



# STANDARD POWER TIMER HOUSINGS WITH TPA AND MATING HEADERS

## Inline Connectors Meet RAST 5 Standard Compression Crimp Connection Technology

TE Connectivity (TE) introduces new housings with integral terminal position assurance (TPA) devices for crimp type, standard power timer contacts, along with mating headers meeting the RAST 5 standard. Both housings and headers meet the Glow Wire test (750°C, no flame) as well as UL 94 V-0 flammability requirements. The new connectors are offered in 3, 5 and 7 position models with vacant spaces between positions to provide 2, 3 or 4 contacts for power connections. The housings' integral covers incorporate TPA devices to help ensure contacts are fully seated, and the housings also have external locking latches to help prevent unintended disconnection. The housings utilize 16A rated crimp, standard power timer contacts that accommodate 1.0 - 2.5mm<sup>2</sup> wire with insulation from 2.0 - 3.3mm diameter. The DIN style, vertical headers have 6.3 x 0.8mm tabs.

### KEY FEATURES

- Multiple position power connector can save per line connection time when compared to discrete terminal connections.
- Integrated housing covers incorporate TPA devices to help assure contacts are fully seated and provide an extra measure of security against contact backout
- Natural color nylon material meets Glow Wire test (750°C, no flame) and UL 94 V-0
- Housings use an existing, robust, crimp-type, standard power timer contact rated 16A
- Vacant spaces between contacts provide greater isolation
- Multiple keying options are available
- External locking latches help prevent unintentional disconnection
- Choice of locking latch geometries – standard or alternate type with wider areas on which to press
- Mating DIN style, vertical headers
- UL recognized and VDE approved

### APPLICATIONS

- Room air conditioners
- Power supply connections in home appliances and other commercial and industrial applications

### ELECTRICAL

- Voltage rating: 250 VAC
- Current rating: 16 A, max.

### MECHANICAL

- Positions: 3, 5, 7 for 2, 3, 4 contacts
- Pitch: 5 mm per RAST 5
- Temperature range: -40°C to +110°C
- Wire size: 1.0 - 2.5mm<sup>2</sup>
- Insulation range: 2.0 - 3.5mm diameter

### MATERIAL

- Housing & header body: Natural color nylon meeting GWT (750°C, no flame) and UL 94 V-0
- Contacts: Tin plated copper alloy

### SPECIFICATIONS & STANDARDS

- Header product specification: 108-106080
- Contact product specification: 108-18025
- Contact application specification: 114-18037
- UL recognized, file E28476
- VDE approved (contact), certificate 40042369

# STANDARD POWER TIMER CONNECTOR WITH TPA

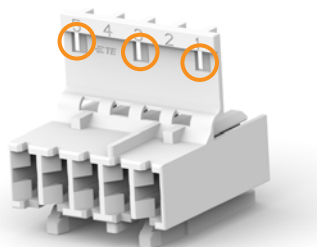
Meeting RAST 5 Standard

## AVAILABLE HOUSINGS WITH TPA AND MATING HEADERS

| Positions (Contacts) | Housing Part Number        | Housing Latch Type                     | Header Part Number | RAST 5 Keying |
|----------------------|----------------------------|----------------------------------------|--------------------|---------------|
| 3 (2)                | 2295787-3                  | Standard                               | 1-2232511-3        | 03-G          |
| 5 (2)                | 2295787-5<br>5-2295787-5   | Standard<br>Alternate (Extended Width) | 1-2232511-5        | 05-B          |
| 7 (4)                | 2295787-7                  | Standard                               | 1-2232511-7        | 07-C          |
| 7 (4)                | 1-2295787-7<br>5-2295787-7 | Standard<br>Alternate (Extended width) | 2-2232511-7        | -             |

Housings listed above use crimp-type standard power timer contact part number 964203-1. The contacts are provided in strip form and may be applied with TE OCEAN applicator X-2151059-X.

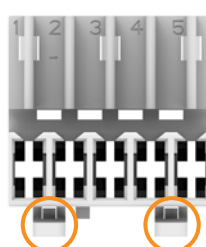
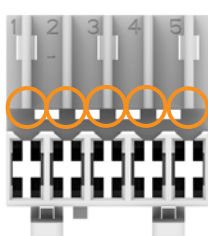
## INTEGRAL TPA DEVICES



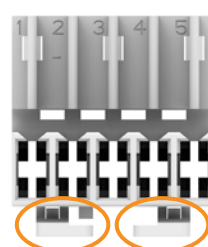
Terminal position assurance (TPA) devices are molded into the housing's integral cover to help assure contacts are fully inserted.

After the Standard Power Timer Terminals are inserted and lock in place, an operator can close the cover and the edge of the ribs comes in contact with the terminal box to lock it in place.

## CHOICE OF LOCKING LATCH LEVER TYPE



Standard



Alternate (Extended Width)

## DESIGN-IN QUESTIONS

1. Do you need to make a power connection (up to 16A) to a PC board?
2. Are you interested in a multi-position connector to save valuable assembly time instead of using individual terminals?
3. Would you like to use a connector system meeting the RAST 5 standard?
4. Does the connector need to comply with the Glow Wire test and/or UL 94 V-0 flammability standards?
5. Are you interested in an integrated TPA device that helps to ensure that the contacts are fully seated in the housing?

If the answers are "yes," these RAST 5 standard power timer connectors with TPA may represent a great solution for the application.

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