

PRODUCT-DETAILS

# TF96-60

## TF96-60 Thermal Overload Relay 48 ... 60 A



### Informations générales

Extension du type de produit	TF96-60
Code de produit	1SAZ911201R1002
EAN	4013614482991
Description courte	TF96-60 Thermal Overload Relay 48 ... 60 A
Description longue	The TF96-60 thermal overload relay is an economic electromechanical protection device for the main circuit. It offers reliable and fast protection for motors in the event of overload or phase failure. The device has trip class 10. Further features are the temperature compensation, trip contact (NC), signal contact (NO), automatic- or manual reset selectable, trip-free mechanism, STOP function and a trip indication. The overload relays are connected directly to the block contactors. Single mounting kits are available as accessory.

### Commande

Quantité minimum	1 pièce
Code douanier	85364900

### Downloads Préférés

Fiche produit, informations techniques	2CDC106069D0201
Instructions et manuels	2CDC106052M6803
Instructions et manuels (Partie 2)	1SAC200017M0002

Ex Operating Instructions	2CDC106086M6801
Time-Current Characteristic Curve	1SAZ900502F0002
CAD Dimensional Drawing	2CDC001079B0201
Schéma dimensionnel	1SAZ900401F0001

## Dimensions

Produit Largeur Net	69.9 mm
Produit Hauteur Net	106.9 mm
Produit Longueur Net	106.3 mm
Poids net	0.52 kg

## Technique

Setting Range	48 ... 60 A
Tension	Circuit auxiliaire 600 V AC/DC Circuit principal 690 V AC Circuit principal 440 V DC
Courant nominal de fonctionnement ( $I_g$ )	60 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 8 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 4 A
Courant assignée d'emploi AC-15 ( $I_e$ )	(120 V) NC 3 A (120 V) NO 0.5 A (240 V) NC 3 A (240 V) NO 0.5 A (400 V) NC 0.75 A (400 V) NO 0.5 A (500 V) NC 0.75 A (500 V) NO 0.5 A
Courant assignée d'emploi DC-13 ( $I_e$ )	(125 V) NC 0.55 A (125 V) NO 0.55 A (24 V) NC 1.25 A (24 V) NO 1.25 A (250 V) NC 0.27 A (250 V) NO 0.27 A (500 V) NC 0.15 A (500 V) NO 0.15 A (60 V) NC 0.55 A (60 V) NO 0.55 A
Indice de protection	Housing IP20 Main Circuit Terminals IP10
Degré de pollution	3
Connecting Capacity	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup>

Auxiliary Circuit	Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 1 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 4 mm <sup>2</sup>
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 6 ... 35 mm <sup>2</sup> Flexible with Ferrule 1x 6 ... 50 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 6 ... 16 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 6 ... 50 mm <sup>2</sup> Flexible 1/2x 6 ... 35 mm <sup>2</sup> Flexible 1x 6 ... 50 mm <sup>2</sup> Rigid 1/2x 6 ... 35 mm <sup>2</sup> Rigid 1x 6 ... 50 mm <sup>2</sup>
Couple de serrage	Auxiliary Circuit 1 ... 1.2 N·m Main Circuit 6.0 ... 9.0 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 20 mm
Recommended Screw Driver	Circuit auxiliaire Pozidriv 2 Circuit principal Hexagon 4
Type d'encastrement	1 ... 6
Power Loss	at Rated Operating Conditions per Pole 3 ... 4.7 W
Adapté pour	AF80 AF96
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	(NC:) B600 (NC:) Q600 (NO:) Q600 (NO:) D300
Connecting Capacity Main Circuit UL/CSA	Flexible 1x 8-1 AWG Flexible 2x 8-3 AWG Stranded 1x 8-1 AWG Stranded 2x 8-3 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 18-12 AWG Stranded 1/2x 18-12 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 9 ... 11 in·lb Main Circuit 50 ... 80 in·lb

## Environnement

Température de l'air ambiant	Operation -40 ... +70 °C Operation Compensated -40 ... +70 °C Storage -50 ... +80 °C
Ambient Air Temperature Compensation	Oui
Altitude de fonctionnement maximale autorisée	2000 m
Résistance aux chocs selon CEI 60068-2-27	11 ms Pulse 25g
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

## Eco Transparence

Informations  
environnementales

1SAC200059H0009

## Certificats et Déclarations (Numéro de document)

Certificat ABS	1SAA941003-0101
Certificat ATEX	1SAA941006-3901
Certificat BV	1SAA941001-0203
CB Certificate	1SAA941016-2001
CQC Certificate	CQC2014010309689434
Declaration of Conformity - CCC	2020980309000292
Déclaration de Conformité - CE	1SAD101100-3503
Declaration of Conformity - UKCA	1SAD201100-3503
DNV GL Certificate	1SAA941004-0301
EAC Certificate	1SAA941002-2701
IECEX Certificate	1SAA941002-4001
Certificat LR	1SAA941003-0501
Certificat RINA	RINA_ELE098115XG
Certificat RMRS	1SAA941002-0701
Certificat UL	E48139-20130329

## Emballage

Emballage Niveau 1 Unités	1 pièce
Emballage Niveau 1 Largeur	97 mm
Emballage Niveau 1 Hauteur	121 mm
Emballage Niveau 1 Longueur	97 mm
Emballage Niveau 1 Poids	0.62 kg
Emballage Niveau 1 EAN	4013614482991
Emballage Niveau 2 Unités	12 pièce
Emballage Niveau 2 Largeur	280 mm
Emballage Niveau 2 Hauteur	210 mm
Emballage Niveau 2 Longueur	395 mm
Emballage Niveau 2 Poids	7.826 kg
Emballage Niveau 2 EAN	4013614485435

## Classifications

Code de classification d'objet	F
ETIM 4	EC000106 - Thermal overload relay
ETIM 5	EC000106 - Thermal overload relay
ETIM 6	EC000106 - relais de surcharge thermique
ETIM 7	EC000106 - Thermal overload relay

ETIM 8	EC000106 - Thermal overload relay
eClass	V11.0 : 27371501
UNSPSC	39122330
Code de catégorie granulaire IDÉA (IGCC)	5366 >> Thermal overload relay
E-Number (Finland)	3706591
E-Number (Sweden)	3210271

## Accessories

Identifiant	Description	Type	Quantity	Unit Of Measure
1SAZ901901R1001	DB96 Single Mounting Kit	DB96	1	piece
1SAX101911R1001	DRS-F-01 Remote Reset Coil	DRS-F-01	1	piece
1SAX101911R1002	DRS-F-02 Remote Reset Coil	DRS-F-02	1	piece
1SAX101911R1003	DRS-F-03 Remote Reset Coil	DRS-F-03	1	piece
1SAX101911R1004	DRS-F-04 Remote Reset Coil	DRS-F-04	1	piece
1SAZ701904R1001	DRS-F-TF-01 Remote Coil	DRS-F-TF-01	1	piece
1SAZ701904R1002	DRS-F-TF-02 Remote Coil	DRS-F-TF-02	1	piece
1SAZ701904R1003	DRS-F-TF-03 Remote Coil	DRS-F-TF-03	1	piece
1SAZ701904R1004	DRS-F-TF-04 Remote Coil	DRS-F-TF-04	1	piece
1SAZ701903R1001	WRH-F Holder	WRH-F	1	piece
1SAZ701903R1011	WRB-400 Bowden Wire	WRB-400	1	piece
1SAZ701903R1012	WRB-600 Bowden Wire	WRB-600	1	piece
1SAZ701903R1013	WRB-1000 Bowden Wire	WRB-1000	1	piece
1SAZ701903R1030	WRBG Gasket	WRBG	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 de protection contre les surcharges

