

		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



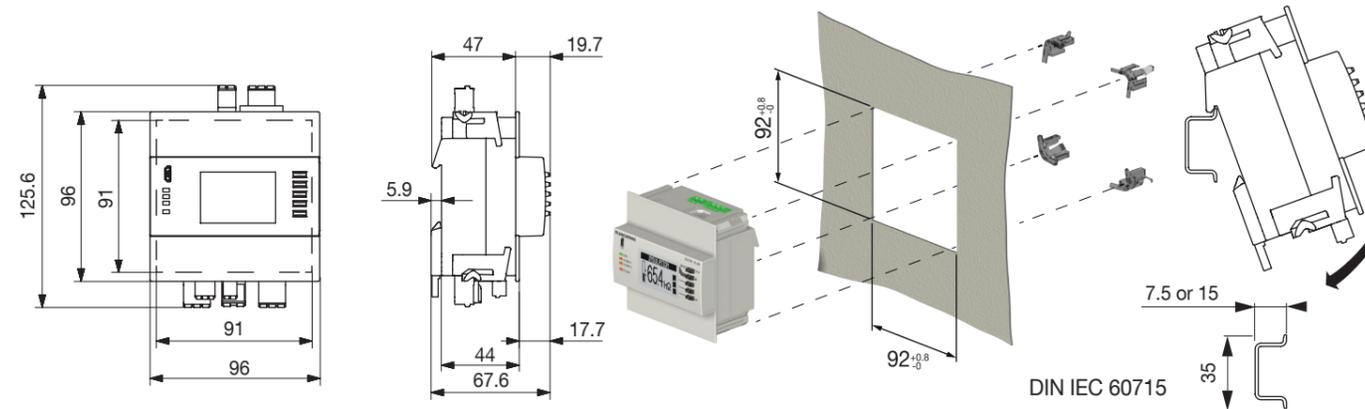
Socomec Resource Center  
To download, brochures, catalogues and technical manuals



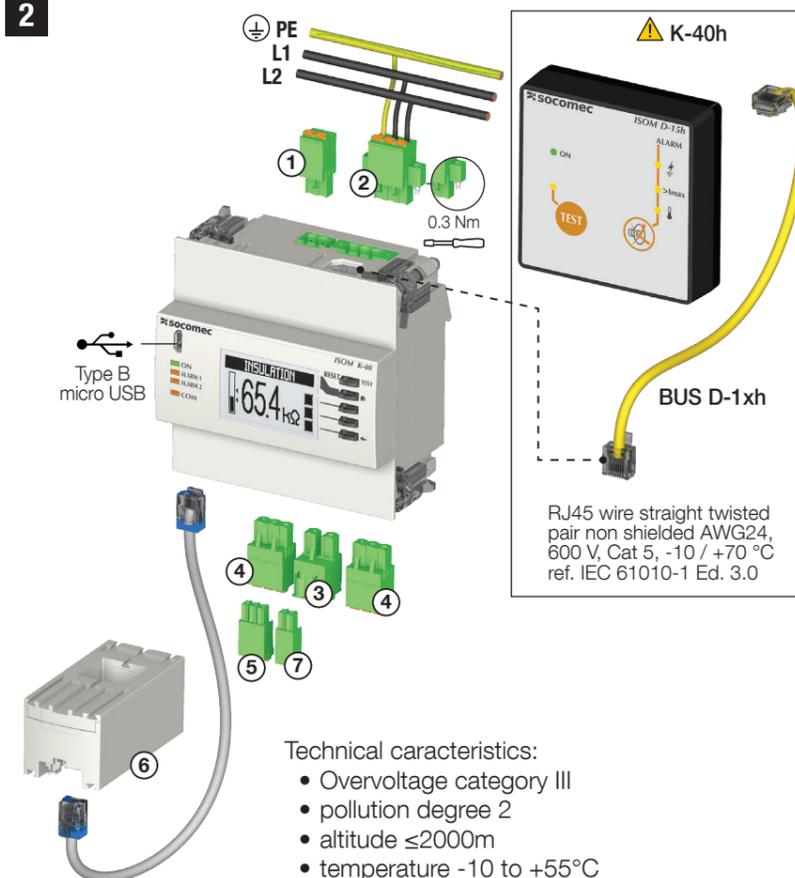
ISOM K-40 AC  
4725 0120  
ISOM K-40 DC  
4725 0121  
ISOM K-40h  
4725 0122\*

(\* ) h -> for medical locations

#### 1 Dimensions (mm)



#### 2



Technical characteristics:

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

①	<b>SUPPLY</b> For AC version: 110-230Vac 50/60Hz, 120-240 VDC For DC version: 24VDC ±10% For h version: 110-230VAC 50/60Hz	
②	<b>U / PE CONNECTION (L1 - L2 - KE)</b> 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 <sup>2</sup> solid 0.2 to 2.5 mm <sup>2</sup> flexible
③	<b>Functional Earth FE (⊥)</b>	
④	<b>2x OUTPUT RELAYS</b> 230 VAC 3 A max	
⑤	<b>RS485 MODBUS</b>	x= 7 mm 0.14 mm <sup>2</sup> - 1.5 mm <sup>2</sup>
⑥	<b>TE/TR sensors except Te-90</b>	▲ RJ12 SOCOMEC cables
⑦	<b>1x INPUT - PTC (T°C) - 4729 0560 or TEST (&gt;3s) / RESET (&lt;1s) or DEACTIVATION IMD</b> Cable length < 3m	x= 7 mm 0.14 mm <sup>2</sup> - 1.5 mm <sup>2</sup>

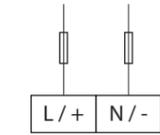
The inputs/outputs above are defined as SELV (safety extra low voltage): 1 (for DC version), 3, 5, 6, 7.



### 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%

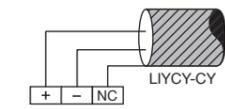
**WARNING:** DC auxiliary supply must be galvanically separated from monitored network.



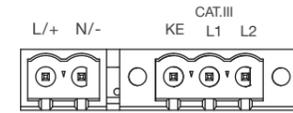
1 A gG / BS 88 1 A gG / T1AH300VDC

#### COMMUNICATION ⑤

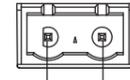
RS485 MODBUS



**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)

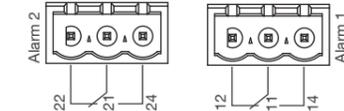


#### FE (⊥) ③



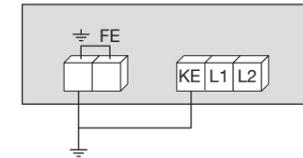
Both connectors are connected internally.

#### 2x OUTPUT RELAYS ④

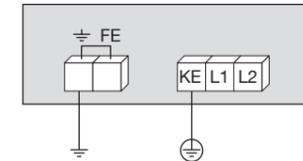


230V~ (3A max in resistive load)  
 30V ∴ (1A max in resistive load)  
 It is forbidden to use on one relay 250V and on the other a SELV signal.  
 Fuse max 2 A gG or max 3 A fuse T3AH250V.  
 Different phases can be used on the 2 output relays, but they must come from the same three-phase network.

#### Unauthorized



#### Authorized



#### INPUT - PTC (T°C) ⑦

Ref.: 48290560

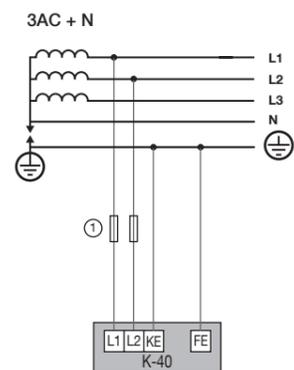
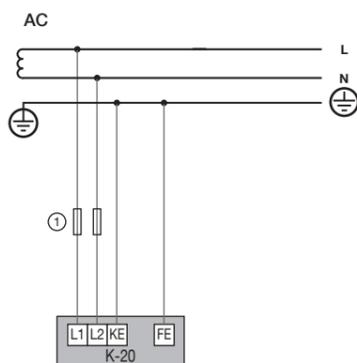
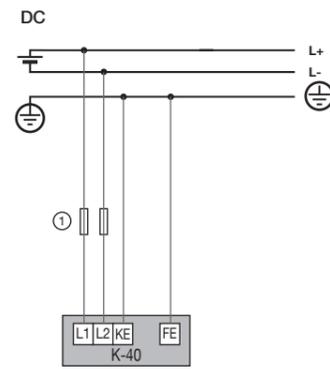
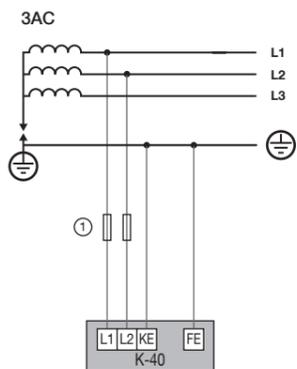
θ >  
 or  
 TEST / RESET  
 or  
 DEACTIVATION IMD



for dry contact max length: 3 m  
 This cable does not support any voltage

### 4 Main networks connections

① 2 A gG

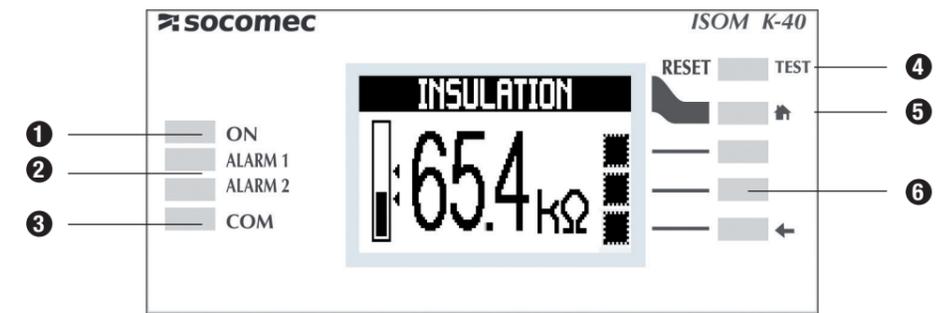


### 5 Configuration



### 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

