



PRODUCT-DETAILS

E297-16-10/24

E297-16-10/24 Installation relay



General Information	
Extended Product Type	E297-16-10/24
Product ID	2TAZ311000R2041
EAN	7612270940028
Catalog Description	E297-16-10/24 Installation relay
Long Description	<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>

Technical	
Standards	EN 60669-1 EN 60669-2-2
Function	Monostable installation relay
Rated Voltage (U_r)	250 V AC
Rated Operational Voltage	250 V AC
Supply Voltage	21.6... 26.4 V AC
Rated Insulation Voltage (U_i)	24 V AC/DC
Rated Control Supply Voltage (U_s)	24 V AC 24 V DC
Rated Impulse Withstand Voltage (U_{imp})	4 kV
Rated Control Circuit Voltage (U_c)	24 V AC 24 V DC
Rated Current (I_n)	16 A
Maximum Control Current DC	8 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	0.5 W
Number of Contacts NO	1
Number of Main Contacts NC	0
Number of Main Contacts NO	1
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
Coil Consumption	Control Voltage V AC 24 V AC Average Pull-in Value 50 Hz 2.80 A Average Holding Value 50 Hz 1.701 W Average Holding Value 50 Hz 0.090 A Control Voltage V AC 24 V DC Average Pull-in Value 50 Hz 2.80 A Average Holding Value 50 Hz 1.701 W Average Holding Value 50 Hz 0.090 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

Material Compliance		
RoHS Information		2CCC005103D0201
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019	
RoHS Date		20170426
REACH Declaration		2CCC005047D0201
REACH Information	False - does not contain substances > 0.1 mass percentage	
REACH Date		20190425
Conflict Minerals Reporting Template (CMRT)		9AKK108468A3363

Environmental		
Ambient Air Temperature		Operation -25...+55 °C Storage -40...+70 °C
Environmental Information		2CCC441012D0202

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		113 g
Built-In Depth (t ₂)		62 mm
Dimension Diagram		9AKK107992A6188

Ordering		
Package Level 1 Units		box 10 piece
Package Level 1 Gross Weight		1206 g
E-Number (Sweden)		4001181

Certificates and Declarations		
Declaration of Conformity - CE		2CCC005103D0201
Declaration of Conformity - UKCA		9AKK108467A6140
VDE Certificate		VDE_E297_40041228

Installation		
Instructions and Manuals		2CCC441006M0801

Popular Downloads		
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Classifications

ETIM 8	EC001652 - Installation relay
ETIM 9	EC001652 - Installation relay
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer
CN8	85362020
UNSPSC	39122315
eClass	V11.0 : 27142309
IDEA Granular Category Code (IGCC)	5349 >> Electromagnetic relay
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	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

Categories

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

