

**PRODUCT-DETAILS** 

# E45DU-45

# E45DU-45 Electronic Overload Relay



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Extended Product Type	E45DU-45
Product ID	1SAX211001R1102
EAN	4016779666619
Catalog Description	E45DU-45 Electronic Overload Relay

Long Description

The E45DU-45 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

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

#### **Dimensions**

Product Net Width	45 mm
Product Net Height	97 mm
Product Net Depth /	85.1 mm
Length	

Tightening Torque

Product Net Weight 0.35 kg

Popular Downloads	
Data Sheet, Technical	1SBC100173C0201
Information  Data Sheet, Technical	1SAX100502F0002
Information (Part 2)	1SAX1005021 0002
Instructions and Manuals	2CDC107013M5502
Dimension Diagram	1SAX200401F0001
Technical	
Setting Range	15 45 A
Rated Operational Voltage	Auxiliary Circuit 600 V AC/DC Main Circuit 690 V AC
Rated Operational Current (I <sub>e</sub> )	45 A
Rated Operational Current AC-3 (I <sub>e</sub> )	45 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 <sub>imp</sub> )	Auxiliary Circuit 6 kV Main Circuit 6 kV
Rated Insulation Voltage (U <sub>i</sub> )	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 <sub>th</sub> )	Auxiliary Circuit NC 6 A Auxiliary Circuit NO 6 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(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 <sub>e</sub> )	(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 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 with Ferrule 1/2x 2.5 10 mm² Flexible with Insulated Ferrule 1/2x 2.5 10 mm² Flexible 1/2x 2.5 10 mm² Rigid 1/2x 2.5 16 mm²
Tightoning Torque	Appliant Circuit 0.9 1.2 N m

Auxiliary Circuit 0.8 ... 1.2 N·m

	Main Circuit 2.3 2.6 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 13 mm
Recommended Screw Driver	Auxiliary Circuit Pozidriv 2 Main Circuit Pozidriv 2
Mounting Position	Position 1 to 6
Suitable For	A26 A30 A40 AL26 AL30 AL40 TAL26 TAL30 TAL40
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	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Ampere Rating UL/CSA	45 A
Connecting Capacity	Flexible 1/2x 14-6 AWG
Main Circuit UL/CSA	Stranded 1/2x 14-6 AWG
Connecting Capacity	Flexible 1/2x 16-10 AWG
Auxiliary Circuit UL/CSA	Stranded 1/2x 16-10 AWG
Tightening Torque	Auxiliary Circuit 7 in lb
UL/CSA	Main Circuit 22 in lb

Operation -25 +70 °C
Operation Compensated -25 +70 °C Storage -25 +70 °C
Yes
2000 m
Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)	
CB Certificate	1SAA964003-2002
CCC Certificate	1SAA942002-3801
cUL Certificate	cUL_E48139
Declaration of Conformity - CE	1SAD938513-0053
Instructions and Manuals	2CDC107013M5502
RMRS Certificate	1SAA964000-0703
RoHS Information	1SAD938510-0187
UL Certificate	UL_E48139

Container Information	
Package Level 1 Units	1 piece

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Package Level 1 Width	101 mm
Package Level 1 Height	49.5 mm
Package Level 1 Depth / Length	89 mm
Package Level 1 Gross Weight	0.386 kg
Package Level 1 EAN	4016779666619
Package Level 2 Units	50 piece
Package Level 2 Width	525 mm
Package Level 2 Height	189 mm
Package Level 2 Depth / Length	263 mm
Package Level 2 Gross Weight	19.863 kg
Package Level 2 EAN	4013614483325

Classifications	
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
eClass	7.0 27371502
UNSPSC	39121521

## Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Contactors \rightarrow Electronic\ Overload\ Relays$ 

