

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 a wide range of accessories. RW series overload relays can be mounted directly on WEG contactors up to 105A and mounted separately from 112A to 840A.



UL File No. E189202

Standard Features

- Adjustable trip class 10, 20, 30
- Trip indication - Flag
- Wide (5:1) ratio adjustable current setting
- Isolated N.C “Trip” and N.O “Alarm” auxiliary contacts
- Overload/Phase imbalance/phase loss protection
- Selectable Manual/Auto/Remote RESET button
- 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



1



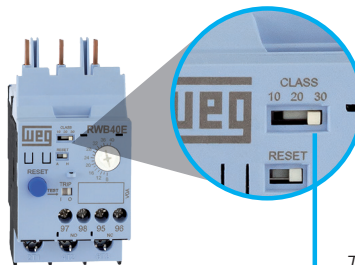
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Trip class dip-switch

Thermal Overload Relays - RW-E Series

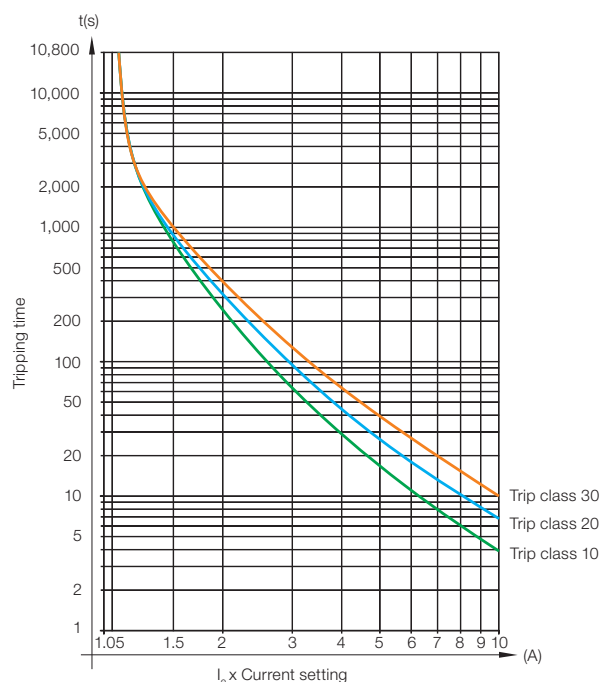
Suitable for Great Variety of Applications

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 microprocessed 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.

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	-	T _p < 2h	T _p < 4min	4 < T _p ≤ 10s
20	-	T _p < 2h	T _p < 8min	6 < T _p ≤ 20s
30	-	T _p < 2h	T _p < 12min	9 < T _p ≤ 30s

