ABE7R16T370

Sub-base with plug-in electromechanical relay ABE7 - 16 channels - relay 12.5 mm



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 IEC 61131-2
Number of Channels	16

Complementary

Supply voltage type	DC	
Product Compatibility	ABR7S37	
Status LED	Channel status 1 LED per channel Green) Power ON 1 LED Green)	
Polarity distribution	Volt-free	
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	
[Ui] rated insulation voltage	2000 V terminals/mounting rails 300 V coil circuit/contact circuits IEC 60947-1	
[Uimp] rated impulse withstand voltage	2.5 kV	
Installation category	II IEC 60664-1	
Tightening torque	5.31 lbf.in (0.6 N.m) flat Ø 3.5 mm	
Net Weight	2.87 lb(US) (1.3 kg)	

Environment

Product Certifications	DNV
Froduct Certifications	LROS (Lloyds register of shipping)
	BV
	CSA
	GL
	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 10150 Hz)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	9.14 V/m (10 V/m) 260000001000000000 Hz)IEC 61000-4-3 level 3
Resistance to fast transients	2 kV level 3 IEC 61000-4-4
Ambient air temperature for operation	23140 °F (-560 °C) IEC 61131-2
Ambient air temperature for storage	-40176 °F (-4080 °C) IEC 61131-2
Pollution degree	2 IEC 60664-1

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Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3389110705119
Nbr. of units in pkg.	1
Package weight(Lbs)	2.60 lb(US) (1.181 kg)
Returnability	No
Country of origin	LV

Packing Units

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Unit Type of Package 1	PCE
Package 1 Height	3.35 in (8.5 cm)
Package 1 width	3.94 in (10 cm)
Package 1 Length	11.50 in (29.2 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Weight	16.66 lb(US) (7.557 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

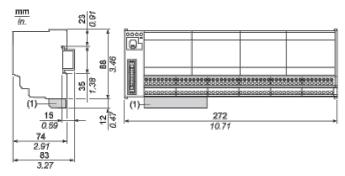
Offer Sustainability

Sustainable offer status	Green Premium product	
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	
REACh Regulation	REACh Declaration	
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	
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Dimensions

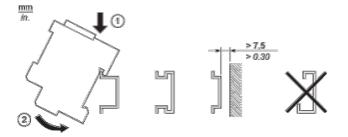


(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Product data sheet Mounting and Clearance

ABE7R16T370

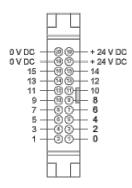
Mounting



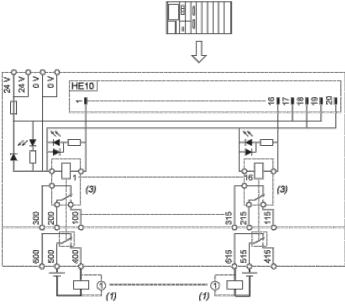
Product data sheet Connections and Schema

ABE7R16T370

HE10 16 Channels



Wiring Diagram with Other Relays not Supplied

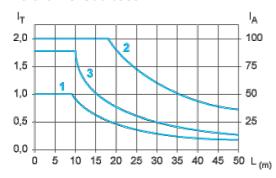


- (1) Inductive load
- (3) ABR7S37 (2 "OF" "DPDT") Ith = 8 A (supplied)

ABE7R16T370

Curves for Determining Cable Type and Length According to the Current

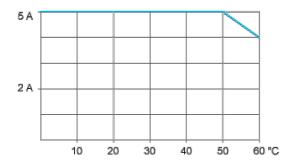
16-channel Sub-base



- 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.

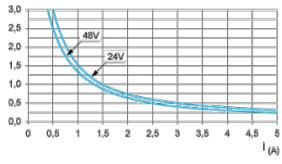
Temperature Derating Curves



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

DC Loads

DC12 curves



DC12control of resistive loads and of solid state loads isolated by optocoupler, $I/R \le 1$ ms.

DC13 curves 2,00 1,78 1,50 1,50 1,25 1,00 0,75 0,50 0,25 0,00

1,5

DC13 Switching electromagnets, L/R ≤ 2 x (Ue x 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)

2,5

1_(A)

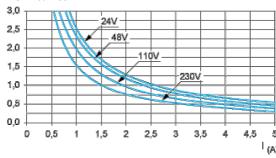
2

AC Loads

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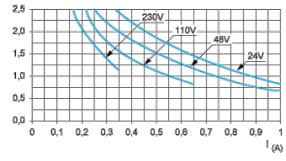
0,5

AC12 curves



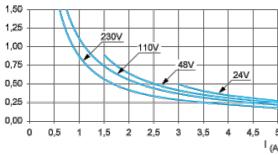
AC12control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \ge 0.9$.

AC14 curves



AC14control of small electromagnetic loads \leq 72 VA, make: $\cos \varphi = 0.3$, break: $\cos \varphi = 0.3$.

AC15 curves



AC15control of electromagnetic loads > 72 VA, make: $\cos \phi = 0.7$, break: $\cos \phi = 0.4$.