

# E16DU-18.9

ABB contact for Canada [Print to Pdf..](#)

## General Information

Extended Product Type:	E16DU-18.9
Product ID:	1SAX111001R1105
EAN:	4013614395260
Catalog Description:	E16DU-18.9 Electronic Overload Relay
Long Description:	<p>The E16DU-18.9 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.</p>



## Categories

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

## Ordering

EAN:	4013614395260
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

<b>Package Level 2 Height:</b>	314.0 mm
<b>Package Level 2 Length:</b>	245.0 mm
<b>Package Level 2 Gross Weight:</b>	17.563 kg
<b>Package Level 2 EAN:</b>	4013614483257

## Technical

<b>Setting Range:</b>	5.70 ... 18.9 A
<b>Rated Operational Voltage:</b>	Auxiliary Circuit 600 V AC DC Main Circuit 690 V AC
<b>Rated Operational Current (<math>I_e</math>):</b>	18.9 A
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	18.90 A
<b>Rated Frequency (f):</b>	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	Auxiliary Circuit 6 kV Main Circuit 6 kV
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	690 V
<b>Number of Poles:</b>	3
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Protected Poles:</b>	3
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	Auxiliary Circuit NC 6.00 A Auxiliary Circuit NO 6.00 A
<b>Rated Operational Current AC-15 (<math>I_e</math>):</b>	(240V) NC 3.000 A (240V) NO 3.000 A (400V) NC 1.100 A (400V) NO 1.100 A (500V) NC 0.720 A (500V) NO 0.720 A
<b>Rated Operational Current DC-13 (<math>I_e</math>):</b>	(125V) NC 0.550 A (125V) NO 0.500 A (24V) NC 1.500 A (24V) NO 1.500 A (250V) NC 0.270 A (250V) NO 0.270 A (60V) NC 0.550 A (60V) NO 0.550 A
<b>Degree of Protection:</b>	IP20
<b>Pollution Degree:</b>	3
<b>Connecting Capacity-Auxiliary Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
<b>Connecting Capacity-Main Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
<b>Tightening Torque:</b>	Auxiliary Circuit 0.8 ... 1.2 N·m Main Circuit 0.8 ... 1.5 N·m
<b>Wire Stripping Length:</b>	Auxiliary Circuit 9 mm Main Circuit 9 mm
<b>Recommended Screw Driver:</b>	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

**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:**

18.90 A

**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**

<b>Object Classification Code:</b>	F
<b>E-nummer:</b>	3228764
<b>ETIM 4.0:</b>	EC001080 - Electronic overload relay
<b>ETIM 5.0:</b>	EC001080 - Electronic overload relay
<b>UNSPSC:</b>	39121500

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