

PRODUCT-DETAILS

# TF42-35

## TF42-35 Thermal Overload Relay 29 ... 35 A



### Informations générales

|                              |  |
|------------------------------|--|
| Extension du type de produit | TF42-35                                    |
| Code de produit              | 1SAZ721201R1053                            |
| EAN                          | 4013614398162                              |
| Description courte           | TF42-35 Thermal Overload Relay 29 ... 35 A |

|                    |   |
|--------------------|---|
| Description longue | The TF42-35 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 | 2CDC106023D0201 |
| Instructions et manuels                | 2CDC106022M6802 |

|                                       |                 |
|---------------------------------------|-----------------|
| Instructions et manuels<br>(Partie 2) | 1SAC200017M0002 |
| Ex Operating Instructions             | 2CDC106076M6801 |
| Time-Current<br>Characteristic Curve  | 1SAZ700506F0022 |
| CAD Dimensional<br>Drawing            | 2CDC001079B0201 |
| Schéma dimensionnel                   | 1SAZ700405F0001 |

## Dimensions

|                      |          |
|----------------------|----------|
| Produit Largeur Net  | 45 mm    |
| Produit Hauteur Net  | 88.3 mm  |
| Produit Longueur Net | 70.5 mm  |
| Poids net            | 0.145 kg |

## Technique

|  |  |
|--|--|
| Setting Range  | 29 ... 35 A  |
| Tension  | Circuit auxiliaire 600 V AC/DC<br>Circuit principal 690 V AC<br>Circuit principal 600 V DC   |
| Courant nominal de<br>fonctionnement ( $I_g$ )                   | 35 A   |
| Fréquence assignée (f)   | Circuit auxiliaire 50 Hz<br>Circuit auxiliaire 60 Hz<br>Circuit auxiliaire DC<br>Circuit principal 50 Hz<br>Circuit principal 60 Hz                        |
| Tension assignée de<br>tenue aux chocs ( $U_{imp}$ )             | Circuit auxiliaire 6 kV<br>Circuit principal 6 kV  |
| Tension assignée d'<br>isolement ( $U_i$ )                       | 690 V  |
| Nombre de pôles  | 3  |
| Number of Auxiliary<br>Contacts NC                               | 1  |
| Number of Auxiliary<br>Contacts NO                               | 1  |
| Number of Protected<br>Poles                                     | 3  |
| Courant thermique<br>conventionnel à l'air libre<br>( $I_{th}$ ) | Auxiliary Circuit NC 6 A<br>Auxiliary Circuit NO 4 A   |
| Courant assignée d'<br>emploi AC-15 ( $I_g$ )                    | (120 V) NC 3 A<br>(120 V) NO 0.5 A<br>(240 V) NC 3 A<br>(240 V) NO 0.5 A<br>(400 V) NC 0.75 A<br>(400 V) NO 0.5 A<br>(500 V) NC 0.75 A<br>(500 V) NO 0.5 A |
| Courant assignée d'<br>emploi DC-13 ( $I_g$ )                    | (125 V) NC 0.55 A<br>(125 V) NO 0.55 A<br>(24 V) NC 1.25 A   |

|  |  |
|--|--|
|  | (24 V) NO 1.25 A<br>(250 V) NC 0.27 A<br>(250 V) NO 0.27 A<br>(500 V) NC 0.15 A<br>(500 V) NO 0.15 A<br>(60 V) NC 0.55 A<br>(60 V) NO 0.55 A   |
| Indice de protection                     | IP20   |
| Degré de pollution                       | 3  |
| Connecting Capacity<br>Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Flexible 1/2x 0.75 ... 1 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 0.75 ... 4 mm <sup>2</sup>                            |
| Connecting Capacity Main<br>Circuit      | Flexible with Ferrule 1/2x 2.5 ... 10 mm <sup>2</sup><br>Flexible with Ferrule 1/2x 1.5 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1.5 ... 6 mm <sup>2</sup><br>Flexible 1/2x 2.5 ... 4 mm <sup>2</sup><br>Flexible 1/2x 4 ... 6 mm <sup>2</sup><br>Rigid 1/2x 1.5 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 2.5 ... 10 mm <sup>2</sup> |
| Couple de serrage                        | Auxiliary Circuit 1 ... 1.2 N·m<br>Main Circuit 2.5 ... 2.7 N·m  |
| Wire Stripping Length                    | Auxiliary Circuit 9 mm<br>Main Circuit 12 mm   |
| Recommended Screw<br>Driver              | Circuit principal Pozidriv 2   |
| Power Loss                               | at Rated Operating Conditions per Pole 2.1 ... 2.8 W   |
| Adapté pour                              | AF09<br>AF12<br>AF16<br>AF26<br>AF30<br>AF38   |
| Normes et standards                      | IEC/EN 60947-1<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1<br>UL 60947-1<br>UL 60947-4-1   |

## Technique UL/CSA

|   |   |
|---|---|
| Maximum Operating<br>Voltage UL/CSA             | Circuit principal 600 V AC                                |
| Contact Rating UL/CSA                           | (NC:) B600<br>(NC:) Q600<br>(NO:) Q600<br>(NO:) D300      |
| Connecting Capacity Main<br>Circuit UL/CSA      | Flexible 1/2x 14-6 AWG<br>Stranded 1/2x 14-6 AWG          |
| Connecting Capacity<br>Auxiliary Circuit UL/CSA | Flexible 1/2x 18-12 AWG<br>Stranded 1/2x 18-12 AWG        |
| Tightening Torque<br>UL/CSA                     | Auxiliary Circuit 9 ... 11 in·lb<br>Main Circuit 22 in·lb |

## Environnement

|   |  |
|---|--|
| Température de l'air<br>ambiant                     | Operation -25 ... +60 °C<br>Operation Compensated -25 ... +60 °C<br>Storage -50 ... +80 °C |
| Ambient Air Temperature<br>Compensation             | Oui  |
| Altitude de<br>fonctionnement maximale<br>autorisée | 2000 m   |
| Résistance aux chocs<br>selon CEI 60068-2-27        | 11 ms Pulse 25g  |
| Resistance to Vibrations<br>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<br>environnementales | 1SAC200057H0009 |
|-----------------------------------|-----------------|

## Certificats et Déclarations (Numéro de document)

|                                     |                     |
|-------------------------------------|---------------------|
| Certificat ABS                      | 1SAA941001-0102     |
| Certificat ATEX                     | 1SAA941001-3901     |
| Certificat BV                       | 1SAA941001-0203     |
| CB Certificate                      | 1SAA941009-2001     |
| CQC Certificate                     | CQC2011010309464423 |
| Declaration of Conformity<br>- CCC  | 2020980304001788    |
| Déclaration de Conformité<br>- CE   | 1SAD101100-3503     |
| Declaration of Conformity<br>- UKCA | 1SAD201100-3503     |
| DNV GL Certificate                  | 1SAA941001-0302     |
| EAC Certificate                     | 1SAA941002-2701     |
| Certificat GL                       | 1SAA941007-0401     |
| IECEX Certificate                   | 1SAA941003-4001     |
| Certificat LR                       | 1SAA941001-0502     |
| Certificat RINA                     | 1SAA941000-0802     |
| Certificat RMRS                     | 1SAA941000-0704     |
| Certificat UL                       | E48139-20090126     |

## Emballage

|                                |                |
|--------------------------------|----------------|
| Emballage Niveau 1<br>Unités   | carton 1 pièce |
| Emballage Niveau 1<br>Largeur  | 48 mm          |
| Emballage Niveau 1<br>Hauteur  | 92 mm          |
| Emballage Niveau 1<br>Longueur | 78 mm          |

|                             |                 |
|-----------------------------|-----------------|
| Emballage Niveau 1 Poids    | 0.16 kg         |
| Emballage Niveau 1 EAN      | 4013614398162   |
| Emballage Niveau 2 Unités   | carton 40 pièce |
| Emballage Niveau 2 Largeur  | 280 mm          |
| Emballage Niveau 2 Hauteur  | 210 mm          |
| Emballage Niveau 2 Longueur | 395 mm          |
| Emballage Niveau 2 Poids    | 8.066 kg        |
| Emballage Niveau 2 EAN      | 4013614440229   |

## 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 IDEA (IGCC) | 5366 >> Thermal overload relay           |
| E-Number (Finland)                       | 3706131                                  |
| E-Number (Sweden)                        | 3211975                                  |

## Accessories

| Identifiant     | Description                 | Type        | Quantity | Unit Of Measure |
|-----------------|-----------------------------|-------------|----------|-----------------|
| 1SAZ701902R0001 | DB42 Single Mounting Kit    | DB42        | 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

