

DATASHEET

ISL

Industrial insulation monitoring devices

ISL insulation monitors measure the resistance to earth of industrial circuits, producing an alarm when a first fault occurs. Thanks to the ISL range, companies can reduce maintenance costs and plant downtime. The ISL range continuously supervises the insulation of the computer systems installation, reporting any insulation losses caused by earth faults. The relay output can send a remote alarm signal or automatically cut off multiple switches.

ISL-A



Technical features

		ISL-A		
		A 24-48	A 115 A 230	A 600
Order Code		2CSM111000R1500	2CSM222000R1500 2CSM333000R1500	2CSM249853R1500
Power consumption	[VA]	3	4	6
Monitored line voltage	[V]	24-48V a.c/d.c. ± 20%	100-144 Vdc -15%+25% 220 Vdc -15% +25%	500 Vdc ± 20%
ALARM threshold	[kΩ]		30-300 (5 levels,selectable)	
TRIP threshold	[kΩ]	10 – 60 (5 levels by switches)	10 – 100 (5 levels by switches)	30 - 300 (adjustable by potentiometer)
LED indications	ON	■	■	■
	TRIP	■	■	■
	ALARM		■	
	+/-	■	■	■
Max trip delay	[s]	0.2	2	2.5
Max measuring current	[mA]	0.5	1.8	1.5
Internal impedance	[kΩ]	50	200 kΩ L+/L- 100 kΩ L/PE 400 kΩ L+/L- 200 kΩ L/PE	880 kΩ L+/L - 450 kΩ L/PE
TRIP relay output		1 NO-C-NC	2 NO-C-NC	1 NO-C-NC
Relay output		-	2 NO-C-NC	-
Relay contact capacity		max 250 V, 5 A		
Programmed functions	Alarm output	-	■	-
	Fail safe	■	■	■
	Reset	■	■	■
Insulation		2.5 kV60 sec./ 6 kV imp 1.2/50 μs	2.5 kV 60 sec./ 4 kV imp 1.2/50 μs	2.5 kV 60 sec./ 6 kV imp 1.2/50 μs
Operating temperature	[°C]	-10 ÷ 60		
Storage temperature	[°C]	-20 ÷ 70		
Relative humidity		≤ 90%		
Max terminal cross-section	[mm ²]	4	2.5	2.5
Protection degree		IP40 front, IP20 enclosure		
Modules	[n°]	3	6	6
Weight	[g]	200	400	400
Reference standards		EN 61010-1, EN 61557-8, EN 61326-1		

ISL-C

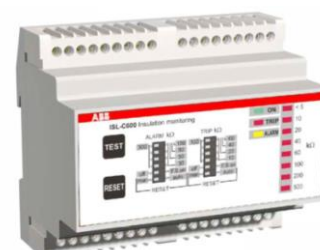
ISL-C 230



ISL-C 440



ISL-C 600



Technical features

		ISL-C		
		C 230	C 440	C 600
Order Code		2CSM444000R1500	2CSM545000R1500	2CSM656000R1500
Auxiliary power supply	[V AC]	220-240	220-240	100÷130 / 220÷240
Monitored line voltage	[V AC]	220-240	380-415	600-760
Power consumption	[VA]	3	3	5
Alarm Threshold	[kΩ]	-	30-300 (5 levels)	-
TRIP threshold	[kΩ]	100	10 -150 (5 levels)	10-100 (5 levels)
LED indications	ON	■	■	■
	TRIP	■	■	■
	ALARM			■
Max trip delay	[s]	1	4	5
Max measuring current	[mA]	0.1	0.1	0.25
Max measuring voltage	[V DC]	12	12	48
Internal impedance	[kΩ]	250	250	200
TRIP relay output		1 NO-C-NC	1 NO-C NC	2 NO-C-NC
Relay contact capacity		max 250 V, 5 A		
Insulation		2.5 kV60 sec./4 kV imp 1.2/50 μs		
Operating temperature	[°C]	-10 ÷ 60		

Storage temperature	[°C]	-20 ÷ 70		
Relative humidity		≤ 95%		
Max terminal cross section	[mm ²]	4	4	2.5
Protection degree		IP40 front, IP20 enclosure		
Modules	[n°]	3	3	6
Weight	[g]	200	200	500
Reference standards		EN 61010-1, EN 61557-8, EN 61326-1		