



MK234A

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 60255-26 standard



RATINGS

 $\begin{array}{lll} \text{Rated current (I_{n})} & : 5 \text{ A} \\ \text{Rated frequency} & : 50 \text{ or } 60 \text{ Hz} \\ \text{Burden} & : < 0.3 \text{ VA at I_{n}} \\ \text{Thermal withstand} & : 4 \text{ x I_{n} continuous} \\ \end{array}$

AUXILIARY SUPPLY

Model MK234A-240A(6) : 198 ~ 265 V AC

Model MK234A-110A(6) : 94 ~ 127 V AC

Supply frequency : 50 or 60 Hz

VA rating : 3 VA typical

SETTING RANGES

Low-set (I >) : 0.5 A to 6.0 A, step 0.05 A / 10% to 120%, step 1% Low-set definite time (t >) : 0.05 to 99 sec, step 0.01 (0.05 to 1.0) / 0.1 (1.1 to 99)

High-set (| >>) : 0.5 A to 99.9 A or disable, step 0.10 A / 10% to 1998%, step 2%

High-set delay time (t >>) : 0.05 sec to 2.5 sec, step 0.01

ACCURACY

Protection thresholds : $\pm 5\%$

Time delay : \pm 5% with a minimum of 50 ms

CONTACTS (R1 & R2)

Contact arrangement : Change-over

Contact rating : 5 A, 250 V AC ($\cos \varphi = 1$)

Contact material : Silver alloy

Expected electrical life : 100,000 operations at rated current

Expected mechanical life $: 5 \times 10^6$ operations

INDICATORS

Auxiliary supply : Green indicator Pick-up : Red indicator

Trip : 7-segment display and red indicators

MECHANICAL

Mounting : Panel mounting

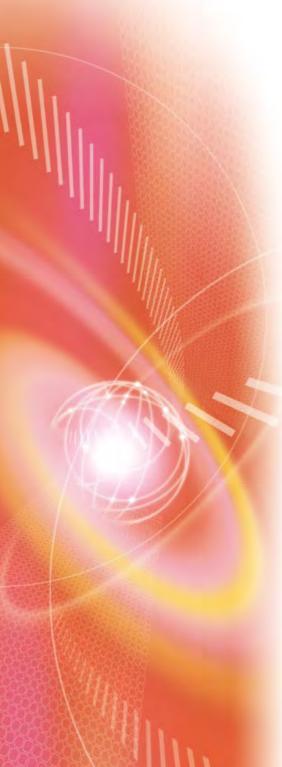
Front panel : Standard DIN 96 mm x 96 mm

Approximate weight : 0.7 kg

ENVIRONMENTAL CONDITIONS

Temperature : -5° C to $+55^{\circ}$ C

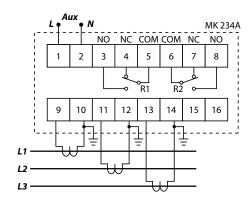
Humidity : 56 days at 93% RH and 40°C non-condensing

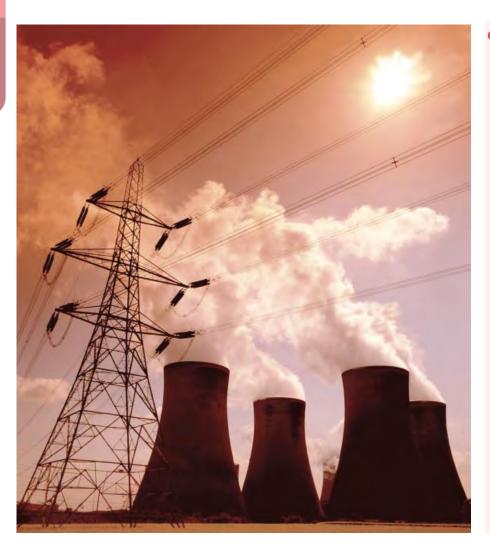


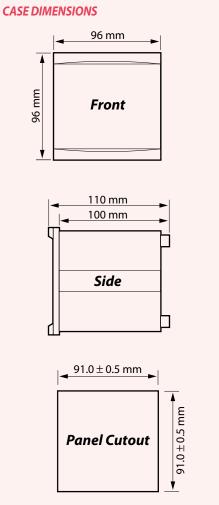


Moving Technology

TYPICAL APPLICATION DIAGRAM







Ordering Information

MODEL	DESCRIPTION
MK234A - 240A	For 50 Hz system, auxiliary supply 198 ~ 265 V AC
MK234A - 110A	For 50 Hz system, auxiliary supply 94 ~ 127 V AC
MK234A - 240A6	For 60 Hz system, auxiliary supply 198 ~ 265 V AC
MK234A -110A6	For 60 Hz system, auxiliary supply 94 ~ 127 V AC