# Disclaimer. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

# passive connection sub-base ABE7 - 16 inputs or outputs

ABE7H16R20

### Main

Range of product	Modicon ABE7	
Product or component type	Passive discrete I/O sub-base	
Sub-base type	I/O sub-base	
[Us] rated supply voltage	1930 V conforming to IEC 61131-2	
Number of channels	16	
Number of terminal per channel	2	
Connections - terminals	Screw type terminals, 1 x 0.091 x 1.5 mm² (AWG 28AWG 16) flexible with cable end	
	Screw type terminals, 1 x 0.141 x 2.5 mm <sup>2</sup> (AWG 26AWG 12) solid	
	Screw type terminals, 1 x 0.141 x 2.5 mm² (AWG 26AWG 14) flexible without cable end	
	Screw type terminals, 2 x 0.092 x 0.75 mm² (AWG 28AWG 20) flexible with cable end	

## Complementary

DC	
2	
1 LED (green) power ON	
0 V or 24 V	
2 A internal fuse, 5 x 20 mm, fast blow (PLC end)	
SUB-D 15 HE-10 SUB-D 9	
20 pins	
By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)	
1.8 A	
0.5 A	
1.8 A	
0.3 V	
2000 V	
II conforming to IEC 60664-1	
0.6 N.m with flat Ø 3.5 mm screwdriver	
125 mm	
0.3 kg	

### **Environment**

Product certifications	GL	
	DNV	
	CSA	
	UL	
	EAC	
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	4 kV (contact) level 3 conforming to IEC 61000-4-2	
discharge	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 Height	7.0 cm
Package 1 Width	8.2 cm
Package 1 Length	13.6 cm
Package 1 Weight	299.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	9
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.029 kg

# **Contractual warranty**

Warranty 18 months



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	
Total lifecycle Carbon footprint	1037
Environmental Disclosure	Product Environmental Profile

### **Use Better**

<b>⊗</b> 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

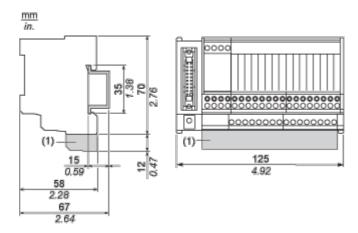
### **Use Again**

○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

### **ABE7H16R20**

### **Dimensions Drawings**

### **Dimensions**

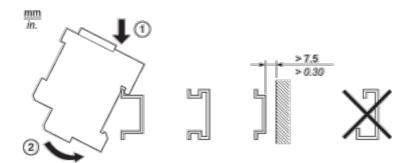


(1) ABE7BV20 / ABE7BV20E

### **ABE7H16R20**

Mounting and Clearance

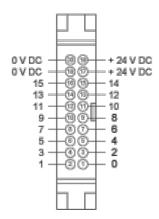
### Mounting



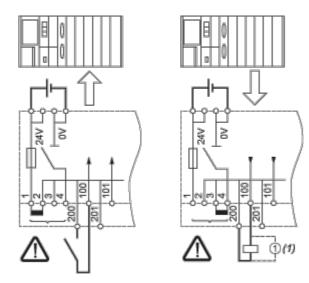
### **ABE7H16R20**

Connections and Schema

### HE10 16 Channels



### Wiring Diagrams

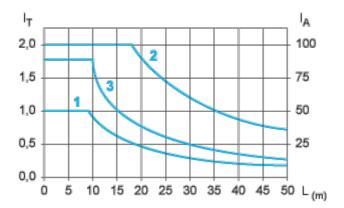


(1) Inductive load

### Performance Curves

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

### 16-channel Sub-base



- L Cable length
- $I_{\mathsf{T}}$  Total current per sub base (A)
- I<sub>A</sub> Average current per channel (mA)
- (1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm<sup>2</sup> (AWG 28).
- (2) TSXCDP••3 cables with c.s.a. 0.34 mm<sup>2</sup> (AWG 22).
- (3) Cables with c.s.a. 0.13 mm<sup>2</sup> (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 data sheet

### **ABE7H16R20**

Image of product / Alternate images

### **Alternative**

