

**CI.8 Organisation structurelle et solutions constructives
des chaînes d'énergie**
CI.10 Amélioration de la gestion de l'énergie
O4 Décoder l'organisation fonctionnelle d'un système

SECURITE ELECTRIQUE

CARACTERISTIQUES DE LA PROTECTION THERMIQUE DU GYROPODE

Tyco
Electronics

Catalog 1308242
Issued 3-03 (PDF Rev. 5-10)



W58 series

**P&B Push To Reset Only
Thermal Circuit Breaker**



Features

- 0.5 amp to 30 amp ratings.
- Cannot be manually tripped.
- Button extends for visual trip indication.
- Push button to reset breaker.
- Termination is screw or .250" QC.
- Bottom marked amperage rating optionally available.

Agency Approvals

W58 Series is UL 1077 Recognized as Supplementary Protectors, File E69543 and meets Ignition Protection requirements in accordance with UL 1500. W58 Series is also CSA Accepted as Supplementary Protectors (Appliance Component Protectors), File LR15734.

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to confirm the product meets the requirements for a given application.

Electrical Data @ +25°C

Calibration: Breaker will continuously carry 100% of rated load. It may trip between 101% and 145% of rated load, but must trip at 145% at 25°C.

Dielectric Strength: Over 1,500 volts RMS.

Maximum Operating Voltages: 50VDC; 250VAC.

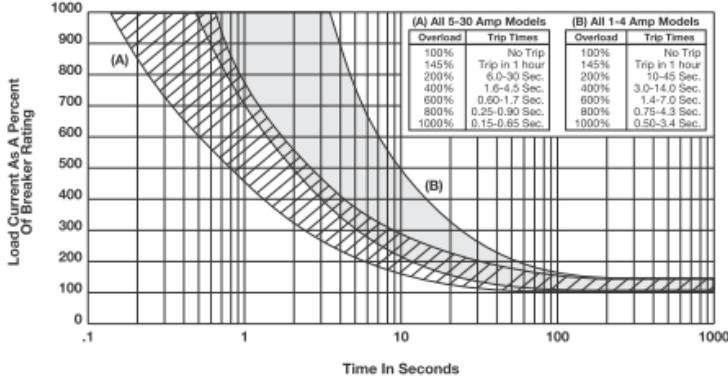
Interrupt Capacity: 2,000 amps at 50VDC (0.5 - 30 amp models).

1,000 amps at 250VAC (0.5 - 30 amp models).

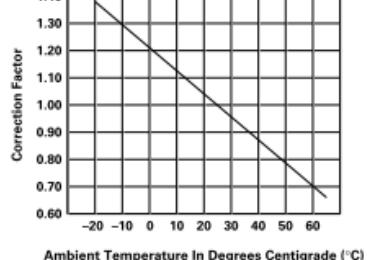
Note: 30 amp model not UL or CSA.

Resettable Overload Capacity: Ten times rated current.

Time vs. Current Trip Curve @ +25°C



Ambient Compensation Chart



To use this chart: Read up from the ambient temperature to the curve, and across to find a correction factor. Multiply the breaker rating by the correction factor to determine the compensated rating. Calculate the overloads in terms of the compensated rating to use the published trip curve.

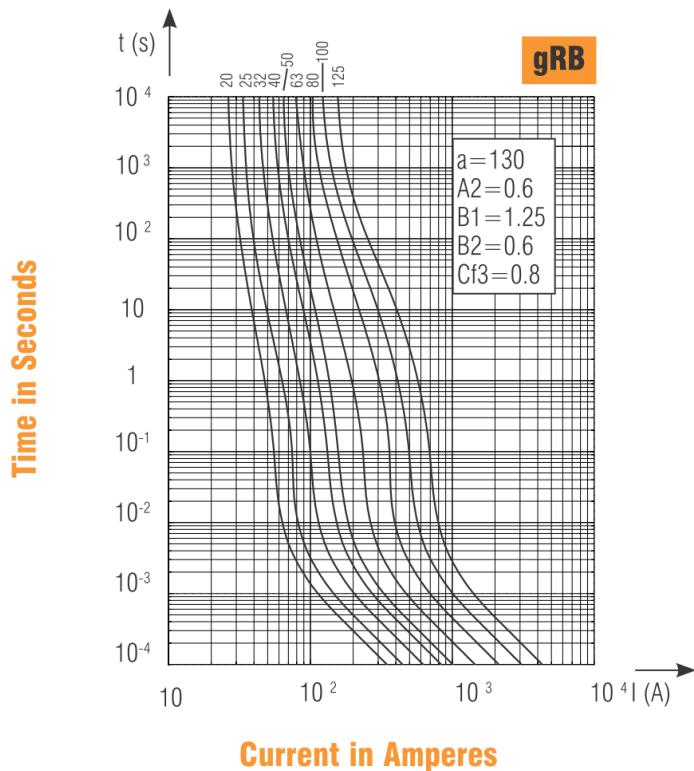
Ordering Information

| Typical Part No. > | W | 58 | -X | B | 1 | A | 4 | A | -5 |
|--|-----|----|----|--|----|-----|---|---|----|
| 1. Designator: W = Circuit breaker | | | | | | | | | |
| 2. Series Number: 58 = Single Pole, Push-to-Reset | | | | | | | | | |
| 3. Circuit Function: X = Series Trip | | | | | | | | | |
| 4. Button and Rate Marking: A = White, plain, no rate marking, no trip band B = White with red rate marking, red trip band C = White with black rate marking, red trip band | | | | E = White with red rate marking no trip band F = White with black rate marking, no trip band K = Black, plain, no rate marking, no trip band | | | | | |
| Note: Rate marking on the bottom of the case is available on a special order basis. Consult factory for details. | | | | | | | | | |
| 5. Mounting Bushing: 1 = Metal, 7/16" x .500" (12.70mm) long 4 = Metal, 15/32" x .300" (7.62mm) long, black 6 = Metal, 3/8" x .465" (11.81mm) long, round | | | | 7 = Plastic, 3/8" x .465" (11.81mm) long, round | | | | | |
| 6. Terminals: A = Quick connect .250" (6.35mm) straight C = 6/32 screw 90° (screws installed) D = 6/32 screw 90° (screws bulk packed) | | | | | | | | | |
| 7. Mounting Hardware: 4 = Metal, knurled nut/hex nut 6 = Metal, knurled nut/hex nut/lock washer 12 = Metal, knurled nut/lock washer 15 = Metal, two hex nuts/lock washer 18 = Metal, hex nut/lock washer | | | | 7 = Plastic, knurled nut 22 = Plastic knurled nut, metal lock washer | | | | | |
| Note: For other hardware combinations, order separately. See mounting hardware Ordering Information table. | | | | | | | | | |
| 8. Mounting Hardware Packaging: A = Assembled to bushing B = Bulk unassembled C = No mounting hardware | | | | | | | | | |
| 9. Specify Amp Rating: | 0.5 | 3 | 6 | 9 | 15 | 30* | | | |
| | 1 | 4 | 7 | 10 | 20 | | | | |
| | 2 | 5 | 8 | 12 | 25 | | | | |
| *Not UL or CSA | | | | | | | | | |

Stock Items – Authorized distributors are more likely to stock the following items.

| | | | | |
|--------------|---------------|---------------|----------------|----------------|
| W58-XB1A4A-1 | W58-XB1A4A-6 | W58-XB1A4A-15 | W58-XC4C12A-2 | W58-XC4C12A-15 |
| W58-XB1A4A-2 | W58-XB1A4A-7 | W58-XB1A4A-20 | W58-XC4C12A-3 | W58-XC4C12A-20 |
| W58-XB1A4A-3 | W58-XB1A4A-8 | W58-XB1A4A-25 | W58-XC4C12A-5 | W58-XC4C12A-25 |
| W58-XB1A4A-4 | W58-XB1A4A-10 | W58-XB1A4A-30 | W58-XC4C12A-7 | W58-XC4C12A-30 |
| W58-XB1A4A-5 | W58-XB1A4A-12 | W58-XC4C12A-1 | W58-XC4C12A-10 | |

CARACTERISTIQUES D'UN FUSIBLE ULTRA RAPIDE



CARACTERISTIQUES D'UN DISJONCTEUR

Courbes disjonction MCB (Miniature Circuit Breakers)

