

Models Available

B853/1 Single Phase Over & Under

B853/2 Single Phase Over

B853/3 3 Phase 3 Wire Over & Under

B853/4 3 Phase 4 Wire Over & Under

B853/5 3 Phase 3 Wire Over

B853/6 3 Phase 4 Wire Over

B853/7 3 Phase 4 Wire Under

B853/8 3 Phase 3 Wire Under

B853/9 Single Phase Under

B853/10 3 Phase 4 Wire Under 320-400V

B853/11 3 Phase 3 WIre Under 320-400V

Product Features

- Protects for under and/or over voltage
- LED indication
- Single or double pole output available
- Optional built-in time delay

For dimensions see page 3

AC Voltage Protection

AC voltage protection relays continuously monitor single phase or three phase AC voltages, tripping upon fault condition.

Tel: +44 (0) 1621 859500

The output relay trips when the monitored voltage is outside of the user adjustable limit and the LED illuminates indicating a fault condition. The trip point on all models (except the B853/10 and B853/11) is adjustable from 5% to 20% of the nominal voltage through the front control knob.

The output relay is set to de-energise in the under voltage condition ensuring the protection relays are failsafe. The relays are self powered, requiring no auxiliary power supply, and are available with either a single or double pole changeover relay output and optional built-in time delay.

For AC voltage monitoring and protection against under and/or over voltage

Example

Specification

Nominal Voltage, Un:

- 110, 230VL-N
- 380, 400, 415VL-L
- 60-500V upon request

Calibrated Scale:

- 5% to 20% (B853/1 to B853/9)
- 320 to 400V (B853/10 & B853/11)

Setting Accuracy:

- 1%

Repeatability:

- Better than 0.5% of nominal

Differential (Hysteresis):

Fixed 2%

Frequency:

50/60Hz (400Hz upon request)

Overload:

- 1.5 x *Un* continuous
- 2 x Un for 5 seconds

Burden:

- < 2VA

Operating Time:

- 200ms typically
- Built-in time delay (optional)

Weight:

- 275g

Connections L2 -13 L1 L2 L3 11 (21) L1 L2 L3 11 (21) 1 1 1 2 1 3 1 1 1 (21) B853/3 B853/4 B853/1 B853/5 B853/6 B853/2 B853/7 B853/8 B853/9 B853/11 B853/10 12 14 (22) (24) (N) 12 14 (22) (24) (N) 12 14 (22) (24) (N)

Ordering information Relay Type Nominal Voltage Code Output B853/1 Single Phase Over & Under B853/2 Single Phase Over B853/3 3 Phase 3 Wire Over & Under B853/4 3 Phase 4 Wire Over & Under B853/5 3 Phase 3 Wire Over B853/6 3 Phase 4 Wire Over B853/7 3 Phase 4 Wire Under B853/8 3 Phase 3 Wire Under B853/9 Single Phase Under B853/10 3 Phase 4 Wire Under (320-400V) B853/11 3 Phase 3 Wire Under (320-400V) 110, 230VL-N, 380, 400, 415VL-L or 50 to 600V L-N/L-L Specify 1C/O 1 Pole Changeover Relay Output 2C/O 2 Pole Changeover Relay Output Time Delay - Time Delay - Specify on Fault or Reset and Time Range (Note: order code begins TA853, not B853 when time delay is included)

380VL-L

2C/O

B853/8

General Specification

Reference Standards

Performance: IEC 144 / BS 5420 / VDE/VDI 0435 / IEC 947 / EN60947

Environmental

Calibration Temperature: 23°C

Operating Temperature: 0°C to 60°C Storage Temperature: -10°C to 70°C Temperature Coefficient: ±0.03%/°C

Relative Humidity: 0 - 95% non-condensing

Relay Output

Relay Type: Single pole change-over

(Except CST-100 has single pole normally open or normally closed) (Double pole change-over available on some models as as option)

Contact Rating: 5A @ 250Vac (non-resistive), 1A @ 125Vdc (resistive)

Contact Life: 1,000,000 at 5A, 10,000,000 at 1A

Mechanical Life: 2,000,000 operations

Dielectric Strength: 4kV coil/contact, 1kV contact/contact

Optional Time Delay: 0.3-10 sec, 1-30 sec, 2-60 sec, 3-100 sec or 10-300 sec (delay on fault or reset)

(Note if the voltage supply to the protection relay falls below 75% of the nominal the timer will fail to operate and the relay will trip instantaneously upon fault)

Enclosure

Enclosure: Flame retardant black ABS plastic with screw type terminals

Enclosure Code: Case IP50, terminals IP10 to IEC529 and BS5490

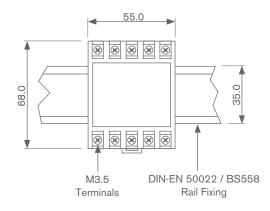
Insulation Test: 2kV rms 50Hz 1min (to IEC 414) between Input / Case / AC Auxiliary

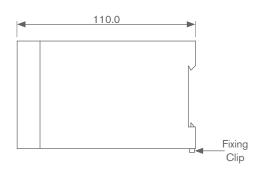
Mounting: 35mm DIN rail (DIN-EN 50022)

Markings: CE marked

Specification subject to change without notice.

Dimensions





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