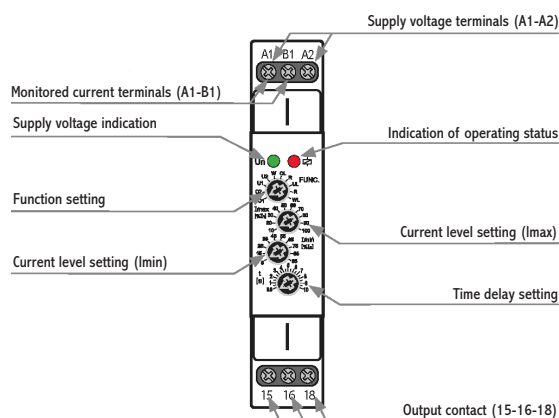




Multifunction AC Current Monitoring Relay

- **Over Current, Under Current, and Window Monitoring**
- **Universal Supply Voltage**
- **Slim, Space-saving Design**
- **DIN Rail Mount**
- **Automatic and Manual Resets**
- It is used to monitor the value of alternating current, e.g.: motors, heating cables, lamps and other devices.
- Power supply and monitoring circuits are not galvanically isolated.
- Monitors current exceeding the upper current limit (Imax) and falling below the lower current limit (Imin) – according to the selected function.
- Smooth adjustment of both current limits.
- Adjustable time delay (to eliminate short-term current spikes).
- Option to select functions with fault state memory (Latch).
- Measures true root mean square value of the current - TRUE RMS.
- Possibility to extend the current range using an external current transformer.

DESCRIPTION



ORDERING INFORMATION

PART NO.	DESCRIPTION
CMU100USD2	2A DIN rail mounted Multifunction Current Monitoring Relay
CMU100USD5	5A DIN rail mounted Multifunction Current Monitoring Relay

SPECIFICATIONS

SUPPLY

SUPPLY TERMINALS	A1 - A2
VOLTAGE RANGE	AC/DC 24-240V (AC 50-60 Hz)
POWER INPUT (MAX)	3.8VA/0.7W
SUPPLY VOLTAGE TOLERANCE	-15%; +10%

MEASURING CIRCUIT

CURRENT RANGE	CMU100USD2 In - 2A CMU100USD5 In - 5A (AC 50-60Hz)
MAX CONTINUOUS CURRENT OVERLOAD	CMU100USD2 4A CMU100USD5 10A
PEAK OVERLOAD (1s)	CMU100USD2 10A CMU100USD5 16A
CURRENT SETTING (Imax)	10 - 100% In
CURRENT SETTING (Imin)	5 - 95% In
TIME DELAY (d)	300ms
TIME DELAY (t)	Adjustable, 0.5-10s

ACCURACY

SETTING ACCURACY (MECH)	5%
REPEATABLE ACCURACY	<1%
TEMPERATURE DEPENDENCY	<0.1%/°C
LIMIT VALUES TOLERANCE	5%
HYSTERESIS (FAULT TO OK)	5% (function O1, U1, W) Imax - Imin (function O2, U2)

OUTPUT

NUMBER OF CONTACTS	1
CONTACT FORM	SPDT
CURRENT RATING	
OUTPUT (55°C)	13A/AC1 or 13A General Purpose at 250VAC
OUTPUT (40°C)	Pilot Duty B300
OUTPUT (40°C, N/O ONLY)	1HP at 240VAC, 1/2HP at 120VAC

BREAKING CAPACITY	4000VA/AC1, 384W/DC1
SWITCHING VOLTAGE	250VAC / 24VDC
POWER DISSIPATION (MAX)	1.2W
MECHANICAL LIFE	10,000,000 ops.
ELECTRICAL LIFE (AC1)	100,000 ops.

OTHER INFORMATION

OPERATING TEMPERATURE	-20 to +55°C (-4°F to 131°F)
STORAGE TEMPERATURE	-30 to +70°C (-22°F to 158°F)
OPERATING POSITION	Any
DIELECTRIC STRENGTH	4kV AC (supply - output)
MOUNTING	DIN rail EN 60715
PROTECTION DEGREE	IP40 front panel / IP20 terminals
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
MAX CABLE SIZE (MM²)	solid wire max. 1x 2.5 or 2 x 1.5 with sleeve max. 1 x 2.5 (AWG 14)
DIMENSIONS	90 x 17.6 x 64mm 3.5" x 0.7" x 2.5"
WEIGHT	60g (2.15oz)
STANDARDS	EN 60255-1, EN60255-26, EN60255-27

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