

PRODUCT-DETAILS

E16DU-0.32

E16DU-0.32 Electronic Overload Relay 0.10 ... 0.32 A



General Information

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|-----------------------|--|
| Extended Product Type | E16DU-0.32 |
| Product ID | 1SAX111001R1101 |
| EAN | 4013614395222 |
| Catalog Description | E16DU-0.32 Electronic Overload Relay 0.10 ... 0.32 A |

Long Description

The E16DU-0.32 is an self-supplied electronic overload relay, which means no extra external supply is needed. It offers reliable and fast protection for motors in the event of overload or phase failure. Easy to use like a thermal overload relay and compatible with standard motor applications, the electronic overload relay is convincing, above all, due to its wide setting range, high accuracy, high operational temperature range and the possibility to select a trip class (10E, 20E, 30E). Further features are the temperature compensation, trip contact (NC), signal contact (NO), automatic- or manual reset selectable, trip-free mechanism, STOP- and Test function and a trip indication. The overload relays are connected directly to the contactors. Single mounting kits are available as accessory.

Ordering

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|------------------------|----------|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Instructions and Manuals | 2CDC107019M5502 |
| Instructions and Manuals (Part 2) | 1SAC200017M0002 |

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|-----------------------------------|------------------------------------|
| Time-Current Characteristic Curve | 1SAX100502F0002 1SAX100508F0001 |
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Dimension Diagram | 1SAX100402F0001 1SAX100401F0001 |

Dimensions

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|----------------------------|---------|
| Product Net Width | 44.4 mm |
| Product Net Height | 74.6 mm |
| Product Net Depth / Length | 57 mm |
| Product Net Weight | 0.15 kg |

Technical

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| Setting Range | 0.10 ... 0.32 A |
| Rated Operational Voltage | Auxiliary Circuit 600 V AC/DC Main Circuit 690 V AC |
| Rated Operational Current (I_e) | 0.32 A |
| Rated Frequency (f) | Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz |
| Rated Impulse Withstand Voltage (U_{imp}) | Auxiliary Circuit 6 kV Main Circuit 6 kV |
| Rated Insulation Voltage (U_i) | 690 V |
| Number of Poles | 3 |
| Number of Auxiliary Contacts NC | 1 |
| Number of Auxiliary Contacts NO | 1 |
| Number of Protected Poles | 3 |
| Conventional Free-air Thermal Current (I_{th}) | Auxiliary Circuit NC 6 A Auxiliary Circuit NO 6 A |
| Rated Operational Current AC-15 (I_e) | (240 V) NC 3 A (240 V) NO 3 A (400 V) NC 1.1 A (400 V) NO 1.1 A (500 V) NC 0.72 A (500 V) NO 0.72 A |
| Rated Operational Current DC-13 (I_e) | (125 V) NC 0.55 A (125 V) NO 0.5 A (24 V) NC 1.5 A (24 V) NO 1.5 A (250 V) NC 0.27 A (250 V) NO 0.27 A (60 V) NC 0.55 A (60 V) NO 0.55 A |
| Degree of Protection | IP20 |
| Pollution Degree | 3 |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Connecting Capacity Main Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Tightening Torque | Auxiliary Circuit 0.8 ... 1.2 N·m Main Circuit 0.8 ... 1.5 N·m |

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|--------------------------|---|
| Wire Stripping Length | Auxiliary Circuit 9 mm Main Circuit 9 mm |
| Recommended Screw Driver | Auxiliary Circuit Pozidriv 2 Main Circuit Pozidriv 2 |
| Mounting Position | 1 ... 6 |
| Power Loss | at Rated Operating Conditions per Pole 0.004 ... 0.046 W |
| Suitable For | B6 B7 BC6 BC7 A09 A12 A16 AL09 AL12 AL16 VB6 VB7 VBC6 VBC7 |
| Standards | IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 |

Technical UL/CSA

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|--|--|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V AC |
| Contact Rating UL/CSA | B600 Q300 |
| Connecting Capacity Main Circuit UL/CSA | Flexible 1/2x 16-10 AWG Stranded 1/2x 16-10 AWG |
| Connecting Capacity Auxiliary Circuit UL/CSA | Flexible 1/2x 16-10 AWG Stranded 1/2x 16-10 AWG |
| Tightening Torque UL/CSA | Auxiliary Circuit 7 in-lb Main Circuit 7 in-lb |

Environmental

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| Ambient Air Temperature | Operation -25 ... +70 °C Operation Compensated -25 ... +70 °C Storage -50 ... +85 °C |
| Ambient Air Temperature Compensation | Yes |
| Maximum Operating Altitude Permissible | 2000 m |
| Resistance to Shock acc. to IEC 60068-2-27 | 11 ms Pulse 15g |
| Resistance to Vibrations | 5g 3 ... 150 Hz |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

Material Compliance

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|---|--|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | No declaration needed |
| RoHS Information | 2CMT2021-006277 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| WEEE B2C / B2B | Business To Business |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

Certificates and Declarations

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|-------------------------------------|---------------------|
| CB Certificate | 1SAA964002-2002 |
| CQC Certificate | CQC2008010309289447 |
| Declaration of Conformity - CCC | 2020980309000285 |
| Declaration of Conformity - CE | 1SAD101100-3602 |
| Declaration of Conformity - UKCA | 1SAD201100-3602 |
| EAC Certificate | 1SAA941003-2701 |
| RMRS Certificate | 1SAA964000-0703 |
| UL Certificate | E48139-19990512 |

Container Information

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|-----------------------------------|---------------|
| Package Level 1 Units | 1 piece |
| Package Level 1 Width | 65 mm |
| Package Level 1 Height | 46 mm |
| Package Level 1 Depth / Length | 76.5 mm |
| Package Level 1 Gross Weight | 0.17 kg |
| Package Level 1 EAN | 4013614395222 |
| Package Level 2 Units | 100 piece |
| Package Level 2 Width | 340 mm |
| Package Level 2 Height | 314 mm |
| Package Level 2 Depth / Length | 245 mm |
| Package Level 2 Gross Weight | 17.563 kg |
| Package Level 2 EAN | 4013614483219 |

Classifications

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|---------------------------------------|--------------------------------------|
| Object Classification Code | F |
| ETIM 4 | EC001080 - Electronic overload relay |
| ETIM 5 | EC001080 - Electronic overload relay |
| ETIM 6 | EC001080 - Electronic overload relay |
| ETIM 7 | EC001080 - Electronic overload relay |
| ETIM 8 | EC001080 - Electronic overload relay |
| eClass | V11.0 : 27371502 |
| UNSPSC | 39122330 |
| IDEA Granular Category Code (IGCC) | 5365 >> Electronic overload relay |
| E-Number (Finland) | 3709390 |
| E-Number (Sweden) | 3228760 |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|-----------------------------|----------|----------|--------------------|
| 1SAX101110R0001 | DB16E Single Mounting Kit | DB16E | 1 | piece |
| 1SFA616162R1014 | KPR3-101L Reset push button | KPR-101L | 1 | piece |

| Where Used (as part of "kit") | | |
|-------------------------------|-------------|------|
| Identifier | Description | Type |
| 3BHB026772R0011 | | Kit |

| Categories |
|---|
| Low Voltage Products and Systems → Control Products → Contactors → Electronic Overload Relays |

