



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	24 V
Control circuit type	DC
Width pitch dimension	0.69 in (17.5 mm)
Maximum [In] rated current	62 mA DC
Reverse polarity protection	With
Short-circuit protection	16 A external fuse gF Ik ≤ 2.5 kA AC and Ik ≤ 100 A DC) 16 A external fuse gG Ik ≤ 2.5 kA AC and Ik ≤ 100 A DC)
[Ith] 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

Control circuit voltage limits	30 V 15 V
Maximum switching voltage	125 V DC
Housing Colour	Grey
Connections - Terminals	Screw clamp terminal
Drop-out voltage	3.2 V
Minimum holding current	6.6 mA DC
Maximum power dissipation in W	1.5 W
[Ue] rated operational voltage	≤ 125 V DC IEC 60947-5-1 ≤ 230 V AC IEC 60947-5-1
Network Frequency	50/60 Hz
[Ie] rated operational current	1 A AC-13 Ue: 230 V 1000000 cycles IEC 60947-5-1 1 A AC-14 Ue: 230 V 1000000 cycles IEC 60947-5-1 1 A AC-15 Ue: 230 V 1000000 cycles IEC 60947-5-1 1 A DC-13 Ue: 24 V 1000000 cycles IEC 60947-5-1 4 A AC-12 Ue: 230 V 1000000 cycles IEC 60947-5-1 5 A DC-12 Ue: 24 V 1000000 cycles IEC 60947-5-1
Minimum switching current	3 mA
Minimum switching voltage	17 V
Electrical reliability	≤ 0.00000001
Operating time	≤ 12 ms between de-energisation of coil and closing of NC contact ≤ 12 ms between de-energisation of coil and closing of NO contact ≤ 12 ms between energisation of coil and closing of NC contact ≤ 12 ms between energisation of coil and closing of NO contact
Contact bounce time	≤ 3 ms
Operating rate in Hz	6 Hz at no-load 0.5 Hz at Ie
Mechanical durability	20000000 cycles
[Ui] rated insulation voltage	250 V IEC 60947-1 250 V VDE 0110 group C
Flame retardance	V0 conforming to UL 94

Cable cross section	0.00...0.00 In ² (0.34...2.5 mm ²), 1 or 2 wires flexible with cable end 0.00...0.00 In ² (0.6...2.5 mm ²), 1 or 2 wires flexible without cable end 0.00...0.00 In ² (0.27...2.5 mm ²), 2 wires rigid 0.00...0.01 in ² (0.27...4 mm ²), 1 wire rigid
Operating position	Any position
Installation category	II IEC 60947-1
Mounting Support	Asymmetrical DIN rail Symmetrical DIN rail Combination rail
Net Weight	0.20 lb(US) (0.09 kg)

Environment

Immunity to microbreaks	3 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	BV LROS (Lloyds register of shipping) DNV CSA UL
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 10...55 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 61000-4-4
Ambient Air Temperature for Operation	-4...140 °F (-20...60 °C) at Un 23...104 °F (-5...40 °C) unrestricted operation
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Operating altitude	<= 9842.52 ft (3000 m)
Pollution degree	3 IEC 60947-5-1

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3389110569636
Nbr. of units in pkg.	1
Package weight(Lbs)	3.32 oz (94 g)
Returnability	No
Country of origin	FR

Packing Units

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	2.95 in (7.5 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Weight	11.36 lb(US) (5.155 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

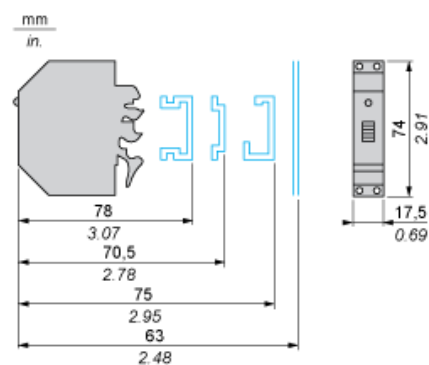
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth 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 warranty

Warranty	18 months
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Electromechanical Interface Module

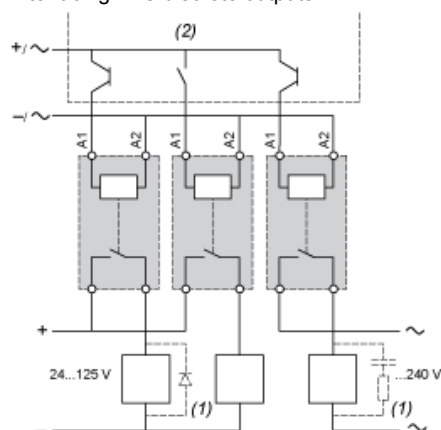
Dimensions



Electromechanical Interface Module

Example of Application with PLC

Interfacing PLC discrete outputs

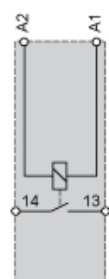


- (1) Essential on inductive loads (can be replaced with peak limiter)
- (2) PLC positive logic transistor (or relay) outputs

Interface with Mechanical Indication

Circuit Diagram

1 N/O

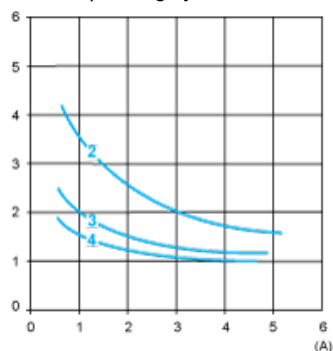


Electrical Durability of Contacts

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).

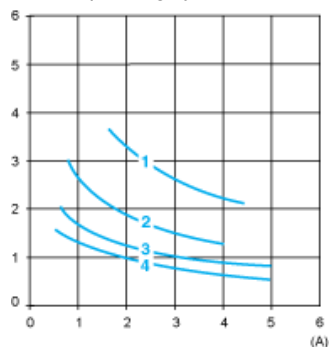
AC-12 operating cycles in millions



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

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

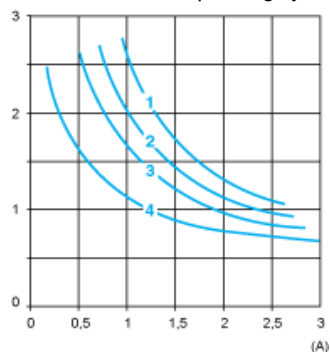
AC-13 operating cycles in millions



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

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

AC-14 and AC-15 operating cycles in millions



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

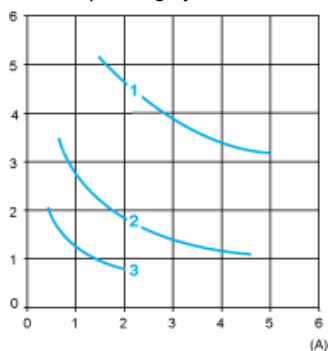
AC-15 Control of electromagnetic loads of electromagnets > 72 VA (make: $\cos \phi = 0.7$, break: $\cos \phi = 0.4$)

- (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).

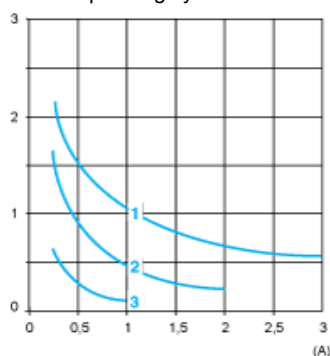
DC-12 operating cycles in millions



DC-12 Control 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-13 Control of electromagnets ($L/R \leq 2 \times (U_e \times I_e)$ in ms, with U_e : rated operating voltage and I_e : rated operating current)

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

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