

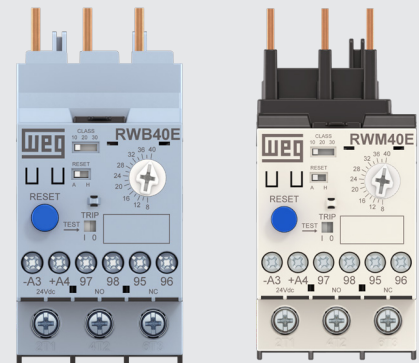
RW-E Series – Solid-State Overload Relays



High Performance and Reliability

RW-E Series Solid-State Overload Relays

High performance and protection solutions for electric motors in the event of overload or phase failure. WEG offers 3-pole solid-state overload relays up to 840A with local and remote reset modes and a wide range of accessories. RW-E series overload relays can be mounted directly on WEG contactors up to 105A and mounted separately from 112A to 800A.



UL File No. E189202

Standard Features

- Adjustable trip class 10, 20, 30
- Trip indication - Flag
- Wide (5:1) ratio adjustable current setting range
- Isolated N.C “Trip” and N.O “Alarm” auxiliary contacts
- Overload/Phase imbalance/phase loss protection
- Selectable Manual/Auto/Remote RESET button
- Direct mounting on WEG CWB9...38 and CWM9...105
- Low energy consumption and power dissipation
- Ambient temperature compensation from -4°F to +140°F

Wide Range of Accessories

1. Panel mounting brackets
2. External RESET pushbuttons
3. Connector links
4. Phase barriers/Spare lugs



Trip class dip-switch

Solid-State Overload Relays - RW-E Series

Suitable for Great Variety of Applications

The solid-state overload relays RW-E are suitable to protect motors in a wide range of industrial applications including those where long starting time is required. This way, motors on low, medium or heavy-duty applications can be properly protected just by selecting the proper trip class (10, 20 or 30 according to IEC 60947-4-1) in the DIP-switches.

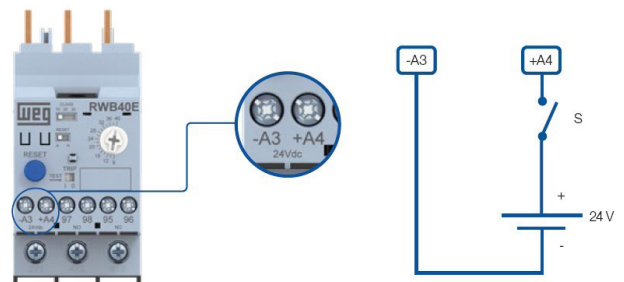
Additionally, the micro-processed electronic circuits of RW-E are temperature compensated according to IEC 60947-4-1, which means that throughout the temperature range of -20 °C up to +60 °C, the tripping point is not affected and it performs consistently without undesirable tripping.

The RW-E also features thermal memory which assures that the heating and cooling effects of motors are modeled and proper protection is guaranteed even after downtime periods.

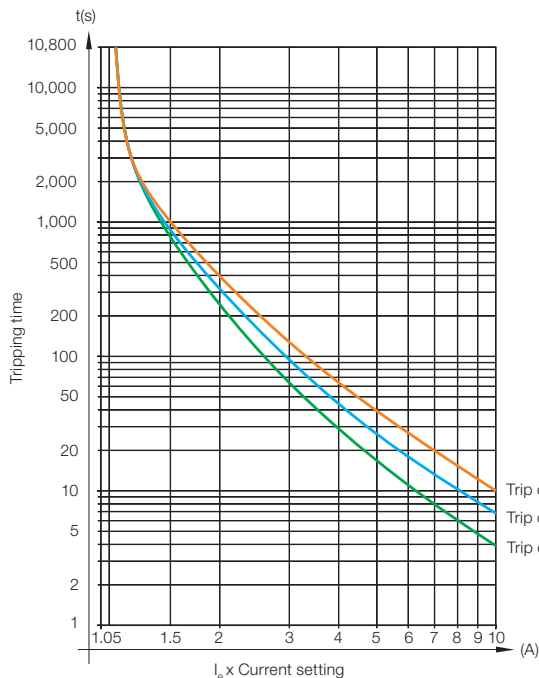
Local and Remote Reset Modes

Solid state overload models with remote reset mode can be reset locally (in front of a panel where the solid-state overload is installed) or remotely (long-distance operation).

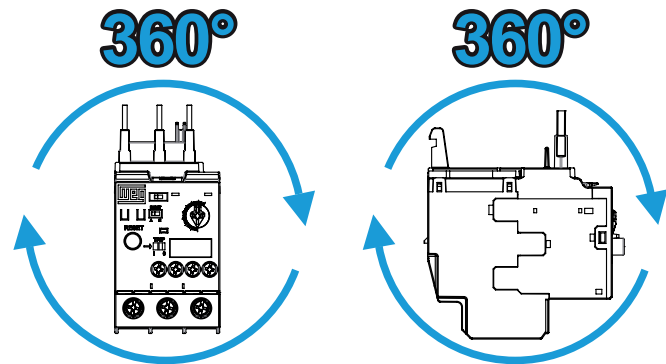
- The Local Reset mode is performed by pressing the blue “RESET” button located on the front of the overload or by pressing an external Reset pushbutton (separate accessory) with shaft that can be wired and mounted on a panel enclosure without having to open the panel door.
- The Remote Reset mode is performed by applying 24 VDC across terminals – A3 and +A4 and by pressing an external pushbutton (separate accessory) or via a PLC’s digital output.



RW and RW-E Tripping Characteristics



Trip class	Multiples of current setting			
	1.05 x I _r	1.2 x I _r	1.5 x I _r	7.2 x I _r
10	-	Tp < 2h	Tp < 4min	4 < Tp ≤ 10s
20	-	Tp < 2h	Tp < 8min	6 < Tp ≤ 20s
30	-	Tp < 2h	Tp < 12min	9 < Tp ≤ 30s



Mounting Position



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