



T90S5D42-12 Product Details

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T90S5D42-12
(1423094-1)

TE Internal Number: 1423094-1

Active

Industrial Relays (General Purpose)

Converted to EU RoHS but not ELV Compliant (Statement of Compliance)

Product Highlights:

- T90 Series
- Contact - Current Class = 20A to 30A Class, Greater Than 16A
- Contact - Rated Current = 30 A
- Terminal Type = PCB-THT
- Contact - Arrangement = 1 Form C (CO)

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Documentation & Additional Information

<p>Product Drawings:</p> <ul style="list-style-type: none"> • None Available <p>Catalog Pages/Data Sheets:</p> <ul style="list-style-type: none"> • T90 30 Amp Printed Circuit Board Relay (PDF, English) <p>Product Specifications:</p> <ul style="list-style-type: none"> • None Available <p>Application Specifications:</p> <ul style="list-style-type: none"> • None Available <p>Instruction Sheets:</p> <ul style="list-style-type: none"> • None Available <p>CAD Files:</p> <ul style="list-style-type: none"> • None Available 	<p>Additional Information:</p> <ul style="list-style-type: none"> • Product Line Information <p>Related Products:</p> <ul style="list-style-type: none"> • Tooling
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Feedback

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

<p>Electrical Characteristics:</p> <ul style="list-style-type: none"> • Contact - Current Class = 20A to 30A Class, Greater Than 16A • Contact - Rated Current (A) = 30 • Contact - Limiting Continuous Current (A) = 30 • Contact - Limiting Making Current (A) = 30 • Contact - Limiting Breaking Current (A) = 30 • Insulation - Initial Dielectric Between Coil/Contact Class = 1000V to 1500VA Class • Insulation - Initial Dielectric Between Open Contacts (V rms) = 1500 • Insulation - Initial Dielectric Between Contacts and Coil (V rms) = 1500 • Contact - Rated Voltage (VAC) = 277 • Contact - Switching Voltage Max. (VAC) = 277 • Contact - Limiting Short-Time Current (A) = 30 • Contact - Switching Recommended Load, Min. = 1000mA at 5V • Coil - Rated Voltage (VDC) = 12 • Coil - Resistance (Ω) = 155 • Coil - Rated Power, DC (mW) = 900 • Coil - Rated Power Class = 800mW to 1000mW Class • Insulation - Initial Insulation Resistance (MΩ) = 1000000 • Insulation - Creepage Class = 3mm to 5.5mm Class • Insulation - Clearance Class = 2.5mm to 4mm Class <p>Dimensions:</p> <ul style="list-style-type: none"> • Mechanical - Length Class = 30mm to 35mm Class • Length (mm [in]) = 32.30 [1.272] • Mechanical - Width Class = 25mm to 30mm Class • Width (mm [in]) = 27.40 [1.079] • Mechanical - Height Class = 20mm to 25mm Class • Height (mm [in]) = 20.40 [0.803] • Insulation - Clearance Between Contact and Coil (mm [in]) = 3.17 	<p>Body Features:</p> <ul style="list-style-type: none"> • Mount Type = PCB • Weight (g [oz]) = 26.00 [0.918] <p>Contact Features:</p> <ul style="list-style-type: none"> • Terminal Type = PCB-THT • Contact Material = AgCdO • Contact - Number of Poles = 1 <p>Configuration Features:</p> <ul style="list-style-type: none"> • Contact - Arrangement = 1 Form C (CO) • Coil - Magnetic System = Monostable, DC • Coil - Special Features = UL Coil Insulation Class F <p>Industry Standards:</p> <ul style="list-style-type: none"> • RoHS/ELV Compliance = RoHS/Not ELV Compliant • Lead Free Solder Processes = Not relevant for lead free process • RoHS/ELV Compliance History = Converted to comply with RoHS not ELV directives • Approved/Registered Standards = CSA, UL <p>Environmental:</p> <ul style="list-style-type: none"> • Environmental - Category of Protection = RTIII • Environmental - Ambient Temperature, Max. (°C [°F]) = 85 [185] • Environmental - Ambient Temperature Class = 70°C to 85°C Class <p>Packaging Features:</p> <ul style="list-style-type: none"> • Packaging Method = Tray <p>Other:</p> <ul style="list-style-type: none"> • Series = T90 • Brand = Potter & Brumfield
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[0.1248]

- Insulation - Creepage Between Contact and Coil (mm [in]) = 3.17 [0.1248]

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