



Main

Range of product	Modicon ABE7
Product or Component Type	Electromechanical output relay sub-base
[Us] rated supply voltage	24 V DC PLC end
Number of channels	8
Number of terminal per channel	2

Complementary

Terminal block type	Removable
Polarity distribution	Volt-free
Fixing mode	By clips 35 mm symmetrical DIN rail) By screws solid plate with fixing kit)
Width	4.92 in (125 mm)
Maximum current per output common	10 A
Current per channel	5 A preactuator end
Minimum switching current	10 mA $\geq$ 5 V
Drop-out voltage	2.4 V 68 °F (20 °C) PLC end)
Switching frequency	$\leq$ 0.5 Hz $\leq$ 10 Hz
Threshold tripping voltage	19.7 V 104 °F (40 °C)
Drop-out current	1 mA 68 °F (20 °C)
Maximum power dissipation per channel in W	0.36 W PLC end)
Contacts type and composition	1 NO preactuator end
Maximum switching voltage	250 V AC 50/60 Hz IEC 60947-5-1 30 V DC IEC 60947-5-1
Electrical durability	500000 Cycles 600 mA 24 V DC-13 10 ms preactuator end) 500000 Cycles 1500 mA 230 V AC-12 preactuator end) 500000 Cycles 1500 mA 24 V DC-12 preactuator end) 500000 cycles 900 mA 230 V AC-15 preactuator end)
Electrical reliability	1e-008
Operating time	$\leq$ 10 ms coil energisation and NO closing $\leq$ 5 ms coil de-energisation and NO opening
Contact bounce time	$\leq$ 5 ms 1 NO
Operating rate in Hz	10 Hz no load 0.5 Hz at Ie
Mechanical durability	20000000 cycles
[Uimp] rated impulse withstand voltage	2.5 kV IEC 60947-1
[Ui] rated insulation voltage	2000 V
Installation category	II IEC 60664-1
Tightening torque	5.31 lbf.in (0.6 N.m) flat Ø 3.5 mm
Product Weight	0.99 lb(US) (0.448 kg)

Environment

Max immunity to microbreaks	5 ms
Dielectric strength	2000 V IEC 60947-1
Product Certifications	UL DNV CSA GL BV LROS (Lloyds register of shipping) EAC
IP degree of protection	IP2x conforming to IEC 60529
Protective treatment	TC
Resistance to incandescent wire	1382 °F (750 °C) 30 s IEC 60695-2-11
Shock resistance	15 gn 11 ms IEC 60068-2-27
Resistance to radiated fields	9.14 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	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3389110545265
Nbr. of units in pkg.	1
Package weight(Lbs)	12.52 oz (355 g)
Returnability	No
Country of origin	LV

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.83 in (7.2 cm)
Package 1 width	3.23 in (8.2 cm)
Package 1 Length	5.39 in (13.7 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	9
Package 2 Weight	7.87 lb(US) (3.572 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

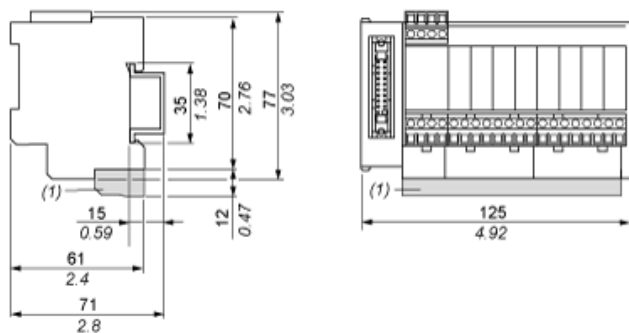
Offer Sustainability

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

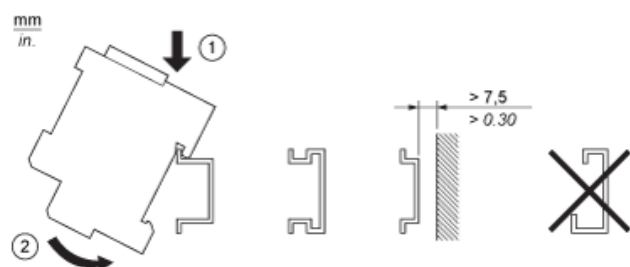
Dimensions

mm
in.

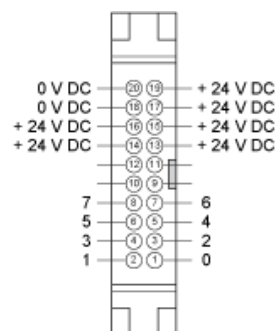


(1) ABE7BV10 / ABE7BV10E

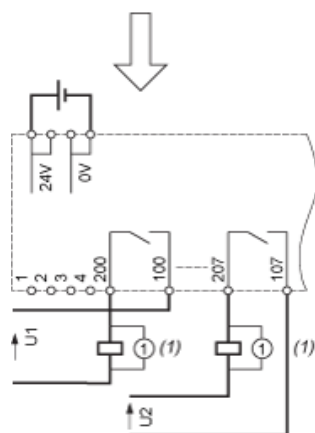
Mounting



HE10 8 Channels



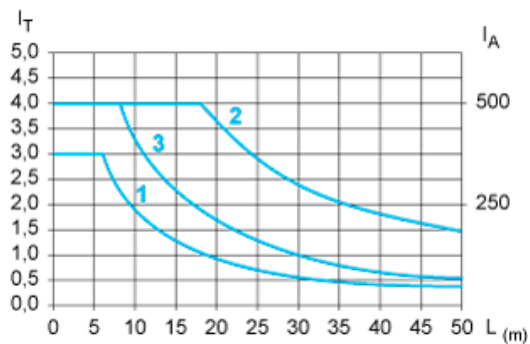
Wiring Diagram



(1) Inductive load

Curves for Determining Cable Type and Length According to the Current

8-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).

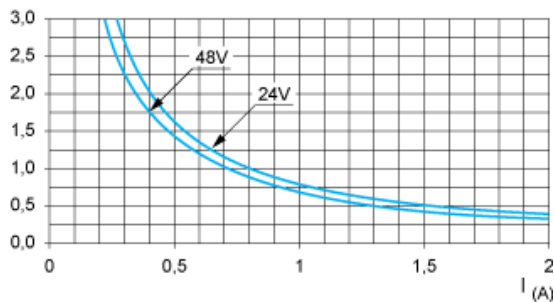
(3) Cables with c.s.a. 0.13 mm² (AWG 26).

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

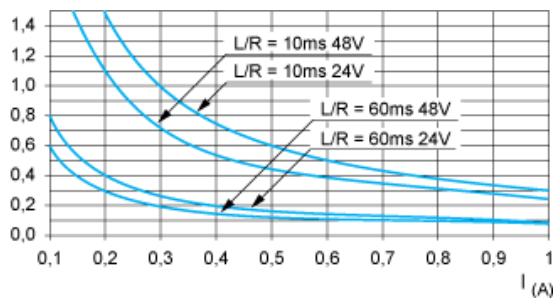
DC Loads

DC12 curves



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

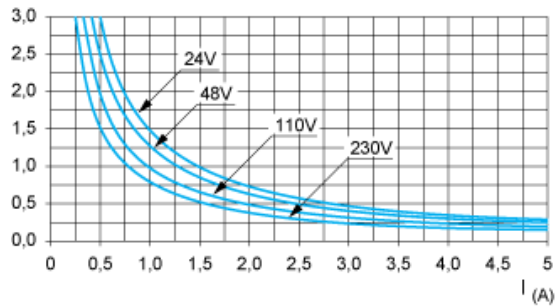
DC13 curves



DC13switching electromagnets, $L/R \leq 2 \times (U_e \times I_e)$ in ms, U_e : rated operational voltage, I_e : 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)

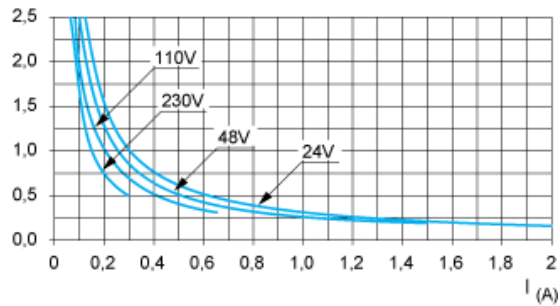
AC Loads

AC12 curves



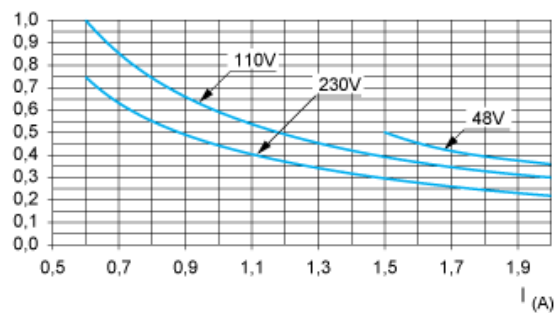
AC12control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \geq 0.9$.

AC14 curves



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

AC15 curves



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

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