## **Product datasheet Characteristics**

## ABE7R16T210

Sub-base with plug-in electromechanical relay ABE7 - 16 channels - relay 10 mm





## **Commercial status**

Discontinued on: 22 July 2020

ABE7R16T210 has not been replaced. Please contact your customer care centre for more information.

#### (!) Discontinued

#### Main

(!) Discontinued		applications
Main		confictures of the second s
Range of product	Modicon ABE7	sr spe
Product or component type	Sub-base with plug-in electromechanical relay	cts fc
Sub-base type	Output sub-base	orodu
[Us] rated supply voltage	1930 V conforming to IEC 61131-2	
Number of channels	16	ality of th
Complementary		y or reliability
Consultance from a	DC.	

#### Complementary

DC	
ABR7S21	
1 NO	
1 LED per channel (green)channel status: 1 LED (green)power ON:	
Volt-free	
1 A internal fuse, 5 x 20 mm, fast blow (PLC end)	
By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)	
1 A	
0.3 V	
2000 V terminals/mounting rails 300 V coil circuit/contact circuits conforming to IEC 60947-1	
2.5 kV	
II conforming to IEC 60664-1	
0.6 N.m with flat Ø 3.5 mm screwdriver	
0.735 kg	
BV GL	
	ABR7S21   1 NO   1 LED per channel (green)channel status:   1 LED (green)power ON:   Volt-free   1 A internal fuse, 5 x 20 mm, fast blow (PLC end)   By clips (35 mm symmetrical DIN rail)   By screws (solid plate with fixing kit)   1 A   0.3 V   2000 V terminals/mounting rails   300 V coil circuit/contact circuits conforming to IEC 60947-1   2.5 kV   Il conforming to IEC 60664-1   0.6 N.m with flat Ø 3.5 mm screwdriver   0.735 kg

#### Environment

	CSA UL DNV LROS (Lloyds register of shipping)
IP degree of protection	IP2x conforming to IEC 60529
Resistance to incandescent wire	750 °C conforming to IEC 60695-2-11
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	2 gn (f= 10150 Hz) conforming to IEC 60068-2-6
Resistance to electrostatic discharge	4 kV (contact) level 3 conforming to IEC 61000-4-2 8 kV (air) level 3 conforming to IEC 61000-4-2
Resistance to radiated fields	10 V/m (260000001000000000 Hz) conforming to IEC 61000-4-3 level 3
Resistance to fast transients	2 kV level 3 conforming to IEC 61000-4-4
Ambient air temperature for operation	-560 °C conforming to IEC 61131-2
Ambient air temperature for storage	-4080 °C conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664-1

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	704 g
Package 1 Height	7.9 cm
Package 1 width	9.5 cm
Package 1 Length	22 cm
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Weight	8.926 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

### Offer Sustainability

Sustainable offer status	Green Premium product
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

#### Contractual warranty

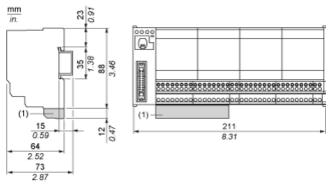
Warranty

18 months

Product datasheet Dimensions Drawings

# ABE7R16T210

Dimensions



(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Product datasheet Mounting and Clearance

# ABE7R16T210

## Mounting mm in. 1 > 7,5 > 0.30 Ч L N ۲ 2

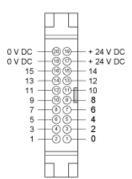
Life Is On Schneider

# Product datasheet

# ABE7R16T210

**Connections and Schema** 

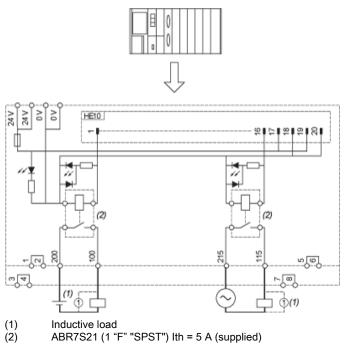
#### HE10 16 Channels

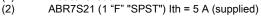


Product datasheet Connections and Schema

# ABE7R16T210

### Wiring Diagram

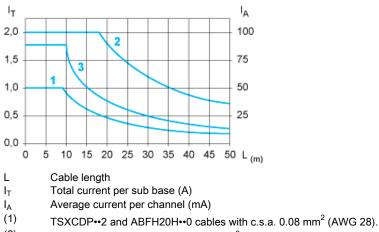




# ABE7R16T210

#### Curves for Determining Cable Type and Length According to the Current





(2) TSXCDP••3 cables with c.s.a.  $0.34 \text{ mm}^2$  (AWG 22).

(3) Cables with c.s.a.  $0.13 \text{ mm}^2$  (AWG 26).

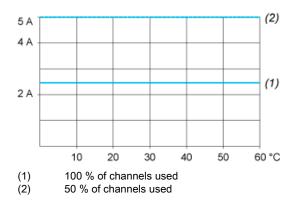
The curves are given for a voltage drop of 1 V in the cable. For n volts tolerance, multiply the length determined from the graph by n.

Product datasheet

# ABE7R16T210

Performance Curves

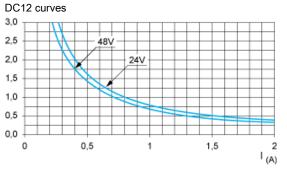
### Temperature Derating Curves



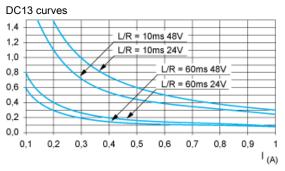
## ABE7R16T210

#### Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

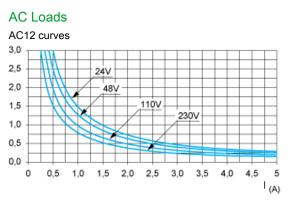
#### DC Loads

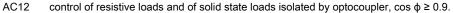


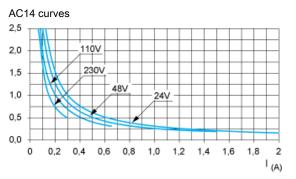
DC12 control of resistive loads and of solid state loads isolated by optocoupler, I/R ≤ 1 ms.



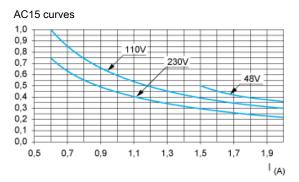
DC13 switching electromagnets, L/R ≤ 2 x (Ue x le) in ms, Ue: rated operational voltage, le: rated operational current (with a protective diode on the load, I







AC14 control of small electromagnetic loads  $\leq$  72 VA, make: cos  $\phi$  = 0.3, break: cos  $\phi$  = 0.3.



AC15 control of electromagnetic loads > 72 VA, make:  $\cos \varphi = 0.7$ , break:  $\cos \varphi = 0.4$ .