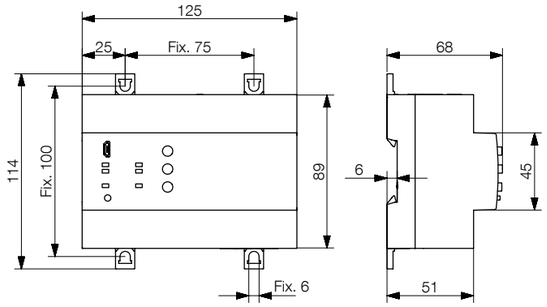
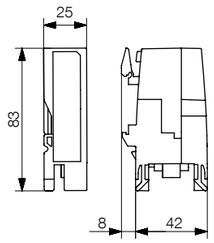
6 ISOM Digiware L-60

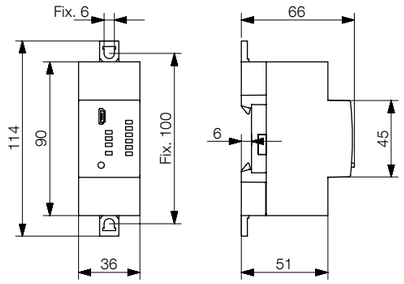


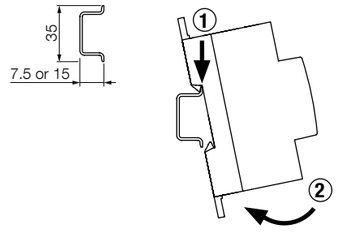
ISOM Digiware F-15

Dimensions mm



ISOM Digiware F-60





socomec
Innovative Power Solutions

ISOM Digiware

Insulation monitoring and measurement system for IT earthing system network

546779C

Insulation Monitoring Device & Locating Current Injector
L-60 / **4729 0110**
L-60t / **4729 0111 (*)**
L-60h / **4729 0112 (**)**

6 channels Insulation Fault Locator
F-60 / **4729 0126**
F-60t / **4729 0127 (*)**

Differential CT Adaptor
T-15 / **4729 0590**
T-15t / **4729 0591 (*)**

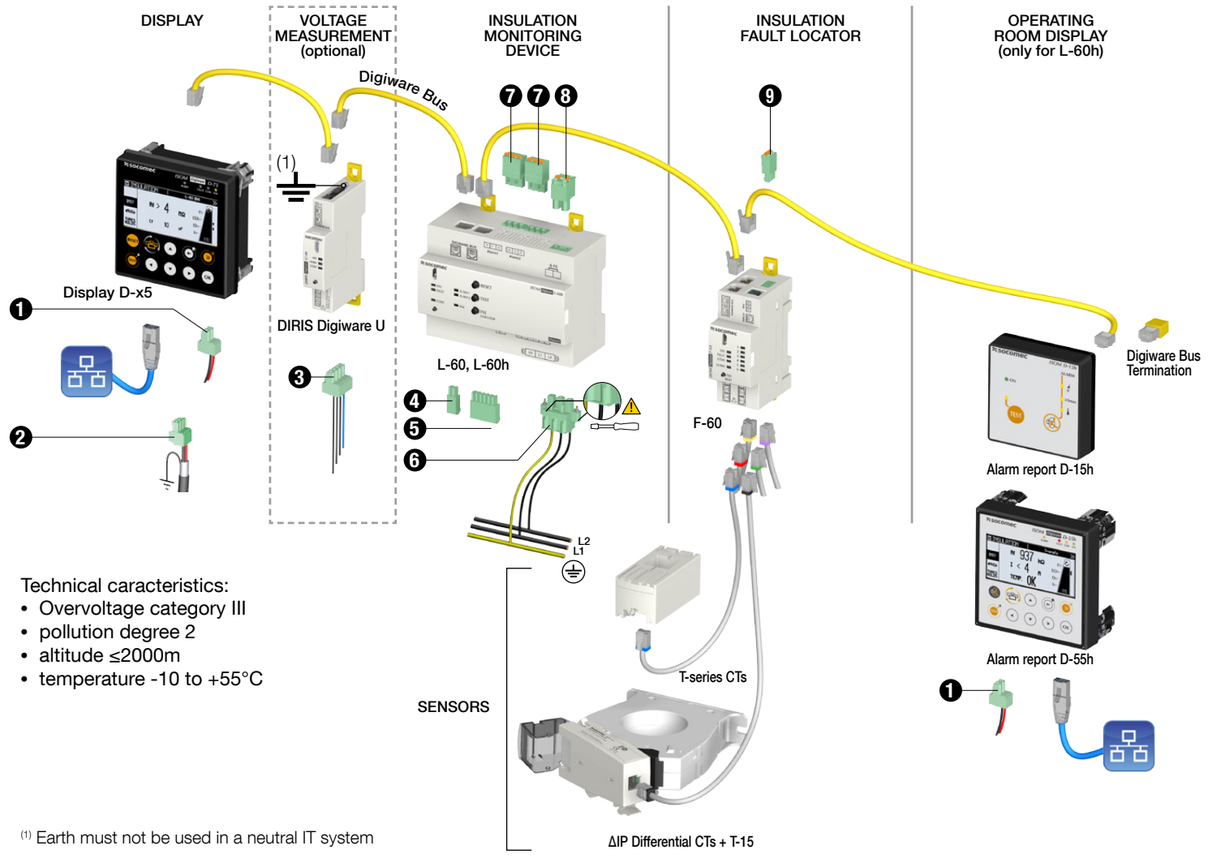
Full user manual:
www.socomec.com/operating-instructions
www.socomec.com

(*) t -> tropicalized & reinforced against vibration & shocks / **(**)** h -> for medical locations

1

Use **RJ45 Digiware Bus cables** (UTP RJ45 straight, twisted pairs, unshielded, AWG24, 300V, cat.III. rated, -20 / +70 °C) between all DIRIS Digiware modules.

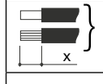
⚠ Do not connect **RJ12 sensor cable** to **RJ45 Digiware Bus connector** to avoid any risk of mechanical damage of this connector.



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

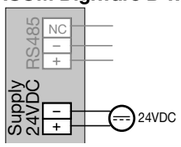
(1) Earth must not be used in a neutral IT system

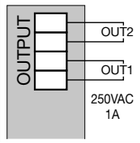
Parts listed are considered as SELV (safety extra low voltage): ❶, ❷, ❹, ❺, ❽, ❾, ⓫

	❶ Supply 24VDC	❷ COM RS485 Modbus	❸ U inputs 50-300VAC Ph/n	❹ 1x PTC (T°C) input Ref.: 48290560	❺ 4x I/O Output: 12-24VDC Min 600Ω 40 mA max Input: Max 100Ω	❻ U/PE inputs **L-60:** 0-480 VAC/VDC Ph/Ph 24-480VAC L/N (standard & t version) 24-480VAC L/L' (standard & t version) 24-480VDC +/- (standard & t version) 24-250VAC L/N or L/L' (h version)	❻ U/PE inputs **L-60h:** 24-250 VAC/ VDC Ph/Ph	❼ 2x Digital outputs 250VAC - 1A max 2x Relay 250VAC - 3A max or 30VDC - 1A max	❽ Functional Earth (FE) input ⏚	❾ 1x Digital outputs 24VDC - 1A max
	●●	●●●	●●●●	●●	●●●●●●	●●●		●●●	●●	●●●
	0.2 - 2.5 mm² x= 7 mm	0.14 - 1.5 mm² x= 7 mm	0.2 - 2.5 mm² x= 7 mm	0.2 - 1.5 mm² x= 10 mm	0.2 - 1.5 mm² x= 10 mm	0.2 - 2.5 mm² x= 10 mm		0.2 - 2.5 mm² x= 10 mm	0.2 - 2.5 mm² x= 10 mm	0.14 - 1.5 mm² x= 7 mm
Nm max.	0.25	0.25	0.25	-	-	-		-	-	-

2 Supply — Communication — Inputs — Outputs

ISOM Digiware D-x5





3 Main networks connections and loads

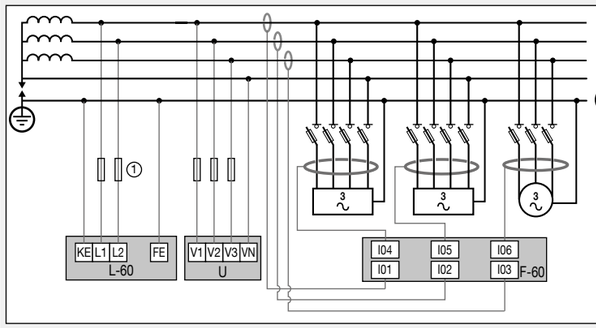
Each current input setting is individual and can be mixed (CT and/or differential CT).
See below some examples: (for full PMD function refer to DIRIS Digiware Quickstart Datasheet)

M AC motor — 3 AC motor — CT — ① 2 A gG

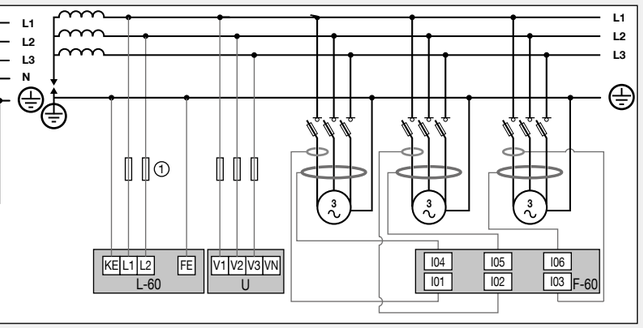
M DC motor — Differential CT — 3 Unbalanced load

ISOM Digiware F-60

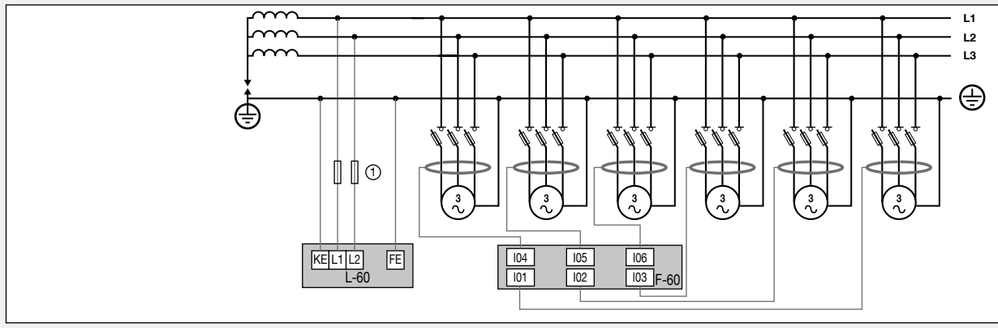
3AC+N / IMD + IFL + upstream load current monitoring



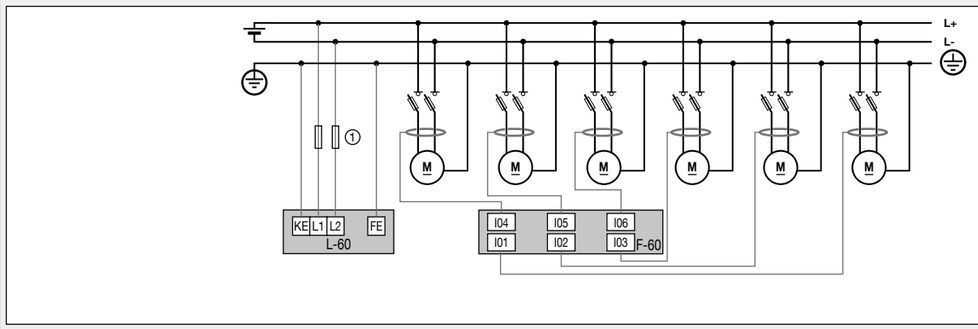
3AC / IMD + IFL + load current monitoring



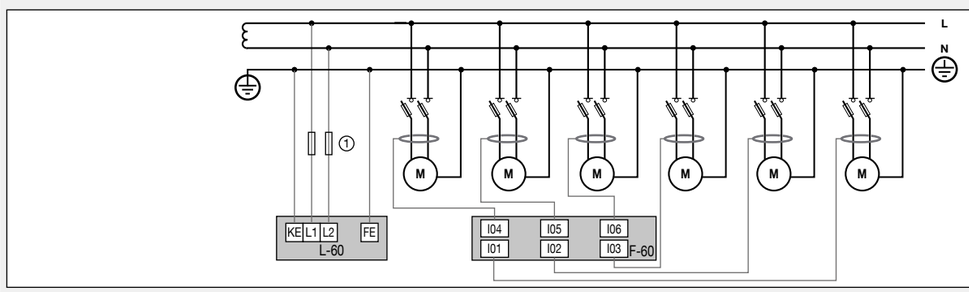
3AC / IMD + IFL



DC / IMD + IFL

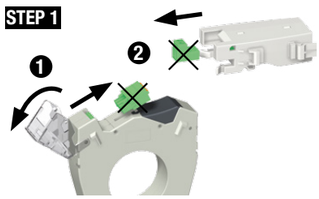


AC / IMD + IFL

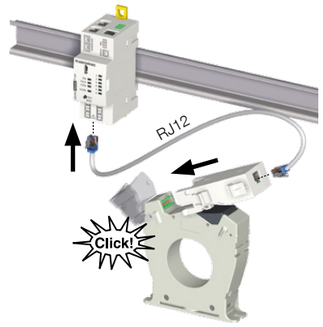


5 Current sensors & adapter T-15

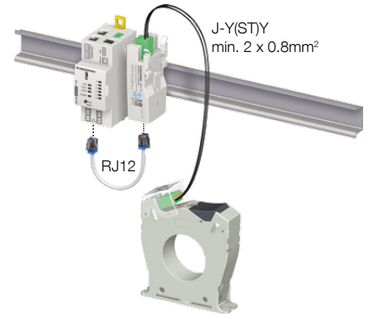
Recommendations:
- Use only RJ12 SOCOMEC current Sensors cable (type RJ12 straight, twisted pairs, unshielded, 300V cat. III. rated, -40 / +85°C).
- It is recommended to mount all the current sensors with the same orientation.
- Always start with current sensor input 1.
- If mounted on T-15: no mounting of T-15 on DIN-rail
- RJ12 max lengh: 10m



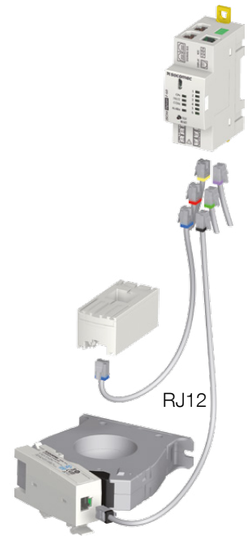
Wiring ISOM Digiware T-15 on differential CTs ΔIP (T-15 : no mounting on busbars !)



Wiring ISOM Digiware T-15 on existing differential CTs (T-15 : no mounting on busbars !)



ISOM Digiware F-60

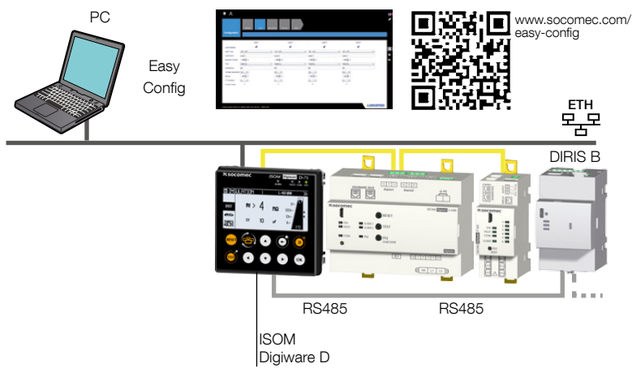


6x
Current sensors
TE / TR / TF
or
differential CTs ΔIP

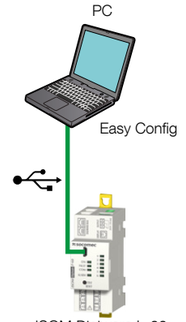
4 Configuration

Easy Config Software

Ethernet



USB



Display ISOM Digiware

Digiware Bus