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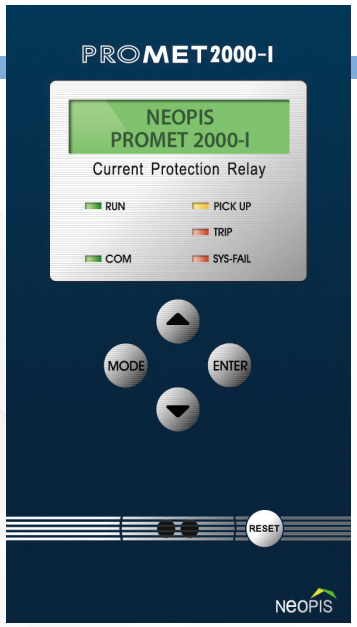
PROMET-2000Series

NEOPIS

PROMET-2000 is



a product for which a switchboard can be composed more economically and efficiently by providing various protection functions necessary for protection of power systems by type.
This can record 32 pieces of trouble information and operation information and communicate with upper systems via Modbus(RS-485).

Major functions

Protection of relay elements

- PROMET-2000-I : OCR, OCGR, NSOCR
- PROMET-2000-V : UVR, OVR, OVGR, FR, POR
- PROMET-2000-D : SGR, DGR, OVGR, FR

Recording of trouble information

- Trouble information : 32 pieces
- Operation information : 32 pieces

Status contacts

- DI : 4 ea (10A 250V)
- DO : 4 ea (AC/DC 110V)

Rating

- Wiring method : Grounded type, non-grounded type
- Frequency : 60Hz / 50Hz
- Input burden : CT 1VA or less, PT 0.5VA or less
- CT : 5(A)
- PT : 110/√3(V)
- GPT : 190/√3(V)
- ZCT : 200/1.5(mA)

Communication

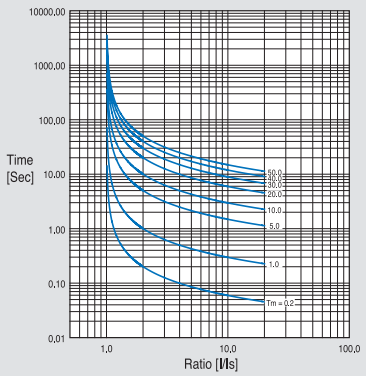
Item	Specification
Type	RS485 Two-wire, Half duplex, isolated
Transmission speed	9600 / 19200 (bps)
Protocol	MODBUS-RTU

Anti-environmental specification

Item		Specification
Temperature	Working temperature	-20 ~ 60°C
	Storage temperature	-25 ~ 70°C
Humidity		Daily average 30 ~ 80%
Test	Electrical fast Transient burst immunity	IEC60255-5 standard satisfied
	AC dielectric voltage	
	Impulse voltage	
	Surge Immunity	

Characteristic curve

Overcurrent Normal Inverse–NI



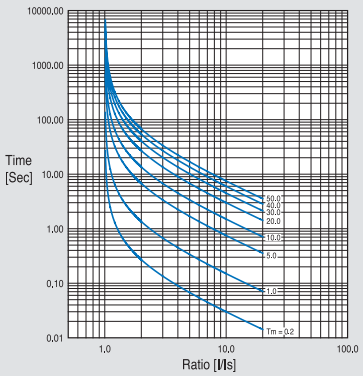
Application

Overcurrent(50/51)
Ground overcurrent(50/51N)
Reverse phase overcurrent(46)

t: Operating time
I: Input current value
Is: Set current value
Tm: Operating time lever

$$t = \left[\frac{0.14}{(I/I_S)^{0.02}-1}\right] \times \frac{Tm}{10}$$

Overcurrent Very Inverse–VI



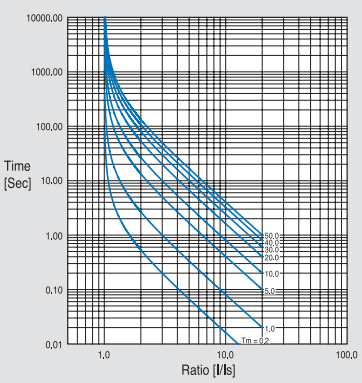
Application

Overcurrent(50/51)
Ground overcurrent(50/51N)
Reverse phase overcurrent(46)

t: Operating time
I: Input current value
Is: Set current value
Tm: Operating time lever

$$t = \left[\frac{13.5}{(I/I_S)-1}\right] \times \frac{Tm}{10}$$

Overcurrent Extremely Inverse–EI



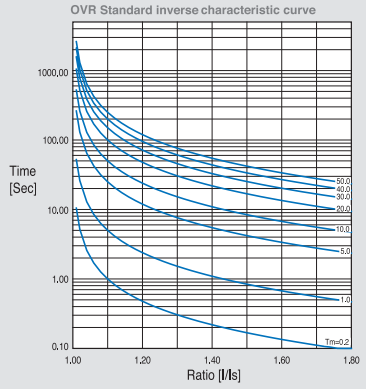
Application

Overcurrent(50/51)
Ground overcurrent(50/51N)
Reverse phase overcurrent(46)

t: Operating time
I: Input current value
Is: Set current value
Tm: Operating time lever

$$t = \left[\frac{80}{(I/I_S)^2-1}\right] \times \frac{Tm}{10}$$

Overvoltage Normal Inverse–NI



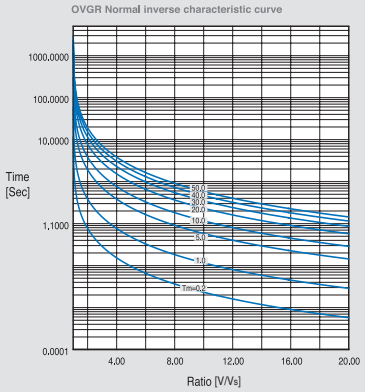
Application

Overvoltage(59)

t: Operating time
I: Input voltage value
Is: Set voltage value
Tm: Operating time lever

$$t = \left[\frac{10.5}{(V/V_S)^2-1}\right] \times \frac{Tm}{10}$$

Ground overvoltage Normal Inverse–NI



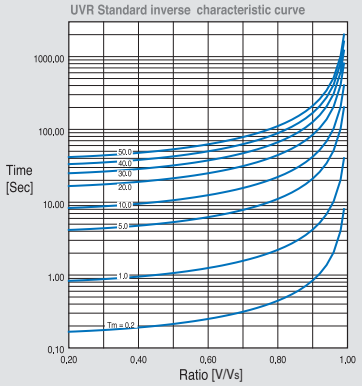
Application

Ground overvoltage(64)

t: Operating time
I: Input voltage value
Is: Set voltage value
Tm: Operating time lever

$$t = \left[\frac{11.5}{(V/V_S)^2-1}\right] \times \frac{Tm}{10}$$

Deficient voltage Normal



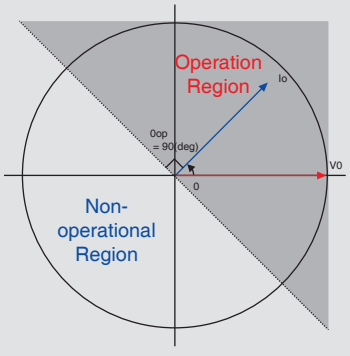
Application

Deficient voltage(27)

t: Operating time
I: Input voltage value
Is: Set voltage value
Tm: Operating time lever

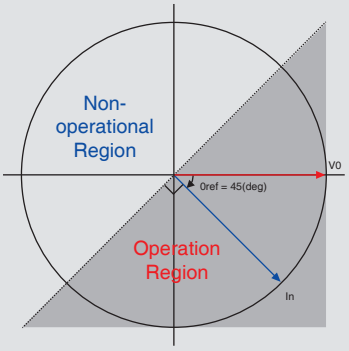
$$t = \left[\frac{8}{1-(V/V_S)^2}\right] \times \frac{Tm}{10}$$

SGR phase characteristics



Phase parameters	
Reference Angle	45 [deg]
Directional Angle	90 [deg]

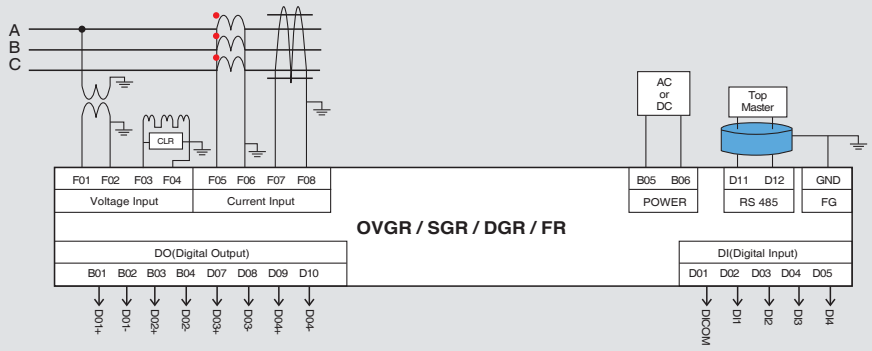
DGR phase characteristics



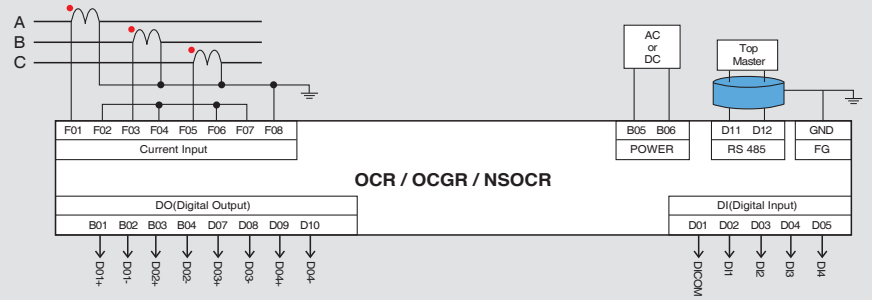
Phase parameters	
Reference Angle	45 [deg]
Directional Angle	90 [deg]

Wiring diagram

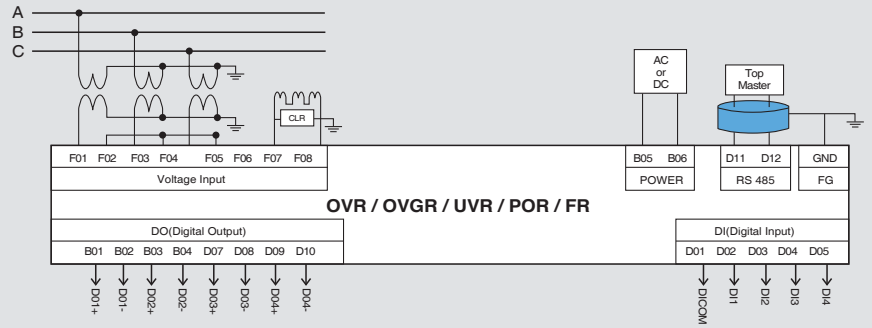
D Type



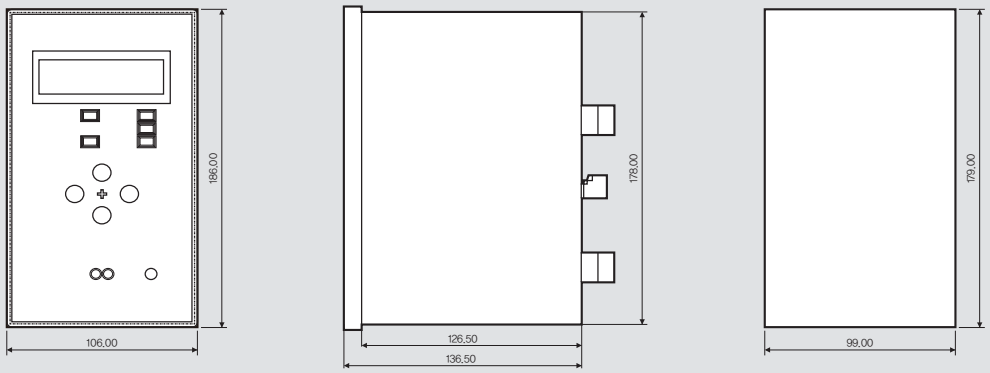
I Type



V Type



External dimensions



FRONT view **SIDE view** **PANEL CUT OUT**

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