

NX234A



Features

- Microprocessor based numerical relay
- Current measurement based on fundamental frequency
- Three-phase, low-set overcurrent
- Three-phase, high-set overcurrent
- Local display of measured and set values
- Definite time for low-set and high-set
- Non-volatile fault value recording
- Programmable relay outputs
- Complies with IEC 60255 standard
- ANSI Code : 50P, 51P

Technical Data

RATINGS

| | |
|-------------------------|------------------------|
| Rated current (I_n) | : 5 A |
| Rated frequency | : 50 or 60 Hz |
| Burden | : < 0.3 VA at I_n |
| Thermal withstand | : 4 x I_n continuous |

AUXILIARY SUPPLY

| | |
|-------------------|------------------|
| Model NX234A-240A | : 198 ~ 265 V AC |
| Model NX234A-110A | : 94 ~ 127 V AC |
| Supply frequency | : 50 or 60 Hz |
| VA rating | : 3 VA typical |

SETTING RANGES

| | |
|---|--|
| Low-set ($I >$) | : 0.1 A to 10.0 A (2% to 200%) |
| Low-set definite time ($t >$) | : 0.00 sec to 100 sec |
| High-set ($I >>$) | : 0.5 A to 100 A (10% to 2000%) or disable |
| High-set delay time ($t >>$) | : 0.00 sec to 100 sec |
| (0.00 to 1.00, step 0.01; 1.00 to 10.0, step 0.10; 10.0 to 100, step 0.5) | |

ACCURACY

| | |
|-----------------------|-------------------------------------|
| Protection thresholds | : $\pm 5\%$ |
| Time delay | : $\pm 5\%$ with a minimum of 50 ms |

OUTPUT CONTACTS (R1 & R2)

| | |
|--------------------------|---------------------------------------|
| Rated voltage | : 250V AC / DC |
| Contact rating | : 5 A |
| Expected electrical life | : 100,000 operations at rated current |
| Expected mechanical life | : 5 x 10 ⁶ operations |

INDICATORS

| | |
|------------------|--|
| Auxiliary supply | : Green indicator |
| Pick-up | : Red indicator |
| Trip | : 7-segment display and Red indicators |

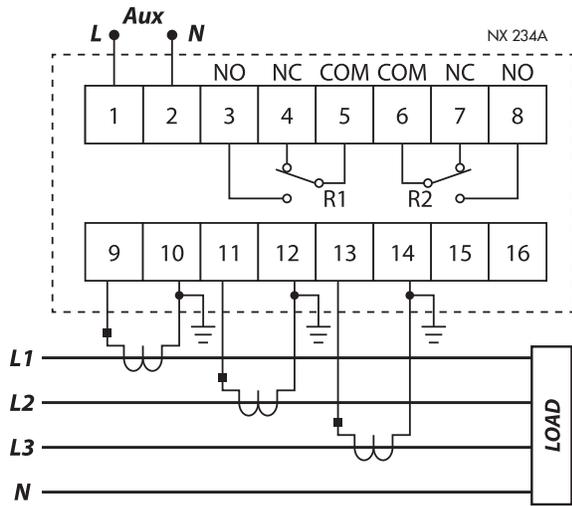
ENVIRONMENTAL CONDITIONS

| | |
|-------------|-----------------------------|
| Temperature | : -10°C to 55°C |
| Humidity | : 5% to 95%, non-condensing |

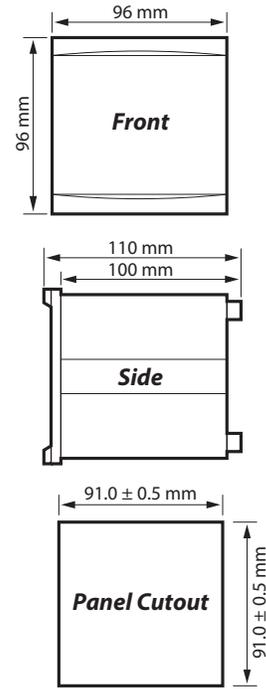
MECHANICAL

| | |
|----------------------|--------------------------|
| Mounting | : Panel mounting |
| Dimension (mm) | : 96(w) x 96(h) x 110(d) |
| Enclosure protection | : IP54 at the panel |
| Approximate weight | : 0.8 kg |

Typical Application Diagram



Case Dimensions



Ordering Information

| MODEL | DESCRIPTION |
|---------------|--|
| NX234A - 240A | For 50/60 Hz system, auxiliary supply 198 ~ 265 V AC |
| NX234A - 110A | For 50/60 Hz system, auxiliary supply 94 ~ 127 V AC |