

R10-E1M6-V90

✓ ACTIVE

Potter & Brumfield | Potter & Brumfield R10

TE Internal #: 6-1393765-2

Potter & Brumfield R10, Power Relays, Industrial Panel Plug-In,
Monostable, DC, 1500mW Coil Power Rating Class, 1600mW Coil
Power Rating DC

[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 Class: **1500 mW**
Coil Power Rating DC: **1600 mW**
Coil Resistance: **90 Ω**

Features

Product Type Features

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

Electrical Characteristics

Insulation Initial Dielectric Between Coil & Contact Class	500 – 1000 V
Insulation Initial Dielectric Between Contacts & Coil	500 Vrms
Actuating System	DC
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Limiting Making Current	5 A
Contact Limiting Short-Time Current	5 A
Contact Limiting Continuous Current	5 A
Insulation Initial Dielectric Between Adjacent Contacts	1000 Vrms
Insulation Initial Resistance	10000 MΩ
Contact Limiting Breaking Current	5 A
Coil Magnetic System	Monostable, DC
Coil Power Rating Class	1500 mW
Coil Power Rating DC	1600 mW
Coil Resistance	90 Ω
Coil Voltage Rating	12 VDC
Contact Switching Load (Min)	300mA @ 12V



Contact Voltage Rating	120 VAC
------------------------	---------

Body Features

Product Weight	40 g[1.41 oz]
----------------	---------------

Contact Features

Contact Special Features	Bifurcated/Twin Contacts
Contact Arrangement	6 Form C (CO)
Contact Current Class	5 – 10 A, 16 A
Contact Current Rating (Max)	5 A
Contact Material	AgCdO
Contact Number of Poles	6
Terminal Type	Plug-In, Solder

Mechanical Attachment

Relay Mounting Type	Socket
---------------------	--------

Dimensions

Length Class (Mechanical)	30 – 35 mm
Height Class (Mechanical)	30 – 40 mm
Width Class (Mechanical)	16 – 20 mm
Product Width	18.7 mm[.736 in]
Product Length	24.1 mm[.949 in]
Product Height	30.2 mm[1.189 in]

Usage Conditions

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

Packaging Features

Packaging Method	Package
------------------	---------

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	Not Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold



EU REACH Regulation (EC) No. 1907/2006

Current ECHA Candidate List: JAN 2021
(211)
Candidate List Declared Against: DEC 2012
(138)
SVHC > Threshold:
Not Yet Reviewed

Halogen Content

Not Yet Reviewed for halogen content

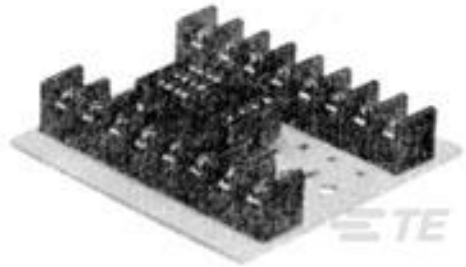
Solder Process Capability

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 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



TE Part # 4-1393143-5
27E462=SOCKETS



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



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



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

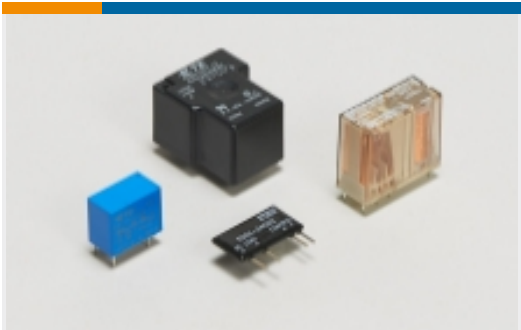


TE Part # 1-1393143-3
27E130=SOCKET,R10,22,PC,PHEN

Also in the Series | [Potter & Brumfield R10](#)



Board-to-Board Headers & Receptacles(1)



Power Relays(180)



Relay Accessories, Sockets & Clips(34)

Customers Also Bought



TE Part #0462-209-16141
DEUTSCH SOLID CONTACTS



TE Part #1393802-4
Signal Relay: Low profile, Monostable DC



TE Part #W6P
DEUTSCH DT WEDGELOCKS



TE Part #114017-ZZ
DEUTSCH SEALING PLUGS



TE Part #1-480698-0
02P UMNL PLUG HSG NATL



TE Part #1-1971921-3
2/3P,RAST 2.5 Tab Header,Ex- Locking, THV



TE Part #2-1415536-5
PT371048

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_6-1393765-2_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_6-1393765-2_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6-1393765-2_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



[Industrial Relays Quick Reference Guide](#)

English

[Industrial Relays Quick Reference Guide](#)

Japanese

[Industrial Relays Quick Reference Guide](#)

Product Specifications

[Definitions, Handling, Processing, Testing and Use of Relays](#)

English