

# sub-base - soldered electromechanical relays ABE7 - 8 channels - relay 5 mm

Local distributor code: 402703316 ABE7R08S111

EAN Code: 3389110545258

## Main

Range of product	Modicon ABE7	
Product or component type	Electromechanical output relay sub-base	
[Us] rated supply voltage	24 V DC for PLC end	
Number of channels	8	
Number of terminal per channel	1	

# **Complementary**

Terminal block type	Removable  Polarity distribution contact common per group of 4 channels  By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)	
Polarity distribution		
Fixing mode		
Maximum current per output common	12 A	
Current per channel	2 A for preactuator end	
Minimum switching current	1 mA at >= 5 V	
Drop-out voltage	2.4 V at 20 °C (PLC end)	
Threshold tripping voltage	19.2 V at 40 °C	
Drop-out current	0.5 mA at 20 °C	
Maximum power dissipation per channel in W	0.22 W (PLC end)	
Contacts type and composition	1 NO for preactuator end	
Maximum switching voltage	250 V AC 50/60 Hz conforming to IEC 60947-5-1 30 V DC conforming to IEC 60947-5-1	
Number of channel per common	4	
Electrical durability	500000 cycles, maximum switching current: 200 mA at 24 V DC-13 10 ms (preactuator end) 500000 cycles, maximum switching current: 400 mA at 230 V AC-15 (preactuator end) 500000 cycles, maximum switching current: 600 mA at 230 V AC-12 (preactuator end) 500000 cycles, maximum switching current: 600 mA at 24 V DC-12 (preactuator end)	
Electrical reliability	1e-008	
Operating time	<= 10 ms coil energisation and NO closing <= 6 ms coil de-energisation and NO opening	
Contact bounce time	<= 5 ms 1 NO	
Operating rate in Hz	10 Hz no load 0.5 Hz at le	
Mechanical durability	20000000 cycles	

[Uimp] rated impulse withstand voltage	2.5 kV conforming to IEC 60947-1	
[Ui] rated insulation voltage	2000 V	
Installation category	II conforming to IEC 60664-1	
Tightening torque	0.6 N.m with flat Ø 3.5 mm screwdriver	
Width	84 mm	
Net weight	0.252 kg	

# **Environment**

Max immunity to microbreaks	5 ms	
Dielectric strength	2000 V conforming to IEC 60947-1	
Product certifications	DNV	
	UL	
	GL	
	CSA	
	EAC	
IP degree of protection	IP2X conforming to IEC 60529	
Protective treatment	TC	
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	
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	8.3 cm
Package 1 Length	9.7 cm
Package 1 Weight	236.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	18
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.768 kg

# **Logistical informations**

Country of origin

# **Contractual warranty**

Warranty

1 Jul 2025

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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	1037
Environmental Disclosure	Product Environmental Profile

### **Use Better**

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

### **Use Again**

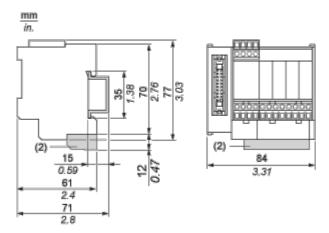
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

# **Product datasheet**

# ABE7R08S111

## **Dimensions Drawings**

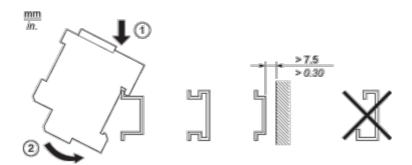
### **Dimensions**



(2) ABE7BV20 / ABE7BV20E

Mounting and Clearance

## Mounting

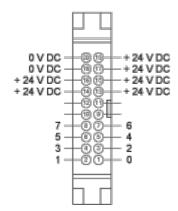


# **Product datasheet**

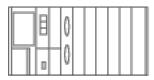
### ABE7R08S111

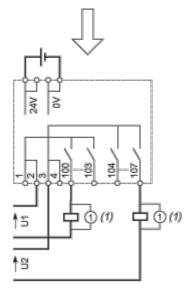
Connections and Schema

### HE10 8 Channels



## Wiring Diagram



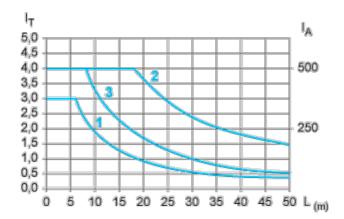


(1) Inductive load

#### Performance Curves

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

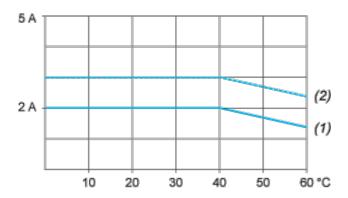
#### 8-channel Sub-base



- L Cable length
- I<sub>T</sub> 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.

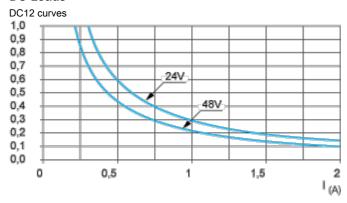
## **Temperature Derating Curves**



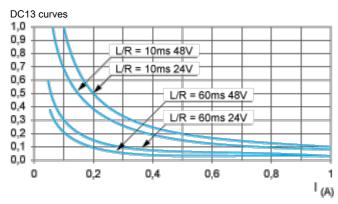
- (1) 100 % of channels used
- (2) 50 % of channels used

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

#### **DC Loads**

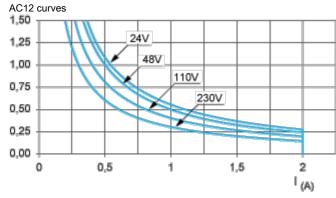


DC12 control of resistive loads and of solid state loads isolated by optocoupler,  $I/R \le 1$  ms.



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**

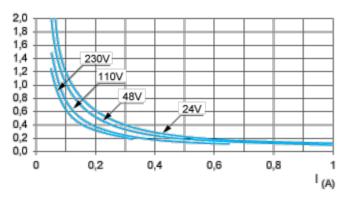


AC12 control of resistive loads and of solid state loads isolated by optocoupler,  $\cos \phi \ge 0.9$ .

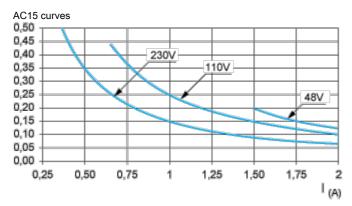
AC14 curves

# **Product datasheet**

### ABE7R08S111



AC14 control of small electromagnetic loads  $\leq$  72 VA, make:  $\cos \varphi = 0.3$ , break:  $\cos \varphi = 0.3$ .



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