

PRODUCT-DETAILS

E140DU-140

E140DU-140 Electronic Overload Relay



General Information

Extended Product Type	E140DU-140
Product ID	1SAX321001R1101
EAN	4016779666633
Catalog Description	E140DU-140 Electronic Overload Relay
Long Description	The E140DU-140 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.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	1SBC100173C0201
Data Sheet, Technical Information (Part 2)	1SAX100502F0002 1SAX100508F0001

Instructions and
Manuals

2CDC107015M5502

Dimension Diagram

1SAX300402F0001

Dimensions

Product Net Width	70 mm
Product Net Height	134.2 mm
Product Net Depth / Length	104.4 mm
Product Net Weight	0.992 kg

Technical

Setting Range	50 ... 140 A
Rated Operational Voltage	Auxiliary Circuit 600 V AC/DC Main Circuit 1000 V AC
Rated Operational Current (I_e)	140 A
Rated Operational Current AC-3 (I_e)	140 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 8 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 5 A Auxiliary Circuit NO 5 A
Rated Operational Current AC-15 (I_e)	(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_e)	(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 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 1x 6 ... 70 mm ² Flexible 2x 6 ... 35 mm ² Rigid 1x 6 ... 95 mm ² Rigid 2x 6 ... 35 mm ²

Tightening Torque	Auxiliary Circuit 0.8 ... 1.2 N-m Main Circuit 6 ... 6.5 N-m
Wire Stripping Length	Auxiliary Circuit 9 mm
Recommended Screw Driver	Auxiliary Circuit Pozidriv 2 Main Circuit Hexagon 4
Mounting Position	1 ... 6
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	140 A
Contact Rating UL/CSA	(NC:) B600 (NC:) Q300 (NO:) B600 (NO:) Q300
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 8-0 AWG Stranded 1/2x 8-0 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 53 in-lb

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 2011/65/EU

Certificates and Declarations (Document Number)

CB Certificate	1SAA964003-2001
CCC Certificate	1SAA964001-3802
CQC Certificate	CQC2006010309192159
cUL Certificate	cUL_E48139
Declaration of Conformity - CCC	2020980309000294
Declaration of Conformity - CE	1SAD938513-0053
Declaration of Conformity - UKCA	1SAD938502-1053
Instructions and Manuals	2CDC107015M5502
RMRS Certificate	1SAA964000-0703
RoHS Information	1SAD938510-0187
UL Certificate	UL_E48139

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	139 mm
Package Level 1 Height	79.5 mm
Package Level 1 Depth / Length	107 mm
Package Level 1 Gross Weight	1.064 kg
Package Level 1 EAN	4016779666633
Package Level 2 Units	20 piece
Package Level 2 Width	413 mm
Package Level 2 Height	227 mm
Package Level 2 Depth / Length	290 mm
Package Level 2 Gross Weight	21.843 kg
Package Level 2 EAN	4013614483363

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	V11.0 : 27371502
UNSPSC	39121520
IDEA Granular Category Code (IGCC)	5364 >> Overload relay

Categories

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

