1000 Series

Product Facts

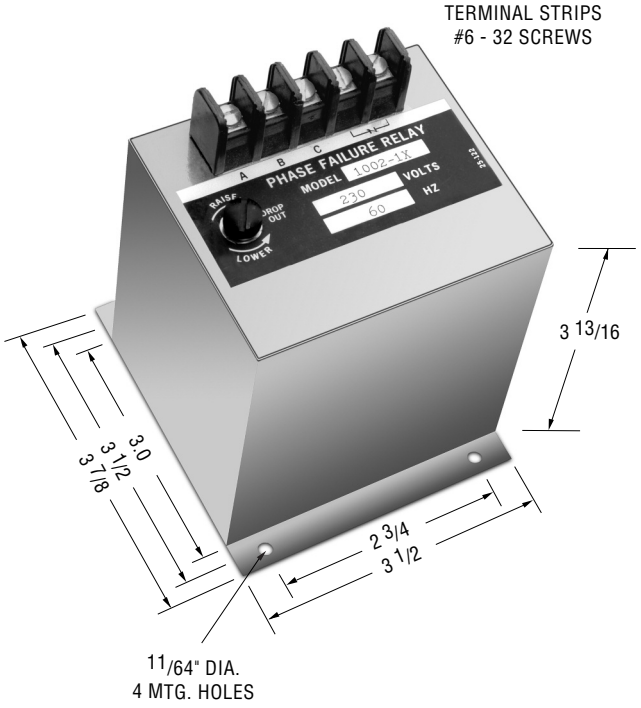
- **Function 47**
- **ANSI/IEEE C37.90-1978**
- **UL File No. E58048**
- **CSA File No. LR61158**

Phase failure relays protect motors, equipment and personnel from damage or injury caused by open phase, reversed phase sequence, or low voltage in a three phase system. Models are available for 50 and 60 Hz with voltages up to 575 volts. Motor control switchboards are a common application.

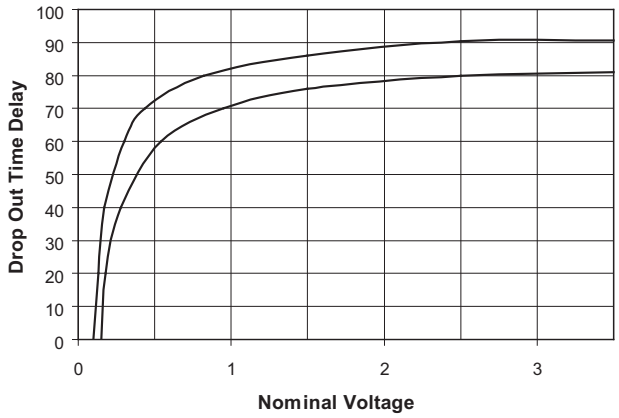
Operation

The contacts of the relay will close only when it senses normal conditions of three phase power at the proper phase sequence.

The relay contacts will remain in their normally open position (de-energized) when voltage with incorrect phase sequence is applied, one or more phases are open, or at undervoltage condition.



Note: Dimensions in inches. Multiply values by 25.4 for dimensions in mm.



Product Specifications

Nominal Voltage — See Ordering Information

Voltage Drop-Out — 75% to 100% of nominal, screwdriver adjustable

Pick-Up to Drop-Out Differential — 3% approx.

Ambient Operating Temperature — -40°C to +70°C

Temperature Drift — ± 1%

Time Delay — See Curve

Output Contacts — One set, normally open

Contact Ratings —
10 amp at 28 VDC resistive
10 amp at 230 VAC resistive

Notes:
1. Remove screw for access to the undervoltage adjustment.
2. Clockwise rotation of the adjustment potentiometer will raise the drop-out voltage.

Ordering Information

Sample Part Number ▶ **1004X**

Type:
1001 = 120 V, 60 Hz, 3 phase,L-L
1007 = 208 V, 60 Hz, 3 phase, L-L
1002 = 230 V, 60 Hz, 3 phase,L-L
1012 = 300 V, 60 Hz, 3 phase, L-L
1013 = 350 V, 60 Hz, 3 phase, L-L
1003 = 380 V, 50 Hz, 3 phase, L-L
1004 = 460 V, 60 Hz, 3 phase,L-L
1005 = 525 V, 60 Hz, 3 phase,L-L
1006 = 575 V, 60 Hz, 3 Phase, L-L

Mounting:
X = Flange
Blank - Stud

Consult factory for additional models.

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com

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TE Connectivity:

CRGCQ2010J3K3 RH73H2A40MKTN 2380312-2 MPT100C18RF ROX05SJ18R SBCHE154R7K 1393431-1
175977-2 3631B101LL SMW73R0JT 1-962915-1 917696-1 SBCHE64R7K TE50BR39J 1743455-2
3430B2F51RTDF 936348-1 1-794222-0 141991-2 1903112-2 2-292161-3 2005330-1 2377783-2
3-1393225-0 650075-000 CPF0402B37K4E1 U5254-000005-030PA 1969656-1 2310537-1 2834055-1