

W31-X2M1G-20

✓ ACTIVE

Potter & Brumfield | Potter & Brumfield W23-31

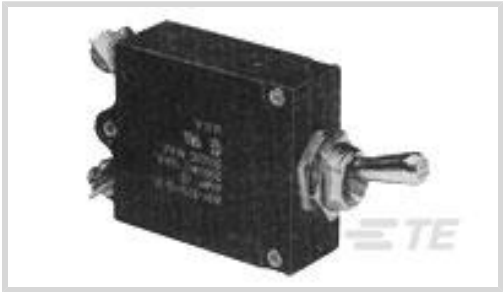
TE Internal #: 3-1393247-5

Thermal Circuit Breaker, Series Trip, Silver Actuator, 240 VAC, 50 VDC, 20 A, 1 Pole, 6 – 22 seconds Trip Time at 200%, Potter & Brumfield W23-31

[View on TE.com >](#)



Relays & Contactors > Circuit Breakers



Circuit Breaker Type: **Thermal**

Circuit Function: **Series Trip**

Illuminated: **Without**

Actuator Color: **Silver**

Operating Voltage: **240 VAC**

Features

Product Type Features

|                       |                   |
|-----------------------|-------------------|
| Circuit Breaker Style | Toggle            |
| Illumination Type     | No Light          |
| Actuator Type         | Push-Pull, Toggle |
| Circuit Breaker Type  | Thermal           |
| Illuminated           | Without           |

Configuration Features

|                  |                   |
|------------------|-------------------|
|                  | .47 (Diameter) in |
| Circuit Function | Series Trip       |
| Number of Poles  | 1                 |

Electrical Characteristics

|                    |                         |
|--------------------|-------------------------|
| Operating Voltage  | 50 VDC                  |
| Current Rating     | 20 A                    |
| Interrupt Capacity | 1000A @ 50VDC or 120VAC |

Body Features

|                |        |
|----------------|--------|
| Actuator Color | Silver |
|----------------|--------|

Contact Features

|                   |                |
|-------------------|----------------|
| Trip Time at 200% | 6 – 22 seconds |
|-------------------|----------------|

Termination Features



|                        |                               |
|------------------------|-------------------------------|
| Terminal Configuration | 8-32 Screws 90° to Each Other |
|------------------------|-------------------------------|

Mechanical Attachment

|                             |                                                                 |
|-----------------------------|-----------------------------------------------------------------|
| Mounting Options            | Two Hex Nuts/Lockwasher                                         |
| Mounting Hardware Packaging | Assembled to Bushing                                            |
| Mounting Bushing            | 15/32-32 Threaded Bushing .32" Long<br>Double "D", Silver Color |

Identification Marking

|                      |                  |
|----------------------|------------------|
| Stamped Marking Type | Amp Rate Marking |
|----------------------|------------------|

Product Compliance

For compliance documentation, visit the product page on [TE.com](#)>

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant with Exemptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| EU ELV Directive 2000/53/EC                   | Compliant with Exemptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| China RoHS 2 Directive MIIT Order No 32, 2016 | 有害物质含量超出标准<br>Restricted Substance(s) Above Threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>SVHC > Threshold:<br>Cadmium oxide (10% in 17874790769)<br>Pb (3.7% in 74019790)<br><b>Article Safe Usage Statements:</b><br>Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content                               | Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Solder Process Capability                     | Not applicable for solder process capability                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>



Compatible Parts



TE Part # 2-320568-2  
TERM, RT, PIDG IR, 12, #8



TE Part # 3-1393247-6  
W31-X2M1G-25=W23/W31

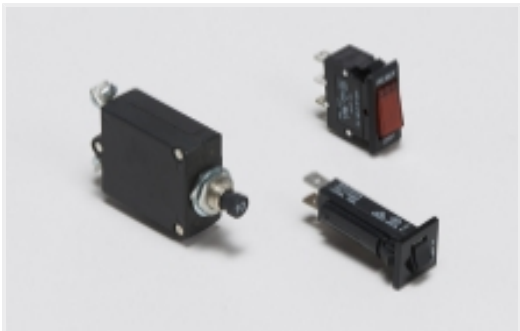


TE Part # 35152  
TERMINAL,PIDG SPD 12-10 8



TE Part # 3-1393247-3  
W31-X2M1G-15=W23/W31

Also in the Series | Potter & Brumfield W23-31



Circuit Breakers(27)

Customers Also Bought



TE Part #CG3604-000  
CI-2RL151



TE Part #T4151320005-003  
RPC-M12-FS-5CON-PUR-1.5



TE Part #CAT-SE594-M1HH  
M12 A-Code Male Straight Single Ended Cable



TE Part #3-1393247-6  
W31-X2M1G-25=W23/W31



TE Part #3-1393247-8  
W31-X2M1G-30=W23/W31



TE Part #4-1393247-1  
W31-X2M1G-40=W23/W31



TE Part #4-1393247-3  
W31-X2M1G-50=W23/W31



TE Part #4-1393247-4  
W31-X2M1G-7.50=W23/W31





TE Part #604992-HE  
PCB SKT ASSY.#23. AS MICRO MK3.

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_3-1393247-5\_C\_c-3-1393247-5-c.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-1393247-5\_C\_c-3-1393247-5-c.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-1393247-5\_C\_c-3-1393247-5-c.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

W23/31 Toggle or Pusl/Pull Actuator Thermal Circuit Breaker

English

W23/W31 Series Datasheet

English

Agency Approvals

UL

English