

PRODUCT-DETAILS

# E290-16-10/12

## E290-16-10/12 Electromechanical latching relay




---

### Informations générales

Extension du type de produit	E290-16-10/12
Code de produit	2TAZ312000R2051
EAN	7612270939565
Description courte	E290-16-10/12 Electromechanical latching relay

#### Description longue

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.

---

### Technique

Normes et standards	IEC/EN 60669-1 IEC/EN 60669-2-2
Tension	250 V AC
Tension d'alimentation	10.8 ... 13.2 V AC

Tension assignée d'isolement ( $U_i$ )	12 V AC
Rated Control Supply Voltage ( $U_g$ )	12 V AC
Tension assignée de tenue aux chocs ( $U_{imp}$ )	4 kV
Rated Control Circuit Voltage ( $U_c$ )	12 V AC
Courant nominal ( $I_n$ )	16 A
Current Rating, Main Switch	16 A
Maximum Switching Current	16 A
Fréquence assignée (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	0.32 W
Number of Contacts CO	0
Number of Contacts NC	0
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
Niveau sonore dB (A)	(@distance 1 m) 60 dB
Couple de serrage	1.2 - 1.5 N·m
Durée de Réponse	<3 ms
Impulse Duration	Minimum 50 ms
Contact Type	Normally Open (NO)
Type de montage	DIN rail
Options Provided	1NO
Coil Consumption	Control Voltage V AC 12 V AC Average Pull-in Value 50 Hz 1.263 A
RAL Number	RAL 7035 - Gris clair
Couleur	Grey
Connecting Capacity	Solid 1 x 1 ... 10 mm <sup>2</sup> Flexible 2 x 2.5 mm <sup>2</sup> Flexible with Cable End 1 x 0.75 ... 6 mm <sup>2</sup> Flexible with Cable Lug 1 x 0.75 ... 6 mm <sup>2</sup>

## Environnement

Température de l'air ambiant	Operation -25...+55 °C Storage -40...+70 °C
Statut RoHS	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Informations environnementales	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

## Technique UL/CSA

Short-Circuit Current Rating (SCCR)	3 kA
--	------

## Dimensions

Width in Number of Modular Spacings	1
Produit Largeur Net	18 mm
Produit Hauteur Net	85 mm
Produit Longueur Net	62 mm
Poids net	114 g
Produit Longueur Net	62 mm
Profondeur d'encastrement (t <sub>2</sub> )	68 mm

## Emballage

Emballage Niveau 1 Unités	box 10 pièce
Emballage Niveau 1 Largeur	96 mm
Emballage Niveau 1 Hauteur	82 mm
Emballage Niveau 1 Longueur	185 mm
Emballage Niveau 1 Poids	1216 g
Emballage Niveau 1 EAN	7612270939565

## Commande

Quantité minimum	10 pièce
Code douanier	85364930
Pays d'origine	China (CN)

## Certificats et Déclarations (Numéro de document)

Déclaration de Conformité - CE	2CCC005102D0201
EAC Certificate	9AKK107992A1778

Informations environnementales	2CCC441012D0202
Instructions et manuels	2CCC441005M0801
Informations RoHS	2CCC413008D0206
VDE Certificate	VDE E29x_40040851

## Popular Downloads

Fiche produit, informations techniques	2CCC441020C0201
Instructions et manuels	2CCC441005M0801
Schéma dimensionnel	9AKK107992A6188

## Classifications

ETIM 7	EC000188 - Latching relay
ETIM 8	EC000188 - Latching relay
Catégorie DEEE	5. Small Equipment (No External Dimension More Than 50 cm)
DEEE B2C / B2B	Business To Consumer
CN8	85362020
eClass	V11.0 : 27142306
Code de classification d'objet	K

## Catégories

Produits basse tension → Appareillage modulaire et parafoudres → Command and Signalling Devices → Latching Relays

