PRODUCT-DETAILS

E290-16-20/230

E290-16-20/230 Electromechanical latching relay

General Information

Extended Product Type	E290-16-20/230
Product ID	2TAZ312000R2012
EAN	7612270939725
Catalog Description	E290-16-20/230 Electromechanical latching relay
Long Description	Latching relays are electromagnetically operated devices. The E290 range from ABB can be used to realise a simple, energy saving and efficient lighting control system. These devices are mainly used in private houses, factory premises and commercial and public buildings as well as in industrial plants. As a rule, latching relays controlled by means of impulse buttons are installed where it is necessary for lighting to be operated from at least three different places. Each time a command is initiated (by means of an impulse button), an electrical pulse is applied to the coil of the latching relay. The coil in the device is briefly energised and activated. That short pulse to the coil leads to the mechanical latch of the internal main contacts. The internal switching mechanism enables us to achieve a safe and reliable interlock (in the same way as a ballpoint pen). Each pulse that is sent to the magnetic coil system switches the device to its previous position where it is held mechanically until the next control pulse is received. The devices are designed for rated currents 16 and 32A. Through the combinable accessories the main modules can be used in nearly all market applications.

Technical

Standards	IEC/EN 60669-1 IEC/EN 60669-2-2
Product Name	Electromechanical latching relay
Rated Operational Voltage	250 V AC
Supply Voltage	207 ... 253 V AC

Rated Insulation Voltage (U_i)	230 V AC 110 V DC
Rated Control Supply Voltage (U_s)	230 V AC 110 V DC
Rated Impulse Withstand Voltage (U_{imp})	4 kV
Rated Control Circuit Voltage (U_c)	230 V AC 110 V DC
Rated Current (I_n)	16 A
Current Rating, Main Switch	16 A
Maximum Switching Current	16 A
Rated Frequency (f)	50 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	0.64 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
Impulse Duration	Minimum 50 ms
Contact Type	Normally Open (NO)
Mounting Type	DIN rail
Options Provided	2NO
Coil Consumption	Control Voltage V AC 230 V AC Average Pull-in Value 50 Hz 0.062 A Control Voltage V DC 110 V DC Average Pull-in Value 50 Hz 0.057 A
RAL Number	RAL 7035 - Light Grey
Color	Grey
Connecting Capacity	Solid 1 x 1 ... 10 mm² Flexible 2 x 2.5 mm² Flexible with Cable End 1 x 0.75 ... 6 mm² Flexible with Cable Lug 1 x 0.75 ... 6 mm²

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
Climate Class Reference Standards	IEC 60068-2-2 - Deals with dry heat tests applicable both to heat-dissipating and non heat-dissipating specimens IEC 60068-2-30 - Determines the suitability of components, equipment or other articles for use, transportation and storage under conditions of high humidity - combined with cyclic temperature changes and, in general, producing condensation on the surface of the specimen.

	IEC 60068-2-1 - Deals with cold tests applicable to both non heat-dissipating and heat-dissipating specimens

Technical UL/CSA

Short-Circuit Current Rating (SCCR)	3 kA

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	122 g
Product Net Length	62 mm
Built-In Depth (t_2)	68 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	1296 g
Package Level 1 EAN	7612270939725

Ordering

Minimum Order Quantity	10 piece
Customs Tariff Number	85364930
E-Number (Finland)	2712538
E-Number (Sweden)	4001189
Country of Origin	China (CN)
Selling Unit of Measure	piece

Certificates and Declarations (Document Number)

Declaration of Conformity - CE	2CCC005102D0201
EAC Certificate	9AKK107992A1778
Environmental Information	2CCC441012D0202
Instructions and Manuals	2CCC441005M0801
RoHS Information	2CCC413008D0206
VDE Certificate	VDE E29x_40040851

Popular Downloads

Data Sheet, Technical Information	2CCC441020C0201

Instructions and Manuals	2CCC441005M0801
Dimension Diagram	9AKK107992A6188

Classifications

ETIM 6	EC000188 - Latching relay
ETIM 7	EC000188 - Latching relay
ETIM 8	EC000188 - Latching 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
2CCA704300R0001	E292-16-20 E292-16-20	E292-16-20	10	piece
2CCA704301R0001	E292-16-11 E292-16-11	E292-16-11	10	piece
2CCA704302R0001	E292-16-001 E292-16-001	E292-16-001	10	piece
2TAZ312001R2043	E294/24 E294/24	E294/24	5	piece
2TAZ312001R2013	E294/230 E294/230	E294/230	5	piece
2TAZ312005R1003	E295-PS E295-PS-	E295-PS	10	piece
2TAZ310002R1000	E295-GM E295-GM	E295-GM	10	piece
2TAZ310003R1000	E296-CP E296-CP	E296-CP	10	piece
2CCA704340R0001	E299-11 E299-11	E299-11	10	piece
2CCA704341R0001	E299-20 Auxiliary contact	E299-20	10	piece
2CCS500900R0181	ZLS725 ZLS725-Falso polo, 1 modulo (5ps)	ZLS725	10	pack
2CCS400900R0091	ZLS726 ZLS726-Falso polo 1/2 modulo (5ps)	ZLS726	10	pack

Categories

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