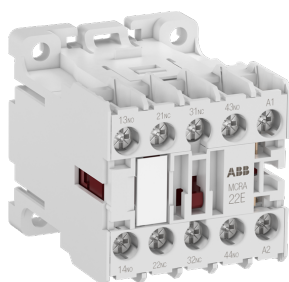


PRODUCT-DETAILS

# MCRA031AT4

## MCRA031AT4 Mini Contactor Relay 3NO+1NC

120V 50/60Hz



### Informations générales

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extension du type de produit | MCRA031AT4                                                                                                                                                                                                                                                                                                                                                                                                               |
| Code de produit              | 1SAH102037R9900                                                                                                                                                                                                                                                                                                                                                                                                          |
| EAN                          | 4013614545917                                                                                                                                                                                                                                                                                                                                                                                                            |
| Description courte           | MCRA031AT4 Mini Contactor Relay 3NO+1NC 120V 50/60Hz                                                                                                                                                                                                                                                                                                                                                                     |
| Description longue           | The MCRA031AT4 mini contactor relay is a dimension optimized 4 pole contactor relay with screw terminals. This device is a great solution when high performances are needed but the space is limited. Mini contactors are used in residential buildings, commercial buildings and industrial applications for switching of control signals up to 6 A / 240 V (AC-15). The product is suitable for wall or rail mounting. |

### Commande

|                   |          |
|-------------------|----------|
| Quantité minimum  | 1 pièce  |
| Code douanier     | 85365080 |
| Groupe de produit | MCR      |

### Downloads Préférés

|                         |                 |
|-------------------------|-----------------|
| Instructions et manuels | 2CDC103061M6801 |
| CAD Dimensional         | 2CDC001079B0201 |

## Drawing

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**Dimensions**


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|                      |         |
|----------------------|---------|
| Produit Largeur Net  | 45 mm   |
| Produit Longueur Net | 56 mm   |
| Produit Hauteur Net  | 48 mm   |
| Poids net            | 0.17 kg |

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**Technique**


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|                                                 |                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil Consumption                                | Average Holding Value 50 Hz 5.3 V·A<br>Average Pull-in Value 50 Hz 5.3 V·A                                                                                                                                                                                                                                                                                                         |
| Plage d'utilisation de la bobine selon          | (acc. to IEC 60947-5-1) for AC supply 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55^\circ\text{C}$ )                                                                                                                                                                                                                                                                           |
| Connecting Capacity Auxiliary Circuit           | Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Ferrule 2x 0.75 ... 1.5 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 ... 2.5 mm <sup>2</sup><br>Rigid 1x 0.75 ... 4 mm <sup>2</sup><br>Rigid 2x 0.75 ... 2.5 mm <sup>2</sup> |
| Connecting Capacity Control Circuit             | Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Ferrule 2x 0.75 ... 1.5 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 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>                                      |
| Maximum Electrical Switching Frequency          | (AC-15) 360 cycles per hour<br>(DC-13) 360 cycles per hour                                                                                                                                                                                                                                                                                                                         |
| Durabilité mécanique                            | 10000000 cycle                                                                                                                                                                                                                                                                                                                                                                     |
| Mini Contactor Type                             | Mini Contactor Relay                                                                                                                                                                                                                                                                                                                                                               |
| Minimum Mounting Distance                       | Other Device Same Type, Horizontal 0 mm                                                                                                                                                                                                                                                                                                                                            |
| Minimum Switching Capacity                      | Auxiliary Circuit 17 V<br>Auxiliary Circuit 5 mA                                                                                                                                                                                                                                                                                                                                   |
| Type d'encastrement                             | 1 ... 6                                                                                                                                                                                                                                                                                                                                                                            |
| Type de montage                                 | DIN-Rail<br>Screw                                                                                                                                                                                                                                                                                                                                                                  |
| Montage sur rail DIN                            | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                                                                                                                                                                                                                     |
| Number of Auxiliary Contacts NC                 | 1                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of Auxiliary Contacts NO                 | 3                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of Main Contacts NC                      | 0                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of Main Contacts NO                      | 0                                                                                                                                                                                                                                                                                                                                                                                  |
| Nombre de pôles                                 | 0                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Loss                                      | at Rated Operating Conditions per Pole 0.4 W                                                                                                                                                                                                                                                                                                                                       |
| Rated Control Circuit Voltage (U <sub>c</sub> ) | 120 V AC                                                                                                                                                                                                                                                                                                                                                                           |
| Fréquence assignée (f)                          | Circuit auxiliaire 50 Hz                                                                                                                                                                                                                                                                                                                                                           |

|                                                     |                                                                                                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|                                                     | Circuit auxiliaire 60 Hz<br>Circuit auxiliaire DC<br>Circuit de commande 50 Hz<br>Circuit de commande 60 Hz |
| Tension assignée de tenue aux chocs ( $U_{imp}$ )   | Circuit auxiliaire 6 kV                                                                                     |
| Tension assignée d'isolement ( $U_i$ )              | 750 V                                                                                                       |
| Courant assignée d'emploi AC-15 ( $I_g$ )           | (240 V) 6 A<br>(400 V) 4 A<br>(500 V) 2.5 A<br>(690 V) 1.5 A                                                |
| Courant assignée d'emploi DC-13 ( $I_g$ )           | (24 V) 5 A<br>(48 V) 2.5 A<br>(125 V) 0.55 A<br>(250 V) 0.3 A<br>(440 V) 0.15 A                             |
| Tension                                             | Circuit auxiliaire 690 V AC<br>Circuit auxiliaire 440 V DC                                                  |
| Recommended Screw Driver                            | Pozidriv 2                                                                                                  |
| Dispositif de protection contre les courts-circuits | gG Type Fuses 10 A                                                                                          |
| Normes et standards                                 | IEC/EN 60947-1<br>IEC/EN 60947-5-1<br>UL 60947-1<br>UL 60947-5-1                                            |
| Type de borne                                       | Screw Terminals                                                                                             |
| Couple de serrage                                   | Auxiliary Circuit 0.8 ... 1.0 N·m<br>Control Circuit 0.8 N·m                                                |
| Wire Stripping Length                               | Auxiliary Circuit 9 mm<br>Control Circuit 9 mm                                                              |

## Technique UL/CSA

|                                              |                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------|
| Connecting Capacity Auxiliary Circuit UL/CSA | Stranded 1/2x 18-12 AWG                                                      |
| Contact Rating UL/CSA                        | A600<br>Q600                                                                 |
| General Use Rating UL/CSA                    | (600 V AC) 10 A                                                              |
| Maximum Operating Voltage UL/CSA             | 600 V AC                                                                     |
| Pilot Duty UL/CSA                            | A600<br>Q600<br>A600<br>Q600                                                 |
| Tightening Torque UL/CSA                     | Auxiliary Circuit 7 in·lb<br>Control Circuit 7 in·lb<br>Main Circuit 7 in·lb |

## Environnement

|                              |                                                    |
|------------------------------|----------------------------------------------------|
| Température de l'air ambiant | Operation -40 ... +70 °C<br>Storage -55 ... +80 °C |
| Conflict Minerals            | 9AKK108467A5658                                    |

Reporting Template  
(CMRT)

|                                                            |                                                                                                   |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Courant thermique conventionnel à l'air libre ( $I_{th}$ ) | Auxiliary Circuit 10 A                                                                            |
| Indice de protection                                       | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20<br>Main Circuit Terminals IP20 |
| Altitude de fonctionnement maximale autorisée              | 3000 m                                                                                            |
| REACH Declaration                                          | 2CMT2021-006202                                                                                   |
| 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                                                                                 |
| Informations RoHS                                          | 2CMT2021-006277                                                                                   |
| Statut RoHS                                                | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019                            |
| WEEE B2C / B2B                                             | Business To Business                                                                              |
| Catégorie DEEE                                             | 5. Small Equipment (No External Dimension More Than 50 cm)                                        |

## Certificats et Déclarations (Numéro de document)

|                                  |                     |
|----------------------------------|---------------------|
| Certificat BV                    | 1SAA971000-0201     |
| CB Certificate                   | 1SAA971001-2001     |
| CQC Certificate                  | CQC2019010303193580 |
| Declaration of Conformity - CCC  | 2020980303000255    |
| Déclaration de Conformité - CE   | 1SAD101100-3201     |
| Declaration of Conformity - UKCA | 1SAD201100-3201     |
| Certificat UL                    | E48139-19880829     |

## Emballage

|                             |               |
|-----------------------------|---------------|
| Emballage Niveau 1 Unités   | box 1 pièce   |
| Emballage Niveau 1 Largeur  | 46 mm         |
| Emballage Niveau 1 Longueur | 49 mm         |
| Emballage Niveau 1 Hauteur  | 58 mm         |
| Emballage Niveau 1 Poids    | 0.175 kg      |
| Emballage Niveau 1 EAN      | 4013614545917 |
| Emballage Niveau 2 Unités   | box 20 pièce  |
| Emballage Niveau 2 Largeur  | 237 mm        |
| Emballage Niveau 2 Longueur | 102 mm        |

|                               |               |
|-------------------------------|---------------|
| Emballage Niveau 2<br>Hauteur | 120 mm        |
| Emballage Niveau 2 Poids      | 3.55 kg       |
| Emballage Niveau 2 EAN        | 4013614546464 |

## Classifications

|                                   |                                          |
|-----------------------------------|------------------------------------------|
| eClass                            | V11.0 : 27371001                         |
| ETIM 6                            | EC000196 - contacteur auxiliaire, relais |
| ETIM 7                            | EC000196 - Contactor relay               |
| ETIM 8                            | EC000196 - Contactor relay               |
| ETIM 9                            | EC000196 - Contactor relay               |
| Code de classification<br>d'objet | K                                        |
| UNSPSC                            | 39121500                                 |

## Catégories

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Contacteurs → Mini Contactor Relays

