

Advanced Controllers

Q7000
4 x 9 Channels Thyristor Unit
Single Phased Load

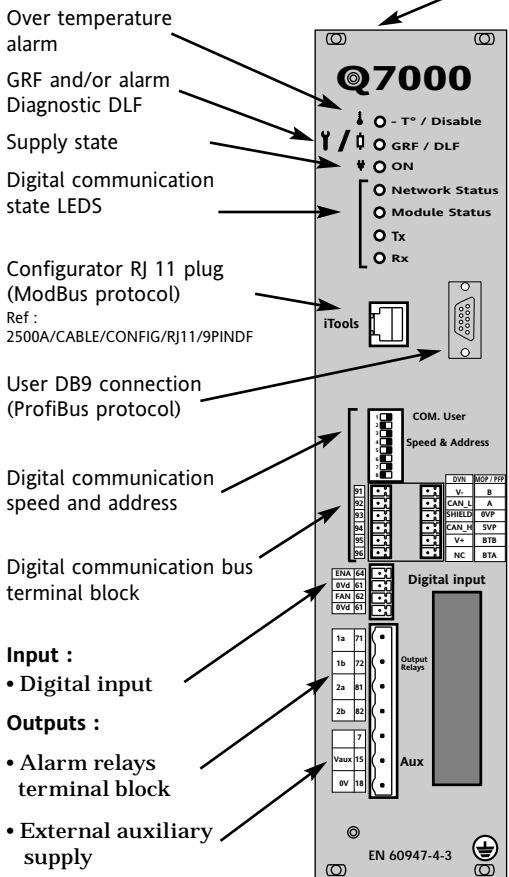
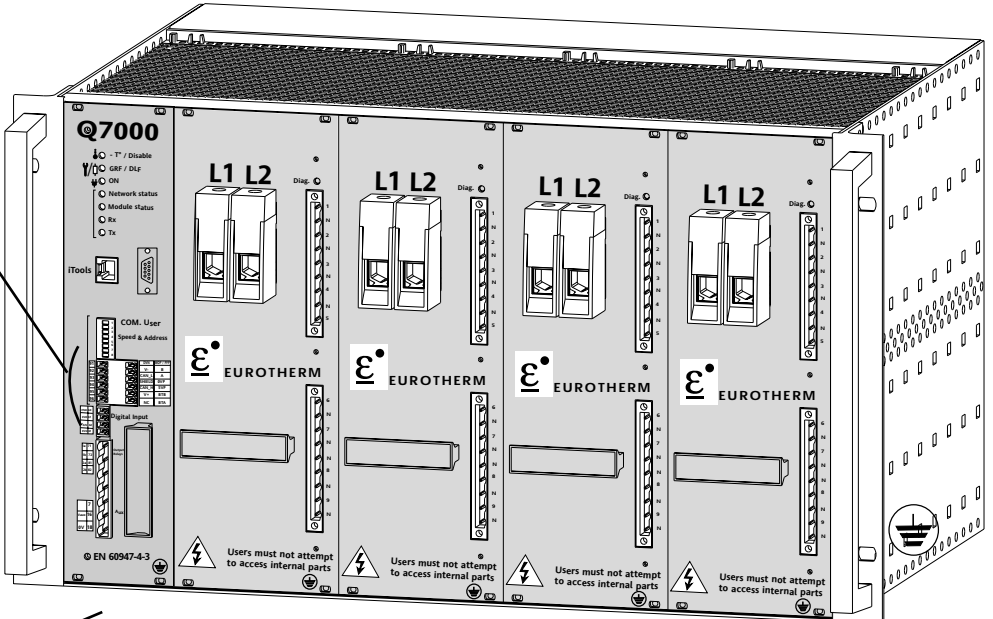
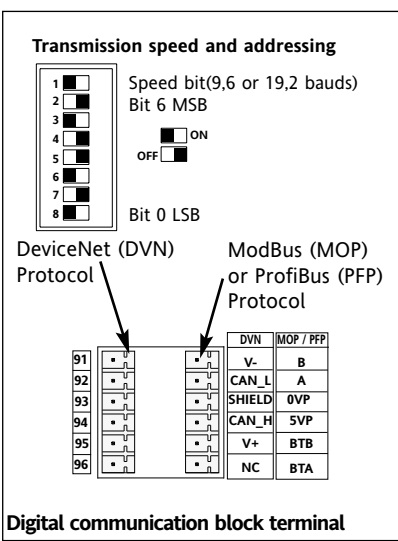
QUICK WIRING
 (versions ≤ 11 A)



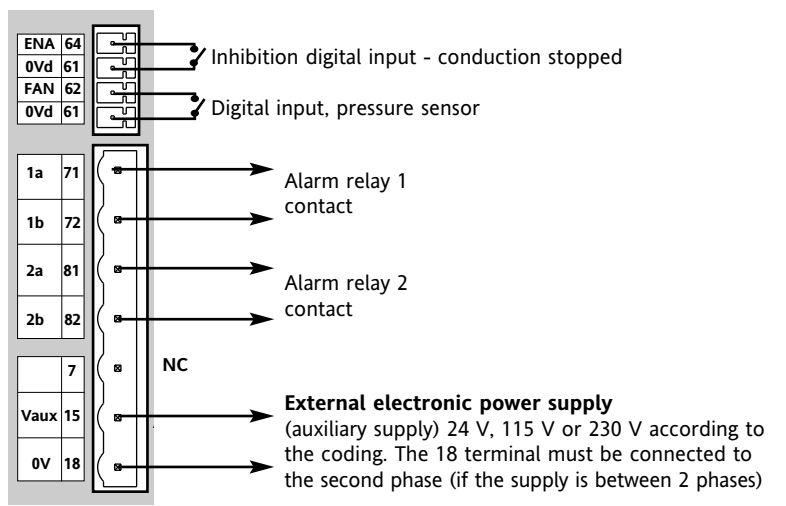
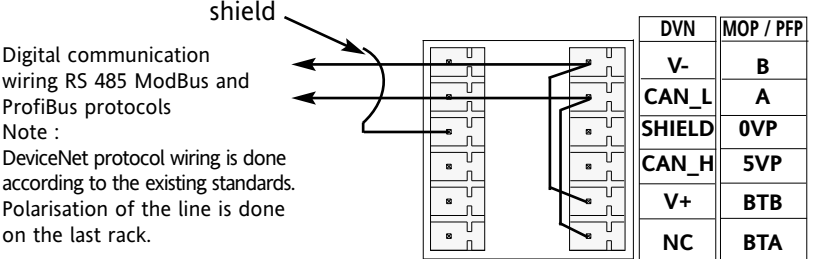
Q7000 products comply with the terms of products standard EN 60947-4-3.

Q7000 GENERAL PRESENTATION AND MOUNTING

A maximum of 3 racks can be mounted into a cabinet. A ventilation unit must be mounted in each cabinet containing from 1 to 3 racks. The ventilation must maintain a maximum ambient temperature of 45°C at a nominal current of 11 Amps. Each rack must have its protective earth line connected to the cabinet, which must be connected to the protective earth. To ensure the protective earth continuity and the electrical safety of the installation, all the front panel screws must be clamped correctly, at the clamping torque of 0.5 Nm. The wires must follow the side of the rack and cabinet, so that they are not in the way of the ventilation. It is the responsibility of the user to install supply cut-out protection before the racks or cabinet



CONTROL CONNECTION DIAGRAM



CONTROL AND POWER CONNECTIONS

CONTROL TERMINALS

Terminal	N°	DeviceNet (DVN)		ModBus or ProfiBus (MOP / PFP)	
		Label	Purpose	Label	Purpose
COM. User	91	V-	CAN low supply	B	- Tx /Rx
	92	CAN_L	- Tx /Rx	A	+ Tx / Rx
	93	SHIELD	Shield	0VP	0 V
	94	CAN_H	+ Tx / Rx	5VP	+ 5 V
	95	V+	CAN high supply	BTB	Line B Adaptation
	96	NC	Not connected	BTA	Line A Adaptation

Terminal	N°	Label	Purpose	Capacity
Digital input	64	ENA	Enable	2.5 mm ²
	62	FAN	Ventilator	3 AWG
	61	0Vd	0 Volts	

Terminal	N°	Label	Purpose	Capacity
Output Relay	71	1a	Contact	2,5 mm ² 13 AWG
	72	1b	Contact	
	81	2a	Contact	
	82	2b	Contact	

Note : NC or NO contact (see code)

Terminal	N°	Label	Purpose	Capacity
Aux	7		NC	2,5 mm ²
	16	Vaux	Aux. external supply 230V	13 AWG
	18	0V	Neutral	

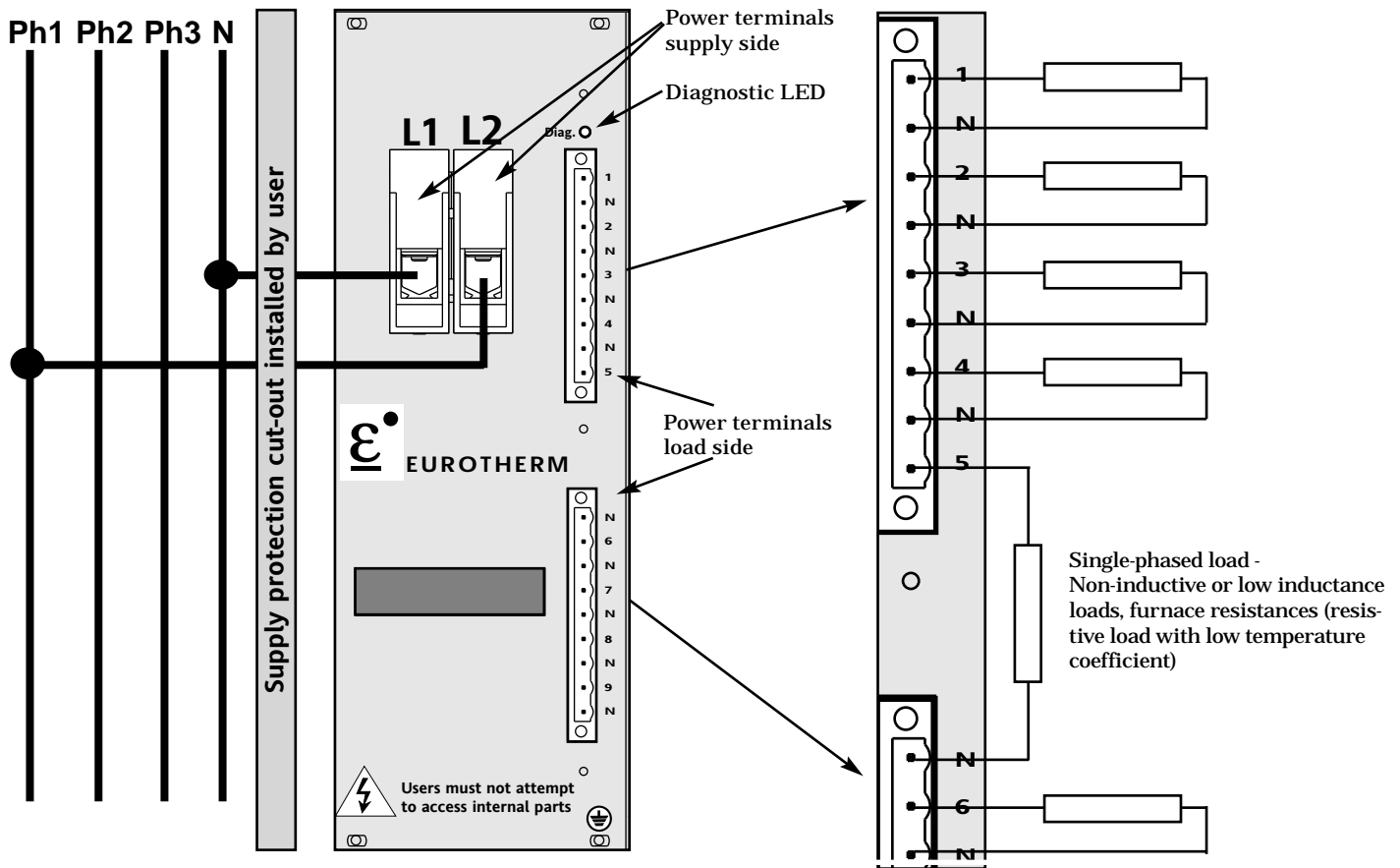
Conductor cross-sections should comply with the IEC 943

POWER TERMINALS

Power terminal supply side
Rating 100 A under 230 V supply
Terminal capacity
 from 16 mm² / 5 AWG
 to 35 mm² / 2 AWG
Clamping torque 3.8 Nm

Power terminal load side
Rating 11 A under 230 V supply
Terminal capacity
 from 2.5 mm² / 13 AWG
Clamping torque 1.2 Nm

POWER CONNECTION DIAGRAM



SAFETY DURING USE

The Q7000 units installed and used in accordance with the user manual, bear CE labelling on the basis of compliance with the essential requirements : European Low voltage Directive and Electromagnetic Compatibility Directive.

- Eurotherm shall not be held responsible for any damage, injury, losses or expenses caused by inappropriate use of the product, or failure to comply with this manual.
- The protective earth must be connected before all other connections and disconnected last.
- The fuses only protect wiring. It is essential to protect the installation and ensure electrical separation, in compliance with applicable standards.
- Users must not attempt to access internal parts. Disconnect the unit before dismantling.
- Avoid touching the heatsinks while the unit is operating or within 15 minutes of switching off.



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