

Introduction

The Rishabh protector trip relays have been developed to provide a very comprehensive range of electronic control products for the continuous monitoring of electrical quantities. The units are designed for use in severe industrial environments and contain components to reduce nuisance tripping.

Description

Our protector trip relays offer continuous surveillance of the monitored circuit. When the monitored parameter moves outside the set point limit, the relay operates.

- A.C. and D.C. voltage
- A.C. current
- Frequency
- Phase sequence
- Phase failure
- Phase balance
- Thermistor Trip
- Thermocouple Trip
- Transducer Trip
- Millivolt Trip
- Hot spot (RTD)
- Speed sensing
- Synchro-check
- Reverse power

Application

Over half a million Protector units have been tried and tested, in many industrial environments. Successfully used in alarm protection and control functions, typically in 3 phase electrical power systems, control panels and genests.

Principle of operations

The signal under surveillance is fed an isolating transformer to the input circuit, rectified to give a proportional D.C. voltage and then compared with a preset reference voltage. Under fault conditions the resultant voltage forms a command signal which, after amplification, operates relay contacts to give a trip alarm function.

Casing

All products can be DIN rail or wall mounted. 253 & 256 cases have screw holes to facilitate wall mounting. 252 cases are supplied with an adapter plate for wall mounting. All products are supplied with a clear terminal cover / anti-tamper, manufactured from flame retardant polycarbonate.

Application Standards

Applicable Standards	: BS 60255, IS 3231-1997
Safety Requirements	: BS 5458, IEC 414
Temperature Range	: 0°C to 60°C
Storage Temperature	: 20°C to 70°C
Temp. Co-efficient	: 0.05% per°C
Interference Immunity	: Electrical stress surge withstand and non function to ANSI/IEEE
Enclosure Code	: IP50 to BS5490, IEC 259



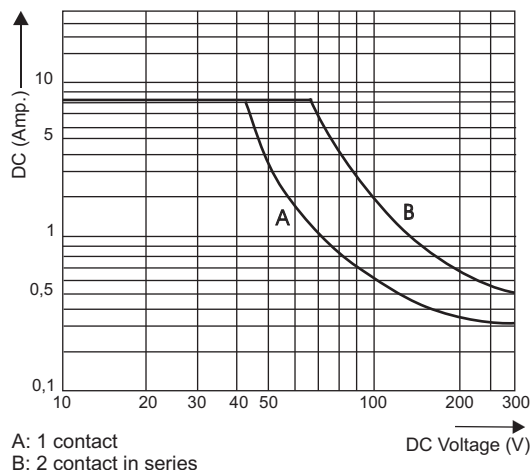
General Specifications

Calibrated at	: 23°C
Auxiliary A.C.:	50/60Hz
	: 110, 120, 230, 240, 400 or 415, or 440V $\pm 20\%$
D.C	: 12, 24, 48, 110, 120, 135V $\pm 15\%$ (maximum 156V D.C.) Maximum ripple 15%
Burden	: 4 VA maximum
Output Relay Type	: D. P. Changeover
Rating A.C	: 240 V, 5 A non - inductive
D.C	: See chart below
Operations	: 0.2 million at the above loads
Reset	: Automatic / Manual
Weight	: 252 case - approx 0.4 kg 253 case - approx 0.6 kg 256 case - approx 1.0 kg

⦿ For dimensions see page 19.

⦿ For ordering information see page 19.

Max DC load breaking capacity with resistive load



Rishabh Instruments



Measure, Control & Record with a Difference

RISHABH INSTRUMENTS

RISHABH INSTRUMENTS PVT.LTD.

F-31, MIDC, Satpur, Nashik-422 007, India.

Tel.: +91 253 2202160, 2202202 Fax : +91 253 2351064

E-mail : India :- marketing@rishabh.co.in

International :- exp.marketing@rishabh.co.in

www.rishabh.co.in