

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 a 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:	227.0 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 (U_e):	Main Circuit 1000 V AC Auxiliary Circuit 600 V AC/DC
Rated Operational Current (I_e):	80.0 A
Rated Operational Current AC-3 (I_e):	80.0 A
Rated Frequency (f):	Main Circuit 50 Hz Main Circuit 60 Hz Auxiliary Circuit DC Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 8 kV Auxiliary Circuit 6 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_e):	(240V) NC 3 A (400V) NC 1.1 A (500V) NC 0.72 A (240V) NO 3 A (400V) NO 1.1 A

	(500V) NO 0.72 A
Rated Operational Current DC-13 (I_e):	(24V) NC 1.5 A (60V) NC 0.55 A (125V) NC 0.55 A (250V) NC 0.27 A (24V) NO 1.5 A (60V) NO 0.55 A (125V) NO 0.5 A (250V) NO 0.27 A
Degree of Protection:	IP20
Pollution Degree:	3
Connecting Capacity-Auxiliary Circuit:	Rigid 1/2x 1 ... 4 mm ² 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
Connecting Capacity-Main Circuit:	Rigid 1x 6 ... 95 mm ² Rigid 2x 6 ... 35 mm ² Flexible 1x 6 ... 70 mm ² Flexible 2x 6 ... 35 mm ²
Tightening Torques:	Main Circuit 6 ... 6.5 N·m Auxiliary Circuit 0.8 ... 1.2 N·m
Wire Stripping Length:	Auxiliary Circuit 9 mm
Recommended Screw Driver:	Main Circuit: Hexagon 4 Auxiliary Circuit: Pozidriv 2
Mounting Position:	Position 1 to 6
Suitable For:	A50 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

Environmental

Ambient Air Temperature:	Operation -25 ... +70 °C Operation Compensated -25 ... +70 °C Storage -25 ... +70 °C
Ambient Air Temperature Compensation:	Yes
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:	80.0 A
Connecting Capacity-Main Circuit UL/CSA:	Stranded 1/2x 10 ... 0 AWG Flexible 1/2x 10 ... 0 AWG
Connecting Capacity-Auxiliary Circuit UL/CSA:	Stranded 1/2x 16 ... 10 AWG Flexible 1/2x 16 ... 10 AWG
Tightening Torques UL/CSA:	Main Circuit 53 in·lb Auxiliary Circuit 7 in·lb

Certificates and Declarations (Document Number)

CB Certificate:	1SAA964003-2001
CCC Certificate:	1SAA964001-3802
cUL Certificate:	cUL_E48139
Declaration of Conformity - CE:	1SAD938507-0053
RMRS Certificate:	1SAA964000-0702
UL Certificate:	UL_E48139

Classifications

Object Classification Code:	F
E-nummer:	3228767
ETIM 4.0:	EC001080 - Electronic overload relay
ETIM 5.0:	EC001080 - Electronic overload relay
UNSPSC:	39121500

