imagination at work

GE has always been a company that stands for progress. For more than 100 years we have been able to tell stories about GE innovations.

GE’s new imagination at work approach is about GE people, their curiosity, relentless drive, hard work and willingness to take risks – combined with a foundation of limitless imagination – that makes anything possible.

It’s a legacy of progress that began with our founder, Thomas Edison, and one that will continue through the 21st century. At GE, what we imagine, we can make happen.

GE powers the whole world. Operating in over 100 countries, GE has manufacturing facilities in 26 nations and employs 3,00,000 people worldwide with revenues in excess of $152.4 billion in 2004. GE is recognised as a market leader and the most admired company worldwide with the driving ambition that is tempered by dual commitment to quality and integrity. The world over, GE is synonymous with quality - not just the quality of their products and services, but the quality of life they promote. Continuing this GE tradition is GE Power Controls - the leading supplier of low voltage switchgear, residential and industrial components, switchboards as well as engineering solutions for industrial installations.

GE Power Controls India was established in 1998 to provide total solutions in electrical distribution and control. GE Power Controls manufactures, markets and sells a wide range of products that control and distribute electricity in homes, commercial buildings, factories and utilities.

A sophisticated Technology Development Centre to meet global standards and design requirements, fully equipped with latest design tools and test apparatus, three state-of-the-art manufacturing facilities, over 200 Dealers and more than 30 customer-focused Authorized Service Centres make up the GEPC network in India. All these to meet & exceed your expectations.
LM series Moulded Case Circuit Breakers from GE come with customer friendly features making them safer and versatile. While it addresses present day high end requirements by offering static / micro processor based protection with communication option, it also provides reliability by running cooler with suitability for aluminium termination under tropical conditions.

Features

**Range:** from 1.6A to 800A in **3 & 4 pole** (100% rated Neutral) configuration.

**Protection:** static / micro processor based protection releases

**Flexibility:** continuously adjustable overload, short circuit and earth fault settings.

**Static Release:** basic protections of o/l and s/c with optional e/f protection

**Micro Processor Release:** advanced protection, ammeter, trip history, LCD display, optional communication compatibility with Rs.485 port and MODBUS protocol.

**Freedom of Mounting:** can be mounted in horizontal (90°) as well as upside down (180°) without any change in characteristics.

**Frame Sizes:** three basic frame sizes upto 800A. First frame covers 3.2A to 160 A, Second in 200 / 250 / 400A and third in 400 / 630 / 800A.

**Breaking capacities:** 25 / 35 / 50 & 65KA for different frame sizes.

**Accessories:**
- Door drive with Padlocking, Door interlocking and Defeat facility for all frame sizes.
- Shunt release, Undervoltage release, UV release with time delay.
- Auxiliary/Alarm Switches, Phase Barriers, Terminal Shrouds

**Testing:** test socket for field testing of MCB online as a standard feature.

**Application:** suitability for Backup Protection, Motor application (CurveX) Category B for selectivity (available on request)

**Standards:** The entire range of LM MCCBs conforms to IS 13947-2.
The LM advantage

Reliable and Proven Design:
LM MCCB has proven performance record in most stringent operating environments for more than two decades. LM has been the most preferred in applications like steel, power, paper, chemical and textile plants. It is best suited for tropical Indian conditions and its wide terminals receive termination with aluminium conductors easily. High Breaking capacities are achieved through unique self repulsion contacts.

Robust Construction:
The housing is made of DMC which has high arc and thermal withstand, resistance to tracking and mechanical strength.

Current Limiting:
LM MCCB operates on current limiting principle. This ensures high breaking capacity, faster fault clearances and low let through energy resulting in reduced electrodynamic forces and thermal stresses which prevents damage to down stream equipment, switchgear and conductors.

When a prospective fault current flows through the MCCB, the contact design, through reversal of current ensures immediate separation of the contacts even before tripping occurs. The early separation of the contacts ensure low let through energy in the system, thus ensuring high life of the connected equipment.

High Insulation Voltage (Ui):
The entire range of LM MCCB have a high insulation voltage of 1000V. This enhances the reliability of the breakers by providing a higher resistance to flashovers under fault conditions.

Frame Size:

<table>
<thead>
<tr>
<th>Frames</th>
<th>Rated Current</th>
<th>Breaking Capacity (Icu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Size 1</td>
<td>3.2, 6.3,12.5, 25, 50, 100, 125, 160 A</td>
<td>25 / 35 / 65 KA</td>
</tr>
<tr>
<td>Frame Size 2</td>
<td>200, 250*, 400A**</td>
<td>25 / 35 / 65 KA</td>
</tr>
<tr>
<td>Frame Size 3</td>
<td>400 A, 630 A, 800 A</td>
<td>50 KA</td>
</tr>
</tbody>
</table>

*only 65KA; **only 35KA

Mechanism:
The complete range of LM MCCBs are quick make quick break, independent manual type with trip free features.

Mounting:
LM MCCBs can be mounted horizontally at 90° or upside down at 180° with load side up and line side down with the busbar connection at respective sides in case of constraint in termination. The door drive mechanism in this case ensures uniform ON / OFF / TRIP indications on the panel door.
Testing:
A ‘Push to trip’ button is provided on the front to test the MCCBs mechanically.
LM MCCBs are also provided with a ‘test socket’ for testing online at site. With the use of a portable test kit the healthiness of the MCCBs can be easily verified even when it is in service and mounted in the panel.

Protection Releases:

☐ Static Release:
Static trip release is versatile and offers accurate & closer protection to the equipment downstream. The operating characteristics of the release are independent of ambient temperature.
Continuous adjustable overload protection is available from 50% to 100% of the nominal current.
Continuously adjustable short circuit setting is possible from 2 to 10 times of the rated current.
This wide flexibility takes care of future increases in load capacity of an installation and ensures better planning at an optimum cost.

Earthfault Protection

Field fittable EFM: for 3 phase 3 wire system
Earthfault protection can be provided in LM MCCBs by mounting an add on module (EFM) directly at the load end of the MCCBs.
This feature is widely used for motor application.
Continuously adjustable earthfault pickup settings from 20% to 80% of the nominal current.
Continuously adjustable time delay from Instantaneous to 0.7 sec.
Manually resetable pop out mechanical indicator for mounting on the panel board.
1 NO potential free contact available on indicator for remote indication or interlock.

Factory fitted EF: for 3 phase 4 wire system
Factory fitted static EF protection release is built into MCCB with externally mounted CBCT.
CBCT is provided with tappings at 20%, 30% and 40% of nominal current.
Microprocessor Release:

Features and Benefits:

- True RMS sensing - accurate protection
- High repeat accuracy - reliability
- Flexibility through multiple adjustments of protection settings - versatility & closer protection
- Time delays on LT, ST & EF - suitability for discrimination and co-ordination
- LCD display - reliable human interface
- Trip history - stores last five trips with causes - system diagnosis
- Trip current indication - better understanding of type of fault
- Set-up programming - tripping curve parameters can be viewed, changed and stored for further operation
- Status indication - gives the current status of the breaker - ”OK”, ”pickup” or ”tripped”
- Ammeter - displays the individual rms phase currents
- Lock to prevent unauthorised setting and access

The microprocessor based release provides overload, short circuit and earth fault protection, thermal memory as standard features, with following current & time settings:

<table>
<thead>
<tr>
<th>Protection</th>
<th>Settings Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overload pickup current - Ir</td>
<td>0.4 – 1.0, in steps of 0.1 In</td>
</tr>
<tr>
<td>Overload trip time at 6 x Ir [sec]</td>
<td>0.2, 0.5, 1, 1.5, 2, 3</td>
</tr>
<tr>
<td>Short circuit delayed pickup</td>
<td>2 – 10 in steps of 1 of Ir</td>
</tr>
<tr>
<td>Short time delay [sec]</td>
<td>0.02, 0.05, 0.1, 0.2, 0.3</td>
</tr>
<tr>
<td>Instantaneous pickup</td>
<td>Off, 2 – 10 x Ir in steps of 1</td>
</tr>
<tr>
<td>Ground fault pickup</td>
<td>Disable, 0.2 – 0.8 x In in steps of 0.1</td>
</tr>
<tr>
<td>Ground fault time delay [sec]</td>
<td>0.1 to 0.4 in steps of 0.1</td>
</tr>
<tr>
<td>Thermal Memory</td>
<td>Enable / Disable</td>
</tr>
</tbody>
</table>
Microprocessor Release with Communication Feature:

LM Pro + C release provides all standard feature of microprocessor MCCB with additional communication facility. This enables remote monitoring and control of equipments. The communication version displays all the data on a remote terminal. This version also gives trip feature over MODBUS protocol.

<table>
<thead>
<tr>
<th>Communication address</th>
<th>1 - 255</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication cable</td>
<td>Single / Two pair twisted wire with ground shield.</td>
</tr>
<tr>
<td>Communication connector</td>
<td>9 pin female D on MCCB</td>
</tr>
<tr>
<td>Communication electrical standard</td>
<td>RS485</td>
</tr>
<tr>
<td>Communicating protocol</td>
<td>MODBUS, RTU type</td>
</tr>
<tr>
<td>Communication speed (bits/sec)</td>
<td>9600</td>
</tr>
<tr>
<td>Maximum MCCBs on a communication bus (nos.)</td>
<td>32</td>
</tr>
</tbody>
</table>
Accessories:
All accessories provided are field fittable, common for static or microprocessor MCB. Field fitment offers flexibility to users for modification on site.

Auxiliary and Alarm Switch:
These switches are conveniently fitted by removing the lid on the front face of the MCB.
Auxiliary switch operates with the opening and closing of the MCB indicating the breaker ‘ON’ / ‘OFF’ status.
Alarm switches operate whenever the MCB trips.

Voltmetric Releases:
Shunt release can be easily mounted by removing the lid on the front face of the MCB. This is a short time rated coil and hence recommended to be used with an auxiliary switch to disconnect it after operation.

Releases are common for equivalent AC and DC voltages. And are available in 110 - 415V AC / 110V - 220V DC, 24 - 48V AC / DC voltages.

Electro-magnetic type Undervoltage release with field fittable option is available in Frame 2 & Frame 3 MCB’s, whereas in Frame 1, factory fitted electronic type UV release is available. This release trips the MCB when the supply voltage drops to a value below prescribed voltage limit. The standard setting is 60% of the rated voltage. However settings of 50%, 70% and 80% are available on request.

To prevent nuisance tripping due to momentary voltage dip, undervoltage release with a time delay of 1+0.20 sec is also available. This is particularly useful for generator application. The voltage ratings available are 240 / 415V AC.

Combination of Accessories
Frame 1 & 2 - 160 / 250 / 400 A:
With shunt trip release, no other accessory can be provided, as 1 NO contacts of the auxiliary switch to be wired in series with the shunt release coil.

Without shunt trip release any combination of 2 (NO or NC) auxiliary / alarm switches, 1 auxiliary + 1 alarm switch (NO or NC) can be mounted.

Frame 3 - 400 / 630 / 800A:
Total combination of 3 auxiliary / alarm switches (2 NO + 1NC, 1 NO + 2 NC) combination can be chosen.

However for use with Shunt release 1 NC contact of auxiliary switch to be wired in series with the shunt release coil.

Please note that only one voltmetric release can be fitted in Frame 2 and Frame 3 MCB. In Frame size 1, both shunt trip and UV can be used. The UV release provided in Frame 1 is factory fitted.
Door Drives:

LM MCCB comes with user friendly door drives. They have an "OFF" position placed at 9 'O' clock and the "ON" position at 12 'O' clock. The third position “TRIP” is located between the "ON" and the "OFF" position.

The door drive is easy to mount and provides IP 54 protection.

The door drive takes care of the uniformity in the position of the handle on the panel door when MCCB is mounted upside down. The operating handle ensures that irrespective of the mounting of MCCB, the quadrant of operation of the handle remains same.

These door drives provide door interlock facility in the “ON” position, besides providing padlock facility to lock the MCCB in “OFF” position. Also available on request is “ON” position padlock.

Terminal Shrouds:

Terminal shrouds are provided for 160 / 200 / 250 A MCCB.

Phase Barrier:

To ensure a correct dielectric separation of the terminals, phase barriers are available as accessories.
## Technical Particulars

<table>
<thead>
<tr>
<th>Characteristic / Frame</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>LM 160</td>
<td>LM200 / LM250* / LM400**</td>
<td>LM400 / LM630 / LM800</td>
</tr>
<tr>
<td>Rated Current In</td>
<td>3.2, 6.3, 12.5, 25, 50, 100, 125, 160</td>
<td>200 / 250 / 400</td>
<td>400 / 630 / 800</td>
</tr>
<tr>
<td>Rated Insulation Voltage Ui</td>
<td>Volts</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td>Rated operational Voltage Ue</td>
<td>Volts</td>
<td>415</td>
<td>415</td>
</tr>
<tr>
<td>Ultimate breaking capacity at 415V - Icu</td>
<td>KA r.m.s</td>
<td>35, 35, 65</td>
<td>35, 35, 65</td>
</tr>
<tr>
<td>Service breaking capacity - Ics</td>
<td>KA</td>
<td>25, 35, 50</td>
<td>25, 35, 50</td>
</tr>
<tr>
<td>Utilization category</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Protection</td>
<td>Static</td>
<td>Static</td>
<td>Static / Microprocessor [3]</td>
</tr>
<tr>
<td>Overload rated current - Ir</td>
<td>Amps</td>
<td>Continuous from 50 to 100%</td>
<td></td>
</tr>
<tr>
<td>Short circuit (min - max settings)</td>
<td>Amps</td>
<td>Continuous from 2 to 10 times</td>
<td></td>
</tr>
<tr>
<td>Total operating time on short ckt</td>
<td>msec</td>
<td>8 to 12</td>
<td>8 to 12</td>
</tr>
<tr>
<td>Mechanical Operation and Operational Performance category</td>
<td>As per IS 13947-2 / IEC 947-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terminal capacity Cable</td>
<td>sq.mm</td>
<td>1 x 70</td>
<td>1 x 150</td>
</tr>
<tr>
<td>Busbar</td>
<td>mm</td>
<td>20 x 6</td>
<td>32 x 6</td>
</tr>
<tr>
<td>Field Fittable Accessories (Optional)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auxiliary Switch</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Alarm Switch</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Shunt Release</td>
<td>110V - 415V AC (1 NO aux switch to be used)</td>
<td>110V - 415V AC (1 NO aux Switch to be used)</td>
<td>110V - 415V AC (1 NC aux switch to be used)</td>
</tr>
<tr>
<td>Earth fault Release (current setting)</td>
<td>Amps</td>
<td>Continuous from 20 to 80% of In [3]</td>
<td></td>
</tr>
<tr>
<td>Earth fault Release (time setting)</td>
<td>Sec</td>
<td>Instantaneous, 0.4 sec, 0.7 sec continuously adjustable</td>
<td></td>
</tr>
<tr>
<td>Door Drive</td>
<td>DD160</td>
<td>DD250</td>
<td>DD800</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth</td>
<td>mm</td>
<td>131</td>
<td>131</td>
</tr>
<tr>
<td>Height</td>
<td>mm</td>
<td>200</td>
<td>270</td>
</tr>
<tr>
<td>Width (3 pole)</td>
<td>mm</td>
<td>118</td>
<td>145</td>
</tr>
<tr>
<td>Width (4 pole)</td>
<td>mm</td>
<td>157</td>
<td>191</td>
</tr>
<tr>
<td>Weight (3p / 4p)</td>
<td>Kg</td>
<td>3.8 / 4.2</td>
<td>5.7 / 6.5</td>
</tr>
</tbody>
</table>

**Note:**
1. Neutral 100% rated
2. Factory fitted
3. EFM for Frame 1 available upto 100A
4. Ref. our branch office for details
5. Ics = 50KA, Icu = 65KA
6. **Ics = Icu = 35 KA**

Microprocessor based MCCB also available in 200 A and 250 A rating in Frame 3
Application:

Feeder Protection

One of the operational requirements for a protective device is that its rated short circuit breaking capacity is either equal or greater than the prospective short circuit current at the point where it is installed in the distribution system.

Thus the upstream device must possess the necessary rated short circuit breaking capacity. The upstream device must coordinate with the downstream device in a manner that will limit the energy and short circuit values to levels that the downstream device can handle.

With LM, the unique self repulsion contact system limits the energy and current values of prospective faults to extremely low values. This allows the use of low breaking capacity downstream devices while ensuring the overall system protection to the required prospective fault level.

Motor Protection

LM Curve X MCCB is exclusively used for motor protection. It offers a complete and reliable protection to LV motors. The basic principle of operation is that, it allows the contactor which is always available in the motor feeder circuit to clear overload faults. This reduces the strain on the MCCB contacts thereby enhancing the life of the MCCB and provides automatic resetting after fault clearance.

Curve X MCCB trips for short circuit through opening of its own contacts thus protecting the contactor and the motor from high fault currents. Since contactor is a switching device and has a very high electrical/mechanical life, this combination increases the systems performance and provides higher life.
Features:

- Available in three frame sizes from 3.2 - 400A

- Built-in electronic overload sensing (50% to 100%) thus eliminating need for external bimetal relay resulting in saving of cost, space and wiring.

- Built-in single phasing and phase reversal protection thus eliminating need for an external device.

- Built-in short circuit protection

- MCCBs senses phase reversal and single phasing through static circuitry and opens up the motor feeder by activating the external contactor available in the motor circuit.

- Field fittable accessories, same as that of LM MCCBs

Selectivity (Cat-B)

When two current limiting breakers of similar rating and similar settings are in series under short circuit conditions, both MCCBs might trip for a downstream fault and cause loss of supply to healthy loads. To avoid this, a short time withstand current (Icw) capability is required by upstream breaker so that it can delay operation briefly. LM Frame 3 MCCBs can be offered in Cat-B variant on request. LM MCCBs can be used for Cat-B application with restricted breaking capacity.
**COMBINATION OF ACCESSORIES**

**FOR 100/200/250/400A (LM 400R)**

- With shunt release no other accessory can be provided.
  - Note: 1 NO contact of auxiliary switch to be wired in series with shunt release coil.
- Alarm & Auxiliary Switches Following combination of Alarm & Auxiliary switches can be provided without shunt trip

<table>
<thead>
<tr>
<th>AUXILIARY SWITCH</th>
<th>ALARM SWITCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 NO</td>
<td>NIL</td>
</tr>
<tr>
<td>2 NC</td>
<td>NIL</td>
</tr>
<tr>
<td>1 NO + 1NC</td>
<td>NIL</td>
</tr>
<tr>
<td>1 NO</td>
<td>1 NO</td>
</tr>
<tr>
<td>1 NO</td>
<td>1 NC</td>
</tr>
<tr>
<td>1 NC</td>
<td>1 NC</td>
</tr>
<tr>
<td>1 NC</td>
<td>1 NO</td>
</tr>
<tr>
<td>NIL</td>
<td>2 NO</td>
</tr>
<tr>
<td>NIL</td>
<td>2 NC</td>
</tr>
<tr>
<td>NIL</td>
<td>1 NO + 1</td>
</tr>
<tr>
<td>NC</td>
<td></td>
</tr>
</tbody>
</table>

- EF module can be used along with any of the above accessories.
- Door Drive kit can be used along with any of the above accessories.

**FOR 400/630/800A**

I With Shunt Release

<table>
<thead>
<tr>
<th>AUXILIARY SWITCH</th>
<th>ALARM SWITCH</th>
<th>UV RELEASE</th>
<th>EF MODULE</th>
<th>FD KIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 NC or 1 NO + 1 NC</td>
<td>1 NO or 1 NC</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

*Note: 1 NC Contact of aux. Switch to be wired in series with shunt release Coil.*

II Without Shunt Release

<table>
<thead>
<tr>
<th>AUXILIARY SWITCH</th>
<th>ALARM SWITCH</th>
<th>UV RELEASE</th>
<th>EF MODULE</th>
<th>FD KIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 NO or 2 NC or 1 NO + 1 NC</td>
<td>1 NO or 1 NC</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

- EF module can be used along with any of the above accessories.
- Door Drive kit can be used along with any of the above accessories.
Dimensions additional to LM 250

All dimensions are in mm

Note: Top terminal dimensions for 630 and 800 ampere rating are different. Refer adjacent page (page 11) for dimensions.
EM 100 Z3

EM 250 Z3

EM 400 Z3 / 630 Z3 / 800 Z3

MCCB - EFM connection

Cut-out details for indicator of EFM

Mounting details for EFM

All dimensions are in mm
Tripping Characteristics

Curve B: LM100C / LM100 R / LM100 / LM 125C
125R / 125 / LM160C / 160R / 160

Curve C: LM200C / 200R / LM200

Curve F: LM 250 B / 400R

Curve D: LM400B / 630B / 800B

LM Moulded Case Circuit Breaker
Trip Characteristics

Curve F: LM 250 B / 400R
Curve B: LM 100C / LM 100 R / LM 100 / LM 125C / 125R / 125 / LM 160C / 160R / 160

Curve C: LM 200C / 200R / LM 200
Curve D: LM 400B / 630B / 800B

Curve X: CurveX MCCB

Curve LM 400B / 630B / 800B (Microprocessor)

Curve G: Curve G MCCB
### LM Pro Release with communication

<table>
<thead>
<tr>
<th>50</th>
<th>400</th>
<th>LM400B It h 200A</th>
<th>SGC8804430</th>
<th>SGC8804035</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>400</td>
<td>LM400B It h 250A</td>
<td>SGC8804420</td>
<td>SGC8804025</td>
</tr>
<tr>
<td>50</td>
<td>400</td>
<td>LM400B</td>
<td>SGC8804410</td>
<td>SGC8804015</td>
</tr>
<tr>
<td>50</td>
<td>630</td>
<td>LM630B</td>
<td>SGC8806220</td>
<td>SGC8806015</td>
</tr>
<tr>
<td>50</td>
<td>800</td>
<td>LM800B</td>
<td>SGC8808170</td>
<td>SGC8808015</td>
</tr>
</tbody>
</table>

### Accessories – Field Fittable

<table>
<thead>
<tr>
<th>Frame</th>
<th>Code ref.</th>
<th>Aux Contacts</th>
<th>AuxContacts(NC)</th>
<th>EFM (3 Pole)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100/125/160</td>
<td>SGC8308027</td>
<td>SGC8308028</td>
<td>SGC8301046</td>
<td></td>
</tr>
<tr>
<td>200/250</td>
<td>SGC8308027</td>
<td>SGC8308028</td>
<td>SGC8302041</td>
<td></td>
</tr>
<tr>
<td>400/630/800</td>
<td>SGC8308027</td>
<td>SGC8308028</td>
<td>SGC8304012</td>
<td></td>
</tr>
</tbody>
</table>

### U/V Release

<table>
<thead>
<tr>
<th>Frame</th>
<th>Code ref.</th>
<th>Aux Contacts</th>
<th>AuxContacts(NC)</th>
<th>EFM (3 Pole)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100/125/160</td>
<td>SGC8302043</td>
<td>SGC8302053*</td>
<td>SGC8302054*</td>
<td></td>
</tr>
<tr>
<td>200/250</td>
<td>SGC8302043</td>
<td>SGC8302044</td>
<td>24-48V AC/DC</td>
<td>SGC8301072</td>
</tr>
<tr>
<td>400/630/800</td>
<td>SGC8308035</td>
<td>SGC8304016*</td>
<td>24-48V AC/DC</td>
<td>SGC8308039</td>
</tr>
<tr>
<td>415V</td>
<td>SGC8308034</td>
<td>SGC8304017*</td>
<td>24-48V AC/DC</td>
<td>SGC8308040</td>
</tr>
</tbody>
</table>

### S/T Release

*UV release with delay 200 m sec, available on request*
### North

- **Bhilwara**  
  Dynamic Engineers & Consultants, Rampuria House, Rajendra Marg, Bhilwara - 311 011  
  Ph: 01482-23172

- **Chandigarh**  
  Hi-Tech Power Controls, F-133, Indl. Area Phase VIII - B, S.A.S. Nagar, Mohali (P B)  
  Ph: 0172-5091133, 5537133 Mobile: 98140 08433

- **Delhi**  
  Delhi ACB Service Centre, H.No. 156 Amit Chand Khan, Giri Nagar, Kalkaji, New Delhi - 110 019  
  Ph: 011-26647210  
  Malhotra's ACB Technical Services, B/K-77, (West) Shalimar Bagh, Delhi - 110 052 Ph: 011-27486446  
  Super Electrical Company, NE- 98, Vishnu Garden, New Delhi - 110 018  
  Ph: 011-2530653, 25193395

- **Haryana**  
  P.C. Customers Service Centre, Shop No. 12, Kamala Palace Near Federal Bank, Gurgaon, Harayana - 122 001  
  Ph: 98109 57870, 98914 37330

- **Jaipur**  
  Surya Engineers, G-3, Usha Plaza, MI Road, Jaipur - 302 001 Ph: 0141-511 4148/237 1266

- **Kanpur**  
  Nanda Electrical Enterprises, 122/1, B-5, Kabari Market, Sarojini Nagar, Kanpur - 208 012 Ph: 0512-2215309

- **Sonebhadra**  
  Tirupati Indl. Agencies, Auri More, Bina Road, P.O. Anpara Dist. Sonebhadra - 231 225 Ph: 05446-72231

### East

- **Angul**  
  Pooja Sales Corporation, A32/210, 2nd Floor, 1st Lane Simlipada, Angul-759122 Orissa Ph: 06764-233940

- **Assam**  
  Assam Electricals Loiapuli, (Near Tinsukia), PO Paniito, Upper Assam, Assam - 786 183  
  Ph: 0374-233 8564 / 233 6579

- **Bihar**  
  Nabarheram Motors, Main Road, Bishcupur, Jamshedpur, Bihar. Ph: 0657-426119 / 421517

- **Guwahati**  
  Raj Electricals, G.S. Road, Bagagarh, Guwahati - 781 005 Ph: 0361-527847

- **Kolkata**  
  Allied Engineering Co., Room no. 209, 2nd Floor, Vidya Sagar Auditorium, P-85/3 CIT Road Paddapukur  
  Kolkata Ph: 033- 22161266  
  D.Dutta & Co., 3h/1e, Gagan Sarkar Road, Kolkata - 700 010. Ph: 033-23538525  
  Nepco Electronics (P) Ltd., 60 Metacatle Street, Kolkata West Bengal - 700 013  
  Ph: 033-22365993 / 24745262

- **Raipur**  
  Techno Enterprises, 6A Farista Complex, GE Road Raipur-492001, Chhattis Garh Ph: 0771- 2226970

- **West Bengal**  
  Real Control, Dr. Zakir Hussain Avenue, Durgapur - 713 206. Ph: 0343-557395

### West

- **Ahmedabad**  
  Power Sales & Services, 31, Modi Estate, Opp. Samrat Nagar, Isanpur, Ahmedabad - 382 443  
  Ph: 079-25736912 Mob: 98250 13055 / 98250 54732

- **Baroda**  
  Arpan Electricals, 48, Yogi nagar, Near Godrej Hall, Fatehgunj, Baroda 390 002  
  Ph: 0265 - 2791126, 5584273 Mob: 98250 - 58923

- **Indore**  
  Technocom Marketing, 116, Manas Bhavan, 11, RNT Marg. Indore - 452 001 Ph: 0731 - 2527213  
  Mob: 9425055626

- **Mumbai**  
  Bipinkumar Electricals Corp., 14, Tawawala Building, 36, Pathak Wadi Lohar Chawl, Mumbai - 400 002  
  Ph: 022 22082185  
  ECOM Associates 208, Nago's Indl. Estate, Cama Estate, Goregoan (E) Mumbai - 400 063  
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  Konkan Electricals Corp., Plot 60, Sector 23, CIDCO Indl. Estate, Turbhe, Navi Mumbai - 400 705  
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- **Nagpur**  
  Ravi Engineering Services, 78, Shisha Nagar, Narendra Nagar Extension, Somalwada Nagpur - 440 015  
  Ph: 94228 07882

- **Pune**  
  Desh Electricals & Marketing, # 3&4, 1st Floor, Saptashrungi Apts, 1511 B, Sadasivpet Pune - 411 030  
  Ph: 020-4021871

- **Vapi**  
  VIJ Electricals & Engineers Ltd., 22, Nataraj Complex, Opp Mahavir Nagar, GIDC, NH No. 8, Vapi (E) - 396 195  
  Ph: 9824113302

### South

- **Bangalore**  
  K. Dhandapani & Co. Ltd., 26, IV Cross, N.R. Road, Bangalore - 560 002 Ph: 080-22214499

- **Chennai**  
  Chennai Engineering Services, #16, 3rd Main Road, CIT Nagar, Nandanam, Chennai - 600 035 Ph: 044-24310503

- **Cochin**  
  General Enterprises, 5/292, “Anjily”, Pishari Kovil Road, Eroor PO, Tripunithura, Kochi - 682 306 Ph: 0484 - 2775805

- **Coimbatore**  
  Chennai Engineering Services, #103, 2nd Street, Saba bba Colony, K.K. Pudur, Coimbatore - 641 038 Ph: 98430 81773

- **Hyderabad**  
  Gayatri Services, 1-9-485/9/1, Lalitha Nagar, Adikmet, Plot # 16, Hyderabad - 500 044 Ph: 040-7610310

- **Vishakapatnam**  
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  Vissakapatnam - 530 016. AP Ph: 040 - 7610310
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