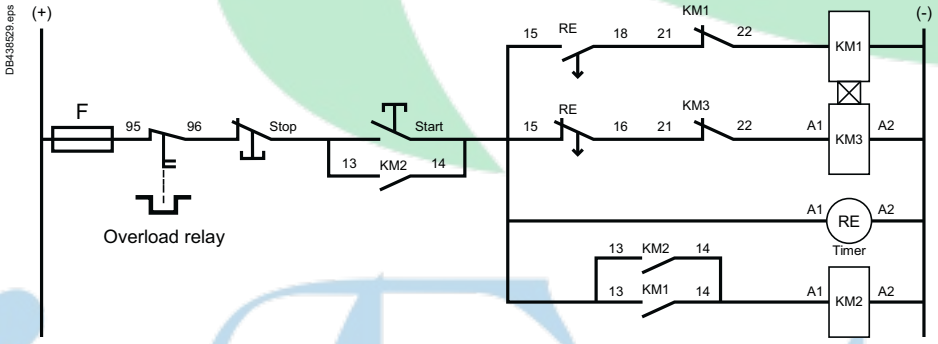
Thermal magnetic circuit breaker + contactors



Magnetic circuit breaker + contactors + overload relay



Star-Delta Motor 'Control' circuit diagram



Recommended timing relay (RE): Zelio Time ref. RE17RMMW (12...240 V AC/DC 50/60 Hz – 8 A AC/DC contacts)

Type 2 Recommended Selection Charts for Motor Feeder with EasyPact

Notes:

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

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

Selection Chart

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

Reliable switching for IE2/IE3 motors

Rated Operational Voltage, Ue = 400/415V, 50/60Hz
Short Circuit Current Iq = 50kA

Type-2 Recommended Selection

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

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

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Selection Chart

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

Reliable switching for IE2/IE3 motors

IE2 IE3

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

Type-2 Recommended Selection

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

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

Type-2 Recommended Selection

Sr. No.	P (kW)	Ie (A)	Ie/1,73 (A)	Circuit Breaker	Main/Delta Contactor	Star Contactor	Thermal Overload Relay	
1	0.09	0.4	0.2	GZ1LE03	LC1E09	LC1E09	LRE02	0.16...0.25
2	0.18	0.63	0.4	GZ1LE04	LC1E09	LC1E09	LRE03	0.25...0.40
3	0.25	1	0.6	GZ1LE05	LC1E09	LC1E09	LRE04	0.4...0.63
4	0.37	1.4	0.8	GZ1LE06	LC1E09	LC1E09	LRE05	0.63...1
5	0.75	2.2	1.3	GZ1LE07	LC1E09	LC1E09	LRE06	1...1.6
6	1.5	3.8	2.2	GZ1LE08	LC1E09	LC1E09	LRE07	1.6...2.5
7	2.2	5.1	2.9	GZ1LE10	LC1E18	LC1E09	LRE08	2.5...4
8	4	8.5	4.9	GZ1LE14	LC1E25	LC1E09	LRE10	4...6
9	5.5	11.4	6.6	GZ1LE16	LC1E32	LC1E09	LRE12	5.5...8
10	7.5	15.4	8.9	GZ1LE20	LC1E32	LC1E09	LRE14	7...10
11	9.3	17.3	10.0	GZ1LE22	LC1E40B	LC1E18	LRE16	9...13
12	11	22	12.7	GZ1LE22	LC1E40B	LC1E18	LRE16	9...13
13	15	30	17.3	GZ1LE32	LC1E50	LC1E18	LRE21	12...18

W.E.F. January 30th, 2023

Selection Chart

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

Reliable switching for IE2 motors

IE2

Rated Operational Voltage, Ue = 400/415V, 50/60Hz
Short Circuit Current Iq = 50kA

Type-2 Recommended Selection

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

* Relay can match with contactor electrically (i.e Cannot be directly mounted), rest all relays are suitable for direct mounting as per catalogue.
** Selection valid upto Trip class 10/10A, Contact nearest sales office for details of EOCR to be used with this selection charts.

Selection Chart

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

Reliable switching for IE2 motors

IE2

Rated Operational Voltage, Ue = 400/415V, 50/60Hz
Short Circuit Current Iq = 50kA

Type-2 Recommended Selection

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

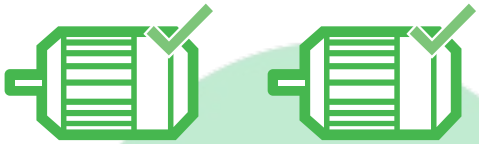
* Relay can match with contactor electrically (i.e Cannot be directly mounted), rest all relays are suitable for direct mounting as per catalogue. Use alternate suggested for direct mounting.
**Selection valid upto Trip class 10/10A, Contact nearest sales office for details of EOCR to be used with this selection charts.
For guaranteed performance, Motor feeders built using this chart must make use of MSMI06 or equivalent Schneider Electric make timer only.

W.E.F. January 30th, 2023

Selection Chart

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

Reliable switching for IE2/IE3 motors



Rated Operational Voltage, Ue = 400/415V, 50/60Hz
Short Circuit Current Iq = 50kA

Type-2 Recommended Selection

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

* Relay can match with contactor electrically (i.e Cannot be directly mounted), rest all relays are suitable for direct mounting as per catalogue. Use alternate suggested for direct mounting.
** Selection valid upto Trip class 10/10A, Contact nearest sales office for details of EOCR to be used with this selection charts.

W.E.F. January 30th, 2023

Selection Chart

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

Reliable switching for IE2/IE3 motors

IE2

IE3

Rated Operational Voltage, Ue = 400/415V, 50/60Hz
Short Circuit Current Iq = 50kA

Type-2 Recommended Selection

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

* Relay can match with contactor electrically (i.e Cannot be directly mounted), rest all relays are suitable for direct mounting as per catalogue. Use alternate suggested for direct mounting.
**Selection valid upto Trip class 10/10A, Contact nearest sales office for details of EOCR to be used with this selection charts.
For guaranteed performance, Motor feeders built using this chart must make use of MSMI06 or equivalent Schneider Electric make timer only.

Note

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