

## 7 Menu Structure (HOME)

			K-20
ISOM IMD	Rf		•
	Ran		•
	Ce		•
PARAMETERS	Language		•
	ISOM IMD	Insulation measure: profile, Network (Un, Fn)	•
		Relays	•
		Alarms: Alarm 1, Alarm 2	2x
	Device configuration		•
	Password		•
	Factory reset		•
Reboot product		•	
DIAG	About		•
	Setup view		•
	I/O status		•
	Test		•



# ISOM K-20

INSULATION MONITORING DEVICES  
FOR UNEARTHED IT SYSTEMS



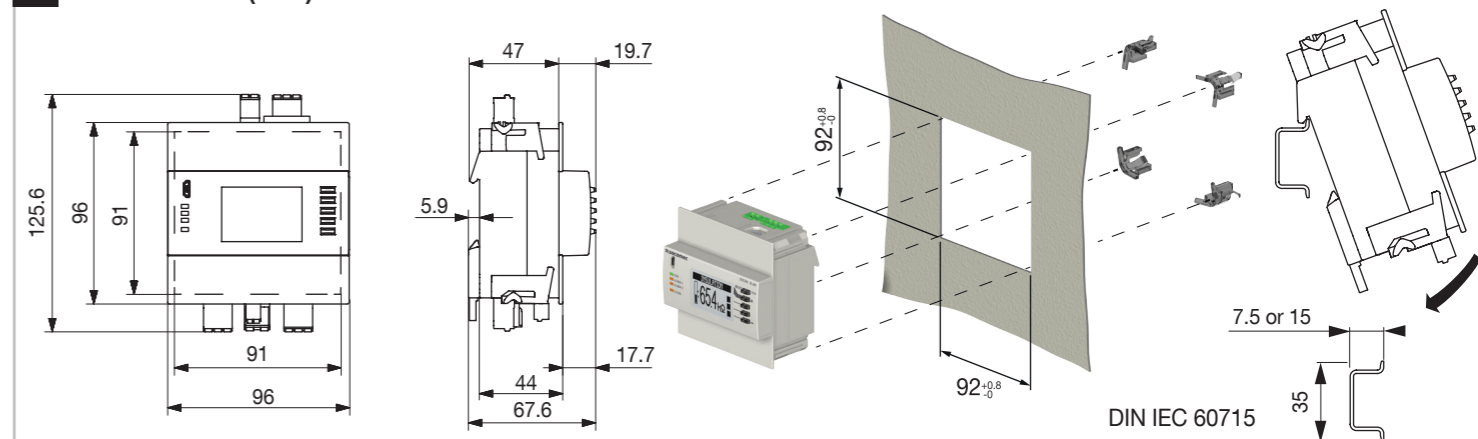
ISOM K-20 AC  
4725 0110

ISOM K-20 DC  
4725 0111

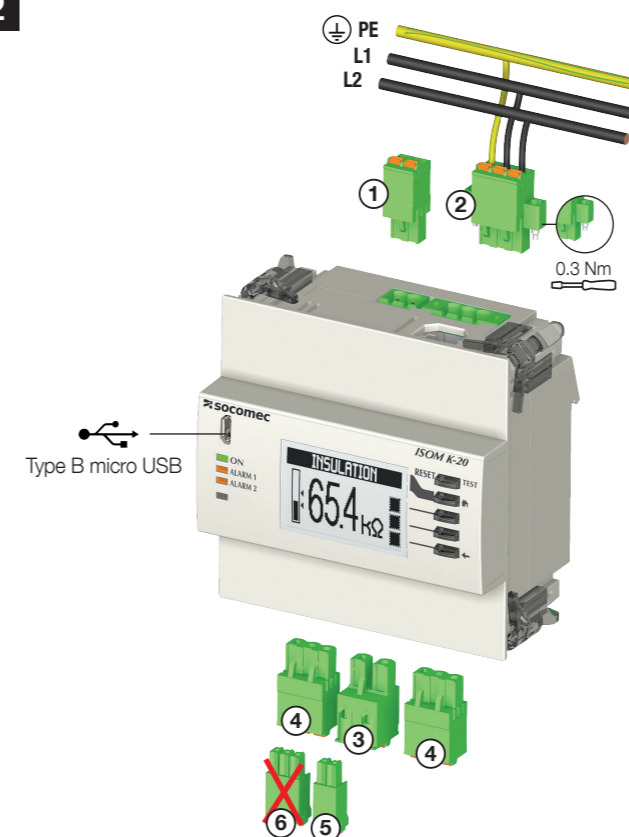


Full user manual:  
[www.socomec.com/operating-instructions](http://www.socomec.com/operating-instructions)  
[www.socomec.com](http://www.socomec.com)

## 1 Dimensions (mm)



## 2



①	<b>SUPPLY</b> For AC version: 110-230Vac 50/60Hz, 120-240 VDC For DC version: 24VDC ±10%	
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)	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 30 VDC 1 A max	
⑤	<b>1x INPUT (TEST/RESET)</b> TEST > 3s RESET < 1s Cable length < 3m	x = 7mm 0.14 mm <sup>2</sup> - 1.5mm <sup>2</sup>
⑥	<b>not to be used</b>	

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

### Technical characteristics:

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

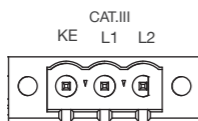
### 3

**SUPPLY ①**  
**ISOM K-20 AC (4725 0110)**  
 110-230 VAC 50/60Hz,  
 120-240 VDC

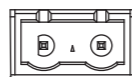
**ISOM K-20 DC (4725 0111)**  
 24Vdc ±10%

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

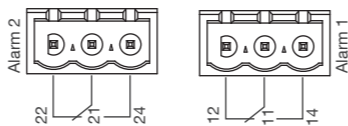
**U / PE CONNECTION ②**  
**L1 - L2 - KE**  
 24-277 VAC L/N (AC & DC version)  
 24-480 VAC L/L' (AC & DC version)  
 24-240 VDC +/- (AC & DC version)



**FE (⊥) ③**

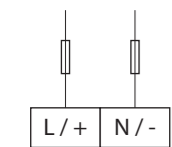


**2x OUTPUT RELAYS ④**



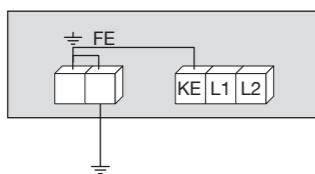
230V~ (3A max in resistive load)  
 30V ~ (1A max in resistive load)

It is forbidden to use on one relay 230 Vac 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.

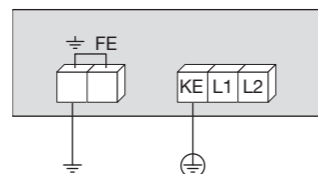


1 A gG / BS 88 1 A gG / T1AH300VDC

**Unauthorized**



**Authorized**



**TEST/RESET ⑤**

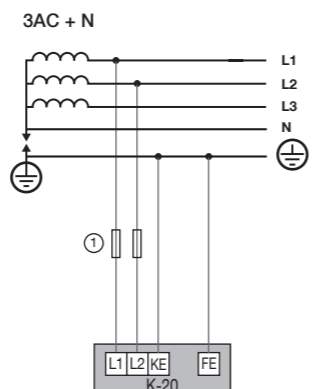
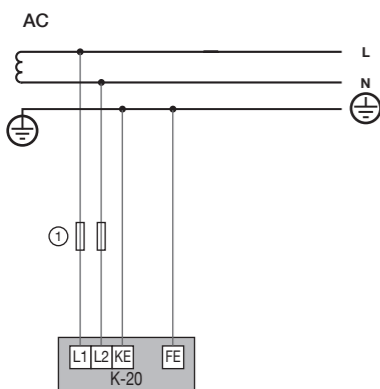
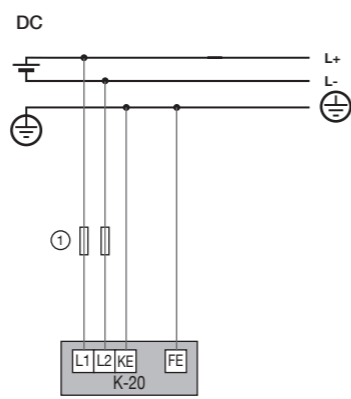
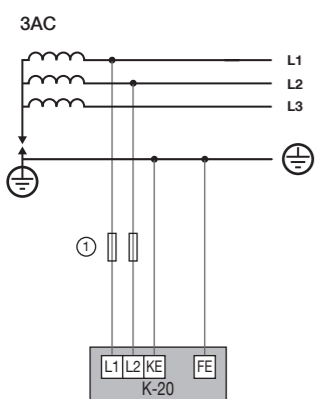


for dry contact  
 max length: 3 m

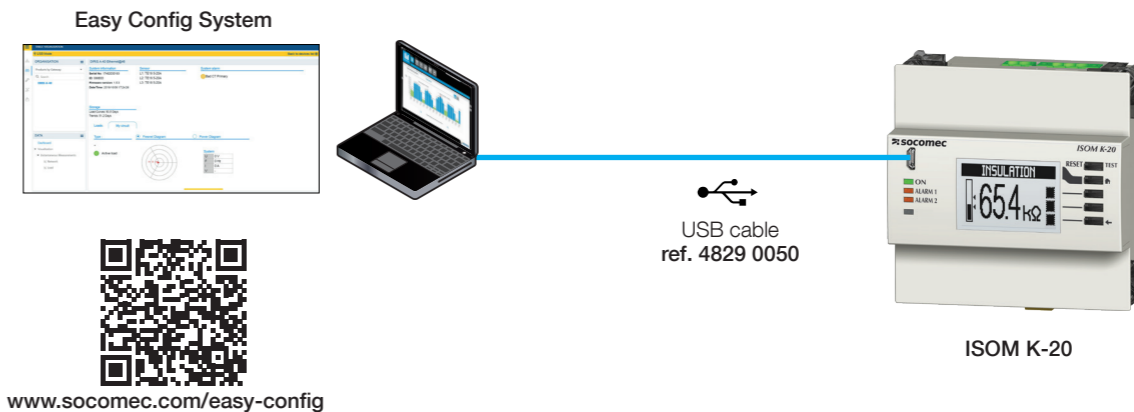


### 5 Main networks connections

① 2 A gG

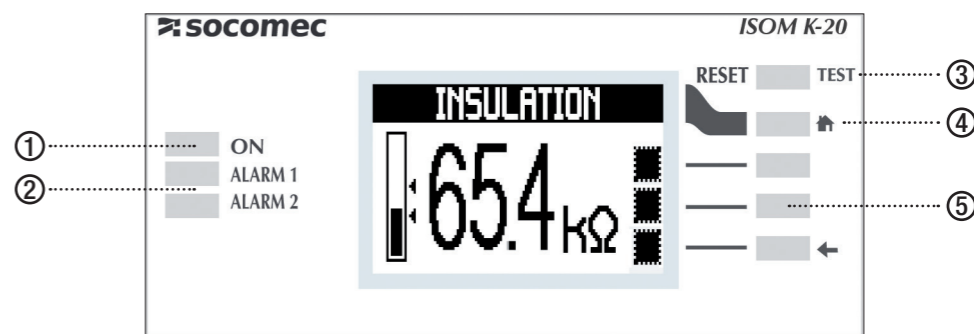


### 5 Configuration



### 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 **RESET (short press)**  
**TEST (long press)**
- ④ **Home (long press)**
- ⑤ **Contextual**

#### Navigation principle

