

E16DU-6.3

ABB contact for United
States of America



General Information

Extended Product Type:	E16DU-6.3
Product ID:	1SAX111001R1104
EAN:	4013614395253
Catalog Description:	E16DU-6.3 Electronic Overload Relay
Long Description:	The E16DU-6.3 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:	4013614395253
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	44.4 mm
Product Net Height:	74.6 mm
Product Net Depth:	57.0 mm
Product Net Weight:	0.150 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	65.0 mm
Package Level 1 Height:	46.0 mm
Package Level 1 Length:	76.5 mm
Package Level 1 Gross Weight:	0.170 kg
Package Level 2 Units:	100 piece
Package Level 2 Width:	340.0 mm
Package Level 2 Height:	314 mm
Package Level 2 Length:	245.0 mm
Package Level 2 Gross Weight:	17.563 kg
Package Level 2 EAN:	4013614483240

Technical

Setting Range:	2.00 ... 6.30 A
Rated Operational Voltage:	Auxiliary Circuit 600 V AC DC V Main Circuit 690 V AC
Rated Operational Current (I_o):	6.3 A

Rated Operational Current AC-3 (I_e):	6.3 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):	(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 (I_e):	(125V) 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 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
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 9 mm
Recommended Screw Driver:	Auxiliary Circuit Pozidriv 2 Main Circuit Pozidriv 2
Mounting Position:	Position 1 to 6
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
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Environmental

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 acc. to IEC 60068-2-6:	5g / 3 ... 150 Hz
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:	6.3 A
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

Certificates and Declarations (Document Number)

CB Certificate:	1SAA964002-2002
CCC Certificate:	1SAA942001-3801
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:	3228763
ETIM 4.0:	EC001080 - Electronic overload relay
ETIM 5.0:	EC001080 - Electronic overload relay
UNSPSC:	39121500



