

PRODUCT-DETAILS

# E290-16-20/48

## E290-16-20/48 Electromechanical latching relay



### Informations générales

Extension du type de produit	E290-16-20/48
Code de produit	2TAZ312000R2032
EAN	7612270939701
Description courte	E290-16-20/48 Electromechanical latching relay

Description longue	<p>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.</p>
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### Technique

Normes et standards	IEC/EN 60669-1 IEC/EN 60669-2-2
Fonction	Electronic for centralized control
Tension	250 V AC
Tension d'alimentation	250 ... 250 V

Tension assignée d'isolement ( $U_i$ )	48 V AC 24 V DC
Rated Control Supply Voltage ( $U_s$ )	250 V AC
Tension assignée de tenue aux chocs ( $U_{imp}$ )	4 kV
Type de tension	AC
Rated Control Circuit Voltage ( $U_c$ )	48 V AC 24 V DC
Courant nominal ( $I_n$ )	16 A
Current Rating, Main Switch	16 A
Maximum Switching Current	$\cos \phi = 0.6$ 16 A
Maximum Control Current DC	5 A
Fréquence (f)	Control Voltage 1 50 Hz
Fréquence assignée (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 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
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	2NO
Coil Consumption	Control Voltage V AC 48 V AC Average Pull-in Value 50 Hz 0.212 A Control Voltage V DC 24 V DC Average Pull-in Value 50 Hz 0.207 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 2011/65/EU and Amendment 2015/863 July 22, 2019
Informations RoHS	2CCC005102D0201

REACH Declaration	2CCC005047D0201
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
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

## Technique UL/CSA

Short-Circuit Current Rating (SCCR)	3 kA
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## 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	122 g
Profondeur d'encastrement (t <sub>2</sub> )	68 mm
Schéma dimensionnel	9AKK107992A6188

## Commande

Emballage Niveau 1 Unités	box 10 pièce
Emballage Niveau 1 Poids	1296 g
E-Number (Finland)	2712537

## Certificats et Déclarations (Numéro de document)

Déclaration de Conformité - CE	2CCC005102D0201
Declaration of Conformity - UKCA	9AKK108467A6139
EAC Certificate	9AKK107992A1778
VDE Certificate	VDE E29x_40040851

## Installation

Instructions et manuels	2CCC441005M0801
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## Downloads Préférés

Fiche produit, informations	2CCC441020C0201
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techniques

## Classifications

ETIM 8	EC000188 - Latching relay
ETIM 9	EC000188 - Latching relay
Catégorie DEEE	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer
CN8	85362020
eClass	V11.0 : 27142306
Code de classification d'objet	K

## Accessories

Identifiant	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 Switching Module	E294/24	5	piece
2TAZ312001R2013	E294/230 Central on-off Switching 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 5A, 1NO+1NC	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

## Catégories

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

