

		K-40	K-40h	
ISOM IMD	Rf	X	X	
	Ran	X	X	
	Ce	X	X	
	Transfo	X	X	
EVENTS	Insulation Alarms	2x	1x	
	All Alarms	X	X	
	Histo	X	X	
PARAMETERS	Language	X	X	
	ISOM IMD	Insulation measure: profile, Network (Un, Fn)	X	
		Alarms: Alarm 1, Alarm 2	2x	1x
		Relays: inhibit	X	X
		I/O	X	X
	Device configuration	X	X	
	Communication	RS485: Baudrate, Stop, Parity, Address	X	X
	Password		X	X
	Products List		X	X
	Autodetection		X	X
	Add new device		X	X
	Remote device		X	X
	Date / Time		X	X
Factory reset		X	X	
Reboot product		X	X	
DIAG	About	X	X	
	Setup view	X	X	
	I/O status	X	X	
	Test	X	X	



Insulation Monitoring Devices for IT earthing system networks

ISOM K-40 / K-40h



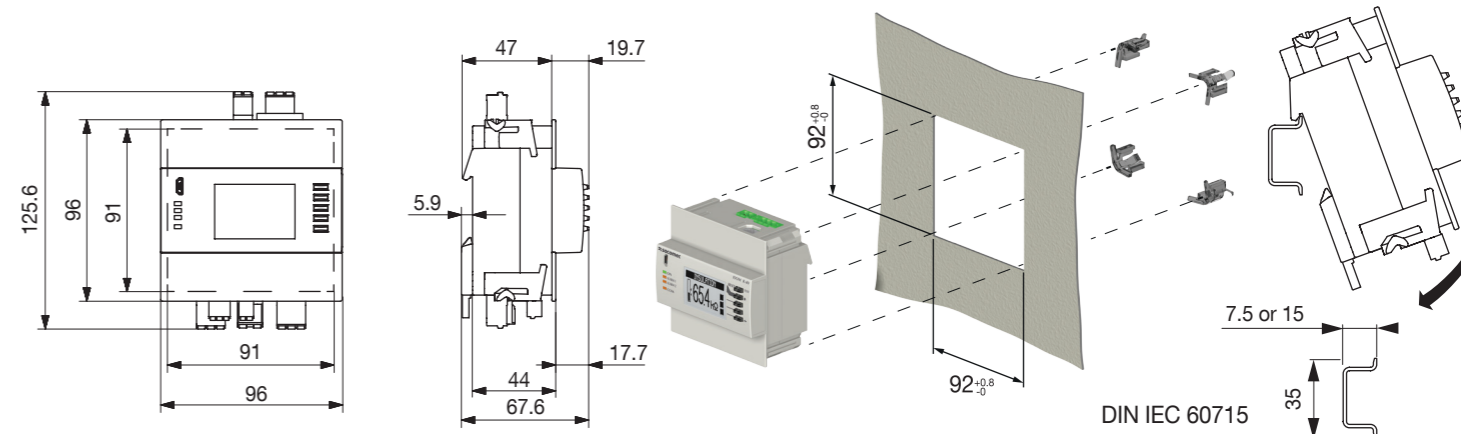
Full user manual:
www.socomec.com/en/diris-digiware
www.socomec.com



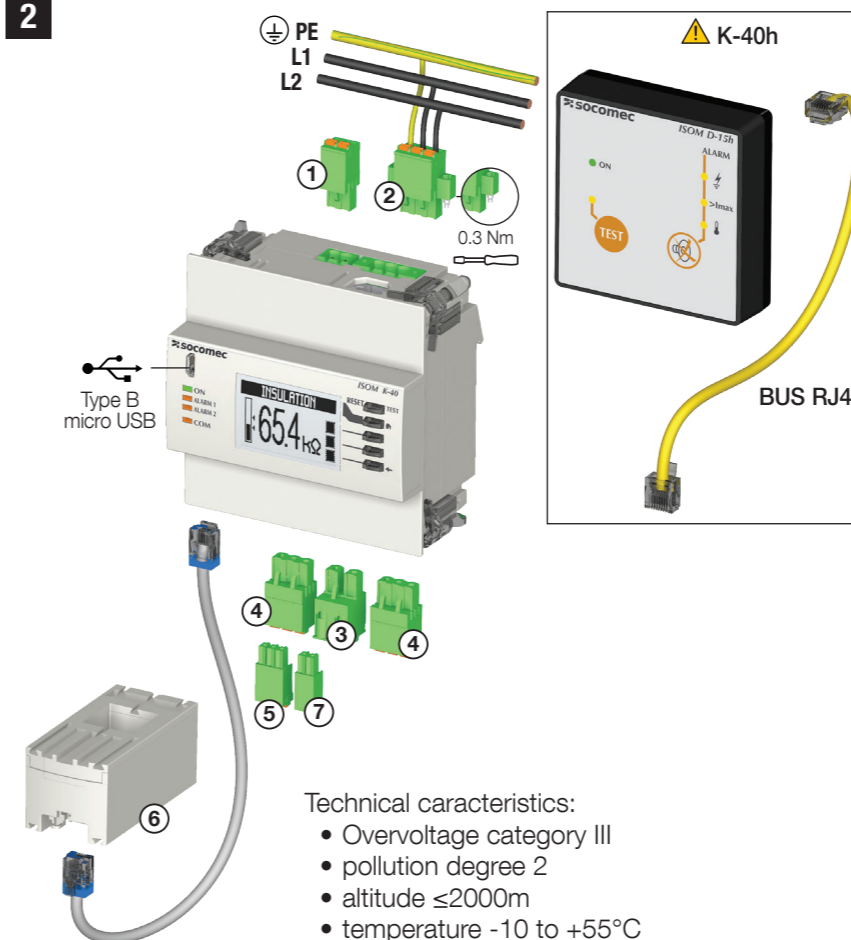
ISOM K-40 AC
4725 0120
ISOM K-40 DC
4725 0121
ISOM K-40h
4725 0122*

(*) h -> for medical locations

1 Dimensions (mm)



2



Technical characteristics:

- Overvoltage category III
- pollution degree 2
- altitude ≤2000m
- temperature -10 to +55°C

①	SUPPLY For AC version: 110-230Vac 50/60Hz, 120-240 VDC For DC version: 24VDC ±10% For h version: 110-230VAC 50/60Hz	
②	U / PE CONNECTION (L1 - L2 - KE) 24-277 VAC L/N (AC & DC version) 24-480 VAC L/L' (AC & DC version) 24-240 VDC +/- (AC & DC version) 24-250 VAC L/N or L/L' (h version)	x= 10 mm 0.2 to 1.5 mm ² solid 0.2 to 2.5 mm ² flexible
③	Functional Earth FE (⊥)	
④	2x OUTPUT RELAYS 230 VAC 3 A max	
⑤	RS485 MODBUS	x= 7 mm 0.14 mm ² - 1.5 mm ²
⑥	TE/TR sensors except Te-90	RJ12 SOCOMEC cables
⑦	1x INPUT: PTC (T°C) - 4729 0560 or TEST (>3s) / RESET (<1s) or DEACTIVATION IMD Cable length < 3m	x= 7 mm 0.14 mm ² - 1.5 mm ²

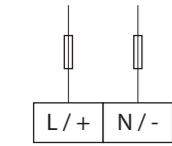
The inputs/outputs above are defined as SELV (safety extra low voltage): 1 (for DC version), 3, 5, 6, 7.



3

SUPPLY ①
ISOM K-40 AC (4725 0120)
ISOM K-40h (4725 0122)
 110-230 VAC 50/60Hz,
 120-240 VDC
 For h version:
 110-230VAC 50/60Hz
ISOM K-40 DC (4725 0121)
 24Vdc ±10%

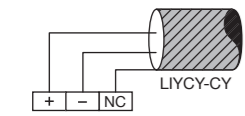
⚠ WARNING: DC auxiliary supply must be galvanically separated from monitored network.



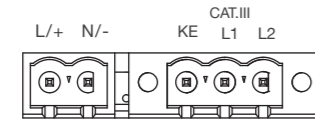
1 A gG / BS 88 1 A gG / T1AH300VDC

COMMUNICATION ⑤

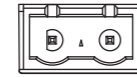
RS485 MODBUS



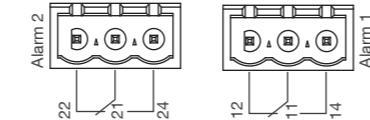
U / PE CONNECTION ②
 L1 - L2 - KE
 24-277 VAC L/N (AC & DC version)
 24-480 VAC L/L' (AC & DC version)
 24-240 VDC +/- (AC & DC version)
 24-250 VAC L/N or L/L' (h version)



FE (⊥) ③

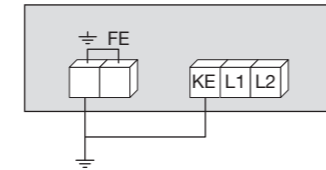


2x OUTPUT RELAYS ④

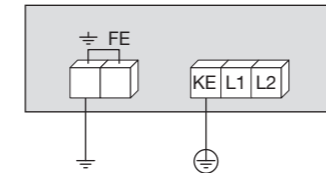


230V~ (3A max in resistive load)
 30V ∴ (1A max in resistive load)
 It is forbidden to use on one relay 250V and on the other a SELV signal.
 Fuse max 2 A gG or max 3 A fuse T3AH250V.
 Different phases can be used on the 2 output relays, but they must come from the same three-phase network.

⚠ Unauthorized



Authorized



PTC (T°C) ⑦
 TE / TR sensors except TE-90

0 >
 or
 TEST / RESET
 or
 DEACTIVATION IMD



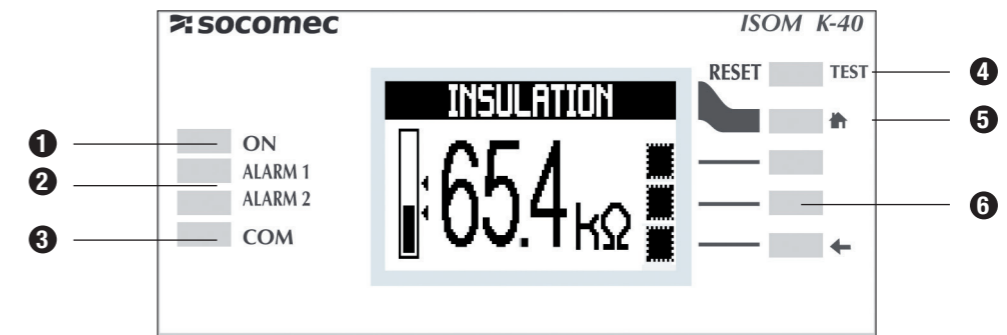
for dry contact
 max length: 3 m

5 Configuration



6 Operating

Human Machine Interface



- 1** ON (green)
Lights if device powered
- 2** ALARM 1 & 2 (amber)
- Light if Rf < ALARM x
- Blinks if system error (connection...)
- 3** COM (amber)
Blinks when modbus activity
- 4** RESET (short press)
TEST (long press)
- 5** Home (long press)
- 6** Contextual

Navigation principle



4 Main networks connections

① 2 A gG

