



# RTB14012F Product Details

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**RTB14012F**  
(2-1419108-5)

TE Internal Number: 2-1419108-5

Active

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## Industrial Relays (General Purpose)

Converted to EU RoHS/ELV Compliant (Statement of Compliance)

### Product Highlights:

- RT1 Series
- Contact - Current Class = 10A to 20A Class, Less Than 16A
- Contact - Rated Current = 12 A
- Terminal Type = PCB-THT, Plug-in
- Contact - Arrangement = 1 Form C (CO)

[View all Features](#)

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## Documentation & Additional Information

**Product Drawings:**

- None Available

**Catalog Pages/Data Sheets:**

- [Power PCB Relay RT1 \(PDF, English\)](#)
- [Power PCB Relay RT1 Potter & Brumfield \(PDF, English\)](#)

**Product Specifications:**

- None Available

**Application Specifications:**

- None Available

**Instruction Sheets:**

- None Available

**CAD Files: (CAD Format & Compression Information)**

- [2D Drawing \(DXF, Version E\)](#)
- [3D Model \(IGES, Version E\)](#)
- [3D Model \(STEP, Version E\)](#)

[List all Documents](#)

**Additional Information:**

- [Product Line Information](#)

**Related Products:**

- [Tooling](#)

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## Product Features (Please use the Product Drawing for all design activity)

**Electrical Characteristics:**

- Contact - Current Class = 10A to 20A Class, Less Than 16A
- [Contact - Rated Current \(A\)](#) = 12
- Contact - Limiting Continuous Current (A) = 12
- Contact - Limiting Making Current (A) = 25
- Contact - Limiting Breaking Current (A) = 12
- Insulation - Initial Dielectric Between Coil/Contact Class = >4000V Class
- Insulation - Initial Dielectric Between Open Contacts (V rms) = 1000
- Insulation - Initial Dielectric Between Contacts and Coil (V rms) = 5000
- Contact - Rated Voltage (VAC) = 250
- Contact - Switching Voltage Max. (VAC) = 400
- Contact - Limiting Short-Time Current (A) = 12
- Coil - Rated Voltage (VDC) = 12
- [Coil - Resistance \(Ω\)](#) = 360
- [Coil - Rated Power, DC \(mW\)](#) = 400
- Coil - Rated Power Class = 300mW to 400mW Class
- Insulation - Creepage Class = >8mm Class
- Insulation - Clearance Class = >8mm Class
- Insulation - Special Features = Tracking Index of Relay Base PTI250

**Dimensions:**

- Mechanical - Length Class = 25mm to 30mm Class
- Length (mm [in]) = 29.00 [1.142]
- Mechanical - Width Class = 12mm to 16mm Class
- Width (mm [in]) = 12.70 [0.500]
- Mechanical - Height Class = 15mm to 16mm Class

**Body Features:**

- Mount Type = PCB, Socket
- Weight (g [oz]) = 14.00 [0.494]

**Contact Features:**

- Terminal Type = PCB-THT, Plug-in
- Contact Material = AgNi90/10
- Contact - Number of Poles = 1

**Configuration Features:**

- [Contact - Arrangement](#) = 1 Form C (CO)
- [Coil - Magnetic System](#) = Monostable, DC
- Coil - Special Features = UL Coil Insulation Class F

**Industry Standards:**

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Wave solder capable to 260°C, Wave solder capable to 240°C
- RoHS/ELV Compliance History = Converted to comply with RoHS directive
- Approved/Registered Standards = VDE, cCSAus, CQC, cULus

**Environmental:**

- Environmental - Category of Protection = RTIII
- Environmental - Ambient Temperature, Max. (°C [°F]) = 85 [185]
- Environmental - Ambient Temperature Class = 70°C to 85°C Class

**Packaging Features:**

- Packaging Method = Tube

- Height (mm [in]) = 15.70 [0.618]
- Insulation - Clearance Between Contact and Coil (mm [in]) = 10 [0.394]
- Insulation - Creepage Between Contact and Coil (mm [in]) = 10 [0.394]

**Other:**

- Series = RT1
- Brand = Potter & Brumfield
- Accessories/Socket Type = DIN-rail Socket, PCB Socket

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