

PRODUCT-DETAILS

E297-16-20/12

E297-16-20/12 Installation relay



General Information

Extended Product Type	E297-16-20/12
Product ID	2TAZ311000R2052
EAN	7612270940134
Catalog Description	E297-16-20/12 Installation relay

Long Description

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.

Technical

Standards	EN 60669-1 EN 60669-2-2
Product Name	Installation relay

Rated Voltage (U _r)	250 V AC
Rated Operational Voltage	250 V AC
Supply Voltage	10.8 ... 13.2 V AC
Rated Insulation Voltage (U _i)	12 V AC
Rated Control Supply Voltage (U _s)	12 V AC
Rated Impulse Withstand Voltage (U _{imp})	4 kV
Rated Control Circuit Voltage (U _c)	12 V AC
Rated Current (I _n)	16 A
Rated Frequency (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
Sound dB (A)	(@distance 1 m) 60 dB
Tightening Torque	1.2 - 1.5 N·m
Response Time	<3 ms
Contact Type	Normally Open (NO)
Mounting Type	Din-Rail
Options Provided	2NO
Coil Consumption	Control Voltage V AC 12 V AC Average Pull-in Value 50 Hz 5.80 A Average Holding Value 50 Hz 1.503 W Average Holding Value 50 Hz 0.170 A
RAL Number	RAL 7035 - Light Grey
Color	Grey
Connecting Capacity	Solid 1 x 1 ... 10 mm ² Flexible 2 x 2.5 mm ² Flexible with Cable End 1 x 0.75 ... 6 mm ² Flexible with Cable Lug 1 x 0.75 ... 6 mm ²

Environmental

Ambient Air Temperature	Operation -25...+55 °C Storage -40...+70 °C
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment
Environmental Information	2CCC441012D0202

Technical UL/CSA

Short-Circuit Current Rating (SCCR)	3 kA
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Dimensions

Width in Number of Modular Spacings	1
Product Net Width	18 mm
Product Net Height	85 mm
Product Net Depth / Length	62 mm
Product Net Weight	121 g
Product Net Length	62 mm
Built-In Depth (t ₂)	62 mm

Container Information

Package Level 1 Units	box 10 piece
Package Level 1 Width	96 mm
Package Level 1 Height	82 mm
Package Level 1 Depth / Length	185 mm
Package Level 1 Gross Weight	1286 g
Package Level 1 EAN	7612270940134

Ordering

Minimum Order Quantity	10 piece
Customs Tariff Number	85364930
Country of Origin	China (CN)
Selling Unit of Measure	piece

Certificates and Declarations (Document Number)

Declaration of Conformity - CE	2CCC005103D0201
EAC Certificate	9AKK107992A1778
Environmental Information	2CCC441012D0202
Instructions and Manuals	2CCC441006M0801
RoHS Information	2CCC413008D0206
VDE Certificate	VDE_E297_40041228

Popular Downloads

Data Sheet, Technical Information	2CCC441020C0201
Instructions and Manuals	2CCC441006M0801
Dimension Diagram	9AKK107992A6188

Classifications

ETIM 6	EC001652 - Installation relay
ETIM 7	EC001652 - Installation relay
ETIM 8	EC001652 - Installation relay

WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer
CN8	85362020
Object Classification Code	K

Accessories				
Identifier	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	pack
2CCS400900R0091	ZLS726 Spare parts	ZLS726	10	pack

Categories				
Low Voltage Products and Systems → Modular DIN Rail Products → Command and Signalling Devices → Installation Relays				

