Product data sheet

Specifications

sub-base for plug-in relay ABE7 - 16 channels - relay 12.5 mm

ABE7P16F312

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon ABE7
Product or Component Type	Sub-base for plug-in relay
Sub-base type	Input sub-base
[Us] rated supply voltage	19...30 V IEC 61131-2
Number of channels	16
Number of terminal per channel	2
Connections - terminals	Screw type terminals, 1 x 0.09...1 x 1.5 mm², 0.0001…0.002 in² (0.09…1.5 mm²) AWG 28...AWG 16) flexible with cable end Screw type terminals, 1 x 0.14...1 x 2.5 mm², 0.0002…0.004 in² (0.14…2.5 mm²) AWG 26...AWG 12) solid Screw type terminals, 1 x 0.14...1 x 2.5 mm², 0.0002…0.004 in² (0.14…2.5 mm²) AWG 26...AWG 14) flexible without cable end Screw type terminals, 2 x 0.09...2 x 0.75 mm², 0.0001…0.001 in² (0.09…0.75 mm²) AWG 28...AWG 20) flexible with cable end Screw type terminals, 2 x 0.2...2 x 2.5 mm², 0.0003…0.004 in² (0.2…2.5 mm²) AWG 24...AWG 14) solid

Complementary

supply voltage type	DC
Product Compatibility	ABR7 ABS7S33E ABS7E
Status LED	1 LED per channel (Green) channel status 1 LED (Green) power ON
Isolation PLC/operative part	Yes
Polarity distribution	Polarity distribution contact common per group of 4 channels
Short-circuit protection	1 A internal fuse, 5 x 20 mm, fast blow PLC end)
Fixing mode	By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)
Maximum supply current	1 A
Voltage drop on power supply fuse	0.3 V
[Uimp] rated impulse withstand voltage	2.5 kV
[Ui] rated insulation voltage	300 V coil circuit/contact circuits IEC 60947-1 2000 V terminals/mounting rails
Installation category	II IEC 60664-1
Tightening torque	5.3 lbf.in (0.6 N.m) flat Ø 3.5 mm
Net Weight	1.87 lb(US) (0.85 kg)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Environment

Product Certifications	DNV GL CSA EAC
IP degree of protection	IP2X conforming to IEC 60529
Resistance to incandescent wire	1382 °F (750 °C) IEC 60695-2-11
Shock resistance	15 gn 11 ms IEC 60068-2-27
Vibration resistance	2 gn (f= 10…150 Hz) conforming to IEC 60068-2-6
Resistance to electrostatic discharge	4 kV contact) level 3 IEC 61000-4-2 8 kV air) level 3 IEC 61000-4-2
Resistance to radiated fields	9.1 V/m (10 V/m) 26000000…1000000000 Hz)IEC 61000-4-3 level 3
Resistance to fast transients	2 kV level 3 IEC 61000-4-4
Ambient air temperature for operation	23…140 °F (-5…60 °C) IEC 61131-2
Ambient air temperature for storage	-40…176 °F (-40…80 °C) IEC 61131-2
Pollution degree	2 IEC 60664-1

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3389110705171
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.35 in (8.5 cm)
Package 1 Width	3.94 in (10.0 cm)
Package 1 Length	11.50 in (29.2 cm)
Package 1 Weight	27.7 oz (786.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	11.334 lb(US) (5.141 kg)

Contractual warranty

Warranty	18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	1042
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	1bbe7d20-74c0-4e7e-b98b-d2946f4ab8b4
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

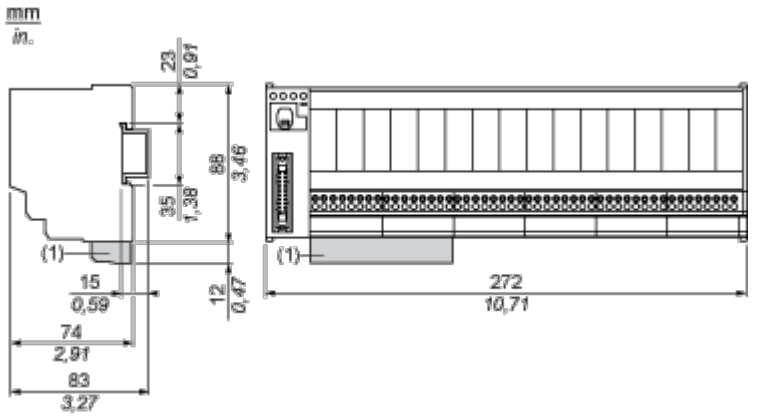
Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

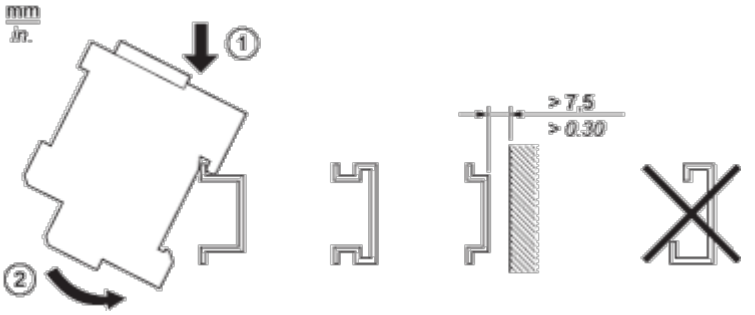
Dimensions



(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

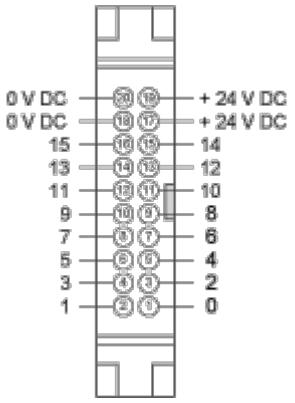
Mounting and Clearance

Mounting

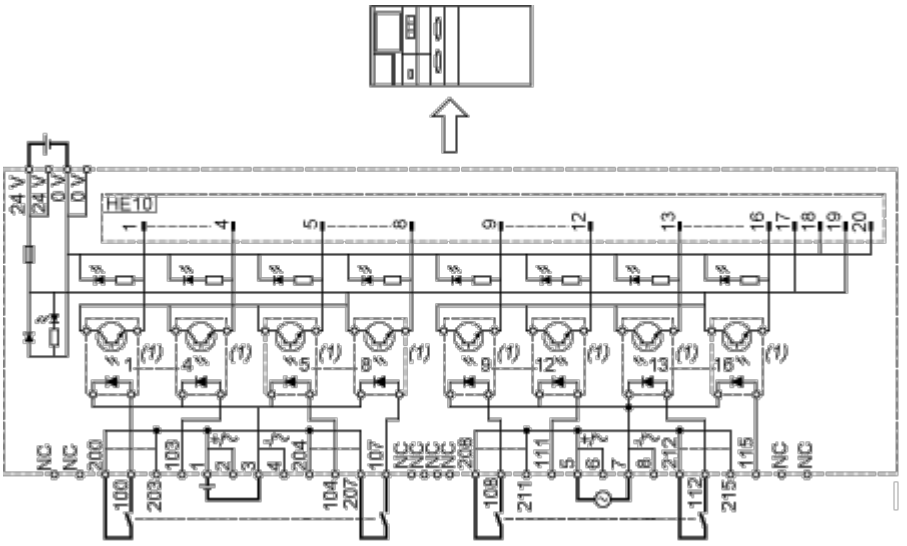


Connections and Schema

HE10 16 Channels

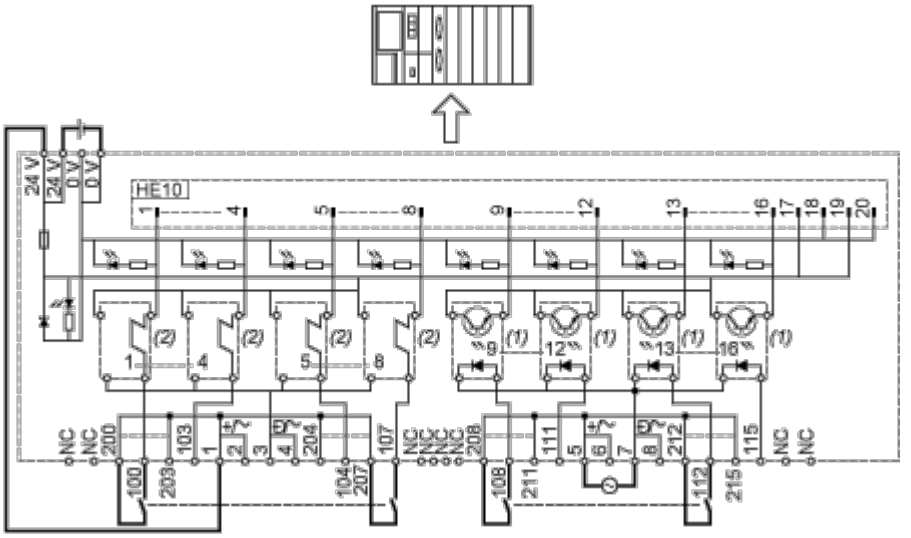


Wiring Diagram



(1) ABS7EC3AL (5 VDC TTL) / ABS7EC3B2 (24 VDC) / ABS7EC3E2 (48 VDC) / ABS7EA3E5 (48 VAC) / ABS7EA3F5 (110/130 VAC) / ABS7EA3M5 (230/240 VAC) (not supplied)

Wiring Diagram



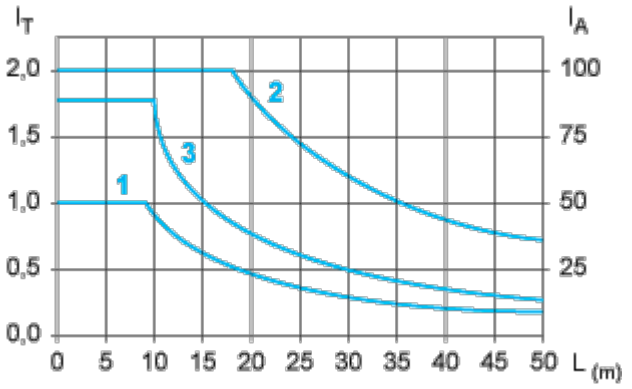
(1) ABS7EC3AL (5 VDC TTL) / ABS7EC3B2 (24 VDC) / ABS7EC3E2 (48 VDC) / ABS7EA3E5 (48 VAC) / ABS7EA3F5 (110/130 VAC) / ABS7EA3M5 (230/240 VAC) (not supplied)

(2) ABE7ACC21 (24 VDC) (not supplied / not isolated)

Performance Curves

Curves for Determining Cable Type and Length According to the Current

16-channel Sub-base



L Cable length

I_T Total current per sub base (A)

I_A Average current per channel (mA)

(1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm^2 (AWG 28).

(2) TSXCDP••3 cables with c.s.a. 0.34 mm^2 (AWG 22).

(3) Cables with c.s.a. 0.13 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.

Image of product / Alternate images

Alternative