

PRODUCT-DETAILS

# E297-16-20/48

## E297-16-20/48 Installation relay



### Informations générales

Extension du type de produit	E297-16-20/48
Code de produit	2TAZ311000R2032
EAN	7612270940158
Description courte	E297-16-20/48 Installation relay

Description longue	<p>Installation relays are electromagnetically operated miniature contactors in the standard DIN width of 18 mm. A reliable control system can be designed using these ABB Installation relays E297. They are used mainly in industrial plants but also in commercial and public buildings. As a rule, installation relays operated by means of a control switch (maintained contact) are installed where it is necessary to operate lighting, an air-conditioning system, a fan or suchlike. Installation relays are also referred to as monostable switching relays or 2-pole miniature contactors. The term "monostable" means that an on command has to be sent to the coil by means of a control switch (maintained operation) in order to excite the magnetic coil. The coil armature attracts and closes or opens the main contacts. The device remains in the on position for as long as the control voltage is applied to the coil. If the voltage flow to the coil is interrupted, the installation relay always returns to the neutral position (off position). Installation relays and the accessories are available in different versions in order to easily satisfy the various market requirements. Their optimal switching capacity also makes them suitable for use in industrial environments and in situations where it is necessary to ensure control over more powerful consumers (such as e.g. multiple lighting systems). Using an optimized coil (low power loss = lower operating temperature) ensures a clean and safe operation in the electrical distribution board.</p>
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### Technique

Normes et standards	EN 60669-1 EN 60669-2-2
Tension nominale (U <sub>r</sub> )	250 V AC

Tension	250 V AC
Tension d'alimentation	43.2 ... 52.8 V AC
Tension assignée d'isolement (U <sub>i</sub> )	48 V AC/DC
Rated Control Supply Voltage (U <sub>s</sub> )	48 V AC 48 V DC
Tension assignée de tenue aux chocs (U <sub>imp</sub> )	4 kV
Rated Control Circuit Voltage (U <sub>c</sub> )	48 V AC 48 V DC
Courant nominal (I <sub>n</sub> )	16 A
Fréquence assignée (f)	50 .. 60 Hz
Maximum Lamp Load	3000 W Flourescent, Uncorrected Power Factor (cos. 0.5) 1800 W Flourescent, Corrected Power Factor (cos. 0.9): Serial 3000 W Flourescent, Corrected Power Factor (cos. 0.9): Parallel 2500 W Flourescent, Corrected Power Factor (cos. 0.9): Single 1800 W Flourescent, Corrected Power Factor (cos. 0.9): Double 2500 W
Power Loss	1 W
Number of Contacts CO	0
Number of Contacts NC	0
Number of Contacts NO	2
Number of Main Contacts NC	0
Number of Main Contacts NO	2
Number of Auxiliary Contacts NC	0
Number of Auxiliary Contacts NO	0
Niveau sonore dB (A)	(@distance 1 m) 60 dB
Couple de serrage	1.2 - 1.5 N·m
Durée de Réponse	<3 ms
Contact Type	Normally Open (NO)
Type de montage	DIN-Rail
Options Provided	2NO
Coil Consumption	Control Voltage V AC 48 V AC Average Pull-in Value 50 Hz 2.10 A Average Holding Value 50 Hz 1.416 W Average Holding Value 50 Hz 0.033 A Control Voltage V AC 48 V DC Average Pull-in Value 50 Hz 2.10 A Average Holding Value 50 Hz 1.416 W Average Holding Value 50 Hz 0.033 A
RAL Number	RAL 7035 - Gris clair
Couleur	Grey
Connecting Capacity	Solid 1 x 1 ... 10 mm <sup>2</sup> Flexible 2 x 2.5 mm <sup>2</sup> Flexible with Cable End 1 x 0.75 ... 6 mm <sup>2</sup> Flexible with Cable Lug 1 x 0.75 ... 6 mm <sup>2</sup>

## Environnement

Température de l'air ambiant	Operation -25...+55 °C Storage -40...+70 °C
Statut RoHS	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Informations RoHS	2CCC005103D0201
REACH Declaration	2CCC005047D0201
Informations environnementales	2CCC441012D0202

Conflict Minerals  
Reporting Template  
(CMRT)

9AKK108468A3363

## Technique UL/CSA

Short-Circuit Current Rating (SCCR)	3 kA
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## Dimensions

Width in Number of Modular Spacings	1
Produit Largeur Net	18 mm
Produit Hauteur Net	85 mm
Produit Longueur Net	62 mm
Poids net	121 g
Profondeur d'encastrement (t <sub>2</sub> )	62 mm
Schéma dimensionnel	9AKK107992A6188

## Commande

Emballage Niveau 1 Unités	box 10 pièce
Emballage Niveau 1 Poids	1286 g

## Certificats et Déclarations (Numéro de document)

Déclaration de Conformité - CE	2CCC005103D0201
Declaration of Conformity - UKCA	9AKK108467A6140
EAC Certificate	9AKK107992A1778
VDE Certificate	VDE_E297_40041228

## Installation

Instructions et manuels	2CCC441006M0801
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## Downloads Préférés

Fiche produit, informations techniques	2CCC441020C0201
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## Classifications

ETIM 8	EC001652 - Installation relay
ETIM 9	EC001652 - Installation relay
Catégorie DEEE	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer
CN8	85362020

eClass

V11.0 : 27142309

Code de classification  
d'objet

K

## Accessories

Identifiant	Description	Type	Quantity	Unit Of Measure
2CCA704320R0001	E298-16-20 Main contact module 16A, 2NO	E298-16-20	10	piece
2CCA704321R0001	E298-16-11 Main contact module 16A, 1NO+1NC	E298-16-11	10	piece
2CCA704322R0001	E298-16-001 Main contact module 16A, 1CO	E298-16-001	10	piece
2CCA704340R0001	E299-11 Auxiliary contact 5A, 1NO+1NC	E299-11	10	piece
2CCA704341R0001	E299-20 Auxiliary contact	E299-20	10	piece
2CCS500900R0181	ZLS725 Spare parts	ZLS725	10	piece
2CCS400900R0091	ZLS726 Spare parts	ZLS726	10	piece

## Catégories

Produits basse tension → Appareillage modulaire et parafoudres → Command and Signalling Devices → Installation Relays

