E80DU-80



General Information

Extended Product Type: E80DU-80

Product ID: 1SAX311001R1101 **EAN**: 4016779666626

Catalog Description: E80DU-80 Electronic Overload Relay

Long Description: The E80DU-80 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.

Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Electronic Overload Relays

Ordering

EAN: 4016779666626

Minimum Order Quantity: 1 piece
Customs Tariff Number: 85364900

Dimensions

Product Net Width: 70.0 mm
Product Net Height: 127.2 mm
Product Net Depth: 104.4 mm
Product Net Weight: 0.775 kg

Container Information

Package Level 1 Units: 1 piece Package Level 1 Width: 139.0 mm Package Level 1 Height: 79.5 mm Package Level 1 Length: 107.0 mm Package Level 1 Gross Weight: 0.847 kg Package Level 2 Units: 20 piece Package Level 2 Width: 413.0 mm Package Level 2 Height: 227 mm Package Level 2 Length: 290.0 mm Package Level 2 Gross Weight: 17.503 kg Package Level 2 EAN: 4013614483356

Technical

Setting Range: 27.0 ... 80.0 A

Rated Operational Voltage: Auxiliary Circuit 600 V AC DC V

Main Circuit 1000 V AC

Rated Operational Current (I_e): 80 A

Rated Operational Current AC-3 (I_a): 80 A

Rated Frequency (f): Auxiliary Circuit 50 Hz

Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Auxiliary Circuit 6 kV

Rated Impulse Withstand Voltage

(U_{imp}):

Auxiliary Circuit 6 kV Main Circuit 8 kV

Rated Insulation Voltage (U_i): 1000 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_a): (240V) NC 3 A

(240V) NO 3 A (400V) NC 1.1 A (400V) NO 1.1 A (500V) NC 0.72 A (500V) NO 0.72 A

Rated Operational Current DC-13 (I25V) NC 0.55 A

(125V) NO 0.5 A (24V) NC 1.5 A (24V) NO 1.5 A (250V) NC 0.27 A (250V) NO 0.27 A (60V) NC 0.55 A (60V) NO 0.55 A

Degree of Protection: IP20
Pollution Degree: 3

Connecting Capacity-Auxiliary

Circuit:

Flexible with Ferrule 1/2x 0.75 ... 2.5 mm²

Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm²

Flexible 1/2x 0.75 ... 2.5 mm²

Rigid 1/2x 1 ... 4 mm²

Connecting Capacity-Main Circuit: Flexible 1x 6 ... 70 mm²

Flexible 2x 6 ... 35 mm² Rigid 1x 6 ... 95 mm² Rigid 2x 6 ... 35 mm²

Tightening Torque: Auxiliary Circuit 0.8 ... 1.2 N·m

Main Circuit 6 ... 6.5 N⋅m

Wire Stripping Length: Auxiliary Circuit 9 mm

Recommended Screw Driver: Auxiliary Circuit Pozidriv 2

Main Circuit Hexagon 4

Mounting Position: Position 1 to 6

Suitable For: A50 A63

A63 A75 AE50 AE63 AE75 TAE50 TAE63 TAE75

Standards: IEC/EN 60947-1

IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

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Environmental

Ambient Air Temperature: Operation -25 ... +70 °C

Operation Compensated -25 ... +70 °C

Storage -25 ... +70 °C

Ambient Air Temperature

Compensation:

Υe

Maximum Operating Altitude

Permissible:

2000 m

RoHS Status:

Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA: Main Circuit 600 V AC

Ampere Rating UL/CSA: 80 A

Connecting Capacity-Main Circuit Flexible 1/2x 10 ... 0 AWG Stranded 1/2x 10 ... 0 AWG Connecting Capacity-Auxiliary Circuit Flexible 1/2x 16 ... 10 AWG UL/CSA: Stranded 1/2x 16 ... 10 AWG

Tightening Torque UL/CSA: Auxiliary Circuit 7 in·lb Main Circuit 53 in·lb

Certificates and Declarations (Document Number)

 CB Certificate:
 1SAA964003-2001

 CCC Certificate:
 1SAA964001-3802

 cUL Certificate:
 cUL_E48139

 Declaration of Conformity - CE:
 1SAD938508-0053

 RMRS Certificate:
 1SAA964000-0702

 ROHS Information:
 1SAA964002-4401

 UL Certificate:
 UL_E48139

Classifications

Object Classification Code: F

eClass: 7.0 27371502 **E-nummer:** 3228767

ETIM 4.0: EC001080 - Electronic overload relay ETIM 5.0: EC001080 - Electronic overload relay

UNSPSC: 39121500

