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#### PRODUCT-DETAILS

## E16DU-1.0

# E16DU-1.0 Electronic Overload Relay 0.30 ... 1.0



General Information	
Extended Product Type	E16DU-1.0
Product ID	1SAX111001R1102
EAN	4013614395239
Catalog Description	E16DU-1.0 Electronic Overload Relay 0.30 1.0 A
Long Description	The E16DU-1.0 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.

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Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

### Popular Downloads

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Instructions and Manuals	2CDC107019M5502
Instructions and Manuals	1SAC200017M0002
(Part 2) Time-Current	1SAX100502F0002
Characteristic Curve	1SAX100508F0001
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SAX100402F0001
	1SAX100401F0001
Dimensions	
Product Net Width	44.4 mm 74.6 mm
Product Net Height Product Net Depth /	74.6 mm
Length	
Product Net Weight	0.15 kg
Technical	
Setting Range	0.30 1.0 A
Rated Operational Voltage	Auxiliary Circuit 600 V AC/DC
Rated Operational Current $(I_e)$	Main Circuit 690 V AC 1 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	3
Poles	
Conventional Free-air Thermal Current (I <sub>th</sub> )	Auxiliary Circuit NC 6 A Auxiliary Circuit NO 6 A
Rated Operational Current	(240 V) NC 3 A
AC-15 (I <sub>e</sub> )	(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	(125 V) NC 0.55 A
DC-13 (I <sub>e</sub> )	(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
Degree of Protection	(60 V) NO 0.55 A
Degree of Protection Pollution Degree	IP20 3
Connecting Capacity	ح Flexible with Ferrule 1/2x 0.75 2.5 mm²
Auxiliary Circuit	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>
Connecting Capacity Main	Flexible with Ferrule 1/2x 0.75 2.5 mm <sup>2</sup>
Circuit	Flexible with Insulated Ferrule 1/2x $0.75 \dots 2.5 \text{ mm}^2$ Flexible 1/2x $0.75 \dots 2.5 \text{ mm}^2$
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	Rigid 1/2x 1 4 mm²
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	1 6
Power Loss	at Rated Operating Conditions per Pole 0.005 0.054 W
Suitable For	B6 B7 BC6 BC7 A09 A12 A16 AL09 AL15 VB6 VB7
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
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

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	5g 3 150 Hz
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Toxic Substances Control Act - TSCA 2CMT2023-006525

Business To Business

WEEE B2C / B2B WEEE Category

EE Category 5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations	
CB Certificate	1SAA964002-2002
CQC Certificate	CQC2008010309289447
Declaration of Conformity - CCC	2020980309000285
Declaration of Conformity - CE	1SAD101100-3602
Declaration of Conformity - UKCA	1SAD201100-3602
EAC Certificate	1SAA941003-2701
RMRS Certificate	1SAA964000-0703
UL Certificate	E48139-19990512

Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	65 mm
Package Level 1 Height	46 mm
Package Level 1 Depth / Length	76.5 mm
Package Level 1 Gross Weight	0.17 kg
Package Level 1 EAN	4013614395239
Package Level 2 Units	100 piece
Package Level 2 Width	340 mm
Package Level 2 Height	314 mm
Package Level 2 Depth / Length	245 mm
Package Level 2 Gross Weight	17.563 kg
Package Level 2 EAN	4013614483226

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
ETIM 8	EC001080 - Electronic overload relay
eClass	V11.0 : 27371502
UNSPSC	39122330
IDEA Granular Category Code (IGCC)	5365 >> Electronic overload relay
E-Number (Finland)	3709391
E-Number (Sweden)	3228761

Accessories				
Identifier	Description	Туре	Quantity	Unit Of Measure
1SAX101110R0001	DB16E Single Mounting Kit	DB16E	1	piece
1SFA616162R1014	KPR3-101L Reset push button	KPR-101L	1	piece

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### Categories

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

