ABR2E115F

input interface module - 9.5 mm - electromechanical - 115..127 V AC - 1 NC



Main

Range of product	Interface for discrete signals
Product or component type	Slim electromechanical input interface module
Contacts type and composition	1 NO
[Uc] control circuit voltage	115127 V
Control circuit type	AC/DC
Control circuit frequency	50 Hz
Width pitch dimension	9.5 mm
[In] rated current	<= 0.014 A
Short circuit protection	2 A external fuse fast blow
[lth] conventional free air thermal current	1 A conforming to IEC 60947-1
Local signalling	1 LED indicating control signal state
Quantity per set	Set of 5

Complementary

Complementary		
Control voltage limits	140 V	
Connections - terminals	Screw clamp terminal	
Operating threshold	93 V	
Drop-out voltage	<= 25.4 V	
Holding current	2.5 mA	
Power dissipation in W	0.66 W	
Maximum switching voltage	140 V AC 125 V DC	
[Ue] rated operational voltage	<= 127 V AC conforming to IEC 60947-5-1 for built-in contacts <= 100 V DC conforming to IEC 60947-5-1 for built-in contacts	
Network frequency	50/60 Hz	
[le] rated operational current	0.5 A AC-15 Ue: 127 V per 1000000 cycles conforming to IEC 60947-5-1 0.5 A AC-14 Ue: 127 V per 1000000 cycles conforming to IEC 60947-5-1 1 A DC-13 Ue: 24 V per 1000000 cycles conforming to IEC 60947-5-1 1 A DC-12 Ue: 24 V per 1000000 cycles conforming to IEC 60947-5-1 1 A AC-12 Ue: 127 V per 1000000 cycles conforming to IEC 60947-5-1	
Minimum switching current	1 mA	
Minimum switching voltage	5 V	
Electrical reliability	1e-008	
Operating time	<= 6 ms between de-energisation of coil and closing of NO contact DC <= 30 ms between energisation of coil and closing of NO contact AC <= 30 ms between de-energisation of coil and closing of NO contact AC <= 10 ms between energisation of coil and closing of NO contact DC	
Contact bounce time	<= 5 ms	
Operating rate in Hz	0.5 Hz at le 10 Hz at no-load	
Mechanical durability	>= 20000000 cycles	
[Ui] rated insulation voltage	300 V conforming to IEC 60947-1 250 V conforming to VDE 0110 group C	
Flame retardance	V0 conforming to UL 94	
Cable cross section	0.62.5 mm², 1 or 2 wires flexible without cable end 0.342.5 mm², 1 or 2 wires flexible with cable end 0.274 mm², 1 wire rigid	
Operating position	Any position	

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Installation category	II conforming to IEC 60947-1	
Mounting support	Asymmetrical DIN rail Combination rail Symmetrical DIN rail	
Product weight	0.035 kg	

Environment

Immunity to microbreaks	10 ms	
Dielectric strength	750 V between open contacts 2500 V between wired interface and earth 2000 V between coil circuit and contact circuits	
Standards	IEC 60947-5-1	
Product certifications	BV CSA DNV LROS (Lloyds register of shipping) UL	
IP degree of protection	IP20 conforming to IEC 60529	
Protective treatment	TC	
Fire resistance	960 °C conforming to IEC 60695-2-1	
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27	
Vibration resistance	3 gn (f = 10150 Hz) conforming to IEC 60068-2-6	
Electromagnetic compatibility	Rapid transients immunity test level 3, on power supply 2 kV conforming to IEC 61000-4-4 Rapid transients immunity test level 3, on input/output 1 kV conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3, 8 kV conforming to IEC 61000-4-2 Electromagnetic field immunity test level 3, 10 V/m between 271000 MHz con forming to IEC 61000-4-3 1.2/50 µs shock waves immunity test, 2.5 kV for U < 300 V conforming to IEC 947-1 1.2/50 µs shock waves immunity test, 1.5 kV for U < 150 V conforming to IEC 947-1 1.2/50 µs shock waves immunity test, 0.5 kV for U < 50 V conforming to IEC 947-1	
Ambient air temperature for operation	-555 °C from 0.851.1 Us -540 °C unrestricted operation -2570 °C at Us	
Ambient air temperature for storage	-4080 °C	
Operating altitude	<= 3000 m	
Pollution degree	2 conforming to IEC 60947-1	

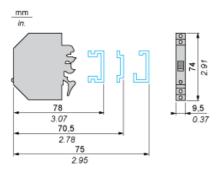


Product data sheet Dimensions Drawings

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Slim Electromechanical Interface Module

Dimensions

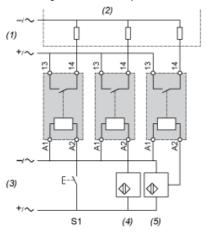


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Slim Electromechanical Interface Module

Example of Application with PLC

Interfacing PLC discrete inputs



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- S1 Pushbuttons series contacts
- (1) Processing power supply
- (2) PLC positive logic discrete inputs
- (3) Process power supply
- (4) 2-wire sensors
- (5) 3-wire sensors

Slim Electromechanical Interface Module

Circuit Diagram

1 N/O

