

# R10-E1Y6-V90 ✓ ACTIVE

Potter & Brumfield | Potter & Brumfield R10

TE Internal #: 6-1393766-3

Power Relays, Industrial Panel Plug-In, Monostable, DC, 1600 mW

Coil Power Rating DC, 90 Ω Coil Resistance, Sensitive Version,

Potter & Brumfield R10

[View on TE.com >](#)



Relays, Contactors & Switches > Relays > Power Relays



Power Relay Type: **Industrial Panel Plug-In**

Coil Magnetic System: **Monostable, DC**

Coil Power Rating DC: **1600 mW**

Coil Resistance: **90 Ω**

Coil Special Features: **Sensitive Version**

## Features

### Product Type Features

Power Relay Type	Industrial Panel Plug-In
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### Electrical Characteristics

Insulation Initial Dielectric Between Coil & Contact Class	500 – 1000 V
Insulation Initial Dielectric Between Contacts & Coil	1000 Vrms
Actuating System	DC
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Limiting Making Current	3 A
Contact Limiting Short-Time Current	3 A
Contact Limiting Continuous Current	3 A
Coil Power Rating Class	1500 mW
Insulation Initial Dielectric Between Adjacent Contacts	1000 Vrms
Insulation Initial Resistance	10000 MΩ
Contact Limiting Breaking Current	3 A
Coil Magnetic System	Monostable, DC
Coil Power Rating DC	1600 mW
Coil Resistance	90 Ω
Coil Special Features	Sensitive Version
Coil Voltage Rating	12 VDC

Contact Switching Load (Min)	100mA @ 12V
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Contact Voltage Rating	120 VAC
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### Body Features

Product Weight	40 g[1.41 oz]
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### Contact Features

Contact Arrangement	6 Form C (CO)
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Contact Current Class	2 – 5 A, 16 A
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Contact Current Rating (Max)	3 A
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Contact Material	Ag
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Contact Number of Poles	6
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Relay Terminal Type	Plug-In, Solder
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### Mechanical Attachment

Relay Mounting Type	Socket
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### Dimensions

Length Class (Mechanical)	25 – 30 mm
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Height Class (Mechanical)	30 – 40 mm
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Width Class (Mechanical)	16 – 20 mm
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Product Width	18.7 mm[.736 in]
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Product Length	29.6 mm[1.165 in]
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Product Height	30.2 mm[1.189 in]
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### Usage Conditions

Environmental Ambient Temperature Class	70 – 85 °C
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Environmental Ambient Temperature (Max)	75 °C[167 °F]
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Operating Temperature Range	-55 – 75 °C
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### Packaging Features

Packaging Method	Package
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### Product Compliance

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

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
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EU ELV Directive 2000/53/EC	Compliant with Exemptions
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China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006

Current ECHA Candidate List: JUNE 2023  
(235)

Candidate List Declared Against: JAN 2023  
(233)

SVHC > Threshold:

Pb (3.7% in Component part)

**Article Safe Usage Statements:**

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 Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

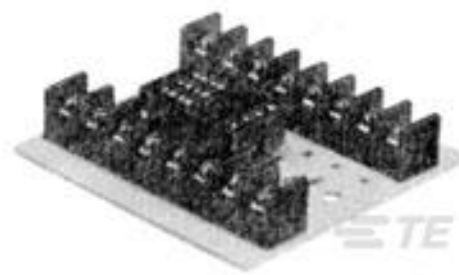
Solder Process Capability

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 # 4-1393143-5  
27E462=SOCKETS



TE Part # 1-1393143-0  
27E127=SOCKET,R10,22,SLG,PHE



TE Part # 1-1393143-3  
27E130=SOCKET,R10,22,PC,PHEN



TE Part # 4-1393143-9  
27E630=SOCKETS

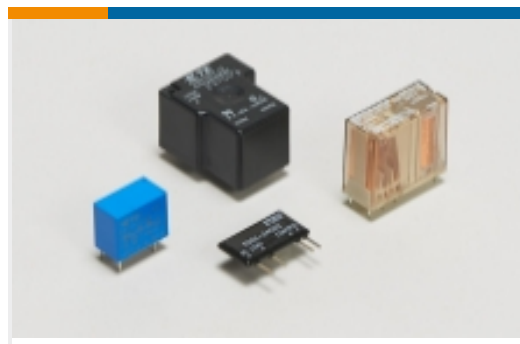


TE Part # 3-1393143-1  
27E271=SOCKET,R10,22,PC,PHEN

Also in the Series | **Potter & Brumfield R10**



PCB Headers & Receptacles(1)

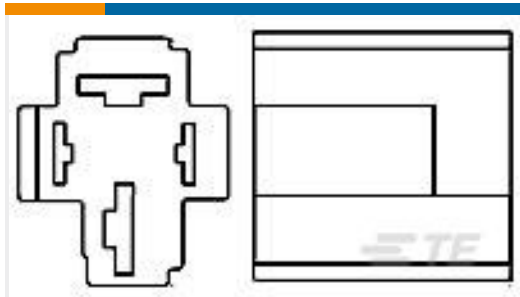


Power Relays(180)



Relay Accessories, Sockets & Clips(30)

## Customers Also Bought



TE Part #1393310-4  
 VCF7-1000=FROM SEC



TE Part #YDIV40E15-18SNC009  
 RECP ASSY



TE Part #YDIV40E23-55SNV001  
 RECP ASSY



TE Part #YDIV46E19-32PNV001  
 PLUG ASSY



TE Part #YDIV44E13-35SNV001  
 RECP ASSY



TE Part #YDIV46E17-26SNV001  
 PLUG ASSY



TE Part #932425N002  
 S02-08-R-6CS816



TE Part #467908N003  
 S02-08-R-9CS816



TE Part #227540N002  
 S02-10-R-4CS816



TE Part #6155350003  
 S02-07-R-6CS816

## Documents

[CAD Files](#)

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_6-1393766-3\\_B.2d\\_dxf.zip](#)

[English](#)

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_6-1393766-3\\_B.3d\\_igs.zip](#)



English

### Customer View Model

[ENG\\_CVM\\_CVM\\_6-1393766-3\\_B.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[R10 General Purpose Dry Circuit to 7.5 Amp Multicontact AC or DC Relay](#)

English

### Product Specifications

[Definitions General Purpose Relays](#)

English

### Agency Approvals

[CSA Certificate](#)

English