

PRODUCT-DETAILS

E320DU-320

E320DU-320 Electronic Overload Relay

"No longer for sale" replaced by



General Information

Extended Product Type	E320DU-320
Product ID	1SAX521001R1101
EAN	4013614395420
Catalog Description	E320DU-320 Electronic Overload Relay
Long Description	The E320DU-320 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.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SAX611001R1101

Popular Downloads

Data Sheet, Technical Information	1SBC100173C0201
Data Sheet, Technical	1SAX100502F0002

Information (Part 2)	1SAX100508F0001
Instructions and Manuals	2CDC107021M5502
Dimension Diagram	1SAX521001F1101

Dimensions

Product Net Width	105 mm
Product Net Height	187.6 mm
Product Net Depth / Length	121.5 mm
Product Net Weight	1.43 kg

Technical

Setting Range	100 ... 320 A
Rated Operational Voltage	Auxiliary Circuit 600 V AC/DC Main Circuit 1000 V AC
Rated Operational Current (I_e)	320 A
Rated Operational Current AC-3 (I_e)	320 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 6 A Auxiliary Circuit NO 6 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 0.7 A (500 V) NO 0.7 A
Rated Operational Current DC-13 (I_e)	(125 V) NC 0.55 A (125 V) NO 0.4 A (24 V) NC 1.5 A (24 V) NO 1.5 A (250 V) NC 0.27 A (250 V) NO 0.2 A (60 V) NC 0.55 A (60 V) NO 0.5 A
Degree of Protection	Housing IP20 Main Circuit Terminals IP00
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
Tightening Torque	Auxiliary Circuit 0.8 ... 1.2 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm

Recommended Screw Driver	Auxiliary Circuit Pozidriv 2
Mounting Position	1 ... 6
Suitable For	A210 A260 A300 AF210 AF260 AF300
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	320 A
Connecting Capacity	Flexible 1/2x 16-10 AWG
Auxiliary Circuit UL/CSA	Stranded 1/2x 16-10 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 7 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 2002/95/EC August 18, 2005 and amendment

Certificates and Declarations (Document Number)

ABS Certificate	1SAA964000-0101
CB Certificate	1SAA964005-2001
cUL Certificate	cUL_E48139
Declaration of Conformity - CE	1SAD938508-0053
Instructions and Manuals	2CDC107021M5502
RMRS Certificate	1SAA964000-0703
RoHS Information	1SAA964001-4401
UL Certificate	UL_E48139

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	217 mm
Package Level 1 Height	150 mm
Package Level 1 Depth / Length	205 mm
Package Level 1 Gross Weight	1.735 kg
Package Level 1 EAN	4013614395420

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

