




DIN 17.5mm

Features :

- Star Delta
- 2 Time Ranges
- LED Indications : Star Relay ON, Delta Relay ON

Certifications : 

Display Specifications

| | |
|-----------------|-------------------------------|
| LED Indications | Star Relay ON, Delta Relay ON |
|-----------------|-------------------------------|

Input Specifications

| | |
|----------|--|
| Accuracy | Setting : $\pm 5\%$ of F.S. Repeat : $\pm 0.5\%$ of F.S (F.S. = Full Scale) Pause time accuracy : $\pm 5\% \pm 5\text{ms}$ |
|----------|--|

Output Specifications

| | |
|----------------|-----------------------------------|
| Relay Contact | 1 C/O Relay each for Star & Delta |
| Contact Rating | 5A @ 250V AC |

Functional Specifications

| | |
|-------------|---|
| Modes | Star - Delta |
| Time Ranges | Runup time range : 3 to 30sec, 6 to 60sec Pause Time : 50 / 100msec (Setting through front knob) |
| Reset | On power interruption, Reset time < 100msec |

Auxiliary Supply Specifications

| | |
|-------------------|---------------------|
| Supply Voltage | 230V AC (50 / 60Hz) |
| Power Consumption | 4VA max |

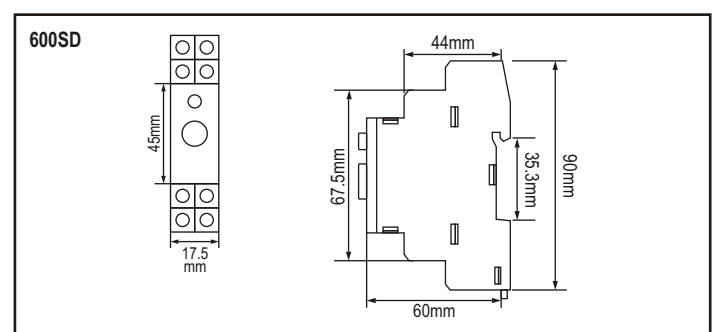
Environmental Specifications

| | |
|-----------------------------|--|
| Temperature | Operating : 0 to 50°C (32 to 122°F) Storage : -20 to 75°C (-4 to 167°F) |
| Humidity (non - condensing) | 95% RH |

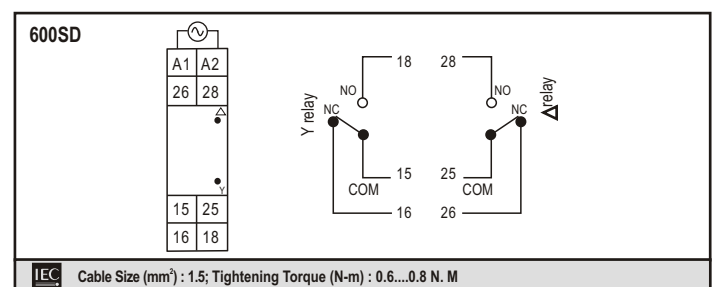
Mechanical Specifications

| | |
|----------|----------------|
| Mounting | DIN Rail Mount |
| Weight | 73gms |

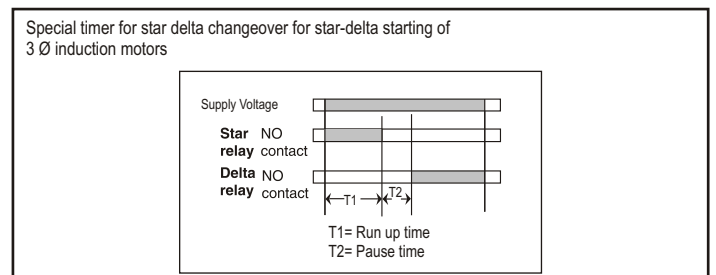
Dimensions



Terminal Connections



Timing Diagram



Compliance


| Applicable EMI / EMC Standards | | |
|-----------------------------------|---------------------|---------------|
| Product Standard | | |
| Category | Reference Standards | Testing Level |
| Electrostatic Discharge | IEC 61000-4-2 | Level-3 |
| Electrical Fast Transient / Burst | IEC 61000-4-4 | Level-3 |
| Electromagnetic Field | IEC 61000-4-3 | Level-3 |
| Surge | IEC 61000-4-5 | Level-3 |
| Conducted RF | IEC 61000-4-6 | Level-2 |
| Rated Power Frequency | IEC 61000-4-8 | Level-4 |
| Voltage Dip / Short Interruptions | IEC 61000-4-11 | Level-3 |
| Conducted Emissions | CISPR-11 | Class-B |
| Rated Emissions | CISPR-22 | Class-A |
| Emission & Immunity | IEC 61326-1 | |
| Safety | IEC 61010-1 | |
| PFMF (Passing criteria) | IEC 61000-4-8 | Class A |


Ordering Information

| Product Code | Supply Voltage | Certification |
|--------------|----------------|---------------|
| 600SD-2-230V | 230V AC | CE |

OPERATING INSTRUCTIONS : OP_600SD-CU A5 60GSM PG-2 (OP375-V02)

OP375-V02





17.5mm DIN RAIL

MECHANICAL SPECIFICATIONS

Mounting : Din rail mounting
 Dimension : 17.5 x 90 x 60mm
 Protection Level
 IP 20 for Terminal

WEIGHT
73gms

Please maintain these instructions and review them before using the unit :

Warning :

- The equipment is built-in type with Class II construction and is protected by reinforced insulation.
- The power should be turned off while wiring and maintenance to prevent the risk of electric shock. Do not touch any terminal when the power is ON.
- Wiring shall be done strictly according to the terminal layout with shortest connections.
- Fuse Protection : The equipment does not have Built-in fuse. External fuse of rating 275V DC / 1 A is recommended.

CAUTION :

- This unit is not intended for outdoor use.
- The power connection cable must have a cross-section of at least 1sq.mm and insulation capacity of at least 1.5kV. Use lugged terminals to meet M3 screws.
- Clean the equipment with a soft cloth. Do not use any organic solvents like Isopropyl alcohol for cleaning.

SPECIFICATIONS

LED Indications
2 LEDs,
one for star and one for delta

Supply Voltage
230V AC / 110V AC, 50 / 60Hz
(Factory set)(Tolerance : -15% to +10%)

VA Rating
4VA max.

Time Range
Run up Time : 3-30s, 6-60s
Pause Time : 50ms or 100ms.
(Setting through front knob)

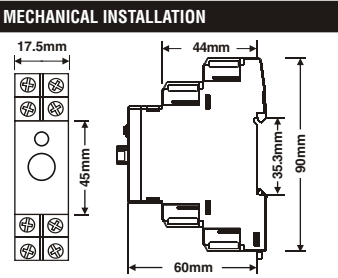
Reset
On interruption of power.
Reset time less than 100 ms.

Accuracy
Setting : ± 5% of full scale.
Repeat : ± 0.5%

OUTPUT SPECIFICATION
Output Contact : SPDT (1C/O)
Contact Rating : NO/5A, NC/3A @ 250V AC

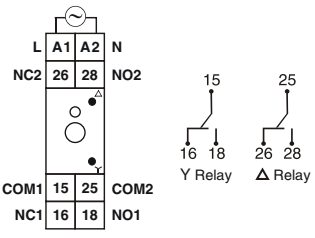
ENVIRONMENTAL SPECIFICATIONS
Temperature: Operating : 0°C to 50°C
Storage : -20°C to 75°C
Humidity : 95% RH

MECHANICAL INSTALLATION

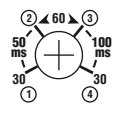


Doc. name : OP INST 600SD-CU OP375-V02(Page 1 of 2) B-B

TERMINAL CONNECTIONS



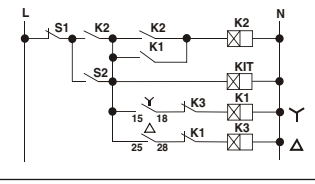
RANGE SELECTION



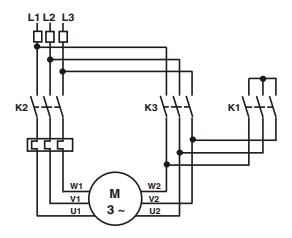
| | Run up Time | Pause Time |
|---|-------------|------------|
| ① | 30sec | 50ms |
| ② | 60sec | 50ms |
| ③ | 60sec | 100ms |
| ④ | 30sec | 100ms |

PRINCIPLE OF OPERATION

WIRING DIAGRAM



SCHEMATIC DIAGRAM



MODE OF OPERATION

Supply voltage

Star relay NO contact

Delta relay NO contact

t1 = Run up time, t2 = Pause time

ORDER CODE INFORMATION

| Product | Supply | Certification |
|--------------|-----------|----------------------------------|
| 600SD-2-230 | 230V AC, | CE |
| 600SD-CU | 50 / 60Hz | UL US LISTED 45T6 IND. CONT. EQ. |
| 600SD-2-110 | 110V AC, | CE |
| 600SD-110-CU | 50 / 60Hz | UL US LISTED 45T6 IND. CONT. EQ. |

Note : ■ Applicable

(Specifications subject to change as development is a continuous process.)

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OPERATING SIZE : A5 ; PAGE : 1 (B-B)

| | | | | | | | | | |
|-------------|--|------------|--|----------------|--|------------------|--|-------------|--|
| Prepared By | | Checked By | | Sales Engg. By | | Marking Engg. By | | Approval By | |
|-------------|--|------------|--|----------------|--|------------------|--|-------------|--|