



PRODUCT-DETAILS

# E290-32-10/12

## E290-32-10/12 Electromechanical Latching Relay



General Information

|                       |  |
|-----------------------|--|
| Extended Product Type | E290-32-10/12                                  |
| Product ID            | 2TAZ322000R2051                                |
| EAN                   | 7612270939626                                  |
| Catalog Description   | E290-32-10/12 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<br>IEC/EN 60669-2-2 |
|-----------|------------------------------------|

|   |  |
|---|--|
| Function  | Mechanical latching relay  |
| Supply Voltage                                      | 250 ... 250 V  |
| Rated Insulation Voltage (U <sub>i</sub> )          | 12 V AC  |
| Rated Control Supply Voltage (U <sub>s</sub> )      | 250 V AC   |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | 4 kV   |
| Input Voltage Type                                  | AC   |
| Rated Control Circuit Voltage (U <sub>c</sub> )     | 12 V AC  |
| Rated Current (I <sub>n</sub> )                     | 32 A   |
| Current Rating, Main Switch                         | 32 A   |
| Maximum Switching Current                           | cos phi = 0.6 32 A   |
| Frequency (f)                                       | Control Voltage 1 50 Hz  |
| Rated Frequency (f)                                 | 50 Hz  |
| Maximum Lamp Load                                   | Fluorescent (Parallel Compensated) 4000 W<br>Fluorescent (Parallel Compensated) Incandescent, 4000 V-A<br>Fluorescent (Parallel Compensated) Fluorescent, 3200 V-A<br>Fluorescent (Parallel Compensated) FluDuoCir, 3200 A |
| Power Loss  | 1.2 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  |
| Impulse Duration                                    | Minimum 50 ms  |
| Contact Type  | Normally Open (NO)   |
| Mounting Type                                       | DIN-Rail   |
| Coil Consumption                                    | Control Voltage V AC 12 V AC<br>Average Pull-in Value 50 Hz 1.263 A  |
| RAL Number  | RAL 7035 - Light Grey  |
| Color   | Grey   |
| Connecting Capacity                                 | Solid 1 x 1 ... 10 mm²<br>Flexible 2 x 2.5 mm²<br>Flexible with Cable End 1 x 0.75 ... 6 mm²<br>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<br>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                  | 114 g           |
| Built-In Depth (t <sub>2</sub> )    | 68 mm           |
| Dimension Diagram                   | 9AKK107992A6188 |

Ordering

|                              |              |
|------------------------------|--------------|
| Package Level 1 Units        | box 10 piece |
| Package Level 1 Gross Weight | 1216 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  |

Accessories

| Identifier      | Description           | Type        | Quantity | Unit Of Measure |
|-----------------|-----------------------|-------------|----------|-----------------|
| 2CSM277333R1801 | E 9F10 GG05 Fuse link | E 9F10 GG05 | 1        | piece           |
| 2CSM277113R1801 | E 9F10 GG1 Fuse link  | E 9F10 GG1  | 1        | piece           |
| 2CSM258723R1801 | E 9F10 GG2 Fuse link  | E 9F10 GG2  | 1        | piece           |
| 2CSM257543R1801 | E 9F10 GG4 Fuse link  | E 9F10 GG4  | 1        | piece           |
| 2CSM256363R1801 | E 9F10 GG6 Fuse link  | E 9F10 GG6  | 1        | piece           |
| 2CSM258633R1801 | E 9F10 GG8 Fuse link  | E 9F10 GG8  | 1        | piece           |
| 2CSM257453R1801 | E 9F10 GG10 Fuse link | E 9F10 GG10 | 1        | piece           |
| 2CSM256273R1801 | E 9F10 GG12 Fuse link | E 9F10 GG12 | 1        | piece           |
| 2CSM277543R1801 | E 9F10 GG16 Fuse link | E 9F10 GG16 | 1        | piece           |
| 2CSM277323R1801 | E 9F10 GG20 Fuse link | E 9F10 GG20 | 1        | piece           |
| 2CSM277103R1801 | E 9F10 GG25 Fuse link | E 9F10 GG25 | 1        | piece           |
| 2CSM258713R1801 | E 9F10 GG32 Fuse link | E 9F10 GG32 | 1        | piece           |
| 2CSM257473R1801 | E 9F10 AM05 Fuse link | E 9F10 AM05 | 1        | piece           |
| 2CSM256293R1801 | E 9F10 AM1 Fuse link  | E 9F10 AM1  | 1        | piece           |
| 2CSM277563R1801 | E 9F10 AM2 Fuse link  | E 9F10 AM2  | 1        | piece           |
| 2CSM277343R1801 | E 9F10 AM4 Fuse link  | E 9F10 AM4  | 1        | piece           |
| 2CSM277123R1801 | E 9F10 AM6 Fuse link  | E 9F10 AM6  | 1        | piece           |
| 2CSM258733R1801 | E 9F10 AM8 Fuse link  | E 9F10 AM8  | 1        | piece           |
| 2CSM257553R1801 | E 9F10 AM10 Fuse link | E 9F10 AM10 | 1        | piece           |
| 2CSM256373R1801 | E 9F10 AM12 Fuse link | E 9F10 AM12 | 1        | piece           |
| 2CSM258643R1801 | E 9F10 AM16 Fuse link | E 9F10 AM16 | 1        | piece           |
| 2CSM257463R1801 | E 9F10 AM20 Fuse link | E 9F10 AM20 | 1        | piece           |
| 2CSM256283R1801 | E 9F10 AM25 Fuse link | E 9F10 AM25 | 1        | piece           |
| 2CSM277553R1801 | E 9F10 AM32 Fuse link | E 9F10 AM32 | 1        | piece           |
| 2CCS500900R0181 | ZLS725 Spare parts    | ZLS725      | 1        | piece           |
| 2CCS400900R0091 | ZLS726 Spare parts    | ZLS726      | 1        | piece           |

Categories

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

