PRODUCT-DETAILS

E290-16-20/115

E290-16-20/115 Electromechanical Latching Relay



General Information

Extended Product Type	E290-16-20/115
Product ID	2TAZ312000R2022
EAN	7612270939718
Catalog Description	E290-16-20/115 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

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Function	Mechanical latching relay
Supply Voltage	103.5 ... 126.5 V AC
Rated Insulation Voltage (U_i)	115 V AC 60 V DC
Rated Control Supply Voltage (U_s)	250 V AC
Rated Impulse Withstand Voltage (U_{imp})	4 kV
Input Voltage Type	AC
Rated Control Circuit Voltage (U_c)	115 V AC 60 V DC
Rated Current (I_n)	16 A
Current Rating, Main Switch	16 A
Maximum Switching Current	cos phi = 0.6 16 A
Frequency (f)	Control Voltage 1 50 Hz
Rated Frequency (f)	50 Hz
Maximum Lamp Load	Fluorescent (Parallel Compensated) 3000 W Fluorescent (Parallel Compensated) Incandescent, 3000 V·A Fluorescent (Parallel Compensated) Fluorescent, 2500 V·A Fluorescent (Parallel Compensated) FluDuoCir, 2500 A
Power Loss	0.64 W
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
Coil Consumption	Control Voltage V AC 115 V AC Average Pull-in Value 50 Hz 0.070 A Control Voltage V DC 60 V DC Average Pull-in Value 50 Hz 0.105 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

Material Compliance

RoHS Information	2CCC005102D0201
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20170426
REACH Declaration	2CCC005047D0201
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental

Ambient Air Temperature	Operation -25...+55 °C

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	Storage -40...+70 °C
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

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
Built-In Depth (t_2)	68 mm
Dimension Diagram	9AKK107992A6188

Ordering

Package Level 1 Units	box 10 piece
Package Level 1 Gross Weight	1296 g

Certificates and Declarations

Declaration of Conformity - CE	2CCC005102D0201
Declaration of Conformity - UKCA	9AKK108467A6139
VDE Certificate	VDE E29x 40040851

Installation

Instructions and Manuals	2CCC441005M0801

Popular Downloads

Data Sheet, Technical Information	2CCC441020C0201

Classifications

ETIM 8	EC000188 - Latching relay
ETIM 9	EC000188 - Latching relay
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer
CN8	85362020
eClass	V11.0 : 27142306
Object Classification Code	K

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Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CCA704300R0001	E292-16-20 Main Contact Module	E292-16-20	10	piece
2CCA704301R0001	E292-16-11 Main Contact Module	E292-16-11	10	piece
2CCA704302R0001	E292-16-001 Main Contact Module	E292-16-001	10	piece
2TAZ312001R2043	E294/24 Central on-off Control Module	E294/24	5	piece
2TAZ312001R2013	E294/230 Central on-off Control Module	E294/230	5	piece
2TAZ312005R1003	E295-PS Permanent Signal Module	E295-PS	10	piece
2TAZ310002R1000	E295-GM Group Module	E295-GM	10	piece
2TAZ310003R1000	E296-CP Compensator	E296-CP	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 → Latching Relays





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