

PRODUCT-DETAILS

# E16DU-18.9

## E16DU-18.9 Electronic Overload Relay 5.7 ... 18.9 A



### Informations générales

Extension du type de produit	E16DU-18.9
Code de produit	1SAX111001R1105
EAN	4013614395260
Description courte	E16DU-18.9 Electronic Overload Relay 5.7 ... 18.9 A

**Description longue**

The E16DU-18.9 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.

### Commande

Quantité minimum	1 pièce
Code douanier	85364900

### Popular Downloads

Instructions et manuels	2CDC107019M5502
Instructions et manuels (Partie 2)	1SAC200017M0002
Time-Current Characteristic Curve	1SAX100502F0002 1SAX100508F0001
CAD Dimensional Drawing	2CDC001079B0201
Schéma dimensionnel	1SAX100402F0001 1SAX100401F0001

## Dimensions

Produit Largeur Net	44.4 mm
Produit Hauteur Net	74.6 mm
Produit Longueur Net	57 mm
Poids net	0.15 kg

## Technique

Setting Range	5.7 ... 18.9 A
Tension	Circuit auxiliaire 600 V AC/DC Circuit principal 690 V AC
Courant nominal de fonctionnement ( $I_e$ )	18.9 A
Fréquence assignée (f)	Circuit auxiliaire 50 Hz Circuit auxiliaire 60 Hz Circuit auxiliaire DC Circuit principal 50 Hz Circuit principal 60 Hz
Tension assignée de tenue aux chocs ( $U_{imp}$ )	Circuit auxiliaire 6 kV Circuit principal 6 kV
Tension assignée d' isolement ( $U_i$ )	690 V
Nombre de pôles	3
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number of Protected Poles	3
Courant thermique conventionnel à l'air libre ( $I_{th}$ )	Auxiliary Circuit NC 6 A Auxiliary Circuit NO 6 A
Courant assignée d' emploi 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
Courant assignée d' emploi 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
Indice de protection	IP20
Degré de pollution	3
Connecting Capacity Auxiliary Circuit	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>
Connecting Capacity Main Circuit	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>
Couple de serrage	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	Circuit auxiliaire Pozidriv 2 Circuit principal Pozidriv 2
Type d'encastrement	1 ... 6
Power Loss	at Rated Operating Conditions per Pole 0.028 ... 0.304 W
Adapté pour	B6 B7 BC6 BC7 A09 A12 A16 AL09 AL12 AL16 VB6 VB7 VBC6 VBC7
Normes et standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

## Technique UL/CSA

Maximum Operating Voltage UL/CSA	Circuit principal 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

## Environnement

Température de l'air ambiant	Operation -25 ... +70 °C Operation Compensated -25 ... +70 °C
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	Storage -50 ... +85 °C
Ambient Air Temperature Compensation	Oui
Altitude de fonctionnement maximale autorisée	2000 m
Résistance aux chocs selon CEI 60068-2-27	11 ms Pulse 15g
Resistance to Vibrations acc. to IEC 60068-2-6	5g / 3 ... 150 Hz
Statut RoHS	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Certificats et Déclarations (Numéro de document)

CB Certificate	1SAA964002-2002
CQC Certificate	CQC2008010309289447
Declaration of Conformity - CCC	2020980309000285
Déclaration de Conformité - CE	1SAD101100-3602
Declaration of Conformity - UKCA	1SAD201100-3602
EAC Certificate	1SAA941003-2701
Certificat RMRS	1SAA964000-0703
Certificat UL	E48139-19990512

## Emballage

Emballage Niveau 1 Unités	1 pièce
Emballage Niveau 1 Largeur	65 mm
Emballage Niveau 1 Hauteur	46 mm
Emballage Niveau 1 Longueur	76.5 mm
Emballage Niveau 1 Poids	0.17 kg
Emballage Niveau 1 EAN	4013614395260
Emballage Niveau 2 Unités	100 pièce
Emballage Niveau 2 Largeur	340 mm
Emballage Niveau 2 Hauteur	314 mm
Emballage Niveau 2 Longueur	245 mm
Emballage Niveau 2 Poids	17.563 kg
Emballage Niveau 2 EAN	4013614483257

## Classifications

Code de classification d'objet	F
ETIM 4	EC001080 - Electronic overload relay
ETIM 5	EC001080 - Electronic overload relay
ETIM 6	EC001080 - relais de surcharge électronique
ETIM 7	EC001080 - Electronic overload relay
ETIM 8	EC001080 - Electronic overload relay
eClass	V11.0 : 27371502
UNSPSC	39122330
Code de catégorie granulaire IDEA (IGCC)	5365 >> Electronic overload relay
E-Number (Finland)	3709394
E-Number (Sweden)	3228764

## Accessories

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

## Catégories

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Contacteurs → Relais électroniques de protection contre les surcharges

