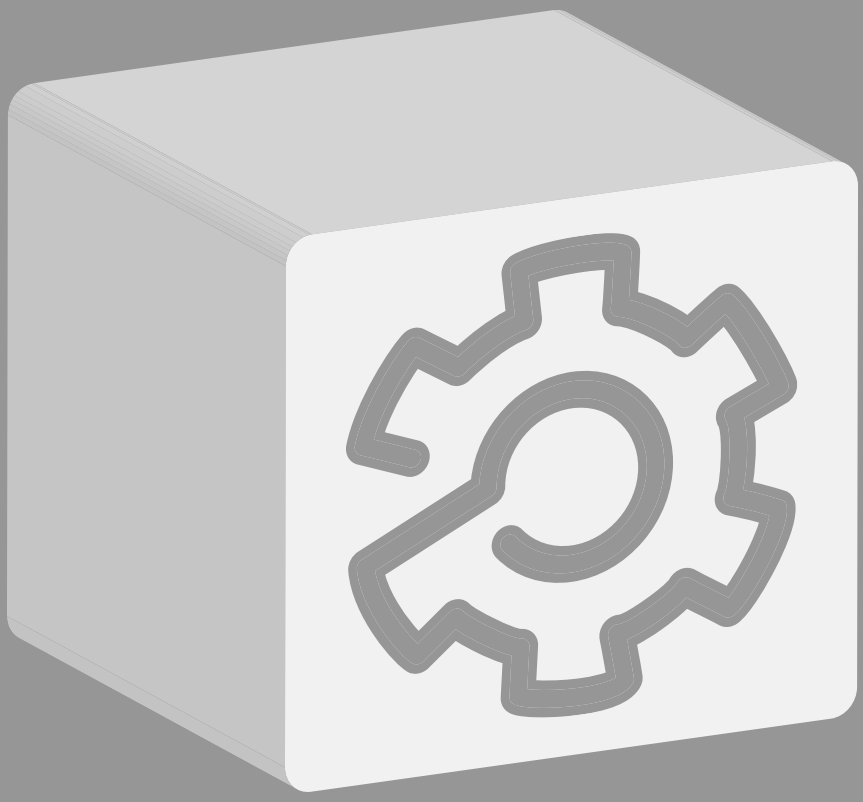
Price List

# Power Control and Protection Products

With effect from February 01, 2013



Schneider Electric

## Total leadership

**> Innovative > Reliable > Simple**

# Power Control and Protection

* More than 85 year of continuing innovation

EasyPact TVS



TeSys Starter Solutions



Industrial Starters



TeSys T Motor Management System



K Contactors



TeSys U Compact Motor Starter



D Contactors



F Contactors



Electronic Motor Protection Relays



Bar Contactors



LR Thermal Relays



Switches/ Fuse Disconnector



GV7 Circuit Breakers



GV2 Circuit Breakers



GV3 Circuit Breakers



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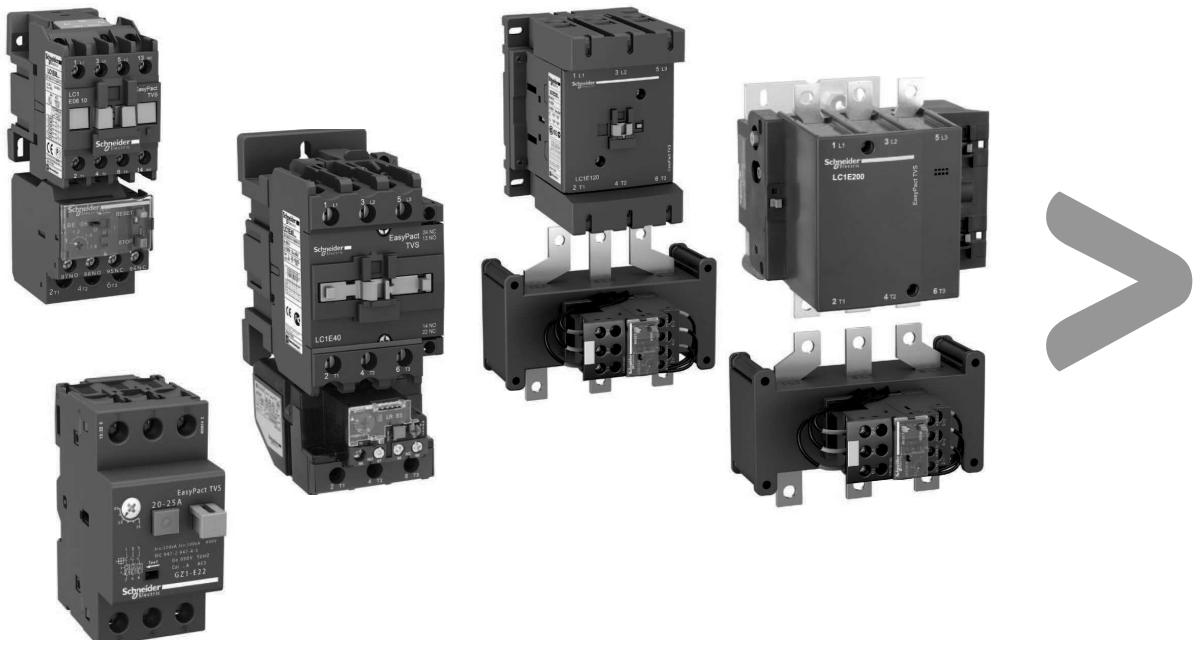
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# EasyPact TVS NEW

## The Easy choice for **simplicity** and **flexibility**

- 3 Pole Power Contactor
- Thermal Overload Relay
- Motor Protection Circuit Breaker
- Accessories



# EasyPact TVS NEW

## Power Contactors LC1E (3 Pole AC Control)



- Conformance to IEC 60947-4-1, CE Marking
- Current Rating: 6A to 300A
- Safety & Reliability
- Type 2 co-ordinations available with Fuse and MPCB.
- Ambient Temperature upto 60°C.

| [Ie] Rated Operational Current | | Motor Power at 415 V, 3Ph, 50Hz | | Auxiliary Contacts | | Reference | Unit MRP [₹] |
|---|---|---|---|---|---|---|---|
| AC-1 | AC-3 | hp | kW | NO | NC | | |
| 20 A | 6 A | 3 | 2.2 | - | 1 | LC1E0601* ☑ | 750 |
| | | | | 1 | - | LC1E0610* ☑ | |
| 25 A | 9 A | 5.5 | 4 | - | 1 | LC1E0901* ☑ | 765 |
| | | | | 1 | - | LC1E0910* ☑ | |
| 25 A | 12 A | 7.5 | 5.5 | - | 1 | LC1E1201* ☑ | 865 |
| | | | | 1 | - | LC1E1210* ☑ | |
| 32 A | 18 A | 12 | 9 | - | 1 | LC1E1801* ☑ | 975 |
| | | | | 1 | - | LC1E1810* ☑ | |
| 36A | 25 A | 15 | 11 | - | 1 | LC1E2501* ☑ | 1440 |
| | | | | 1 | - | LC1E2510* ☑ | |
| 50 A | 32 A | 20 | 15 | - | 1 | LC1E3201* ☑ | 2910 |
| | | | | 1 | - | LC1E3210* ☑ | |
| 50 A | 38 A | 25 | 18.5 | - | 1 | LC1E3801* ☑ | 3760 |
| | | | | 1 | - | LC1E3810* ☑ | |
| 60 A | 40 A | 29 | 22 | 1 | 1 | LC1E40* ☑ | 4260 |
| 70 A | 50 A | 34 | 25/30 | 1 | 1 | LC1E50* | 5600 |
| 80 A | 65 A | 50 | 37 | 1 | 1 | LC1E65* ☑ | 7695 |
| 110A | 80 A | 60 | 45 | 1 | 1 | LC1E80* ☑ | 9330 |
| 120 A | 95 A | 60 | 45 | 1 | 1 | LC1E95* ☑ | 11035 |
| 150 A | 120 A | 75 | 55 | 1 | 1 | LC1E120* | 13165 |
| 200 A | 160 A | 120 | 90 | 1 | 1 | LC1E160* | 17300 |
| 250 A | 200 A | 150 | 110 | - | - | LC1E200* | 25025 |
| 300 A | 250A | 175 | 132 | - | - | LC1E250* | 29110 |
| 320 A | 300 A | 215 | 160 | - | - | LC1E300* | 35505 |

## Control Relays CAE

| Auxiliary Contacts | | Reference | Unit MRP [₹] |
|---|---|---|---|
| NO | NC | | |
| 4 | 0 | CAE40* | 875 |
| 3 | 1 | CAE31* | |
| 2 | 2 | CAE22* | |

While ordering a Contactor and Control Relays, please specify Reference and coil voltage

| * VOLTAGE | 24 | 110 | 220 | 240 | 415 |
|---|---|---|---|---|---|
| Standard contactor | B5 | F5 | M5 | U5 | N5 |
| Wide band coil contactor | - | - | M5WB | - | N5WB |

Non Standard Voltage/code: 48 VAC/E5, 380 VAC/Q5, 440 VAC/R5
Please add ₹ 85/- while ordering Contactors with Non Standard Voltages.
Please add ₹ 85/- for wide band coil contactor from 9A to18A ( 65% Uc 120%) & ₹110/- for 25A to 38A ( 70% Uc 120%)

Please contact Customer Care Center for Stockable and Non stockable status of references.

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W.E.F. February 01, 2013

# EasyPact TVS NEW

## Thermal Overload Relay



- Conformance to IEC 60947-4-1, CE Marking
- Trip Class: 10A

| Thermal Protection Adjustment Range | For Use with Contactor | Reference | Unit MRP [₹] |
|---|---|---|---|
| **LRE** | | | |
| 0.1...0.16 A | E06...E38 | LRE01 | 1190 |
| 0.16...0.25 A | E06...E38 | LRE02 | |
| 0.25...0.4 A | E06...E38 | LRE03 | |
| 0.4...0.63 A | E06...E38 | LRE04 | |
| 0.63...1 A | E06...E38 | LRE05 ☑ | |
| 1...1.6 A | E06...E38 | LRE06 ☑ | |
| 1.6...2.5 A | E06...E38 | LRE07 ☑ | |
| 2.5...4 A | E06...E38 | LRE08 ☑ | |
| 4...6 A | E06...E38 | LRE10 ☑ | |
| 5.5...8 A | E09...E38 | LRE12 ☑ | |
| 7...10 A | E09...E38 | LRE14 ☑ | |
| 9...13 A | E12...E38 | LRE16 ☑ | |
| 12...18 A | E18...E38 | LRE21 ☑ | 1360 |
| 16...24 A | E25...E38 | LRE22 ☑ | 1645 |
| 23...32 A | E25...E38 | LRE32 ☑ | 2170 |
| 30...38 A | E38 | LRE35 ☑ | 2585 |
| 17...25 A | E40...E95 | LRE322 | 2590 |
| 23...32 A | E40...E95 | LRE353 | |
| 30...40 A | E40...E95 | LRE355 | |
| 37...50 A | E50...E95 | LRE357 ☑ | |
| 48...65 A | E65...E95 | LRE359 | 3500 |
| 55...70 A | E80...E95 | LRE361 | 3790 |
| 63...80 A | E80...E95 | LRE363 | 3815 |
| 80...104 A | E95 | LRE365 | |
| 58...81 A | E120...E300 | LRE480 | 7460 |
| 62...99 A | E120...E300 | LRE481 | |
| 84...135 A | E120...E300 | LRE482 | |
| 124...198 A | E160...E300 | LRE483 | |
| 146...234 A | E200...E300 | LRE484 | |
| 174...279 A | E250...E300 | LRE485 | |
| 208...333 A | E300 | LRE486 | 8140 |

**Note:** For separate mounting block, for LRE

- For LRE01…LRE35 – terminal block for clip-on Mounting LAEB1 Unit MRP: ₹ 380
- For LRE322…LRE365 – terminal block for clip-on Mounting LAEB3 Unit MRP: ₹ 1160

## Accessories

| For Use With Type LC1E | Control Circuit Voltage | Mounting | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **Add-on Blocks and Star Delta Timer Blocks** | | | | |
| LC1E06...E300 | | Front | LAEN11 ☑ | 205 |
| | | | LAEN20 ☑ | |
| | | | LAEN02 ☑ | |
| | | | LAEN22 ☑ | 360 |
| LC1E25..E300 | | | LAETSD ☑ | 1665 |

## Accessories

| For Use with Type LC1E | Control Circuit Voltage | Reference | Unit MRP [₹] |
|---|---|---|---|
| **Surge Suppressors** | | | |
| LC1E06...E95 | 24..48 V AC | LAERCE | On Request |
| LC1E06...E95 | 50..127 V AC | LAERCG | |
| LC1E06...E95 | 110..240 V AC | LAERCU | |
| LC1E06...E95 | 380..415 V AC | LAERCN | |
| **Mechanical Interlock Blocks** | | | |
| LC1E06..E65 | | LAEM1 | 375 |
| LC1E80/E95 | | LAEM4 | 1460 |
| LC1E120..E160 | | LAEM5 | 2385 |
| LC1E200/E250 | | LAEM6 | 2600 |
| LC1E300 | | LAEM7 | 3085 |

## Spare Coils

| Contactor | Reference | Unit MRP [₹] |
|---|---|---|
| LC1E06…E18 | LAEX1** | 600 |
| LC1E25 | LAEX12** | |
| LC1E32/E38 | LAEX2** | 795 |
| LC1E40/E65 | LAEX3** | 1185 |
| LC1E80/E95 | LAEX4** | 1390 |
| LC1E120/E160 | LAEX5** | 1780 |
| LC1E200/E250 | LAEX6** | 2170 |
| LC1E300 | LAEX7** | 2360 |

| **CODE | F5 | M5 | N5 |
|---|---|---|---|
| VOLTAGE | 110 | 220 | 415 |

**Note:** Please add ₹ 85/- while ordering coil with Non Standard Voltages.

## EasyPact TVS Motor Protection Circuit Breaker



- Conforming to IEC 60947-2-3-4
- CE Marking
- Breaking Capacity up to 100 kA

| Breaking Capacity at 415 V 50 Hz | Motor Power AC3** KW | Motor Power AC3** hP | Thermal Protection Adjustment Range | Reference | Unit MRP [₹] |
|---|---|---|---|---|---|
| **GZ1-E Thermal Magnetic- With Pushbutton control** | | | | | |
| 100 kA | - | - | 0.1 - 0.16 | GZ1E01 | 2240 |
| | 0.06 | - | 0.16 - 0.25 | GZ1E02 | |
| | 0.09 | - | 0.25 - 0.40 | GZ1E03 | |
| | 0.18 | - | 0.40 - 0.63 | GZ1E04 | 2540 |
| | 0.37 | 0.5 | 0.63 – 1.0 | GZ1E05 | |
| | 0.55 | 0.75 | 1.0 – 1.6 | GZ1E06 | 2550 |
| | 0.75 | 1 | 1.6 – 2.5 | GZ1E07 | |
| | 1.1 | 2 | 2.5 – 4 | GZ1E08 | 2640 |
| | 2.2 | 3 | 4 – 6.3 | GZ1E10 | |
| | 3 | 5.5 | 6 – 10 | GZ1E14 | 2660 |
| 10 kA | 5.5 | 7.5 | 9 – 14 | GZ1E16 | 3080 |
| | 7.5 | 10 | 13 – 18 | GZ1E20 | 3310 |
| | 9 | 12.5 | 17 – 23 | GZ1E21 | 3660 |
| | 11 | 15 | 20 – 25 | GZ1E22 | 3810 |
| | 15 | 20 | 24 - 32 | GZ1E32 | 6985 |

## Accessories for Motor Protection Circuit Breaker

| Description | | Reference | Unit MRP [₹] |
|---|---|---|---|
| Side Contact | NO+NC | GZ1AN11 | 635 |
| | NO+NO | GZ1AN20 | 795 |

Please contact Customer Care Center for Stockable and Non stockable status of references.

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Schneider Electric

• Conformance to IEC 60947- 4- 1, IS 13947

## Power Contactors AV1 (Activa)

| [Ie] Rated Operational Current | | Motor Power at 415 V, 3Ph, 50Hz | | Auxiliary Contacts | | Reference | Unit MRP [₹] |
|---|---|---|---|---|---|---|---|
| AC-1 | AC-3 | hp | kW | NO | NC | | |
| 600 A | 400 A | 300 | 220 | 2 | 2 | AV140022* ☑ | 39570 |
| 750 A | 550 A | 364 | 270 | 4 | 4 | AV155044* | 56575 |
| 800 A | 630 A | 502 | 375 | 4 | 4 | AV163044* | 73120 |

While ordering a Contactor, please specify Reference and coil voltage

| * VOLTAGE | 24 | 110 | 220 | 240 | 415 |
|---|---|---|---|---|---|
| Standard contactor | B5 | F5 | M5 | U5 | N5 |

**Note:**
- Non Standard Voltage/code: 48 VAC/E5, 380 VAC/Q5, 440 VAC/R5
- Please add ₹ 85/- while ordering Contactors with Non Standard Voltages.

| Thermal Protection Adjustment Range | For Use with Contactor | Reference | Unit MRP [₹] |
|---|---|---|---|
| **AVR (Activa)** | | | |
| 259...414A | AV1400...550 | AVR387 | 8955 |
| 321...513A | AV1400...550 | AVR388 | |
| 394...630A | AV1550...630 | AVR389 | |

**Note:**
- AVR ( Activa ) relays can only be used with activa contactors.

Please contact Customer Care Center for Stockable and Non stockable status of references.

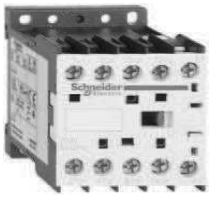
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## Control Relays - K model (AC & DC Control)



- Conformity to International Standards – IEC, UL, CSA
- Inbuilt 4 auxiliary contacts
- 10A thermal rating , AC/DC and DC low consumption coils available

| No of Poles | AC Control Reference | Unit MRP [₹] | DC Control Reference | Unit MRP [₹] | DC low consumption Reference (1) (2) (3) | Unit MRP [₹] |
|---|---|---|---|---|---|---|
| 2NO + 2NC | CA2KN22* | 1005 | CA3KN22** | 1300 | CA4KN22*** | 1515 |
| 3NO + 1NC | CA2KN31* | | CA3KN31** | | CA4KN31*** | |
| 4NO + 0NC | CA2KN40* | | CA3KN40** | | 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

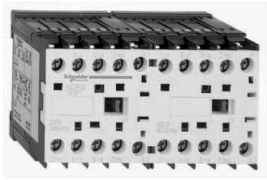
## Power Contactors - K model (3 Pole AC & DC Control)



- Conformity to International Standards – IEC, UL, CSA
- Power contactors from 6 to 16 Amps in AC-3 duty, AC/DC coils
- 1NO or 1NC inbuilt auxiliary contact

| [Ie] Rated Operational Current (A) | Motor Power (kW) | Auxiliary Contacts | AC Control Reference | Unit MRP [₹] | DC Control Reference | Unit MRP [₹] |
|---|---|---|---|---|---|---|
| 6 | 3 | 1 NC | LC1K0601* | 825 | LP1K0601** | 1135 |
| | | 1 NO | LC1K0610* | | LP1K0610** | |
| 9 | 5.5 | 1 NC | LC1K0901* | 885 | LP1K0901** | 1290 |
| | | 1 NO | LC1K0910* | | LP1K0910** | |
| 12 | 7.5 | 1 NC | LC1K1201* | 990 | LP1K1201** | 1410 |
| | | 1 NO | LC1K1210* | | LP1K1210** | |
| 16 | 10 | 1 NC | LC1K1601* | 1105 | - | - |
| | | 1 NO | LC1K1610* | | - | - |

## Reversing Contactors - K model



- Conformity to International Standards – IEC, UL, CSA
- Reversing contactors from 6 to 16 Amps in AC-3 duty , 3 pole versions AC/DC coils
- 1NO or 1NC inbuilt auxiliary contact

| [Ie] Rated Operational Current (A) | Motor Power (kW) | Auxiliary Contacts | AC Control Reference | Unit MRP [₹] |
|---|---|---|---|---|
| 6 | 3 | 1 NC | LC2K0601* | 2505 |
| | | 1 NO | LC2K0610* | |
| 9 | 5.5 | 1 NC | LC2K0901* | 2670 |
| | | 1 NO | LC2K0910* | |
| 12 | 7.5 | 1 NC | LC2K1201* | 2770 |
| | | 1 NO | LC2K1210* | |
| 16 | 10 | 1 NC | LC2K1601* | 2970 |
| | | 1 NO | LC2K1610* | |

## Coil Voltage Code

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

**Note:** For ordering contactors with other coil voltages & frequencies, please add ₹ 135/- to the unit MRP of the standard contactor of the same rating.

Please contact Customer Care Center for Stockable and Non stockable status of references.

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## Accessories - K Model

| Description | Contacts | Reference | Unit MRP [₹] |
|---|---|---|---|
| **Add On Blocks** | | | |
| **Control Relays/Contactors** | | | |
| Auxiliary contact block TeSys | 0 NO + 2 NC | LA1KN02 | 245 |
| | 1 NO + 1 NC | LA1KN11 ☑ | |
| | 2 NO + 0 NC | LA1KN20 | |
| | 0 NO + 4 NC | LA1KN04 | 390 |
| | 1 NO + 3 NC | LA1KN13 | |
| | 2 NO + 2 NC | LA1KN22 ☑ | |
| | 3 NO + 1 NC | LA1KN31 | |
| | 4 NO + 0 NC | LA1KN40 | |
| On Delay Electronic timers - 24...48 V AC/DC, 1...30 s | | LA2KT2E (1) | 1310 |
| On Delay Electronic timers - 110...240 V AC, 1...30 s | | LA2KT2UA(1) | |
| Suppressor module - RC circuit - 220..250 V AC | | LA4KA1U* | 480 |
| Suppressor module - varistor - 130..250 V AC/DC | | LA4KE1UG* | |
| Suppressor module - varistor - 50..129 V AC/DC | | LA4KE1FC* | |

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

## Thermal Overload Relays - LR2-K Model (Direct Mounting)



- Conformity to International Standards – IEC, UL, CSA
- Range available - upto 0.1A to 16A
- Direct mounting on contactors is possible upto 16A

| Thermal Protection Adjustment Range | For Use With | Reference* | Unit MRP [₹] |
|---|---|---|---|
| 0.11...0.16 A | LC1K, LP1K, LP4K, LP2K, LC2K | LR2K0301 | 1275 |
| 0.16...0.23 A | | LR2K0302 | |
| 0.23...0.36 A | | LR2K0303 | |
| 0.36...0.54 A | | LR2K0304 | |
| 0.54...0.8 A | | LR2K0305 | |
| 0.8...1.2 A | | LR2K0306 | |
| 1.2...1.8 A | | LR2K0307 | |
| 1.8...2.6 A | | LR2K0308 | |
| 2.6...3.7 A | | LR2K0310 | |
| 3.7...5.5 A | | LR2K0312 | |
| 5.5...8 A | | LR2K0314 | |
| 8...11.5 A | | LR2K0316 | |
| 10...14 A | | LR2K0321 | 1370 |
| 12...16 A | | LR2K0322 | |

*** Note:** Terminal Block for Clip-on Mounting LA7-K0064 Unit MRP ₹ 445/-

Please contact Customer Care Center for Stockable and Non stockable status of references.

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## TeSys D Control Relays



- Conformity to International standards - IEC, UL, CSA, CE
- Up to 5 inbuilt auxiliary contacts
- High temperature limits.

| No of Poles | AC Control Reference | Unit MRP [₹] | DC Control Reference | Unit MRP [₹] | DC low consumption Reference (1) (2) (3) | Unit MRP [₹] |
|---|---|---|---|---|---|---|
| 3NO+2NC | CAD32* | 970 | CAD32** | 1500 | CAD32*** | 1790 |
| 5NO+0NC | CAD50* | | CAD50** | | CAD50*** | |

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

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



- Conformity to International Standards – IEC, UL, CSA, CE
- 9-150 Amps, 3 and 4 pole versions, AC/DC coils
- High temperature limits
- Different levels of power and control contacts
- Inbuilt 1 NO + 1 NC auxiliary contacts
- High electrical life
- Fuse-less Type 2 Coordination Charts available

| [Ie] Rated Operational Current AC1 | AC3 Duty (Long Life) | | | AC3 Duty (Normal Life) | | | Auxiliary Contacts | AC Control Reference | Unit MRP [₹] | DC Control Reference | Unit MRP [₹] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hP | A | kW | hP | A | | | | | |
| 25 | 4 | 5.5 | 9 | 5.5 | 7.5 | 12 | 1 NO + 1 NC | LC1D09* ☑ | 975 | LC1D09** ☑ | 1495 |
| | 5.5 | 7.5 | 12 | 9 | 12.5 | 18 | 1 NO + 1 NC | LC1D12* ☑ | 1085 | LC1D12** ☑ | 1615 |
| 32 | 9 | 12.5 | 18 | 11 | 15 | 25 | 1 NO + 1 NC | LC1D18* ☑ | 1235 | LC1D18** ☑ | 2110 |
| 40 | 11 | 15 | 25 | 15 | 20 | 32 | 1 NO + 1 NC | LC1D25* ☑ | 1540 | LC1D25** ☑ | 2690 |
| 50 | 15 | 20 | 32 | 22 | 30 | 40 | 1 NO + 1 NC | LC1D32* ☑ | 3195 | LC1D32** ☑ | 5730 |
| | 18.5 | 25 | 38 | - | - | - | 1 NO + 1 NC | LC1D38* ☑ | 4840 | LC1D38** ☑ | 6625 |
| 60 | 22 | 30 | 40 | - | - | - | 1 NO + 1 NC | LC1D40A* ☑ | 5230 | LC1D40A** | 7160 |
| 80 | 25 | 35 | 50 | - | - | - | 1 NO + 1 NC | LC1D50A* ☑ | 6090 | LC1D50A** | 8990 |
| 80 | 37 | 50 | 65 | - | - | - | 1 NO + 1 NC | LC1D65A* ☑ | 8440 | LC1D65A** | 10355 |
| 125 | 45 | 60 | 80 | 55 | 75 | 105 | 1 NO + 1 NC | LC1D80* ☑ | 10730 | LC1D80** | 12880 |
| | 45 | 60 | 95 | 55 | 75 | 110 | 1 NO + 1 NC | LC1D95* | 13075 | LC1D95** | 15560 |
| 250 | 59 | 80 | 115 | - | - | - | 1 NO + 1 NC | LC1D1156* | 15950 | LC1D1156** | 16075 |
| | 80 | 110 | 150 | - | - | - | 1 NO + 1 NC | LC1D1506* ☑ | 21035 | LC1D1506** | 21660 |

## DC Low Consumption Contactors (3 Pole)

| [Ie] Rated Operational Current AC1 | Motor Power (Long Life) AC3 | | | Motor Power (Normal Life) AC3 | | | Auxiliary Contacts | Reference | Unit MRP [₹] |
|---|---|---|---|---|---|---|---|---|---|
| | kW | hP | A | KW | hP | A | | | |
| 25 | 4 | 5.5 | 9 | 5.5 | 7.5 | 12 | 1 NO + 1 NC | LC1D09**** ☑ | 1945 |
| | 5.5 | 7.5 | 12 | 9 | 12.5 | 18 | 1 NO + 1 NC | LC1D12**** ☑ | 2025 |
| 32 | 9 | 12.5 | 18 | 11 | 15 | 25 | 1 NO + 1 NC | LC1D18**** ☑ | 2350 |
| 40 | 11 | 15 | 25 | 15 | 20 | 32 | 1 NO + 1 NC | LC1D25**** ☑ | 4085 |
| 50 | 15 | 20 | 32 | 22 | 30 | 40 | 1 NO + 1 NC | LC1D32**** ☑ | 6665 |

### Coil Voltage Code

| Type | Voltage | 24 | 48 | 72 | 110 | 220 | 415 |
|---|---|---|---|---|---|---|---|
| **AC*** | CAD, LC1-D09..to D38, D40A, 50A ,65A & D150 50/60Hz | B7 | - | - | F7 | M7 | N7 |
| | LC1-D80..to D95 & D115 50Hz | B5 | - | - | F5 | M5 | N5 |
| **DC**** | LC1-D09..to D38, D40A, 50A , 65A, 80 , 95, 115 & D150 | BD | - | - | FD | MD | - |
| **DC Low Consumptions***** | CAD | BL | - | - | FL | ML | - |
| **DC Low Consumption****** | LC1D09...D32 | BL | EL | SL | - | - | - |

For ordering contactors with other coil voltages & frequencies, please add ₹ 135/- to the unit MRP of the Standard Contactor for the same rating.
For additional auxiliary block, timers & other accessories, please see page 10 and page 11

Please contact Customer Care Center for Stockable and Non stockable status of references.

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



- Conformity to International Standards – IEC, UL, CSA, CE
- 20A to 250A AC1 Rating
- In-built 1NO+1NC auxiliary contact
- High Temparature limits

| [Ie] Rated Operational Current AC1 | Poles Composotion | AC control Reference | Unit MRP [₹] | DC control Reference | Unit MRP [₹] |
|---|---|---|---|---|---|
| 20 | 4NO | LC1DT20* | 1220 | LC1DT20** | 1470 |
| | 2NO+2NC | LC1D098* | 1370 | LC1D098** | 1870 |
| 25 | 4NO | LC1DT25* | 1350 | LC1DT25** | 2030 |
| | 2NO+2NC | LC1D128* | 1650 | LC1D128** | 2685 |
| 32 | 4NO | LC1DT32* | 1410 | LC1DT32** | 2415 |
| | 2NO+2NC | LC1D188* | 1800 | LC1D188** | 3145 |
| 40 | 4NO | LC1DT40* | 2160 | LC1DT40** | 3790 |
| | 2NO+2NC | LC1D258* | 2745 | LC1D258** | 5000 |
| 60 | 4NO | LC1DT60A* | 4895 | LC1DT60A** | 6210 |
| | 2NO+2NC | LC1D40008* | 8525 | LP1D40008** | 9170 |
| 80 | 4NO | LC1DT80A* | 8510 | LC1DT80A** | 10670 |
| | 2NO+2NC | LC1D65008* | 11540 | LP1D65008** | 12860 |
| 125 | 4NO | LC1D80004* | 11735 | LP1D80004** | 14465 |
| | 2NO+2NC | LC1D80008* | 12730 | LP1D80008** | 16345 |
| 250 | 4NO | LC1D1150046* | 18935 | LC1D1150046** | 20330 |

### Coil Voltage Code

| | VOLTAGE | 24 | 110 | 220 | 415 |
|---|---|---|---|---|---|
| AC* | LC1-DT20 to DT40 & LC1-D09 to D25 50/60Hz | - | F7 | M7 | N7 |
| | LC1-DT60A & DT80A | B7 | F7 | M7 | N7 |
| | LC1D400 - D800, D115 50Hz | - | F5 | M5 | N5 |
| DC** | LC1DT20...DT40, LC1-DT60A & DT80A & LC1D09...D80, D115 and LP1D650 -- LP1D800 | BD | FD | MD | - |

**Note:** For ordering contactors with other coil voltages & frequencies, please add ₹ 135/- to the unit MRP of the standard contactor of the same rating.

## Capacitor Duty Contactors (AC Control)



- Special Contactors designed for switching 3Phase capacitors
- Conformity to IEC Standards
- Current limitation by the inbuilt damping resistors
- 1NO + 1NC inbuilt auxiliary contact

| Nominal Reactive Power 440 V | Auxiliary Contacts | Reference | Unit MRP [₹] |
|---|---|---|---|
| **LC1-D●K - with Damping Resistors & Block of Early Make poles** | | | |
| 12.5 kVar | 1 NO + 1 NC | LC1DFK11* ☑ | 2285 |
| | 2 NC | LC1DFK02* | |
| 16.7 kVar | 1 NO + 1 NC | LC1DGK11*C | 3235 |
| | 2 NC | LC1DGK02*C | |
| 20 kVar | 1 NO + 1 NC | LC1DLK11* | 3770 |
| | 2 NC | LC1DLK02* | |
| 25 kVar | 1 NO + 1 NC | LC1DMK11*C | 4190 |
| | 2 NC | LC1DMK02*C | |
| 33.3 kVar | 1 NO + 2 NC | LC1DPK12*C | 9020 |
| 40 kVar | 1 NO + 2 NC | LC1DTK12*C | 12535 |
| 60 kVar | 1 NO + 2 NC | LC1DWK12*C | 14260 |

### * Coil Voltage Code

| VOLTAGE | 110 | 220 | 415 |
|---|---|---|---|
| **LC1-DFK ... DMK 50/60Hz** | F7 | M7 | N7 |
| **LC1DPK ....DWK 50HZ** | F5 | M5 | N5 |

**Note:** For ordering contactors with other coil voltages & frequencies, please add ₹ 135/- to the unit MRP of the standard contactor of the same rating.

Please contact Customer Care Center for Stockable and Non stockable status of references.

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## Accessories - For D Model Contactors

| Description | | Contacts | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **Add On Blocks** | | | | |
| Additional instantaneous auxiliary contact blocks | Front Mounted | 1 NO | LADN10* | 145 |
| | | 1 NC | LADN01* | |
| | | 1 NO+1NC | LADN11 ☑ | 290 |
| | | 2 NO | LADN20 ☑ | |
| | | 2 NC | LADN02 | |
| | | 2 NO+2NC | LADN22 ☑ | 495 |
| | | 4 NC | LADN04 | |
| | | 4 NO | LADN40 ☑ | |
| | | 1 NO+3NC | LADN13 | |
| | | 3 NO+1NC | LADN31 ☑ | |
| | Side Mounted (1) | 1 NO+1NC | LAD8N11 | 670 |
| | | 2 NO | LAD8N20 | |
| Pneumatic timer blocks front mounted | ON delay | 1 NO+1NC 0.1..3s | LADT0 | 1650 |
| | | 1 NO+1NC 0.1..30s | LADT2 | |
| | | 1 NO+1NC 10..180s | LADT4 | |
| | | 1 NO+1NC 1..30s (2) | LADS2 ☑ | 1790 |
| | OFF delay | 1 NO+1NC 0.1 ..3s | LADR0 | 1650 |
| | | 1 NO+1NC 0.1 ..30s | LADR2 ☑ | |
| | | 1 NO+1NC 10..180s | LADR4 | |
| Set of shins to be used with 4 pole contactors | | | LA9D511 | 685 |

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

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

* Suitable for 80 Amps, 95A & Model F Contactors only

| Description | Time Delay Range | Timer Type | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| On delay timer (1) (2) | 15...30 s | On delay | LA4DT2U | 2015 |
| On delay timer (1) (2) | 0.1...2 s | On delay | LA4DT0U | |
| On delay timer (1) (2) | 25...500 s | On delay | LA4DT4U | |
| Off-delay timing relay with control contact - 24 V AC/DC | 0.1...10 s | Off Delay | RE8RA11B | 3212 |
| Off-delay timing relay with control contact 110 V - 240 V AC | 0.1...10 s | Off Delay | RE8RA11FU | |
| Off-delay timing relay with control contact - 24 V AC/DC | 3...300 s | Off Delay | RE8RA21B | |
| Off-delay timing relay with control contact 110 V - 240 V AC | 3...300 s | Off Delay | RE8RA21FU | |
| Relay interface module - 24V DC (1) (2) | - | - | LA4DFB | 1860 |

(1) For LC1 D09...38A (3P, AC coils only) add mounting adaptor LAD4BB - MRP ₹ 415/- and for LC1 D40A...65A (3P, AC coils only), add mounting adaptor LAD4BB3 - MRP ₹ 935/-.

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

| Mounting Location | For Use With Contactor | Reference | Unit MRP [₹] |
|---|---|---|---|
| **For D Model Mechanical Latch Blocks** | | | |
| Front, Clip-on | LC1 D09...D38 (∿ or ⎓)<br>LC1 DT20...DT40 (∿ or ⎓)<br>LC1 D40A...D65A (3P ∿ or ⎓)<br>LC1DT60A AND DT80A (4P ∿ or ⎓) | LAD6K10* | 2430 |
| | LC1 D80...D150 (3P ∿)<br>LC1 D80 AND D115 (3 P ⎓)<br>LC1 D80 (4 P ∿)<br>LC1 D80 AND D115 (4 P ∿)<br>LP1 D80 AND LC1 D115 (4 P ⎓) | LA6DK20* | 2545 |

* Replace by Voltage Code (AC 50/60 Hz / DC)

**Note:** For ordering Mechanical Latch Block with other coil voltages, please add Rs. 135/- to the unit MRP of the standard reference

### *Coil Voltage Code

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

Please contact Customer Care Center for Stockable and Non stockable status of references.

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## Accessories - D Model

| For use with contactor | Reference | Unit MRP [₹] |
|---|---|---|
| **Mechnical interlock** | | |
| LC1D09..D38 , LC1DT20..DT40 | LAD9V2 (1) | 375 |
| LP1D 40..65, LC1D80..95 | LA9D4002 | 1760 |
| LP1D 80 | LA9D8002 | 2660 |
| LC1D115.. 150 | LA9D11502 | 2695 |
| **Ready made reversing kit** | | |
| LC1D09..D38 | LAD9R1 (2) | 540 |
| | LAD9R1V (3) | 750 |

(1) Reference only of mechanical interlock (For mechanical strength use mounting clip LAD9V17, when using only mechanical interlock. Price available on request)
(2) Set of power connections with mechanical interlock.
(3) Set to power connections with mechanical and electrical interlock.

| Description | Fixing | Reference | Unit MRP [₹] |
|---|---|---|---|
| **For Contactors (D40A, 50A, 65A , DT60A & DT80A)** | | | |
| Mechnical Interlock | Clip - On | LAD4CM | 765 |
| Varistor (24...48 V) | | LAD4V3E | 650 |
| Varistor (110...240 V) | | LAD4V3U | |
| RDOL kit | | LAD9R3 | 1750 |
| Allenkey | - | LADALLEN4 | 920 |
| RC circuit (110...240 V) | Clip - On | LAD4RC3U | 375 |

## Spare coils D model

| Product Compatibility | Reference | Unit MRP [₹] |
|---|---|---|
| **AC Coils** | | |
| CAD, LC1-D09...D38, DT20..40 | LXD1* | 645 |
| LC1D40A, D50A, D65A & LC1DT60A, DT80A | LXD3* | 1760 |
| D80 & D95 (3P & 4P) | LX1D6* | 1865 |
| LC1 - D115 | LX1D8* | 2760 |
| LC1-D150 | LX1D8* | 3610 |
| **DC Coils** | | |
| LC1-D80-D95 | LX4D7** | 5560 |
| LC1-D115, D150 | LX4D8** | 6120 |

**Note:** For ordering coils with other voltages and frequencies, please add ₹ 135/- to the unit MRP of the respective standard coil.

### Coil Voltage Code

| TYPE | VOLTAGE (V) | 24 | 110 | 220 | 415 |
|---|---|---|---|---|---|
| **AC*** | CAD, LC1-D09...D38, DT20..40,LC1 - D150,LC1D40A, D50A, D65A & LC1DT60A, DT80A | - | F7 | M7 | N7 |
| | D80 & D95 (3P & 4P), LC1 - D115 | - | F5 | M5 | N5 |
| **DC**** | LC1-D80, LC1-D115, D150 | BD | FD | MD | - |

| Description | For Use With | Reference | Unit MRP [₹] |
|---|---|---|---|
| **For Contactor D115/150** | | | |
| Arc chamber - 3P | LC1D1156 | LA5D11550 | 3170 |
| Arc chamber - 3P | LC1D1506 | LA5D15050 | 3170 |
| Contacts set - 3P | LC1D1156 | LA5D1158031 | 8380 |
| Contacts set - 3P | LC1D1506 | LA5D150803 | 8690 |
| Contacts set - 4P | LC1D1150046 | LA5D115804 | 11560 |

| Product Compatibility | Fixing | Control Circuit Voltage | Suppressor Type | Reference | Unit MRP [₹] |
|---|---|---|---|---|---|
| **Coil Suppressor Modules** | | | | | |
| LC1-D12...D25 (4P) | Clip-on | 24...48 V AC | RC Circuit AC | LA4DA1E | 605 |
| LC1-D12...D25 (4P) | | 110...240 V AC | RC Circuit AC | LA4DA1U | |
| LC1-D12 & D25 (4P) | | 12...250 V DC | Diode DC | LA4DC1U | |
| LC1-D12...D25 (4P) | | 24...48 V AC/DC | Varistor AC/DC | LA4DE1E | |
| - | | 110...250 V AC/DC | Varistor AC/DC | LA4DE1U | |
| LC1D09...D38, LC2D09...D38, LC1DT20...DT40, LC2DT20...DT40 (3P) | | 24...48 V AC | Varistor AC/DC | LAD4VE | 650 |
| | | 24...48 V AC 400 Hz | RC Circuit AC | LAD4RCE | |
| | | 50...127 V AC 200 Hz | RC Circuit AC | LAD4RCG | 585 |
| | | 110...240 V AC 100 Hz | RC Circuit AC | LAD4RCU ☑ | 650 |
| | | 110...250 V AC | Varistor AC/DC | LAD4VU | |
| LC1D80, LC1D95, LC2D80, LC2D95 (3P) LC2D80 (4P), LC1D40008, LC1D65008 | Screw | 24...250 V DC | Diode DC | LA4DC3U | 605 |
| LC1D80...D115, LC2D80...D115 (3P) LC1D80...D115, LC2D80...D115 (4P) | | 24...48 V AC | Varistor AC/DC | LA4DE2E | |
| | | 110...250 V AC | Varistor AC/DC | LA4DE2U | |
| LC1D80...D150, LC2D80...D150 (3P) LC1D4008, LC1D65008, LC1D115, LC2D40...D115 (4P) | | 24...48 V AC 400 Hz | RC Circuit AC | LA4DA2E | |
| | | 50...127 V AC 200 Hz | RC Circuit AC | LA4DA2G | 970 |
| | | 110...240 V AC 100 Hz | RC Circuit AC | LA4DA2U | 605 |
| | | 380...415 V AC 150 Hz | RC Circuit AC | LA4DA2N | 970 |
| LC1D80...D95, LC2D80...D95, (3P) LC1D80, 4 poles LC2D80 (4P) | | 24...48 V DC | Varistor AC/DC | LA4DE3E | 605 |
| | | 110...250 V DC | Varistor AC/DC | LA4DE3U | |

Please contact Customer Care Center for Stockable and Non stockable status of references.

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## Thermal Overload Relays - D Model



- Conformity to International Standards – IEC, UL, CSA
- Range available - 0.1A to 104 A
- Direct mounting on contactors is possible upto 95A
- Higher operating temperature
- Tripping class 10A & 20A available

| Thermal Protection Adjustment Range | For Use With | Reference* | Unit MRP [₹] |
|---|---|---|---|
| **LR-D Model (Direct Mounting)** | | | |
| 0.1...0.16 A | GV2L03, LE03, LC1D09...LC1D38 | LRD01 | 1350 |
| 0.16...0.25 A | | LRD02 | |
| 0.25...0.4 A | | LRD03 | |
| 0.4...0.63 A | | LRD04 | |
| 0.63...1 A | | LRD05 ☑ | |
| 1...1.6 A | | LRD06 ☑ | |
| 1.6...2.5 A | | LRD07 ☑ | |
| 2.5...4 A | | LRD08 ☑ | |
| 4...6 A | | LRD10 ☑ | |
| 5.5...8 A | | LRD12 ☑ | |
| 7...10 A | | LRD14 ☑ | 1360 |
| 9...13 A | | LRD16 ☑ | |
| 12...18 A | | LRD21 ☑ | 1655 |
| 16...24 A | GV2L22, LC1D25...D38 | LRD22 ☑ | 1655 |
| 23...32 A | LC1D25...LC1D38, LC1D32 | LRD32 ☑ | 2665 |
| 30...38 A | LC1D32, LC1D38 | LRD35 | |
| 23...32 A | LC1D40A...D65A | LRD332 | 2725 |
| | LC1D80...LC1D95 | LRD3353 | |
| 30...40 A | LC1D40A...D65A | LRD340 | |
| 30...40 A | LC1D80...LC1D95 | LRD3355 | |
| 37...50 A | LC1D40A...D65A | LRD350 ☑ | 3385 |
| | LC1D80...LC1D95 | LRD3357 | 3500 |
| 48...65 A | LC1D40A...D65A | LRD365 | 4290 |
| 48...65 A | LC1D80...LC1D95 | LRD3359 | |
| 63...80 A | LC1D65...LC1D95 | LRD3363 | 4730 |
| 80...104 A | LC1D80, LC1D95 | LRD3365 | 5655 |

**Note:**

- *For LRD01...LRD35 - Terminal Block for clip-on Mounting LAD-7B106 Unit MRP: ₹ 310/-
- *For LRD33** - Terminal Block for clip-on Mounting LA7D3064 ☑ Unit MRP: ₹ 1010/-
- For LRD332, LRD340, LRD350 & LRD365 - Connection block for separate mounting LAD 96560 Unit MRP: ₹ 1155/-
- The LRD relays can be used for AC or DC current up to 104 Amps
- For long starting, Class 20 relays are available on request.
- Device for remote tripping and electrical reset is available on request.

## Electronic Relays - D Model



- Conformity to International Standards – IEC, UL, CSA
- Higher operating temperature up to 55ºC
- Tripping class selectable on product
- Manual & auto reset is possible

| Thermal Protection Adjustment Range | For Use With | Reference | Unit MRP [₹] |
|---|---|---|---|
| **LR97D Electronic Motor Protection Relay** | | | |
| 0.3...1.5 A | LC1D09...D38 | LR97D015** | 4785 |
| 1.2...7 A | LC1D09...D38 | LR97D07** | |
| 5...25 A | LC1D09...D38 | LR97D25** | |
| 20...38 A | LC1D09...D38 | LR97D38** | 7305 |
| **LT47 Electronic Motor Protection Relay** | | | |
| 0.5..6 A | | LT4706**# | 3380 |
| 3...30 A | | LT4730**# | |
| 5...60 A | | LT4760**# | 5055 |

**** Coil Voltage Code**

| VOLTAGE | 24 V AC/DC | 48 V AC/DC | 110 V AC | 220 V AC |
|---|---|---|---|---|
| Code | B | E | F7 | M7 |

# S - Manual/Electric Reset
# A - Automatic Reset

Please contact Customer Care Center for Stockable and Non stockable status of references.

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



- Conformity to International Standards – IEC, UL, CSA, CE
- High electrical life
- 115-800 Amps, AC/DC coils
- Type 2 Coordination Charts available
- Common accessories as Model D

| [Ie] Rated Operational Current AC1 | Motor Power (Long Life) AC3 kW | hP | A | Motor Power (Normal Life) AC3 kW | hP | A | Reference | Unit MRP [₹] |
|---|---|---|---|---|---|---|---|---|
| 200 | 59 | 80 | 115 | 80 | 110 | 150 | LC1F115 ☑ | 14170 |
| 250 | 80 | 110 | 150 | 100 | 135 | 185 | LC1F150 ☑ | 19815 |
| 275 | 100 | 135 | 185 | 110 | 150 | 205 | LC1F185 ☑ | 22165 |
| 315 | 110 | 150 | 225 | 140 | 190 | 265 | LC1F225 ☑ | 24630 |
| 350 | 140 | 190 | 265 | 160 | 220 | 300 | LC1F265 ☑ | 29510 |
| 400 | 180 | 245 | 330 | 220 | 300 | 400 | LC1F330 ☑ | 34765 |
| 500 | 220 | 300 | 400 | 250 | 340 | 450 | LC1F400 ☑ | 39775 |
| 700 | 280 | 380 | 500 | 375 | 500 | 630 | LC1F500 ☑ | 54710 |
| 1000 | 375 | 500 | 630 | 450 | 610 | 800 | LC1F630 | 96620 |
| 1000 | 450 | 610 | 800 | - | - | - | LC1F800 | 164115 |

**Note:**
- **Contactor reference does not include coil. Contactor coil & aux. contacts to be ordered separately.(Coil includes 1 NO contact)**
- **Please select coils from below table separately.**
- **For additional auxiliary block and other accessories please see page 14**

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



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

| [Ie] Rated Operational Current AC1 | Power Pole Composition | Reference | Unit MRP [₹] |
|---|---|---|---|
| 240 A | 4 NO | LC1F1154 | 20185 |
| 250 A | 4 NO | LC1F1504 | 24550 |
| 275 A | 4 NO | LC1F1854 | 30620 |
| 315 A | 4 NO | LC1F2254 | 36125 |
| 350 A | 4 NO | LC1F2654 | 40360 |
| 400 A | 4 NO | LC1F3304 | 47965 |
| 500 A | 2 NO | LC1F4002 | 34005 |
| 500 A | 4 NO | LC1F4004 | 56580 |
| 700 A | 2 NO | LC1F5002 | 50045 |
| 700 A | 4 NO | LC1F5004 | 82630 |
| 1000 A | 2 NO | LC1F6302 | 81265 |
| 1000 A | 4 NO | LC1F6304 | 120105 |
| 1600 A | 4 NO | LC1F7804 | 256315 |

**Note:**
- Contactor reference does not include coil. Contactor coil & aux. contacts to be ordered separately.(Coil includes 1 NO contact)
- For additional auxiliary block, timers & other accessories please see page 14
- Power terminals may be protected by the addition of shrouds, to be ordered separately.

## Coils F Model

| Product compatibility | AC Coil Reference | Unit MRP [₹] | DC Coil Reference (2) | Unit MRP [₹] |
|---|---|---|---|---|
| LC1F115, LC1F150 | LX1FF* | 2740 | LX4FF** | 7045 |
| LC1F185, LC1F225 | LX1FG* | 3910 | LX4FG** | 9245 |
| LC1F265, LC1F330 | LX1FH* | 3910 | LX4FH** | 11525 |
| LC1F400 | LX1FJ* | 10405 | LX4FJ** | 18240 |
| LC1F500 | LX1FK* | 12270 | LX4FK** | 18240 |
| LC1F630 | LX1FL* | 13535 | LX4FL** | 18240 |
| LC1F780 | LX1FX* (3) | 28775 | LX4FX** (3) | 33250 |
| LC1F800 | (1) | - | LX4F8** | 22370 |

**Please replace ( * ) with the Corresponding Control Voltage.**
(1) Use rectifier with required DC coil (Ref: DR5TE4U)(4)
(2) Coil with suppressor fitted as standard.
(3) Set of two coils to be connected in series.
(4) Rectifier DR5TE4U - MRP ₹ 6460/-

### Coil Voltage Code

| Type | Voltage (V) | 24 | 110 | 220 | 415 |
|---|---|---|---|---|---|
| AC* | LC1F115--F225, LC1F400 -- 780 | - | 110 | 220 | 415 |
| | LC1F265, LC1F330 | | 1102 | 2202 | 3802 |
| DC** | LC1F115--F330 | 024 | 110 | 220 | - |
| | LC1F400--F780 | - | 110 | 220 | |
| | LC1F800 | - | FW | MW | |

**Note:** For ordering coils with other voltages and frequencies, please add ₹ 135/- to the unit MRP of the respective standard coil.

Please contact Customer Care Center for Stockable and Non stockable status of references.

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## Vacuum Contactors (3 Pole AC Control)

| [Ie] Rated Operational Current | | Motor Power | | Auxiliary Contacts | Reference | Unit MRP [₹] |
|---|---|---|---|---|---|---|
| AC1 | AC3 | kW | hP | | | |
| 160 A | 160 A | 75 | 100 | 2 NO + 1 NC | LC1V160* | 73670 |
| 320 A | 320 A | 160 | 213 | 1 NO + 1 NC | LC1V320* | 94430 |
| 630 A | 610 A | 300 | 400 | 1 NO + 1 NC | LC1V610* | 177450 |

### * Coil Voltage Code

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

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

## Accessories - D and F Model

| Description | | Contacts | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **Add On Blocks** | | | | |
| Additional instantaneous auxiliary contact blocks | Front Mounted | 1 NO | LADN10* | 145 |
| | | 1 NC | LADN01* | |
| | | 1 NO+1NC | LADN11 ☑ | 290 |
| | | 2 NO | LADN20 ☑ | |
| | | 2 NC | LADN02 | |
| | | 2 NO+2NC | LADN22 ☑ | 495 |
| | | 4 NC | LADN04 | |
| | | 4 NO | LADN40 ☑ | |
| | | 1 NO+3NC | LADN13 | |
| | | 3 NO+1NC | LADN31 ☑ | |
| | Side Mounted (1) | 1 NO+1NC | LAD8N11 | 670 |
| | | 2 NO | LAD8N20 | |
| Pneumatic timer blocks front mounted | ON delay | 1 NO+1NC 0.1..3s | LADT0 | 1650 |
| | | 1 NO+1NC 0.1..30s | LADT2 | |
| | | 1 NO+1NC 10..180s | LADT4 | |
| | | 1 NO+1NC 1..30s (2) | LADS2 ☑ | 1790 |
| | OFF delay | 1 NO+1NC 0.1 ..3s | LADR0 | 1650 |
| | | 1 NO+1NC 0.1 ..30s | LADR2 ☑ | |
| | | 1 NO+1NC 10..180s | LADR4 | |

(1) Suitable for mounting on D Model range AC Coil Contactors and Control Relays only
(2) With Switching time of 40 ms between opening of the NC contact and closing of the NO contact recommended for Star - Delta Starters
* Suitable for 80 Amps, 95A & Model F Contactors only

| For Use With Contactor | Reference | Unit MRP [₹] |
|---|---|---|
| **Mechanical Interlocks (1) - Horizontally Mounted** | | |
| LC1F115, LC1F150, LC1F1154, LC1F1504 | LA9FF970 | 2690 |
| LC1F185, LC1F1854, LC1F225, LC1F2254 | LA9FG970 | 2695 |
| LC1F265, LC1F330, LC1F400, LC1F500 , LC1F2654, LC1F3304, LC1F4004, LC1F5004 | LA9FJ970 | 3020 |
| LC1F630, LC1F6304, LC1F800 | LA9FL970 | 3355 |

(1) For assembly of 3/4 pole 2 contactors of identical rating. To obtain electrical interlocking, please order 2 contact blocks LADN11
All power connections are to be made by the user.

| | | |
|---|---|---|
| **Main Contact Sets*** | | |
| LC1F115, LC1F150 | LA5FF431 ☑ | 12395 |
| LC1F185, LC1F225 | LA5FG431 | 17920 |
| LC1F265 | LA5FH431 | 23610 |
| LC1F330, LC1F400 | LA5F400803 | 28630 |
| LC1F500 | LA5F500803 | 36830 |
| LC1F630 | LA5F630803 | 58585 |
| LC1F800 | LA5F800803 | 73570 |

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

| Description | For use with | 110 V Reference | 220 V Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **Suppressor Blocks** | | | | |
| suppressor module clip on | All AC ratings | LA4FRCF | LA4FRCP | 2855 |
| suppressor bracket | For all LA4F | LA9D09981 | | 350 |

Please contact Customer Care Center for Stockable and Non stockable status of references.

☑ NORMAL STOCK ITEMS

W.E.F. February 01, 2013

## Coils F Model

| Product compatibility | AC Coil Reference | Unit MRP [₹] | DC Coil Reference (2) | Unit MRP [₹] |
|---|---|---|---|---|
| LC1F115, LC1F150 | LX1FF* | 2740 | LX4FF** | 7045 |
| LC1F185, LC1F225 | LX1FG* | 3910 | LX4FG** | 9245 |
| LC1F265, LC1F330 | LX1FH* | 3910 | LX4FH** | 11525 |
| LC1F400 | LX1FJ* | 10405 | LX4FJ** | 18240 |
| LC1F500 | LX1FK* | 12270 | LX4FK** | 18240 |
| LC1F630 | LX1FL* | 13535 | LX4FL** | 18240 |
| LC1F780 | LX1FX* (3) | 28775 | LX4FX** (3) | 33250 |
| LC1F800 | (1) | - | LX4F8** | 22370 |

## Coil Voltage Code

| Type | Voltage (V) | 24 | 110 | 220 | 415 |
|---|---|---|---|---|---|
| AC* | LC1F115--F225, LC1F400 -- 780 | - | 110 | 220 | 415 |
| | LC1F265, LC1F330 | | 1102 | 2202 | 3802 |
| DC** | LC1F115--F330 | 024 | 110 | 220 | - |
| | LC1F400--F780 | - | 110 | 220 | |
| | LC1F800 | - | FW | MW | |

**Please replace ( * ) with the Corresponding Control Voltage.**

(1) Use rectifier with required DC coil (Ref: DR5TE4U)(4)

(2) Coil with suppressor fitted as standard.

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

(4) Rectifier DR5TE4U - MRP ₹ 6460/-

**Note:** For ordering coils with other voltages and frequencies, please add ₹ 135/- to the unit MRP of the respective standard coil.

| Product compatibility | 110V Reference | 220/230V Reference | 415/440V Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **Hoisting Applications - AC Colis** | | | | |
| LC1F265, LC1F330 | LX9FH1102 | LX9FH2202 | - | 12305 |
| LC1F400 | LX9FJ925 | LX9FJ931 | LX9FJ937 | 16725 |
| LC1F500 | LX9FK925 | LX9FK931 | LX9FK937 | 17730 |
| LC1F630 | LX9FL924 | LX9FL931 | LX9FL936 | 18680 |

**Note: Rectifier is a must with the coil. Ref no. DR5TE4U for 110..230V & DR5TE4S* for 415..440V , MRP ₹ 6460/- needs to be added extra with coil**.

| Product compat-ibility | 48V Reference | 110V Reference | 220V Reference | 440/460 V Reference | Unit MRP [₹] |
|---|---|---|---|---|---|
| **Hoisting Applications - DC Coils** | | | | | |
| LC1F400 | LX9FJ918 | LX9FJ926 | LX9FJ932 | LX9FJ938 | 16725 |
| LC1F500 | LX9FK918 | LX9FK926 | LX9FK932 | LX9FK938 | 17730 |
| LC1F630 | LX9FL918 | LX9FL926 | LX9FL931 | LX9FL937 | 18680 |

**Note:**

- Resistor is a must with every coil as per the quantity mentioned. MRP ₹ 2335/- needs to be added extra with coil.
- **Economy Resistor to be selected from below table as per coil voltage code**

| Contactor | 110 V Reference | 220 V Reference | 440/460 V Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **Economy Resistor** | | | | |
| • To be used with hoisting application DC coil | | | | |
| LC1F400 | 1 x DR2SC0047 | 1 x DR2SC1200 | 1 x DR2SC4700 | 2335 |
| LC1F500 | 1 x DR2SC0039 | 1 x DR2SC1000 | 1 x DR2SC3300 | |
| LC1F630 | 2 x DR2SC0047 | 2 x DR2SC0047 | 2 x DR2SC3900 | |

## Electronic Relays



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

| Thermal Protection Adjustment Range | Reference | Unit MRP [₹] |
|---|---|---|
| **LR9-F Electronic Protection Relays** | | |
| 90...150 A | LR9F5369 ☑ | 8360 |
| 132...220 A | LR9F5371 | 10160 |
| 200...330 A | LR9F7375 | 10315 |
| 300...500 A | LR9F7379 | 13365 |
| 380...630 A | LR9F7381 | 14335 |

## Accessories

| Description | For Use With | Relay Type | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **For LR9 - F Relay** | | | | |
| Mounting plate LA7F | | LR9-F5369, LR9-F5371 | LA7F901 | 2090 |
| | | LR9-F7375, LR9-F7379, LR9-F7381 | LA7F902 | 2950 |
| **Connection Accessories** | | | | |
| LA7F busbar | LC1F115 | LR9-F5369 | LA7F401 | 1405 |
| | LC1F225/265 | LR9-F5371 | LA7F403 | 2035 |
| | LC1F225-400 | LR9-F7375, LR9-F7379, LR9-F7381 | LA7F404 | 2170 |
| | LC1F500 | LR9F7381 | LA7F405 | 2695 |
| | LC1F630/800 | LR9-F7381 | LA7F406 | 2880 |

Please contact Customer Care Center for Stockable and Non stockable status of references.

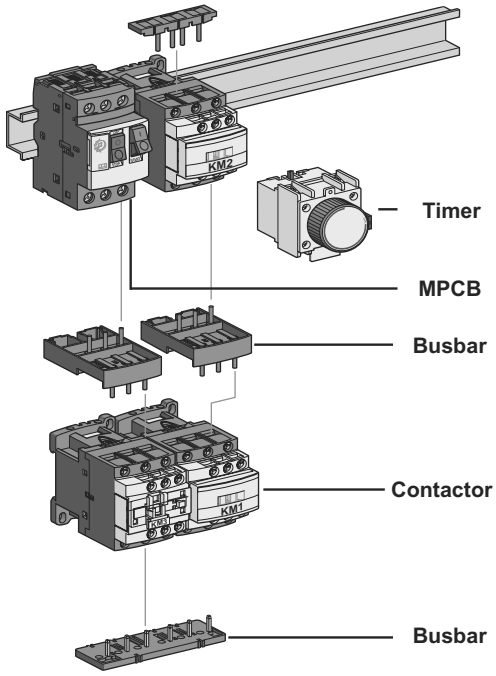
☑ NORMAL STOCK ITEMS

W.E.F. February 01, 2013

# TeSys Installation Systems

- Modularity
- Easy and Fast Installations
- Reduced and error free wiring
- Reduced down time

## 1. TeSys Pre-fabricated Star- Delta Kit NEW




- This kit enables Power and control interconnections to form the star delta starters.
- Kit contains 1 No. time delay contact block, ready to use power circuit connections and control busbar for wiring.

Benefits:

- Reduced and Error free wiring as ready to use connecting bus bars available
- Easy and fast installation as no wiring, ferruling and labeling required
- Reliability and Enhanced safety, optimum use of electrical conductors

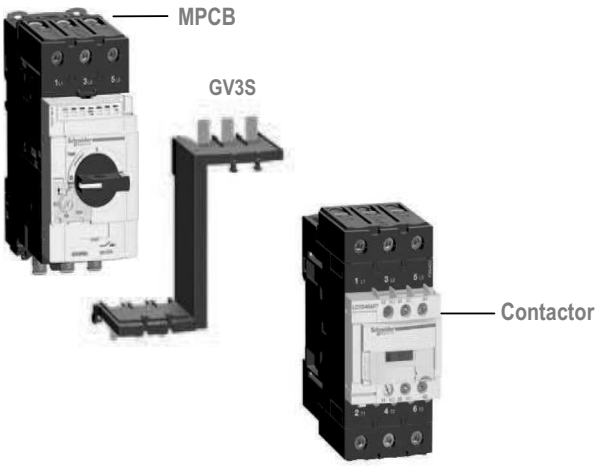
| For Use with contactor | Kit Reference | MRP |
|---|---|---|
| LC1D09-LC1D12 | LAD91217 | On Request |
| LC1D18-LC1D32 | LAD93217 | On Request |
| LC1D40A-LCD150A | LAD9SD3 | On Request |
| LC1D80 | LA9D8017 | On Request |
| LC1D09...D38 | GV2AF3 | 325 |

* Kit comprises of 1 time delay contact block and bus bar for power circuit connection.

* MPCB & Contactor interconnecting Busbar(GV2AF3) to be ordered separately

## 2. TeSys “S”- shaped bus bar NEW

TeSys “S” shaped enables to mount contactor and MPCB Side by side reducing panel size.




- With “S’ shaped bus bar, side by side mounting of contactor, MPCB and OLR is possible.

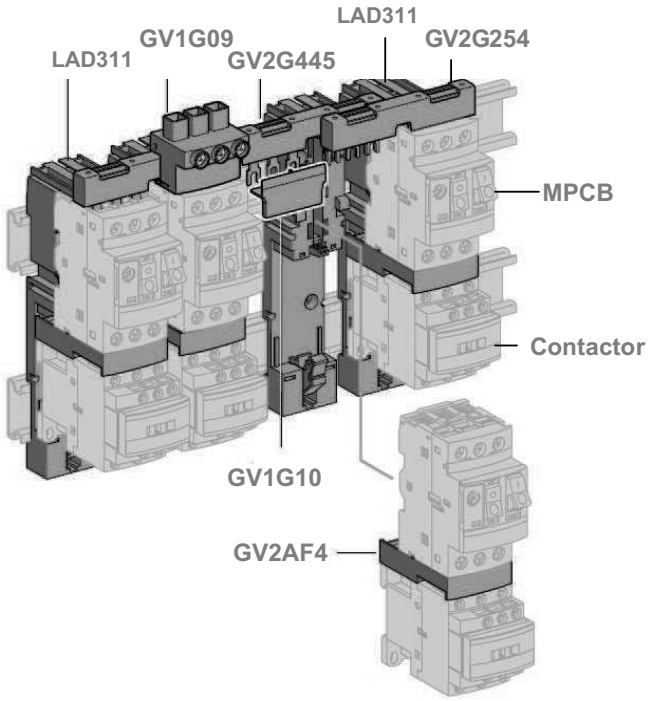
Benefits:

- Panel space saving as no external wiring required between contactor and MPCB

| For Use with contactor | Reference | MRP |
|---|---|---|
| LC1D40A- LC1D65A | GV3S | On Request |

## 3. TeSys D Bus Bar NEW

### Ready to use Adaptor plates along with comb shaped Bus bar



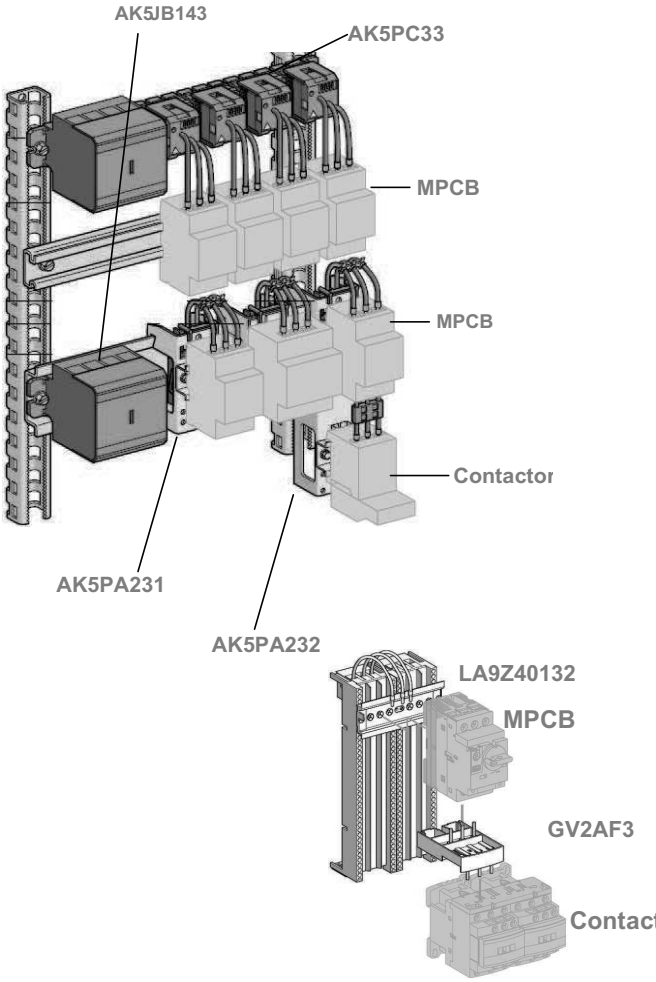

- Ready made assemblies for Contactor and MPCB with ready to use adaptors and bus bars enables more number of starter assemblies in simple way.
- Contactor and MPCB can be fixed on adaptor which can be further mounted on Din Rail. Inter Connection link between contactor and MPCB is also readily available to make power connections.
- Busbar are used to distribute input power supply to all starters.

Benefits:

- With such assemblies, Standardization of the starter components can be done.
- Optimum use of panel space can be achieved.
- Considerable saving in installation time as the assembly is almost wire less.
- Supply wires required to be plugged in the bus bar terminals

| Description | Reference | MRP |
|---|---|---|
| Adaptor Plate | LAD311 | On Request |
| Terminal Block | GV1G09 | On Request |
| 3 - pole bus bar 4 tap-offs | GV2G445 | On Request |
| 3 - pole bus bar 2 tap-offs | GV2G254 | On Request |
| Protective Cover | GV1G10 | On Request |
| Combination Block | GV2AF4 | On Request |

## 4. TeSys AK5 pre-assembled busbar system NEW




- The assembly of automated control and distribution panels requires the use of Products those are not only safe but also simple and quick to mount and cable.
- The AK5 pre-assembled busbar system meets all these criteria by incorporating adopters which can be mounted directly on busbars for Current distribution. Contactors and MPCB / OLR can be fixed on this adopter to save space and reduce wiring.

Benefits:

- Space saving
- Saving of wiring and installation time.

| Description | Reference | MRP |
|---|---|---|
| Bus bar 12 Taps | AK5JB143 | On Request |
| Power socket 3 Phase 32 Amps | AK5PC33 | On Request |
| Double component Mounting Plate 25 Amps | AK5PA232 | On Request |
| Single component Mounting Plate 25 Amps | AK5PA231 | On Request |

| Description | Reference | MRP |
|---|---|---|
| Adaptor for Bus bar – 32 Amps | LA9Z40132 | On Request |

## Motor Circuit Breakers



- Conforming to IEC 60947-2-3-4
- Thermal magnetic circuit breakers rage from 0.1-220 Amps
- High Breaking capacity up to 100 kA
- Conformity to International Standards - UL, CSA, CE
- Wide range of accessories
- S-shaped busbar for side-by-side connection with 40 - 65A Contactor

| Breaking Capacity at 415 V 50 Hz | Motor Power AC3** kW | hP | Thermal Protection Adjustment Range | Reference | Unit MRP [₹] |
|---|---|---|---|---|---|
| **GV2-M Model Thermal Magnetic - With Pushbutton Control (Economy)** | | | | | |
| 100 kA | - | - | 0.1 - 0.16 | GV2ME01 | 2660 |
| | 0.06 | - | 0.16 - 0.25 | GV2ME02 | |
| | 0.09 | - | 0.25 - 0.40 | GV2ME03 | |
| | 0.18 | - | 0.40 - 0.63 | GV2ME04 ☑ | 3075 |
| | 0.37 | 0.5 | 0.63 - 1.0 | GV2ME05 ☑ | |
| | 0.55 | 0.75 | 1.0 - 1.6 | GV2ME06 ☑ | 3085 |
| | 0.75 | 1 | 1.6 - 2.5 | GV2ME07 ☑ | |
| | 1.1 | 2 | 2.5 - 4 | GV2ME08 ☑ | 3110 |
| | 2.2 | 3 | 4 - 6.3 | GV2ME10 ☑ | |
| | 3 | 5.5 | 6 - 10 | GV2ME14 ☑ | 3195 |
| 15 kA (1) | 5.5 | 7.5 | 9 - 14 | GV2ME16 ☑ | 4105 |
| | 7.5 | 10 | 13 - 18 | GV2ME20 ☑ | 4485 |
| | 9 | 12.5 | 17 - 23 | GV2ME21 ☑ | 4675 |
| | 11 | 15 | 20 - 25 | GV2ME22 ☑ | 4655 |
| 10 kA (1) | 15 | 20 | 24 - 32 | GV2ME32 ☑ | 7920 |
| **GV2-P Model Thermal Magnetic - With Rotary Handle Control** | | | | | |
| 100 kA | - | - | 0.1 - 0.16 | GV2P01 | 3045 |
| | 0.06 | - | 0.16 - 0.25 | GV2P02 | |
| | 0.09 | - | 0.25 - 0.40 | GV2P03 | 3375 |
| | 0.18 | - | 0.40 - 0.63 | GV2P04 | 3510 |
| | 0.37 | 0.5 | 0.63 - 1.0 | GV2P05 ☑ | 3510 |
| | 0.55 | 0.75 | 1.0 - 1.6 | GV2P06 | 3510 |
| | 0.75 | 1.0 | 1.6 - 2.5 | GV2P07 | |
| | 1.1 | 2 | 2.5 - 4 | GV2P08 ☑ | 3510 |
| | 2.2 | 3 | 4 - 6.3 | GV2P10 ☑ | |
| | 3 | 5.5 | 6 - 10 | GV2P14 ☑ | 3645 |
| | 5.5 | 7.5 | 9 - 14 | GV2P16 ☑ | 4860 |
| 50 kA (2) | 7.5 | 10 | 13 - 18 | GV2P20 ☑ | 5425 |
| | 9 | 12.5 | 17 - 23 | GV2P21 ☑ | 5425 |
| | 11 | 15 | 20 - 25 | GV2P22 ☑ | 5425 |
| 35 kA (2) | 15 | 20 | 24 - 32 | GV2P32 ☑ | 9145 |
| **GV3-P Range Thermal Magnetic - With Rotary Handle Control** | | | | | |
| 50 kA | | 18.5 | 30...40 A | GV3P40 ☑ | 9680 |
| | | 22 | 37...50 A | GV3P50 ☑ | 11700 |
| | | 30 | 48...65 A | GV3P65 ☑ | 12380 |
| **GV3-M Range Thermal Magnetic - Pushbutton Control** | | | | | |
| 15 kA | 37 | - | 56...80 A | GV3ME80 ☑ | 12440 |

** 50/60Hz - 415 V

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

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

## Motor Circuit Breakers



- Conforming to IEC 60947-2-3-4
- Magnetic circuit breakers rage from 0.1-80A Amps
- High Breaking capacity up to 100kA
- Conformity to International Standards - IEC, UL, CSA, CE
- Wide range of accessories

| Breaking Capacity at 415 V 50 Hz | Motor Power AC3** kW | hP | Magnetic Protection Rating (A) | Reference | Unit MRP [₹] |
|---|---|---|---|---|---|
| **GV2-LE Model Magnetic - With Rocker Lever Control (Economy) *** | | | | | |
| 100 kA | 0.09 | - | 0.4 | GV2LE03 | 2625 |
| | 0.18 | - | 0.63 | GV2LE04 | |
| | 0.37 | 0.5 | 1 | GV2LE05 | |
| | 0.55 | - | 1.6 | GV2LE06 | |
| | 1.1 | 1.5 | 2.5 | GV2LE07 | |
| | 1.5 | 2 | 4 | GV2LE08 | |
| | 2.2 | 3 | 6.3 | GV2LE10 | |
| | 3 | 5.5 | 10 | GV2LE14 | |
| 15 kA | 5.5 | 7.5 | 14 | GV2LE16 | 3005 |
| | 7.5 | 10 | 18 | GV2LE20 | |
| | 11 | 15 | 25 | GV2LE22 | |
| 10 kA | 15 | 20 | 32 | GV2LE32 | 5175 |
| **GV2-L Model Magnetic- With Rotary Handle Control *** | | | | | |
| 100 kA | 0.09 | - | 0.4 | GV2L03 | 3465 |
| | 0.18 | - | 0.63 | GV2L04 | |
| | 0.37 | 0.5 | 1 | GV2L05 | |
| | 0.55 | - | 1.6 | GV2L06 | |
| | 1.1 | 1.5 | 2.5 | GV2L07 | |
| | 1.1 | 2 | 4 | GV2L08 | |
| | 2.2 | 3 | 6.3 | GV2L10 | |
| | 4 | 5.5 | 10 | GV2L14 | |
| 50 kA | 5.5 | 7.5 | 14 | GV2L16 | |
| | 7.5 | 10 | 18 | GV2L20 | |
| | 11 | 15 | 25 | GV2L22 | |
| **GV3-L Range Magnetic - With Rotary Handle Control** | | | | | |
| 50 kA | 18.5 | | 40 | GV3L40 | 8370 |
| | 22 | | 50 | GV3L50 | 8550 |
| | 30 | | 65 | GV3L65 | 8835 |
| **GK3 Range Optimal Magnetic - With Rotary Handle Control *** | | | | | |
| 35 kA | 37 | | 80 | GK3EF80 | 9565 |

* Conforming to IEC 60947-2-3-4

** 50/60Hz - 415 V

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

| Breaking Capacity at 415 V 50 Hz* | Motor Power AC3** kW | Thermal Protection Adjustment Range | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **GV7-R Range Thermal Magnetic (220A, AC3)** | | | | |
| 36 kA | 45 | 60 - 100 | GV7RE100 | 12845 |
| 35 kA | 75 | 90 - 150 | GV7RE150 | 17640 |
| | 110 | 132 - 220 | GV7RE220 | 26015 |
| 70 kA | 18.5 | 25 - 40 | GV7RS40 | 13900 |
| | 22 | 30 - 50 | GV7RS50 | |
| | 37 | 48 - 80 | GV7RS80 ☑ | 14875 |
| | 45 | 60 -100 | GV7RS100 | |
| | 75 | 90 -150 | GV7RS150 | 19985 |
| | 110 | 132 - 220 | GV7RS220 | 29410 |

* Conforming to IEC 947-2 for Type 2 coordination

** 50/60Hz - 415 V.

Please contact Customer Care Center for Stockable and Non stockable status of references.

☑ NORMAL STOCK ITEMS

W.E.F. February 01, 2013

## Accessories for Motor Circuit Breakers

| Description | | | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **For GV2** | | | | |
| Front contact NO or NC (1) | | | GVAE1 | 530 |
| Front contact NO + NC | | | GVAE11 ☑ | 650 |
| | | | GVAE20 | |
| Side contact NO + NC | | | GVAN11 ☑ | 790 |
| | | | GVAN20 | |
| Fault signalling contact +1 NO contact (2) | | | GVAD1010 ☑ | 925 |
| Fault signalling contact +1 NC contact (2) | | | GVAD1001 | |
| Short circuit signalling contact block 1 C/O | | | GVAM11 | 890 |
| Undervoltage trip : | 110 ... 115V | 50Hz | GVAU115 | 1715 |
| | 220 ... 240V | 50Hz | GVAU225 | |
| | 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 | 2770 |
| Connection block - GV2 with contactor LC1-D09..D38 | | | GV2AF3 | 325 |
| Connection block - LS1 D32 or GV2 with contactor LC1-K or LP1-K | | | GV2AF01 | 385 |
| Empty enclosure for GV2ME - plastic | | | GV2MP02 | 1235 |
| | | | GV2MC02 | 1355 |

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

## Busbars

| Connection Pitch | No. of Tapoff Points | Reference | Unit MRP [₹] |
|---|---|---|---|
| **For GV2 Breakers** | | | |
| 45 mm | 2 | GV2G245 | 880 |
| | 4 | GV2G445 | 1360 |
| 54 mm | 2 | GV2G254 | 935 |
| | 3 | GV2G354 | 1060 |
| | 4 | GV2G454 | 1335 |
| | 5 | GV2G554 | 1440 |
| 72 mm | 2 | GV2G272 | 1060 |
| | 4 | GV2G472 | 1470 |

| Description | Reference | Unit MRP [₹] |
|---|---|---|
| **Accessories for Busbars** | | |
| Terminal block - to supply one or more 3-pole busbar GV2 | GV2G05 | 2035 |
| Protective end covers for unused busbar outlets | GV1G10 | 385 |
| Terminal block for connection from top | GV1G09 | 1180 |

## Accessories for Motor Circuit Breakers

| Description | Reference | Unit MRP [₹] |
|---|---|---|
| **For GV3-M** | | |
| Auxiliary contact - 1 NO + 1 NC early-break | GV3A01 | 780 |
| Auxiliary contact - 2 NO early-break | GV3A02 | |
| Under voltage release - 110 V AC 50Hz | GV3B11 | 2685 |
| Under voltage release - 220 V AC 50Hz | GV3B22 | |
| Under voltage release - 380 V AC 50Hz | GV3B38 | |
| Shunt release - 110 V AC 50Hz | GV3D11 | 2685 |
| Shunt release - 220 V AC 50Hz | GV3D22 | |
| Shunt release - 380 V AC 50Hz | GV3D38 | |

## Accessories for Motor Circuit Breakers

| Description | Reference | Unit MRP [₹] |
|---|---|---|
| **For GV2-P/GV2-L** | | |
| External operator - IP54, Black | GV2APN01 ☑ | 1720 |
| External operator - IP54, Yellow/Red | GV2APN02 | 3180 |
| Visible isolation block - for motor circuit breaker GV2 | GV2AK00 | 1440 |
| **For GV3P/GV3L** | | |
| **Auxiliary Contacts** | | |
| Front contact: 1 NO (fault) + 1 NC (Auxiliary) | GVAED011 | 510 |
| Front contact: 1 NO (fault) + 1 NO (Auxiliary) | GVAED101 | 745 |
| **Busbar** | | |
| 3-pole, 3 tap, 64 mm pitch | GV3G364 | 705 |
| S-shape bus bar | GV3S | 510 |
| **External Operator** | | |
| IP54, Black | GV3APN01 | 2050 |
| IP54, Yellow/Red | GV3APN02 | |
| **For GK3** | | |
| Padlockable external operator | GK3AP03 | 3295 |
| Instantaneous Aux. Contacts NC + NO for GK3 | GK2AX50 | 835 |
| Instantaneous Aux. Contacts NO + NO for GK3 | GK2AX20 | 815 |

**Note:** All other accessories are same as of GV2

| Description | Operating Voltage | Reference | Unit MRP [₹] |
|---|---|---|---|
| **For GV7** | | | |
| Accessory for direct rotary handle mount on door (2) | - | GV7AP05 | 945 |
| Auxiliary contact - 1 OC | - | GV7AE11 ☑ | 1100 |
| Clip-on connector - upto 150 A - 1.5..95 mm² | - | GV7AC021 | 345 |
| Clip-on connector- upto 220 A - 1.5..185 mm² | - | GV7AC022 | 350 |
| Fault discrimination Device | 24...72V DC/ 24...48V AC | GV7AD111 | 2720 |
| | 110 ... 240V AC/ DC | GV7AD112 | |
| Front rotary handle GV7AP GV7R - black handle (2) | - | GV7AP03 | 1910 |
| | | GV7AP01 | 3345 |
| Padlocking device - 1..3 padlocks Ø 5..8mm shank (3) | - | GV7V01 | 515 |
| Phase barriers | - | GV7AC04 | 575 |
| Terminal shields IP405 (1) | - | GV7AC01 | 1175 |
| **For GV7** | | | |
| Shunt release | 110...130 V AC 50/60 Hz | GV7AS107 | 2540 |
| | 200...240 V AC 50/60 Hz | GV7AS207 | |
| | 380...440 V AC 50/60 Hz | GV7AS387 | |
| Under Voltage release | 110...130 V AC 50/60 Hz | GV7AU107 | 2720 |
| | 200...240 V AC 50/60 Hz | GV7AU207 | |
| | 380...440 V AC 50/60 Hz | GV7AU387 | |
| 3-pole spreader - for Motor circuit breaker GV7 45 mm pitch | | GV7AC03 | 750 |

(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

Please contact Customer Care Center for Stockable and Non stockable status of references.

☑ NORMAL STOCK ITEMS

W.E.F. February 01, 2013

## Vario Switch Disconnectors

| [Ithe] Conventional Thermal Current** | Poles Description | Rated Operational Power (AC 23)* | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **Complete Enclosed Switches** | | | | |
| • Range 12 to 175 A, IP 65 Sealable and Lockable | | | | |
| 10 A | 3P | 4 kW | VCF02GE | 1685 |
| 16 A | 3P | 5.5 kW | VCF01GE | 1835 |
| 20 A | 3P | 7.5 kW | VCF0GE | 2340 |
| 25 A | 3P | 11 kW | VCF1GE | 2510 |
| 32 A | 3P | 15 kW | VCF2GE | 2945 |
| 50 A | 3P | 22 kW | VCF3GE | 4360 |
| 63 A | 3P | 30 kW | VCF4GE | 5350 |

* Rated Power at 415 V
** Ith in enclosure

| For Switch Type (Amps) | Mounting Arrangement | Ingress | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **Operators (Padlockable)** | | | | |
| 12 - 40 A | 4 Screw Fixing | IP65 | KCF1PZ | 370 |
| 63 - 80 A | 4 Screw Fixing | IP65 | KCF2PZ | 400 |
| 125 - 175 A | 4 Screw Fixing | IP40 | KCF3PZ | 1665 |

## Vario Switch Disconnectors

| [Ith] Conventional Thermal Current | Poles Description | Reference | Unit MRP [₹] |
|---|---|---|---|
| **Complete Switch with Padlockable Operator** | | | |
| • Suitable for Front Mounting or Base Mounting | | | |
| 12 A | 3P | VCF02 | 1055 |
| 20 A | 3P | VCF01 | 1150 |
| 25 A | 3P | VCF0 | 1345 |
| 32 A | 3P | VCF1 | 1470 |
| 40 A | 3P | VCF2 | 1830 |
| 63 A | 3P | VCF3 | 2628 |
| 80 A | 3P | VCF4 | 3110 |
| 125 A | 3P | VCF5 | 7155 |
| 175 A | 3P | VCF6 | 8680 |
| **Switch Bodies** | | | |
| 12 A | | V02 | 710 |
| 20 A | | V01 | 825 |
| 25 A | | V0 | 995 |
| 32 A | | V1 | 1145 |
| 40 A | | V2 | 1470 |
| 63 A | | V3 | 1970 |
| 80 A | | V4 | 2715 |
| 125 A | | V5 | 5520 |
| 175 A | | V6 | 7040 |

## Accessories

| Description | For Use with Switch Bodies | Rating Pole | Pole Composition | Earth Contact | Auxiliary Contacts | Reference | Unit MRP [₹] |
|---|---|---|---|---|---|---|---|
| **Vario Add-on Modules (1)** | | | | | | | |
| Main Pole Module | V02/VCF02 | 12 A | 1P | - | - | VZ02 | 485 |
| | V0/1/VCF01 | 20 A | 1P | - | - | VZ01 | 500 |
| | V0/VCF0 | 25 A | 1P | - | - | VZ0 | 520 |
| | V1/VCF1 | 32 A | 1P | - | - | VZ1 | 540 |
| | V2/VCF2 | 40 A | 1P | - | - | VZ2 | 580 |
| | V3/VCF3 | 63 A | 1P | - | - | VZ3 | 720 |
| | V4/VCF4 | 80 A | 1P | | - | VZ4 | 720 |
| Neutral Pole Module (2) | V02 / VCF02 to V2 / VCF2 | - | 1N | - | - | VZ11 | 620 |
| | V3 / VCF3 to V4 / VCF4 | - | 1N | - | - | VZ12 | 800 |
| | V5 / VCZ5 to V6 / VCZ6 | - | 1N | - | - | VZ13 | 1655 |
| Earthing Module | V02 / VCF02 to V2 / VCF20 | - | - | - | - | VZ14 | 605 |
| | V3 / VCF3 to V4 / VCF4 | - | - | 1 | - | VZ15 | 720 |
| | V5 / VCZ5 to V6 / VCZ6 | - | - | 1 | - | VZ16 | 1085 |
| Auxiliary Contact Block Module | V02/ VCF02 to V6 / VCZ6 | - | - | - | 1 NO + 1 NC | VZ7 | 605 |
| | V2/ VCF02 to V6 / VCZ6 | - | - | - | 2 NO | VZ20 | 605 |

(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 | 605 |
| | | VZ30 | 720 |
| Shaft extension - for Mini-VARIO and VARIO - V3 V4 V5 V6 | V3, V4, V5, V6 | VZ18 | 720 |
| | | VZ31 | 830 |
| Door interlock plate | VZ17 / VZ30 | KZ32 | 150 |
| | VZ18/31 | KZ74 | 270 |
| **Input Terminal Protection Shrouds** | | | |
| Terminal Shrouds | V02 - V2 | VZ8 | 205 |
| | V3 - V4 | VZ26 | 165 |
| | | VZ9 | 205 |
| | V5 - V6 | VZ27 | 165 |
| | | VZ10 | 270 |
| | V02 - V6 | VZ28 | 315 |
| | | VZ29 | 205 |

Please contact Customer Care Center for Stockable and Non stockable status of references.

☑ NORMAL STOCK ITEMS

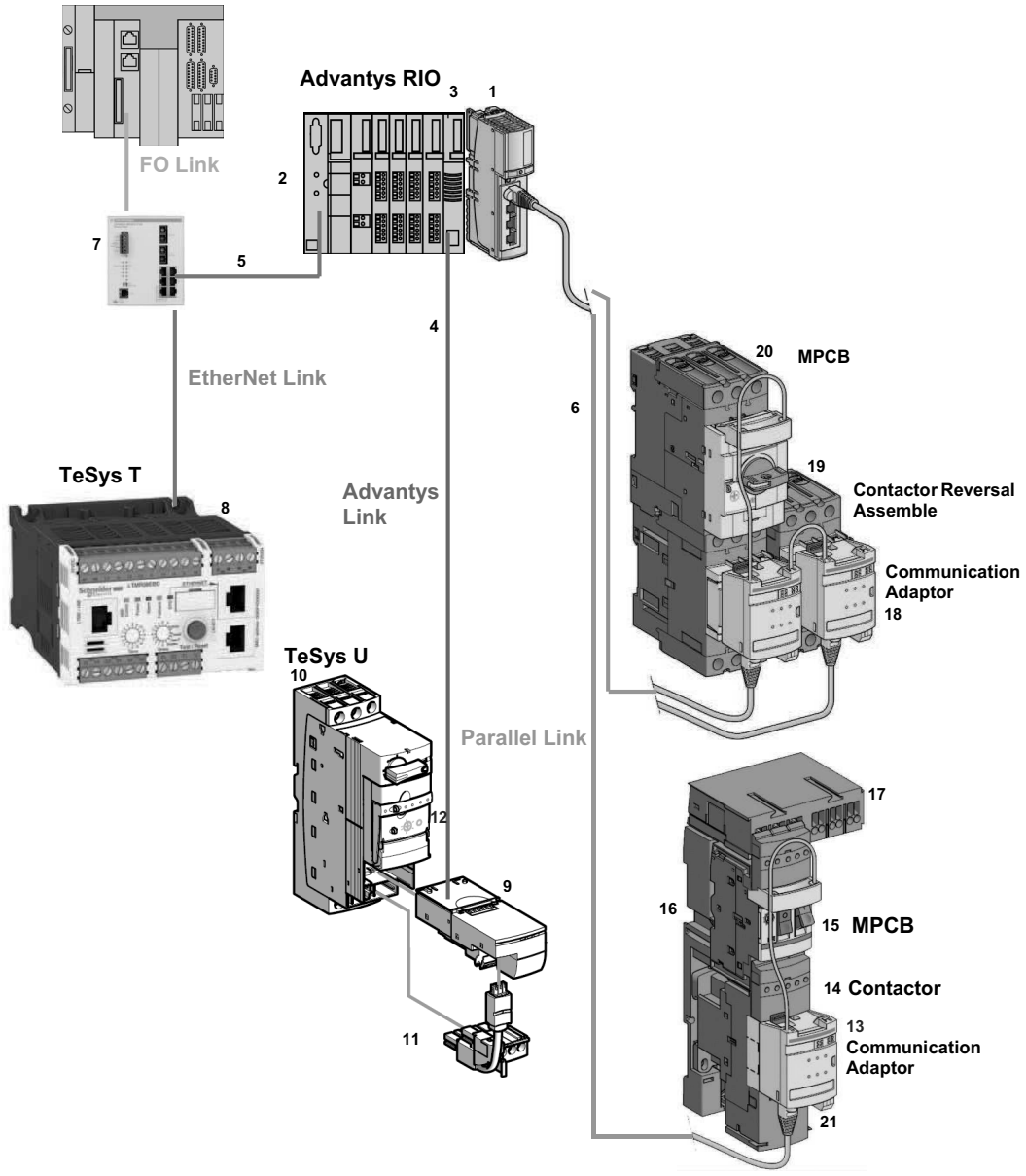
W.E.F. February 01, 2013

# TeSys Communication systems on Ethernet NEW

> This solution enables communication of conventional starter, Tesys U and Tesys T with PLC for status, control & monitoring on Ethernet.

> The communication module connected to Advantys RIO system can be directly mounted on control terminals of conventional contactors & MPCB .TeSys U module with Advantys communication card can be incorporated in similar architecture.

> Advantys RIO system will be further connected to PLC on Ethernet to give status, control and monitoring functionalities.




1. STB EPI 2145 Parallel Module
2. STB NIP 2210 (Ethernet TCP/IP)
3. (EOS/End of segment) STB XBE1100.
4. Bus connecting cable LU9 RCD**
5. Cat 5 Ethernet Cable.
6. LU9 R * - Connecting Cable.
7. Ethernet Switch.
8. LTMR**EFM.
9. LULC15 – Advantys Card.
10. LUB12/LUB32 – Base.
11. LU9BN11L- Pre Connector.
12. LUCB**BL – Control Unit.
13. LAD 9AP**
14. LC1 D**3
15. GV2 ME**3
16. LAD 3B1
17. LAD 352
18. LC2 DppA3
19. LAD 9AP**
20. GV3P
21. LAD 331

**Note:** For complete references, please contact our nearest Sales Office.

# Bring Intelligence to your Motor Control Centers




- **TeSys T Motor Management system has inbuilt Ethernet connectivity with dual port , which will communicate with PLC directly .**
- **TeSys T supports status, control, and monitoring functionalities on communication for motor starter.**
- **Dual Ethernet port in Tesys T helps to achieve Ring type daisy chain architecture**

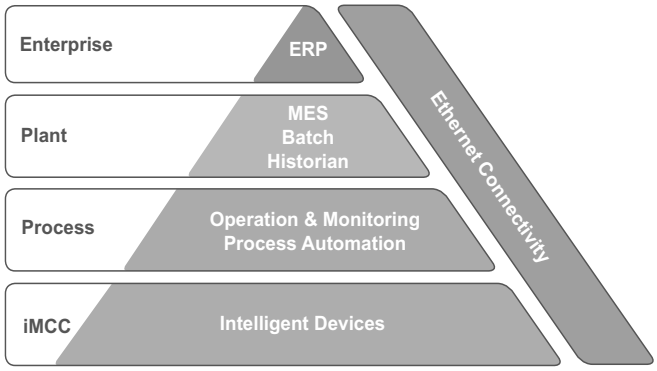
## TeSys T




## A step forward to the continuity of services

## Lead Your Efficiency With TeSys >>





## TeSys T Motor Management System - Controllers



- 0.4-810 Amps with inbuilt CTs up to 100 Amps.
- 24V DC and 110 VAC Control Voltages available
- 6 DI and 4 DO with main module and extendable further using expansion module
- Modbus/Profibus/CanOpen/DeviceNet/Ethernet Connectivity to choose
- Integrated Protection and Measurement with full functions
- Quick interface with PC/PLC
- Dedicated HMI-LTMCU
- Saves Engineering and Commissioning Time
- Reduces Process Downtime and Maintenance Cost

| Description | Modbus Reference | Profibus Reference | Unit MRP [₹] |
|---|---|---|---|
| 0.4 to 8A | LTMR08M** | LTMR08P** | On Request |
| 1.35 to 27A | LTMR27M** | LTMR27P** | On Request |
| 5 to 100A | LTMR100M** | LTMR100P** | On Request |

**Note:** Above 100 Amps external CT required.

| | | |
|---|---|---|
| Extention modules | LTMEV40** | On Request |

**Note:** For other communication protocols, please contact our nearest Sales Office.

### ** Coil Voltage Code

| VOLTAGE | |
|---|---|
| 24 DC | BD |
| 110 VAC | FM |

## TeSys U Starter-Controllers



- Total coordinated starter solution with 3 functions in 1 device
- Compact size for DOL/RDOL starter up to 15 kW, 32A (AC-3)
- Direct Connectivity to Modbus/Profibus/CanOpen/DeviceNet
- Complete current-based Protection and Measurement in 1 device
- High Operational Temperature (-40°C to +60°C)
- Wide range of Coil Voltages
- 50 kA Breaking Capacity
- Direct Connectivity to Modbus/Profibus/CanOpen/DeviceNet

| Description | Rating at 440 V kW | Reference | Unit MRP [₹] |
|---|---|---|---|
| **Power Bases for Non-Reversing D.O.L. Starter** | | | |
| 12 A | Upto 5.5 | LUB12 | On Request |
| 32 A | Upto 15 | LUB32 | On Request |

| Description | Rating at 440 V kW | Standard Reference | Advanced Reference | Multifunction Reference | Unit MRP [₹] |
|---|---|---|---|---|---|
| **Control Units** | | | | | |
| 0.15…0.6 A | 0.09 | LUCAX6** | LUCBX6** | LUCMX6BL | On Request |
| 0.35…1.4 A | 0.25 | LUCA1X** | LUCB1X** | LUCM1XBL | On Request |
| 1.25…5 A | 1.5 | LUCA05** | LUCB05** | LUCM05BL | On Request |
| 3…12 A | 5.5 | LUCA12** | LUCB12** | LUCM12BL | On Request |
| 4.5…18 A | 7.5 | LUCA18** | LUCB18** | LUCM18BL | On Request |
| 8…32 A | 15 | LUCA32** | LUCB32** | LUCM32BL | On Request |

**Note:** To make the complete unit you need to order base and any of the control units

### ** Coil Voltage Code

| VOLTAGE | 24 | 48...72 | 100...240 |
|---|---|---|---|
| DC | BL (1) (2) | - | - |
| AC | B | - | - |
| AC/DC | - | ES (3) | FU (4) |

(1) Voltage code to be used for a starter-controller with communication module.
(2) DC voltage with maximum ripple of ± 10 %.
(3) DC: 48…72 V, AC: 48 V.
(4) DC: 110…220 V, AC: 110...240 V.

Please contact Customer Care Center for Stockable and Non stockable status of references.

☑ NORMAL STOCK ITEMS

W.E.F. February 01, 2013

# Jeevan and TE Start - Lifeline of Motors





# Jeevan Motor Starters

- Complete range of manual DOL & Star delta starters & automatic DOL starters
- Suitable for humid, high temperature & tropical environment
- Ability to withstand wide voltage fluctuation (55% - 110%)

## DOL Starters

| Motor Power HP | Thermal Protection Adjustment Range | Lot Order Quantity | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **3CDL Automatic 1 Phase (0.5 - 3 H.P)** | | | | |
| 0.5 | 3.5...6 A | 8 | MS11AB07* | 1185 |
| 0.75 | 6...9 A | 8 | MS11AB08* | |
| 1 | | 8 | MS11AB09* ☑ | |
| 1.5 | 9...14 A | 8 | MS11AB10* | |
| 2 | | 8 | MS11AB11* ☑ | |
| 3 | 12...18 A | 8 | MS11AB12* ☑ | |
| **MF2A Automatic 1 Phase (0.33 - 4 H.P)** | | | | |
| 0.33 | 2.5...4 A | 8 | MS11AG06* | 1810 |
| 0.5 | 4...6.5 A | 8 | MS11AG07* | |
| 1 | 6...10 A | 8 | MS11AG09* | |
| 1.5 | 9...16 A | 8 | MS11AG10* | |
| 2 | | 8 | MS11AG11* | |
| 3 | | 8 | MS11AG12* | |
| 4 | 12...21 A | 8 | MS11AG13* | |
| **MF2A Automatic 3 Phase (0.33 - 10 H.P)** | | | | |
| 0.33 | 0.82...0.98 A | 8 | MS13AG06* | 1810 |
| 0.5 | 1.2...1.4 A | 8 | MS13AG07* | |
| 0.75 | 1.4...1.6 A | 8 | MS13AG08* | |
| 1 | 1.8...2.2 A | 8 | MS13AG09* | |
| 1.5 | 2.5...4 A | 8 | MS13AG10* | |
| 2 | | 8 | MS13AG11* ☑ | |
| 3 | 4...6.5 A | 8 | MS13AG12* ☑ | |
| 5 | 6...10 A | 8 | MS13AG14* ☑ | |
| 7.5 | 9...16 A | 8 | MS13AG15* | |
| 10 | | 8 | MS13AG16* ☑ | |
| **7MDL Manual 1 Phase (0.125 - 3 H.P)** | | | | |
| 0.125 | 1...1.6 A | 20 | MS11MD03 | 815 |
| 0.17 | | 20 | MS11MD04 | |
| 0.25 | 2.4...4 A | 20 | MS11MD05 | |
| 0.33 | | 20 | MS11MD06 | |
| 0.5 | 4...6 A | 20 | MS11MD07 | |
| 0.75 | 6...10 A | 20 | MS11MD08 | |
| 1 | | 20 | MS11MD09 ☑ | |
| 1.5 | 8.5...14 A | 20 | MS11MD10 | |
| 2 | | 20 | MS11MD11 ☑ | |
| 3 | 13...18 A | 20 | MS11MD12 | |
| **7MDL Manual 3 Phase (0.05 - 7.5 H.P)** | | | | |
| 0.05 | 0.16...0.24 A | 20 | MS13MD01 | 965 |
| 0.1 | 0.24...0.4 A | 20 | MS13MD02 | |
| 0.125 | | 20 | MS13MD03 | |
| 0.17 | 0.4...0.6 A | 20 | MS13MD04 | |
| 0.25 | 0.6...1 A | 20 | MS13MD05 | |
| 0.33 | 1...1.6 A | 20 | MS13MD06 | |
| 0.5 | | 20 | MS13MD07 | |
| 0.75 | | 20 | MS13MD08 | |
| 1 | 1.6...2.4 A | 20 | MS13MD09 | |
| 1.5 | 2.4...4 A | 20 | MS13MD10 | |
| 2 | | 20 | MS13MD11 | |
| 3 | 4...6 A | 20 | MS13MD12 | |
| 5 | 6...10 A | 20 | MS13MD14 | |
| 7.5 | 8.5...14 A | 20 | MS13MD15 | |

## Star Delta Starters

| Motor Power HP | Thermal Protection Adjustment Range | Lot Order Quantity | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **MWA/LWA Manual, 3 Phase (3 - 20 H.P)** | | | | |
| 3 | 4.7...5.7 A | 4 | MS23ME12* | 3535 |
| 5 | 6.9...11.3 A | 4 | MS23ME14* | |
| 7.5 | 10.9...13.3 A | 4 | MS23ME15* | |
| 10 | 14.2...16.9 A | 4 | MS23ME16* | |
| 12.5 | 15.6...27.7 A | 4 | MS23ME17* | |
| 15 | | 4 | MS23ME18* | |
| 20 | 27.3...34.6 A | 4 | MS23MH20* | 4475 |

### Coil Voltage Code

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

Operating Band Details:

| | |
|---|---|
| For 3CDL, M5 | 220V = 120V ~ 240V, |
| For MF2A, P5 | 230V = 160V ~ 260V, |
| For MF2A and M/LWA, W5 | 360V = 200 ~ 400V |
| For MF2A and M/LWA, N5 | 415V = 260 ~ 460V |

**Note:** For ordering other coil voltages, please contact our regional Sales Office.

### * Coil Voltage Code

| VOLTAGE | 220 | 230 | 360 | 415 |
|---|---|---|---|---|
| 50 Hz | M5 | P5 | W5 | N5 |

Please contact Customer Care Center for Stockable and Non stockable status of references.

☑ NORMAL STOCK ITEMS

W.E.F. February 01, 2013

# TE Start Motor Starters

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

## DOL Starters



| Motor Power HP | Thermal Protection Adjustment Range | Device Short Name | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **TDL, Automatic 1 Phase (0.17 - 3 HP)** | | | | |
| 0.17 | 1.1...1.7 A | 5TDL | MS11AC04* | 1975 |
| 0.33 | 2.5...4 A | 5TDL | MS11AC06* | |
| 0.5 | 4...6 A | 5TDL | MS11AC07* | |
| 1 | 5.5...8 A | 5TDL | MS11AC09* | |
| 1.5 | 9...13 A | 10TDL | MS11AC10* | 2205 |
| 2 | | 10TDL | MS11AC11* | |
| 3 | 12...18 A | 10TDL | MS11AC13* | |
| **TDL, Automatic 3 Phase (0.05 - 125 HP)** | | | | |
| 0.05 | 0.16...0.25 A | 5TDL | MS13AC01* | 1975 |
| 0.125 | 0.24...0.4 A | 5TDL | MS13AC03* | |
| 0.17 | 0.4...0.63 A | 5TDL | MS13AC04* | |
| 0.25 | 0.63...1 A | 5TDL | MS13AC05* | |
| 0.33 | | 5TDL | MS13AC06* | |
| 0.5 | 1...1.7 A | 5TDL | MS13AC07* | |
| 0.75 | | 5TDL | MS13AC08* | |
| 1 | 1.6...2.5 A | 5TDL | MS13AC09* ☑ | |
| 1.5 | | 5TDL | MS13AC10* | |
| 2 | 2.5...4 A | 5TDL | MS13AC11* ☑ | |
| 3 | 4...6 A | 5TDL | MS13AC12* ☑ | |
| 5 | 5.5...8 A | 5TDL | MS13AC14* ☑ | |
| 7.5 | 9...13 A | 10TDL | MS13AC15* ☑ | |
| 10 | 12...18 A | 10TDL | MS13AC16* ☑ | 2205 |
| 12.5 | 16...24 A | 15TDL | MS13AC17* | 3740 |
| 15 | | 15TDL | MS13AC18* ☑ | |
| 17.5 | 23...32 A | 20TDL | MS13AC19* | 6330 |
| 20 | | 20TDL | MS13AC20* | |
| 25 | 30...40 A | 30TDL | MS13AC21* | 9610 |
| 30 | 37...50 A | 30TDL | MS13AC22* | |
| 40 | 48...65 A | 40TDL | MS13AC24* | 12610 |
| 50 | 63...80 A | 50TDL | MS13AC26* | 14320 |
| 75 | 84...135 A | 75TDL | MS13AC28* | 22325 |
| 100 | 124...198 A | 100TDL | MS13AC29* | 28760 |
| 125 | | 125TDL | MS13AC30* | 31515 |
| **TRS, Automatic Reversing 3 Phase (3 - 20 HP)** | | | | |
| 3 | 4...6 A | 10TRS | MS13RJ12* | 5490 |
| 5 | 5.5...8 A | 10TRS | MS13RJ14* | |
| 7.5 | 9...13 A | 10TRS | MS13RJ15* | |
| 10 | 12...18 A | 10TRS | MS13RJ16* | |
| 12.5 | 16...24 A | 20TRS | MS13RJ17* | 9000 |
| 15 | | 20TRS | MS13RJ18* | |
| 17.5 | 23...32 A | 20TRS | MS13RJ19* | 9490 |
| 20 | | 20TRS | MS13RJ20* | |

## Star Delta Starters



| Motor Power HP | Thermal Protection Adjustment Range | Device Short Name | Reference | Unit MRP [₹] |
|---|---|---|---|---|
| **TSD/A, Automatic 3 Phase (7.5 - 400 HP)** | | | | |
| 7.5 | 5.5...8 A | 15TSDA | MS23AI15* | 6800 |
| 10 | 7...10 A | 15TSDA | MS23AI16* ☑ | 6800 |
| 12.5 | 9...13 A | 15TSDA | MS23AI17* | 6900 |
| 15 | | 15TSDA | MS23AI18* ☑ | 6900 |
| 20 | 12...18 A | 30TSDA | MS23AI20* ☑ | 7840 |
| 25 | 16...24 A | 30TSDA | MS23AI21* ☑ | 8900 |
| 30 | 23...32 A | 30TSDA | MS23AI22* ☑ | 10295 |
| 35 | | 40TSDA | MS23AI23* | 16515 |
| 40 | 30...38 A | 40TSDA | MS23AI24* | 17370 |
| 50 | 37...50 A | 50TSDA | MS23AI26* | 21090 |
| 60 | | 75TSDA | MS23AI27* | 36595 |
| 75 | 45...65 A | 75TSDA | MS23AI28* | 39070 |
| 100 | 62...99 A | 100TSDA | MS23AI29* | 50850 |
| 125 | 84...135 A | 125TSDA | MS23AI30* | 53315 |
| 150 | | 150TSDA | MS23AI31* | 65720 |
| 200 | 124...198 A | 200TSDA | MS23AI32* | 78985 |
| 250 | 174...279 A | 250TSDA | MS23AI33* | 99680 |
| 400 | 259...414 A | 400TSDA | MS23AI34* | 131600 |

### *Coil Voltage Code

| VOLTAGE | 220 | 415 |
|---|---|---|
| AC 50 Hz | M5 | N5 |

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

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

## Starters D.O.L

| Thermal protection Adjustment Range | Motor Power kW | Reference | Unit MRP [₹] |
|---|---|---|---|
| **LE1-M Model Enclosed** | | | |
| • Conforming to IEC 947-4-1 for motors upto 7.5 kW | | | |
| 0.54...0.8 A | 0.25 | LE1M35**05 | 2885 |
| 0.8...1.2 A | 0.37 | LE1M35**06 | |
| 1.2...1.8 A | 0.55 | LE1M35**07 | |
| 1.8...2.6 A | 0.75 | LE1M35**08 | |
| 2.6...3.7 A | 1.50 | LE1M35**10 | |
| 3.7...5.5 A | 2.20 | LE1M35**12 | |
| 5.5...8 A | 3 | LE1M35**14 | 3030 |
| 8...11.5 A | 4 | LE1M35**16 | |
| 10...14 A | 5.50 | LE1M35**21 | |
| 12...16 A | 7.50 | LE1M35**22 | 3220 |

### ** Coil Voltage Code

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

Please contact Customer Care Center for Stockable and Non stockable status of references.

☑ NORMAL STOCK ITEMS

W.E.F. February 01, 2013

# Starters Spares

## Spare Parts

| Description | Lot Order Quantity | Reference | Unit MRP [₹] |
|---|---|---|---|
| **Common for MF2A & LWA2SD/MWA2SD Starters** | | | |
| OLSPM Relay w/o Heater | 10 | MSR1G01 | 730 |
| OLSPM Relay (1.2 - 1.4A) | 10 | MSR1G02 | 850 |
| OCSPM Relay (1.4 - 1.6A) | 10 | MSR1G03 | |
| OLSPM Relay (2.5 - 4.0A) | 10 | MSR1G04 | |
| OLSPM Relay (4 - 6.5A) | 10 | MSR1G05 | |
| OLSPM Relay (6 - 10A) | 10 | MSR1G06 | |
| OLSPM Relay (9 - 16A) | 10 | MSR1G07 | |
| OLSPM Relay (12 - 21A) | 10 | MSR1G08 | |
| OLSPM Relay w/o Heater | 10 | MSR3G01 | 730 |
| OLSPM Relay (0.82 - 0.98A) | 10 | MSR3G02 | 850 |
| OLSPM Relay (1.2 - 1.4A) | 10 | MSR3G03 | |
| OLSPM Relay (1.4 - 1.6A) | 10 | MSR3G04 | |
| OLSPM Relay (1.8 - 2.2A) | 10 | MSR3G05 | |
| OLSPM Relay (2.5 - 4A) | 10 | MSR3G06 | |
| OLSPM Relav (4 - 6.5A) | 10 | MSR3G07 | |
| OLSPM Relay (6 - 10A) | 10 | MSR3G08 | |
| OLSPM Relay (9 - 16A) | 10 | MSR3G09 | |
| OLSPM Relay (6.9 - 11.3A) | 10 | MSR3E02 | |
| OLSPM Relay (10.4 - 17.3A) | 10 | MSR3E03 | |
| OLSPM Relay (15.6 - 27.7A) | 10 | MSR3E04 | |
| OLSPL Relay w/o Heater | 10 | MSR3H01 | 1010 |
| OLSPL Relay (27.7 - 34.6A) | 10 | MSR3H02 | 1275 |
| WGA Heater Set for MF2A (0.82~0.98) | 10 | MSHG06 | 165 |
| WDB Heater Set for MF2A (1.2~1.4) | 10 | MSHG07 | |
| WDA Heater Set for MF2A (1.4~1.6) | 10 | MSHG08 | |
| WBB Heater Set for MF2A (1.8~2.2) | 10 | MSHG09 | |
| AW Heater Set for MF2A (2.5~4.00) | 10 | MSHG11 | |
| DW Heater Set for MF2A (4.00~6.50) | 10 | MSHG12 | |
| WS Heater Set for MF2A (12~21) | 10 | MSHG13 | |
| GW Heater Set for MF2A (6~10) | 10 | MSHG14 | |
| LW Heater Set for MF2A (9~16) | 10 | MSHG16 | |
| LW Heater Set for MWA2SD (15.6 - 27.7) | 10 | MSHE18 | |
| DW Heater Set for MWA2SD (6.9 - 11.3) | 10 | MSHE14 | |
| GW Heater Set for MWA2SD (14.2 - 16.9) | 10 | MSHE16 | |
| SW Heater Set for LWA2SD (27.3 - 34.6) | 10 | MSHH20 | 280 |
| **Standard Spares of 7 MDL** | | | |
| Relay with Trip Bracket (1 - 1.6A) | 10 | MSR1D01 | 325 |
| Relay with Trip Bracket (2.4 - 4A) | 10 | MSR1D02 | |
| Relay with Trip Bracket (4 - 6A) | 10 | MSR1D03 | |
| Relay with Trip Bracket (6 - 10A) | 10 | MSR1D04 | |
| Relay with Trip Bracket (8.5 - 14A) | 10 | MSR1D05 | |
| Relay with Trip Bracket (13 - 18A) | 10 | MSR1D06 | |
| Relay with Trip Bracket (0.16 - 0.20A) | 10 | MSR3D01 | |
| Relay with Trip Bracket (0.24 - 0.40A) | 10 | MSR3D02 | |
| Relay with Trip Bracket (0.6 - 1A) | 10 | MSR3D04 | |
| Relay with Trip Bracket (1 - 1.6A) | 10 | MSR3D05 | |
| Relay with Trip Bracket (1.6 - 2.4A) | 10 | MSR3D06 | |
| Relay with Trip Bracket (2.4 - 4A) | 10 | MSR3D07 | |
| Relay with Trip Bracket (4 - 6A) | 10 | MSR3D08 | |
| Relay with Trip Bracket (6 - 10A) | 10 | MSR3D09 | |
| Relay with Trip Bracket (8.5 - 14A) | 10 | MSR3D10 | |
| Base Assembly with Pushbutton Mechanism | 10 | MSMD01 | 340 |
| Protective Cover w/o U/V | 10 | MSMD02 | 115 |

## Spare Parts

| Description | Lot Order Quantity | Reference | Unit MRP [₹] |
|---|---|---|---|
| **For Direct Online Starter MF2A** | | | |
| MF1 contactor with 230V | 10 | MSMG01 | 1130 |
| MF1 contactor with 360V | 10 | MSMG02 | |
| MF1 contactor with 415V | 10 | MSMG03 | |
| Contact Kit | 10 | MSCG | 565 |
| 360V (200-400V) 50Hz Coil | 10 | MSXGW5 | 300 |
| 415V (260-460V) 50Hz Coil | 10 | MSXGN5 | |
| 230V (160-260V) 50Hz Coil | 10 | MSXGP5 | |
| Cover Fixing Screws | 10 | MSMG04 | 45 |
| Pushbutton Assembly | 10 | MSMG05 | 190 |
| **For Automatic Single Phase DOL Starter Type 3CDL** | | | |
| Overload Relay (3.6 - 6A) | 10 | MSR1B01 | 700 |
| Overload Relay (6 - 9A) | 10 | MSR1B02 | |
| Overload Relay (9 - 14A) | 10 | MSR1B03 | |
| Overload Relay (12 - 18A) | 10 | MSR1B04 | |
| Contactor with 220V Coil | 10 | MSMB01 | 850 |
| Contactor with 240V Coil | 10 | MSMB02 | |
| Contact Kit | 10 | MSCB | 190 |
| 220V (120-240V) 50Hz Coil | 10 | MSXBM5 | |
| Red Pushbutton Assembly | 10 | MSMB03 | 75 |
| Green Pushbutton Assembly | 10 | MSMB04 | |
| Starter Case | 10 | MSMB05 | 105 |
| Starter Cover | 10 | MSMB06 | |
| Rubber Groumet | 10 | MSMB07 | 55 |
| **For Star Delta Starters Type MWA2SD/LWA2SD** | | | |
| 360V (200 - 400V) Coil Assembly | 10 | MSXEW5 | 590 |
| 415V (260 - 460V) Coil Assembly | 10 | MSXEN5 | |
| Stop Pushbutton Assembly | 10 | MSME01 | 95 |
| Fixed Contact | 10 | MSCE01 | 380 |
| Moving Contact | 10 | MSCE02 | |
| Drum Core | 10 | MSME02 | 85 |
| Finger Contact Springs | 10 | MSME03 | 65 |
| Finger Base | 10 | MSME04 | 80 |
| Handle Rod and Handle Centre | 10 | MSME05 | 190 |
| **For TDL, TRS & TSD/A Starters** | | | |
| Pushbutton Actuator Assembly for 10/40/50/75/100/125 TDL | 10 | MSMC02 | 150 |
| Pushbutton Switch Assembly for 10 TDL | 10 | MSMC03 | 310 |
| Start Pushbutton Assembly for 40 - 400 TSDA | 10 | MSMI01 | 200 |
| Stop Pushbutton Assembly for 40 - 400 TSDA | 10 | MSMI02 | |
| 9 Way Terminal Block for 15 TSDA | 10 | MSMI03 | 295 |
| 9 Way Terminal Block for 30 TSDA | 10 | MSMI04 | |
| 9 Way Terminal Block for 40 - 75 TSDA | 10 | MSMI05 | 720 |
| Electronic Timer for 15 - 400 TSDA | 10 | MSMI06 ☑ | 1415 |
| Pushbutton Actuator Assembly for 15/20/30 TDL, 10/20 TRS &15/30 TSDA | 10 | MSMK01 | 335 |

**Note:-** For Spare coil, contactor, O/L relay and accessories, please see Activa pricelist separately.

Please contact Customer Care Center for Stockable and Non stockable status of references.

☑ NORMAL STOCK ITEMS

W.E.F. February 01, 2013

# Selection Chart:

## EasyPact TVS DOL (Type 2 Co-ordination with Fuse)

- Standard: IEC 60947-4-1
- Fuses: Cooper Bussmann
- Iq (A): 50KA
- Ue: 415Vac / 50Hz
- Contactor Coil: Type M5 (220 Vac/ 50 Hz)

| Motor Output | | FLC | SDF (NX Range) | | | Contactor | | Thermal Overload Relay | |
|---|---|---|---|---|---|---|---|---|---|
| KW | HP | I(A) | Type | Fuse Type | Fuse Rating (A) | Type | AC3 (A) | Type | Range (A) |
| 0.37 | 0.5 | 1 | NX32 | 6NHG000B | 6 | LC1E09 | 9 | LRE06 | 1.0 - 1.6 |
| 0.55 | 0.75 | 1.5 | NX32 | 6NHG000B | 6 | LC1E09 | 9 | LRE06 | 1.0 - 1.6 |
| 0.75 | 1 | 2 | NX32 | 6NHG000B | 6 | LC1E09 | 9 | LRE07 | 1.6 - 2.5 |
| 1.5 | 2 | 3.5 | NX32 | 16NHG000B | 16 | LC1E09 | 9 | LRE08 | 2.5 - 4.0 |
| 2.2 | 3 | 5 | NX32 | 16NHG000B | 16 | LC1E09 | 9 | LRE10 | 4.0 - 6.0 |
| 3 | 4 | 6.8 | NX32 | 20NHG000B | 20 | LC1E09 | 9 | LRE12 | 5.5 - 8.0 |
| 4 | 5.5 | 8.4 | NX32 | 20NHG000B | 20 | LC1E09 | 9 | LRE14 | 7.0 - 10 |
| 5.5 | 7.5 | 11.2 | NX32 | 25NHG000B | 25 | LC1E12 | 12 | LRE16 | 9.0 - 13 |
| 7.5 | 10 | 14 | NX63 | 40NHG000B | 40 | LC1E18 | 25 | LRE21 | 12.0 - 18 |
| 9 | 12 | 18 | NX63 | 50NHG000B | 50 | LC1E25 | 25 | LRE22 | 16 - 24 |
| 11 | 15 | 21 | NX63 | 50NHG000B | 50 | LC1E32 | 32 | LRE22 | 16 - 24 |
| 15 | 20 | 28.5 | NX63 | 63NHG000B | 63 | LC1E32 | 40 | LRE32 | 23 - 32 |
| 18.5 | 25 | 34 | NX80 | 80NHG000B | 80 | LC1E40 | 40 | LRE355 | 30 - 40 |
| 22 | 30 | 42 | NX80 | 80NHG000B | 80 | LC1E50 | 50 | LRE357 | 37 - 50 |
| 30 | 40 | 57 | NX100 | 100NHG000B | 100 | LC1E65 | 65 | LRE359 | 48- 65 |
| 37 | 50 | 70 | NX100 | 125NHG00B | 125 | LC1E80 | 80 | LRE363 | 63- 80 |
| 45 | 60 | 81 | NX125 | 160NHG00B | 160 | LC1E95 | 95 | LRE365 | 80- 104 |
| 56 | 75 | 100 | NX160 | 160NHG00B | 160 | LC1E120 | 115 | LRE482 | 84- 135 |
| 80 | 107 | 138 | NX200 | 250NHG1B | 250 | LC1E160 | 150 | LRE483 | 124- 198 |
| 90 | 120 | 165 | NX250 | 250NHG1B | 250 | LC1E160 | 160 | LRE483 | 124- 198 |
| 100 | 135 | 182 | NX250 | 315NHG2B | 315 | LC1E200 | 200 | LRE483 | 124- 198 |
| 110 | 150 | 196 | NX315 | 315NHG2B | 315 | LC1E200 | 200 | LRE483 | 124- 198 |
| 132 | 177 | 240 | NX400 | 355NHG2B | 355 | LC1E250 | 250 | LRE485 | 174- 279 |
| 160 | 215 | 285 | NX400 | 400NHG2B | 400 | LC1E300 | 300 | LRE486 | 208- 333 |

## EasyPact TVS Star Delta (Type 2 Co-ordination with Fuse)

- Standard: IEC 60947-4-1
- Fuses: Cooper Bussmann
- Iq (A): 50KA
- Ue: 415Vac / 50Hz
- Contactor Coil: Type M5 (220 Vac/ 50 Hz)

| Motor Output | | FLC | | SDF (NX Range) | | | Contactor | | | | Thermal Overload Relay | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KW | HP | I Line (A) | I phase (A) | Type | Fuse Type | Fuse Rating (A) | Star Contactor | AC3- A | Main / Delta Contactor | AC3- A | Type | Range (A) |
| 1.5 | 2 | 4 | 2.3 | NX32 | 10NHC00G | 10 | LC1E09 | 9 | LC1E09 | 9 | LRE07 | 1.6-2.5 |
| 2.2 | 3 | 5 | 3 | NX32 | 16NHC00G | 16 | LC1E09 | 9 | LC1E09 | 9 | LRE08 | 2.5-4 |
| 3 | 4 | 7 | 4 | NX32 | 16NHC00G | 16 | LC1E09 | 9 | LC1E09 | 9 | LRE08 | 2.5-4 |
| 4 | 5.3 | 9 | 5 | NX32 | 20NHC00G | 20 | LC1E09 | 9 | LC1E09 | 9 | LRE10 | 4-6 |
| 5.5 | 7.5 | 10 | 6 | NX32 | 20NHC00G | 20 | LC1E09 | 9 | LC1E09 | 9 | LRE12 | 5.5-8 |
| 7.5 | 10 | 16 | 9 | NX32 | 32NHC00G | 32 | LC1E09 | 9 | LC1E09 | 9 | LRE14 | 7-10 |
| 9 | 12 | 17 | 10 | NX32 | 32NHC00G | 32 | LC1E09 | 9 | LC1E12 | 9 | LRE14 | 7-10 |
| 11 | 15 | 21 | 12 | NX63 | 50NHC00G | 50 | LC1E12 | 12 | LC1E12 | 12 | LRE16 | 9-13 |
| 15 | 20 | 28 | 16 | NX63 | 63NHC00G | 63 | LC1E18 | 18 | LC1E18 | 18 | LRE21 | 12-18 |
| 22 | 30 | 42 | 24 | NX63 | 80NHC00G | 80 | LC1E25 | 25 | LC1E25 | 25 | LRE32 | 23-32 |
| 30 | 40 | 57 | 33 | NX125 | 100NHG00B | 100 | LC1E40 | 40 | LC1E40 | 40 | LRE355 | 30-40 |
| 45 | 60 | 81 | 47 | NX125 | 125NHG00B | 125 | LC1E40 | 40 | LC1E50 | 50 | LRE357 | 37-50 |
| 55 | 75 | 100 | 58 | NX125 | 125NHG00B | 125 | LC1E40 | 40 | LC1E65 | 65 | LRE359 | 48-65 |
| 80 | 107 | 139 | 80 | NX200 | 200NHG1B | 200 | LC1E80 | 80 | LC1E80 | 80 | LRE363 | 63-80 |
| 110 | 150 | 196 | 113 | NX315 | 315NHG2B | 315 | LC1E300 | 300 | LC1E300 | 300 | LRE482 | 84~135 |
| 160 | 215 | 286 | 165 | NX400 | 355NHG2B | 355 | LC1E300 | 300 | LC1E300 | 300 | LRE483 | 124~198 |

W.E.F. February 01, 2013

# Selection Chart:

## Standard DOL Motor Starters (Type 1 Co-ordination with MPCB at 415 V)

- Fault indication features possible
- Chance of single phasing reduced
- No replacement of fuses
- More reliability
- No running cost

| Motor Rating kW | Operational Current in A | Iq* kA | Motor Circuit Breaker | Thermal Range | Contactor |
|---|---|---|---|---|---|
| 0.37 | 1.0 | 50 | GV2ME05 | 0.63-1 | LC1K06 |
| 0.55 | 1.5 | 50 | GV2ME06 | 1-1.6 | LC1K06 |
| 0.75 | 2.0 | 50 | GV2ME07 | 1.6-2.5 | LC1K06 |
| 1.1 | 2.5 | 50 | GV2ME08 | 2.5-4 | LC1K06 |
| 1.5 | 3.5 | 50 | GV2ME08 | 2.5-4 | LC1K06 |
| 2.2 | 5.0 | 50 | GV2ME10 | 4-6.3 | LC1K06 |
| 3.0 | 6.5 | 50 | GV2ME14 | 6-10 | LC1K09 |
| 4.0 | 8.4 | 50 | GV2ME14 | 6-10 | LC1K09 |
| 5.5 | 11.0 | 15 | GV2ME16 | 9-14 | LC1K12 |
| 7.5 | 14.8 | 15 | GV2ME20 | 13-18 | LC1D18 |
| 9.0 | 18.1 | 15 | GV2ME21 | 17-23 | LC1D25 |
| 11.0 | 21.0 | 15 | GV2 ME22 | 20-25 | LC1D25 |
| 15.0 | 28.5 | 10 | GV2ME32 | 24-32 | LC1D32 |
| 18.5 | 35.0 | 50 | GV3P40 | 30-40 | LC1D40A |
| 22.0 | 42.0 | 50 | GV3P50 | 37-50 | LC1D50A |
| 30.0 | 57.0 | 50 | GV3P65 | 48-65 | LC1D65A |
| 37.0 | 69.0 | 15 | GV3ME80 | 56-80 | LC1D80 |
| 45.0 | 81.0 | 25 | GV7RE100 | 60-100 | LC1D95 |
| 55.0 | 100.0 | 25 | GV7RE150 | 90-150 | LC1D115 |
| 75.0 | 135.0 | 35 | GV7RE150 | 90-150 | LC1D150 |
| 90.0 | 165.0 | 35 | GV7RE220 | 132-220 | LC1F185 |
| 110.0 | 200.0 | 35 | GV7RE220 | 132-220 | LC1F225 |

Iq* - Rated conditional short circuit at operational voltage 415/440V

## * High Performance DOL Motor Starters (Type 2 Co-ordination with MPCB at 415 V)

- No down time
- Fault indication features possible
- Chance of single phasing reduced
- No replacement of HRC fuses
- More reliability
- No running cost

| Motor Rating kW | Operational Current in A | Iq* kA | Motor Circuit Breaker | Thermal Range | Contactor |
|---|---|---|---|---|---|
| 0.37 | 1 | 130 | GV2ME05 | 0.63-1 | LC1D09 |
| 0.55 | 1.5 | 130 | GV2ME06 | 1-1.6 | LC1D09 |
| 0.75 | 2 | 130 | GV2ME07 | 1.6-2.5 | LC1D09 |
| 1.1 | 2.5 | 130 | GV2ME08 | 2.5-4 | LC1D09 |
| 1.5 | 3.5 | 130 | GV2ME08 | 2.5-4 | LC1D09 |
| 2.2 | 5 | 130 | GV2ME10 | 4-6.3 | LC1D09 |
| 3.0 | 6.5 | 130 | GV2ME14 | 6-10 | LC1D09 |
| 4.0 | 8.4 | 130 | GV2ME14 | 6-10 | LC1D09 |
| 5.5 | 11 | 130 | GV2ME16 | 9-14 | LC1D25 |
| 7.5 | 14.8 | 50 | GV2ME20 | 13-18 | LC1D25 |
| 9.0 | 18.1 | 50 | GV2ME21 | 17-23 | LC1D25 |
| 11.0 | 21 | 50 | GV2ME22 | 20-25 | LC1D25 |
| 15.0 | 28.5 | 35 | GV2ME32 | 25-32 | LC1D32 |
| 18.5 | 35 | 50 | GV3P40 | 30-40 | LC1D40A |
| 22.0 | 42 | 50 | GV3P50 | 37-50 | LC1D50A |
| 30.0 | 57 | 50 | GV3P65 | 48-65 | LC1D65A |
| 37.0 | 69 | 70 | GV7RS80 | 48-80 | LC1D80 |
| 45.0 | 81 | 70 | GV7RS100 | 60-100 | LC1D115 |
| 55.0 | 100 | 70 | GV7RS150 | 90-150 | LC1D150 |
| 75.0 | 135 | 70 | GV7RS150 | 90-150 | LC1D150 |
| 90.0 | 165 | 70 | GV7RS220 | 132-220 | LC1F185 |
| 110.0 | 200 | 70 | GV7RS220 | 132-220 | LC1F225 |

Iq* Rated conditional short circuit at operational voltage 415/440 V

* Breaking Capacity of Circuit Breakers can be increased by using current limiter type GV1L3.

# Selection Chart:

## Standard Star Delta Motor Starters (Type 1 Co-ordination with MPCB at 415 V)

- Fault indication features possible
- Chance of single phasing reduced
- No replacement of hrc fuses
- More reliability
- No running cost

| Motor Rating kW | Operational Current in A | Iq* kA | Motor Circuit Breaker | Thermal Range | Contactor |
|---|---|---|---|---|---|
| 1.5 | 3.5 | 50 | GV2ME08 | 2.5-4 | 3XLC1K06 |
| 2.2 | 5 | 50 | GV2ME10 | 4-6.3 | 3XLC1K06 |
| 3.0 | 6.5 | 50 | GV2ME14 | 6-10 | 3XLC1K06 |
| 4.0 | 8.4 | 50 | GV2ME14 | 6-10 | 3XLC1K06 |
| 5.5 | 11 | 15 | GV2ME16 | 9-14 | 3XLC1K06 |
| 7.5 | 14.8 | 15 | GV2ME20 | 13-18 | 3XLC1K09 |
| 9.0 | 18.1 | 15 | GV2ME21 | 17-23 | 3XLC1D12 |
| 11.0 | 21 | 15 | GV2ME22 | 20-25 | 3XLC1D12 |
| 15.0 | 28.5 | 10 | GV2ME32 | 24-32 | 3XLC1D18 |
| 18.5 | 35 | 50 | GV3P40 | 30-40 | 3XLC1D18 |
| 22.0 | 42 | 50 | GV3P50 | 37-50 | 3XLC1D32 |
| 30.0 | 57 | 50 | GV3P65 | 48-65 | 3XLC1D32 |
| 37.0 | 69 | 50 | GV3P65 | 48-65 | 3XLC1D40A |
| 45.0 | 81 | 25 | GV7RE100 | 60-100 | 3XLC1D50A |
| 55.0 | 100 | 25 | GV7RE100 | 60-100 | 3XLC1D50A |
| 75.0 | 135 | 35 | GV7RE150 | 90-150 | 3XLC1D80 |
| 90.0 | 165 | 35 | GV7RE220 | 132-220 | 3XLC1D115 |
| 110.0 | 200 | 35 | GV7RE220 | 132-220 | 3XLC1D115 |

Iq* Rated conditional short circuit at operational voltage 415/440 V

## * High Performance Star Delta Motor Starters (Type 2 Co-ordination with MPCB at 415 V)

- No down time
- Fault indication features possible
- No replacement of hrc fuses
- More reliability
- No running cost

| Motor Rating kW | Operational Current in A | Iq* Motor kA | Circuit Breaker | Thermal Range | Contactor |
|---|---|---|---|---|---|
| 1.5 | 3.5 | 130 | GV2P08 | 2.5-4.0 | 3XLC1D09 |
| 2.2 | 5 | 130 | GV2P10 | 4-6.3 | 3XLC1D18 |
| 3.0 | 6.5 | 130 | GV2P14 | 6-10 | 3XLC1D18 |
| 4.0 | 8.4 | 130 | GV2P14 | 6-10 | 3XLC1D18 |
| 5.5 | 11 | 130 | GV2P16 | 9-14 | 3XLC1D25 |
| 7.5 | 14.8 | 50 | GV2P20 | 13-18 | 3XLC1D25 |
| 9.0 | 18.1 | 50 | GV2P21 | 17-23 | 3XLC1D25 |
| 11.0 | 21 | 50 | GV2P22 | 20-25 | 3XLC1D25 |
| 15.0 | 28.5 | 50 | GV3P32 | 23-32 | 3XLC1D40A |
| 18.5 | 35 | 50 | GV3P40 | 30-40 | 3XLC1D50A |
| 22.0 | 42 | 50 | GV3P50 | 37-50 | 3XLC1D50A |
| 30.0 | 57 | 50 | GV3P65 | 48-65 | 3XLC1D65A |
| 37.0 | 69 | 70 | GV7RS80 | 48-80 | 3XLC1D80 |
| 45.0 | 81 | 70 | GV7RS100 | 60-100 | 3XLC1D115 |
| 55.0 | 100 | 70 | GV7RS100 | 60-100 | 3XLC1D115 |
| 75.0 | 135 | 70 | GV7RS150 | 90-150 | 3XLC1D150 |
| 90.0 | 165 | 70 | GV7RS220 | 132-220 | 3XLC1F185 |
| 110.0 | 200 | 70 | GV7RS220 | 132-220 | 3XLC1F225 |

Iq* Rated conditional short circuit at operational voltage 415/440 V

* Breaking Capacity of Circuit Breakers can be increased by using current limiter type GV1L3.

# Price List February 2013



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## Schneider Electric India Pvt. Ltd.

Corporate Office: 9th Floor, DLF Building No. 10, Tower C, DLF Cyber City, Phase II, Gurgaon 122002 Haryana
Tel.: ++91 124 3940400 Fax: ++91 124 4222036/ 037

***Ahmedabad***
Schneider Electric India (P) Ltd.
42 A, 4th Floor, Space House,
Opp. Shri Krishna Centre,
Mithakali Six Roads, Ahmedabad- 380009
Tel.: 079-39404000
Fax.: 079-26440368

***Bangalore***
Schneider Electric India (P) Ltd.
4th floor, Electra, Wing A,
Exora Business Parks, Marathahalli
Sarjapur Outer Ring Road,
Bangalore- 560103
Tel.: 080 4333 3333
Fax: 080 4333 3222

***Chandigarh***
Schneider Electric India (P) Ltd.
SCO - 13 - 14 - 15, Top Floor,
Sector - 34-A
Chandigarh -160022
Tel.: 0172-5076781 / 82 / 83/ 84
Fax.: 0172-2669043

***Chennai***
Schneider Electric India (P) Ltd.
No.108/5, 3rd Floor, DBS Westminister
Dr. Radhakrishnan Salai,
(Opp. President Hotel)
Mylapore, Chennai- 600004.
Tel.: 91-44-39143200

***Cochin***
Schneider Electric India (P) Ltd.
41 / 406- D1,3rd Floor, Beejay Towers,
Rajaji Road Cochin- 682035
Tel.: 0484-3048401 /2 /3 /4 /6
Fax.: 0484-3048405

***Coimbatore***
Schneider Electric India (P) Ltd.
No. -104, Classic Tower, 3rd Floor,
Trichy Road, Coimbatore- 641018
Tel.: 0422-4392729 / 4392927
Fax.: 0422-4392972

***Jaipur***
Schneider Electric India (P) Ltd.
Jaipur Business Centre 309, 3rd Floor,
Sangam Tower, Church Road,
Jaipur- 302001
Tel.: 0141 3925490
Fax.: 0141-5113303

***Jamshedpur***
Schneider Electric India (P) Ltd.
The Business Centre Moti Bhavan
Road No.1, Contractor's Area Bistupur
Jamshedpur- 831001
Tel.: 0657-2222757

***Kolkata***
Schneider Electric India (P) Ltd.
Sugam Business Park, 4th & 5th Floor,
Plot No. J6, Block- GP Sector V,
Salt Lake City, Kolkata- 700091.
Tel.: 033-39404000
Fax.: 033-30248686

***Lucknow***
Schneider Electric India (P) Ltd.
1st Floor, Asha Bhawan 27 / II -A,
Gokhale Marg, Lucknow- 226001
Tel.: 0522-4006010 /1 /2 /3 /4
Fax.: 0522-4006015

***Ludhiana***
Schneider Electric India (P) Ltd.
Office No. - 3, 5th Floor, Novelty Plaza
Ferozpur Road, Bhaiwala Chowk
Ludhiana- 140001
Tel.: 0161- 4656672-75
Fax.: 0161- 4656671

***Mumbai***
Schneider Electric India (P)( Ltd)
Unit no.1141, 1142 Building No. 11,
04th Floor Solitaire Corporate Park,
Andheri Kurla Road,
Chakala Andheri (E) Mumbai- 400059
Tel.: 022-39404000
Fax.: 022-30738800

***Nagpur***
Schneider Electric India (P) Ltd.
Fortune Business Centre, 6,
Vasant Vihar, W.S.C Road
Shankar Nagar, Nagpur- 440010
Tel.: 0712-2558581
Fax: 0712-2550070

***Pune***
Schneider Electric India (P) Ltd.
2nd Floor, R.B. Business Centre
Above Puma Showroom
Sanghvi Nagar, Aundh, Pune- 411007
Tel.: 020-39404000
Fax.: 020-30696762

***Secunderabad***
Schneider Eleclric India (P) Ltd.
401 - 404A, 4th Floor,
Ashoka Bhopal Chambers, S.P. Road
Secundrabad- 500003
Tel.: 04039404000
Fax.: 040-39131313

***Vadodara***
Schneider Electric India (P) Ltd.
305, Concorde Buliding, 4th Floor,
R.C.Dutt Road Alkapuri
Vadodara - 390007
Tel.: 0265-3940400
Fax.: 0265-2353406

***Vishakhapatnam***
Schneider Electric India (P) Ltd.
# 10-1-43, Ratnam's Executive Centre,
Siripuram Fort,
C.B.M.Compound,
Visakhapatnam- 530003
Tel.: 0891 - 2508990
Fax.: 0891 - 6662221


For more information, visit our website at: www.schneider-electric.co.in

### Customer Care Centre

**Monday-Saturday, 9 a.m. to 8 p.m.**
**Toll-free numbers:** 1800 180 1707, 1800 103 0011
**General number:** 0124 3940400
**Fax number:** 0124 4222042
**Email:** Customercare.in@schneider-electric.com

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