## **ABR1S111F**

# output interface module - 17.5 mm - electromechanical - 110 V AC - 1 NO





#### Main

Range of Product	Interface for discrete signals
Product or Component Type	Electromechanical output interface module
Contacts type and composition	1 NO
[Uc] control circuit voltage	115127 V
Control circuit type	AC
Control circuit frequency	50/60 Hz
Width pitch dimension	0.69 in (17.5 mm)
Maximum [In] rated current	8 mA AC
Reverse polarity protection	Without
Short-circuit protection	16 A external fuse gF lk <= 2.5 kA AC and lk <= 100 A DC)
	16 A external fuse gG lk <= 2.5 kA AC and lk <= 100 A DC)
[lth] conventional free air thermal current	12 A IEC 60947-1
Local signalling	Green mechanical indicator for position of contacts 1 green LED control signal state

#### Complementary

Grey	
ct ct	
6 Hz at no-load 0.5 Hz at le	

Flame retardance	V0 conforming to UL 94	
Cable cross section	0.000.00 In² (0.342.5 mm²), 1 or 2 wires flexible with cable end 0.000.00 In² (0.62.5 mm²), 1 or 2 wires flexible without cable end 0.000.00 In² (0.272.5 mm²), 2 wires rigid 0.000.01 in² (0.274 mm²), 1 wire rigid	
Operating position	Any position	
Installation category	II IEC 60947-1	
Mounting Support	Combination rail Symmetrical DIN rail Asymmetrical DIN rail	
Net Weight	0.21 lb(US) (0.095 kg)	

#### Environment

Immunity to microbreaks	6 ms
Dielectric strength	1500 V for 1 minute between independent contacts 2500 V for 1 minute between wired interface and earth 4000 V for 1 minute between coil circuit and contact circuits
Standards	IEC 60947-5-1
Product Certifications	DNV BV UL CSA LROS (Lloyds register of shipping)
IP degree of protection	IP20 conforming to IEC 60529
Protective treatment	TC
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Shock resistance	50 gn 11 ms IEC 60068-2-27
Vibration resistance	6 gn 1055 Hz)IEC 60068-2-6
Electromagnetic compatibility  1.2/50 ms shock waves immunity test IEC 255-4 Electrostatic discharge immunity test, level 3 8 kV IEC 61000-4-2 Rapid transients immunity test on input/output 1 kV IEC 61000-4-4 Rapid transients immunity test on power supply 2 kV IEC 61000-4-	
Ambient Air Temperature for Operation	-4140 °F (-2060 °C) at Un 23104 °F (-540 °C) unrestricted operation
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)
Operating altitude	<= 9842.52 ft (3000 m)
Pollution degree	3 IEC 60947-5-1

### Ordering and shipping details

22375 - INTERFACE MODULE(ABA,R,S)	
CP2	
3389110569698	
1	
3.28 oz (93 g)	
No	
FR	

### Packing Units

3 - 3		
Unit Type of Package 1	PCE	
Package 1 Height	0.71 in (1.8 cm)	
Package 1 width	2.76 in (7 cm)	
Package 1 Length	3.07 in (7.8 cm)	
Unit Type of Package 2	BB1	
Number of Units in Package 2	Package 2 5	
Package 2 Weight	17.39 oz (493 g)	
Package 2 Height	2.95 in (7.5 cm)	
Package 2 width	3.58 in (9.1 cm)	
Package 2 Length	4.72 in (12 cm)	
Unit Type of Package 3	S02	
Number of Units in Package 3	50	

Dockogo 2 Weight	11 24 lb/(JC) /5 142 kg)	
Package 3 Weight	11.34 lb(US) (5.142 kg)	
Package 3 Height	5.91 in (15 cm)	
Package 3 width	11.81 in (30 cm)	
Package 3 Length	15.75 in (40 cm)	
Offer Sustainability		
ustainable offer status Green Premium product		
California proposition 65	lifornia proposition 65 WARNING: This product can expose you to chemicals including: Nickel	

stainable offer status Green Premium product		
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
REACh Regulation	REACh Declaration	
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	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	

Contractual	warrantv

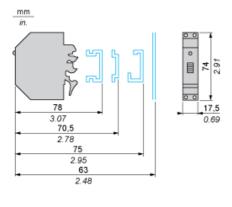
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Warranty	10 mon	the
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# Product data sheet Dimensions Drawings

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#### Electromechanical Interface Module

#### **Dimensions**

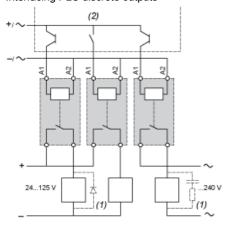


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#### Electromechanical Interface Module

#### Example of Application with PLC

Interfacing PLC discrete outputs

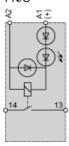


- (1) Essential on inductive loads (can be replaced with peak limiter)
- (2) PLC positive logic transistor (or relay) outputs

#### Interface with Mechanical Indication + LED

#### Circuit Diagram

1 N/O



# Product data sheet Performance Curves

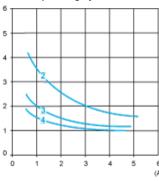
### **ABR1S111F**

#### **Electrical Durability of Contacts**

#### AC Loads

Test conditions: in accordance with standard IEC 947-5-1 set up for rated control voltage, operating rate: 1800 cycles/hour. (0.5 Hz).

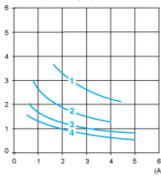
AC-12 operating cycles in millions



AC-12Control of resistive loads and isolated solid state loads via optocoupler ( $\cos \phi \ge 0.9$ )

- (1) 24 V
- (2) 48 V
- (3) 127 V
- (4) 230 V

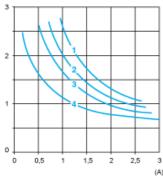
AC-13 operating cycles in millions



AC-13Control of isolated solid state loads via transformer (cos  $\phi \ge 0.65$ )

- (1) 24 V
- (2) 48 V
- (3) 127 V
- (4) 230 V

AC-14 and AC-15 operating cycles in millions



AC-14Control of weak electromagnetic loads of electromagnets  $\leq$  72 VA (make:  $\cos \varphi = 0.3$ , break:  $\cos \varphi = 0.3$ )

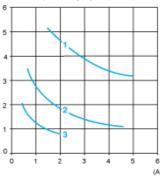
AC-15Control of electromagnetic loads of electromagnets > 72 VA (make:  $\cos \phi = 0.7$ , break:  $\cos \phi = 0.4$ )

- (1) 24 V
- (2) 48 V
- (3) 127 V
- (4) 230 V

#### DC Loads

Test conditions: in accordance with standard IEC 947-5-1 set up for rated control voltage, operating rate: 1800 cycles/hour. (0.5 Hz).

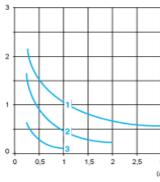
DC-12 operating cycles in millions



DC-1 $\mathfrak{L}$ ontrol of resistive loads and isolated solid state loads via optocoupler (L/R  $\leq$  1 ms)

- (1) 24 V
- (2) 48 V
- (3) 127 V

DC-13 operating cycles in millions



DC-1© ontrol of electromagnets (L/R ≤ 2 x (Ue x Ie) in ms, with Ue: rated operating voltage and Ie: rated operating current)

- (1) 24 V
- (2) 48 V
- (3) 127 V

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**Authorized Distributor** 

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