Product data sheet Characteristics

ABE7R16T231

sub-base - soldered electromechanical relays ABE7 - 16 channels - relay 10 mm

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

Price*: 986.00 USD



Main	
Commercial Status	Commercialised
Range of product	Advantys Telefast 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

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Supply circuit type	DC
Product compatibility	ABR7S23
Contacts type and composition	1 C/O
Status LED	1 LED, green power ON 1 LED per channel, green channel status
Polarity distribution	Polarity distribution contact common per group of 8 channels
Short circuit protection	0.5 A fuse per channel, 5 x 20 mm, fast blow (output circuit) 1 A internal fuse, 5 x 20 mm, fast blow (PLC end)
Fixing mode	By screws on solid plate with fixing kit By clips on 35 mm symmetrical DIN rail
Supply current	<= 1 A
Voltage drop on power supply fuse	0.3 V
[Ui] rated insulation voltage	300 V between coil circuit/contact circuits conforming to IEC 60947-1 2000 V between terminals/mounting rails
[Uimp] rated impulse withstand voltage	2.5 kV
Installation category	II conforming to IEC 60664-1
Tightening torque	5.31 lbf.in (0.6 N.m) (withflat Ø 3.5 mm
Product weight	1.61 lb(US) (0.73 kg)

Environment

BV			
CSA			
DNV			
GL			
LROS (Lloyds register of shipping)			
UL			
IP2x conforming to IEC 60529			
1382 °F (750 °C) conforming to IEC 60695-2-11			
15 gn 11 ms conforming to IEC 60068-2-27			
2 gn (f = 10150 Hz) conforming to IEC 60068-2-6			
8 kV (air) conforming to IEC 61000-4-2 level 3			
4 kV (contact) conforming to IEC 61000-4-2 level 3			
9.14 V/yd (10 V/m) (260000001000000000 Hz) conforming to IEC 61000-4-3 level 3			

Resistance to fast transients	2 kV conforming to IEC 61000-4-4 level 3	
Ambient air temperature for operation	23140 °F (-560 °C) conforming to IEC 61131-2	
Ambient air temperature for storage	-40176 °F (-4080 °C) conforming to IEC 61131-2	
Pollution degree	2 conforming to IEC 60664-1	

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)	
Discount Schedule	CP2	
GTIN	00785901380108	
Nbr. of units in pkg.	1	
Product availability	Non-Stock - Not normally stocked in distribution facility	
Returnability	N	
Country of origin	LV	

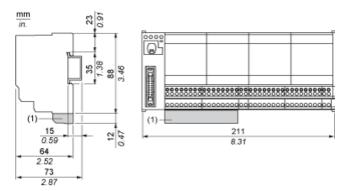
Contractual warranty

Warranty period	18 months



ABE7R16T231

Dimensions

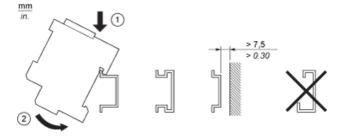


(1) ABE7BV10 / BV20, ABE7BV10E / BV20E

Product data sheet Mounting and Clearance

ABE7R16T231

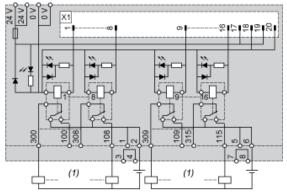
Mounting



Product data sheet Connections and Schema

ABE7R16T231

Wiring Diagram

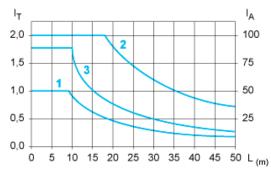


(1) 8 channels

ABE7R16T231

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).

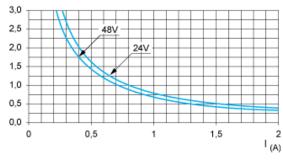
The curves are given for a voltage drop of 1 V in the cable. For n volts tolerance, multiply the length determined from the graph by n.

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

Multiply all durability values by 0.75 for ABR7S23.

DC Loads

DC12 curves



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

DC13 curves 1,4 1,2 1,0 0,8 0,6 0,4 0,2 0,0 0,1 0,2 0,3 0,4 0,5 0,6 0,7 0,8 0,9 1 (A)

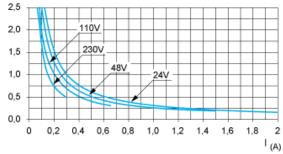
DC13switching electromagnets, L/R ≤ 2 x (Ue x Ie) in ms, Ue: rated operational voltage, Ie: rated operational current (with a protective diode on the load, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)

AC Loads

AC12 curves 3,0 2,5 24V 2,0 48V 110V 1,5 1.0 0,5 1,5 2,5 3,0 0 0,5 1,0 2,0 3,5 4,5 4.0 1_(A)

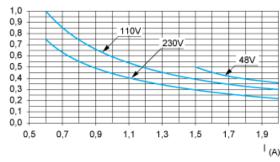
AC12control of resistive loads and of solid state loads isolated by optocoupler, $\cos \phi \ge 0.9$.





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: $\cos \phi = 0.4$.