



CII

TE Internal #: 9-1617806-4

TE Internal Description: TD231-3002P=TDAR 3 TO 30 SEC

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Relays, Contactors & Switches > Relays > Time Delay Relays



Type of Control: **Adjustable**

Input Voltage: **28 VDC**

Contact Current Rating: **10A@28VDC A, 115VAC A**

Mode of Operation: **Delay on Release**

Delay Time: **30 seconds**

## Features

### Product Type Features

Enclosure Type	Hermetic Sealed Metallic
Product Type	Relay
Relay Type	Time Delay
Product Category	Electromechanical Relays
Magnetic Blow-Out Device	Without

### Configuration Features

Status Indicator	None
Multiple Timing Ranges	Without

### Electrical Characteristics

Actuating System	DC
Input Voltage	28 VDC

### Contact Features

Contact Arrangement	2 Form C, DPDT, 2 C/O
Contact Base Material	Silver Cadmium Oxide
Type of Control	Adjustable
Contact Current Rating	10A@28VDC A, 115VAC A
Delay Time	30 seconds

### Termination Features

Termination Type	Solder Pin Terminal
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### Mechanical Attachment

Mounting Type	Raised Vertical Flange Mount
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### Dimensions

Dimensions (L x W x H) (Approximate)	25.79 x 25.79 x 25.4 mm[1.015 x 1.015 x 1 in]
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### Usage Conditions

Operating Temperature Range	-55 – 125 °C
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### Operation/Application

Mode of Operation	Delay on Release
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### Other

Repeatability (Max)	±10%
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## Product Compliance

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

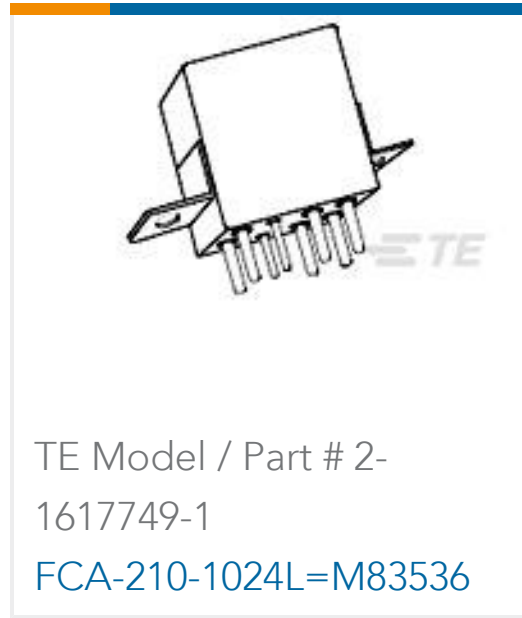
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUL 2019 (201) Candidate List Declared Against: JAN 2019 (197) Does not contain REACH SVHC
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUL 2019 (201) Candidate List Declared Against: JAN 2019 (197)
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not lead free process capable

#### Product Compliance Disclaimer

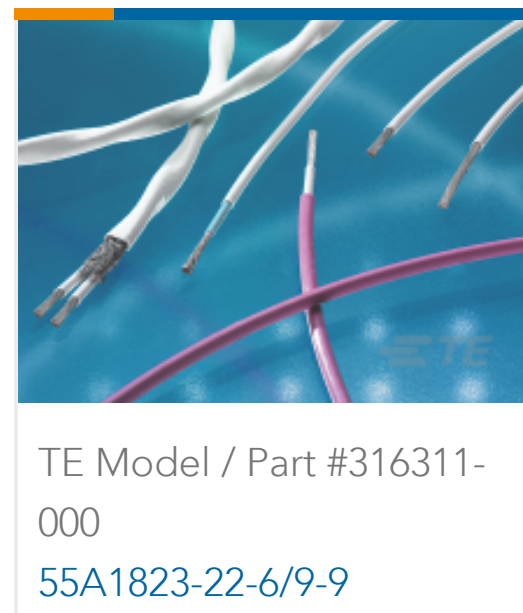
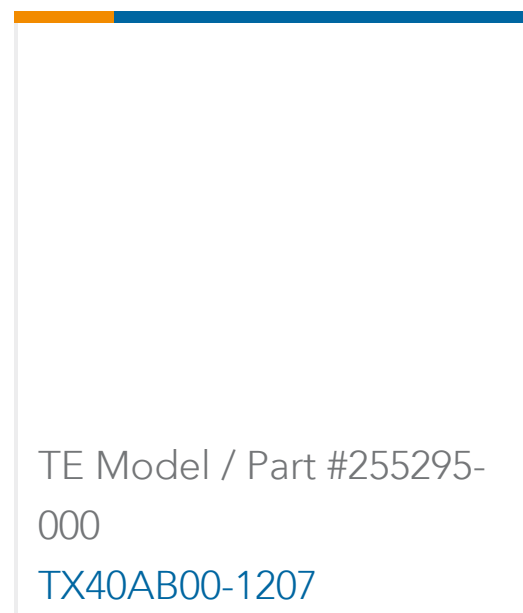
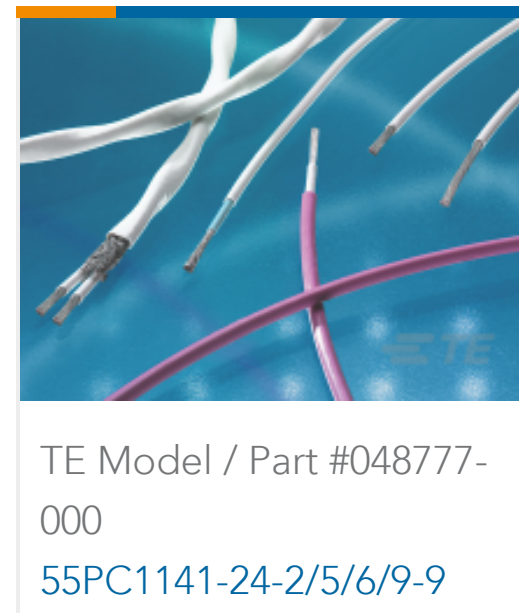
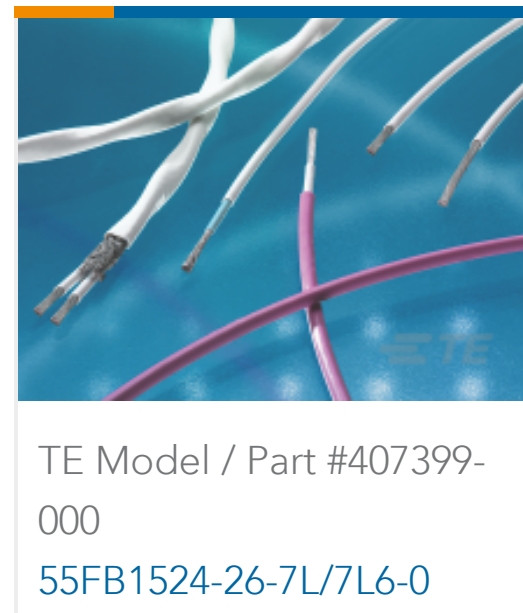
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for

substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

## Compatible Parts



## Customers Also Bought



## Documents

### CAD Files



**3D PDF**

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_9-1617806-4\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_9-1617806-4\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_9-1617806-4\\_A.3d\\_stp.zip](#)

English

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**Datasheets & Catalog Pages**

[High\\_Performance\\_Relays\\_Section5](#)

English