

NP 802S (IDMT)



FEATURES

- Microprocessor based numerical relay
- Current measurement based on fundamental frequency
- Low-set inverse definite minimum time (IDMT) relay
- High-set instantaneous relay
- Separate low-set and high-set trip indicators
- Option to disable high-set element
- Front panel access to test function
- Complies with IEC 60255 standard
- Programmable relay output contact
- With RS485 communication

Technical Data

RATINGS

Rated current (I _n)	: 5 A
Frequency	: 50 Hz
Burden	: < 0.3 VA at I _n

AUXILIARY SUPPLY

Model NP802	: 198 - 265 Vac / 90 - 250 Vdc
Frequency	: 50 Hz
VA rating	: 3 VA typical

SETTING RANGES

Low-set (I _o >)	: 0.1A to 5.0A (2% to 100%)
Low-set time multiplier (k _{to} >)	: 0.01 to 1.0
Low-set delay time (DELAY)	: 0.01 sec to 20 sec
High-set (I _o >>)	: 0.1A to 50A (2% to 1000%) or disable
High-set delay time (I _o >>)	: 0.01 sec to 20 sec
Setting range	: (0.00 to 10.0, step 0.05; 10.0 to 100 step 0.5)

CONTACTS

Trip contact (R1 & R2)	: Manual / Auto reset type
Contact Arrangement	: Change-over
Contact rating	: 5 A, 240 V AC (cosφ = 1)
Contact material	: Silver alloy
Expected electrical life	: 100,000 operations at rated current
Expected mechanical life	: 5 x 10 ⁶ operations

TIME CURRENT CHARACTERISTIC CURVE

- Normal Inverse
- IDMT Very Inverse
- IDMT Extremely Inverse
- IDMT Inverse 1.3/10
- IDMT Long Timenverse

INDICATORS

Auxiliary indicator	: Red indicator
Pick-up	: Red indicator
Trip	: Red indicator

PERFORMANCE

Adjustable accuracy	: Less than 5%
Repeatability	: Less than 0.5% of full scale

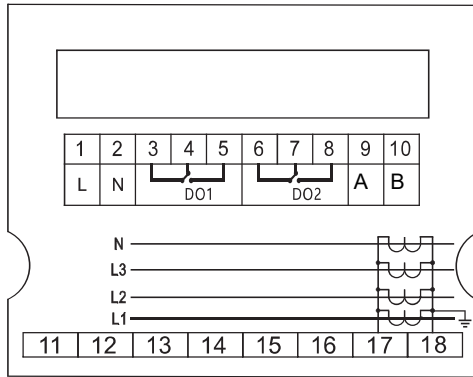
MECHANICAL

Mounting	: Panel mounting
Front panel	: Standard DIN 96mm x 96mm
Approximate weight	: 0.35 kg

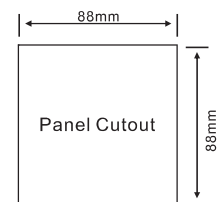
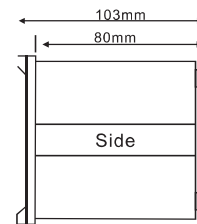
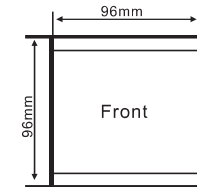
ENVIRONMENTAL CONDITIONS

Temperature	: -5°C to +55°C
Humidity	: 56 days at 93% RH and 40°C non-condensing

Earth Fault Relay



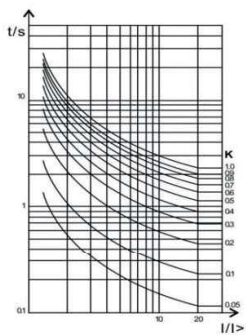
CASE DIMENSION



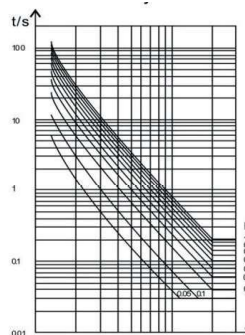
Ordering Information

MODEL	DESCRIPTION
NP 802	Auxiliary voltage 198-265 Vac / 90 -250 Vdc

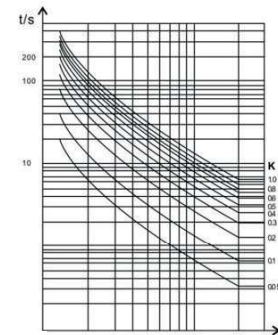
1. IDMT Normal Inverse



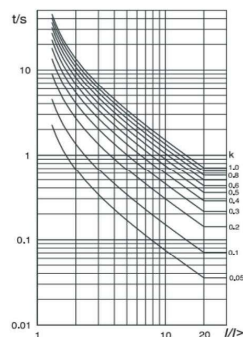
3. IDMT Extremely Inverse



5. IDMT Long Timenverse



2. IDMT Very Inverse



4. IDMT Inverse 1.3/10

