

Sub-base with plug-in electromechanical relay ABE7, 16 channels, relay 5 mm

ABE7R16T111

Main

Range Of Product	Modicon ABE7
Product Or Component Type	Sub-base with plug-in electromechanical relay
Sub-Base Type	Output sub-base
[Us] Rated Supply Voltage	1930 V conforming to IEC 61131-2
Number Of Channels	16
Connections - Terminals	Screw type terminals, 1 x 0.141 x 1.5 mm² (AWG 26AWG 16) flexible with cable end
	Screw type terminals, 1 x 0.141 x 2.5 mm² (AWG 26AWG 14) flexible without cable end
	Screw type terminals, 1 x 0.141 x 4 mm ² (AWG 26AWG 12) solid
	Screw type terminals, 2 x 0.142 x 0.75 mm² (AWG 26AWG 18) flexible with cable end
	Screw type terminals, 2 x 0.142 x 1.5 mm² (AWG 26AWG 16) solid

Complementary

Supply Voltage Type	DC
Product Compatibility	ABR7S11
Contacts Type And Composition	1 NO
Status Led	1 LED power ON 1 LED per channel channel status
Polarity Distribution	Common distribution group of 4
Short-Circuit Protection	1 A internal fuse, 5 x 20 mm, fast blow (PLC end)
Mounting Mode	By clips (35 mm DIN rail) By screws (surface mount with kit)
Maximum Supply Current	1 A
Voltage Drop On Power Supply Fuse	0.3 V
Maximum Current Per Output Common	5 A screw type terminals
[Ui] Rated Insulation Voltage	2000 V between terminals/mounting rails 300 V between coil circuit/contact circuits conforming to IEC 60947-1
Maximum Current Per Module	12 A
[Uimp] Rated Impulse Withstand Voltage	2.5 kV
Installation Category	II conforming to IEC 60664-1
Tightening Torque	0.6 N.m with flat Ø 3.5 mm screwdriver
Net Weight	0.6 kg

Environment

Product Certifications	CSA
Froduct Certifications	
	UL
	DNV
	GL
	EAC
Ip Degree Of Protection	IP2X conforming to IEC 60529
Resistance To Incandescent Wire	750 °C, extinction time <30 s conforming to IEC 60695-2-11
Shock Resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Vibration Resistance	2 gn conforming to IEC 60068-2-6 (f = 10150 Hz)
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
	8 KV (all) level 3 collidiffilling 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 cm
Package 1 Width	8.2 cm
Package 1 Length	13.7 cm
Package 1 Weight	312 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	24
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.902 kg

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

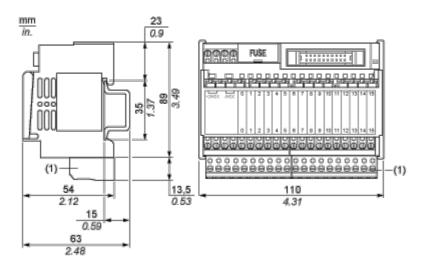
Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information
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

ABE7R16T111

Dimensions Drawings

Dimensions

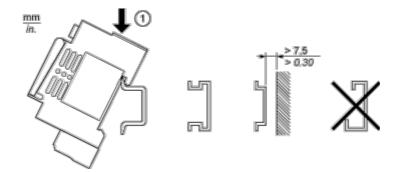


(1) ABE7BV10 / BV20

ABE7R16T111

Mounting and Clearance

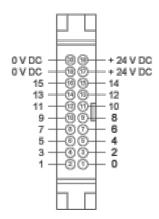
Mounting



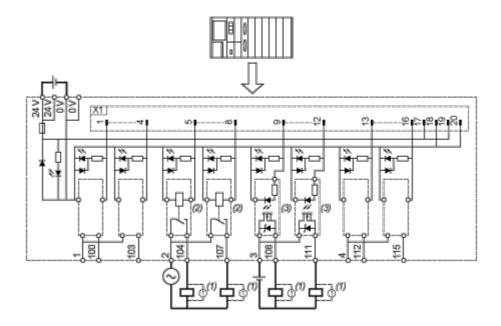
ABE7R16T111

Connections and Schema

HE10 16 Channels



Wiring Diagram

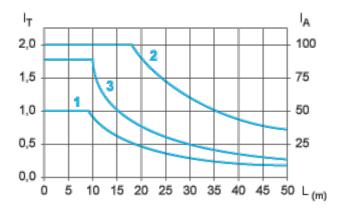


- (1) Inductive load
- (2) ABR7S11 (1F) N/O Ith = 6 A (supplied for ABE7R16T111 and not supplied for ABE7P16T111)
- (3) ABS7SC1B 24 V DC Imax. = 2 A (not supplied)

Performance Curves

Curves for Determining Cable Type and Length According to the Current

16-channel Sub-base

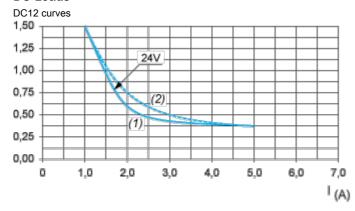


- L Cable length
- I_{T} Total current per sub base (A)
- I_A Average current per channel (mA)
- (1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm² (AWG 28).
- (2) TSXCDP••3 cables with c.s.a. 0.34 mm² (AWG 22).
- (3) Cables with c.s.a. 0.13 mm² (AWG 26).

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.

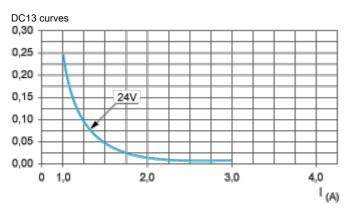
Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

DC Loads



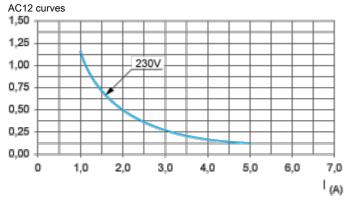
DC12 control of resistive loads and of solid state loads isolated by optocoupler, $I/R \le 1$ ms.

- (1) Resistive loads
- (2) Inductive loads



DC13 switching electromagnets, $L/R \le 2 \times (Ue \times Ie)$ in ms, Ue: rated operational voltage, Ie: rated operational current (with a protective diode on the load, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)

AC Loads

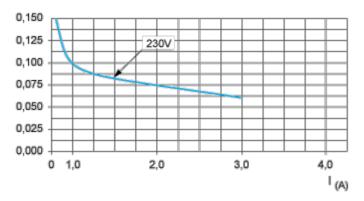


AC12 control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \ge 0.9$.

AC15 curves

Product data sheet

ABE7R16T111



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