

#### GENERAL NOTES

- A. Read carefully the present document. In case the device is used in an unspecified way, the protection might be impaired with consequent damages to personnel and / or device and installation.
- B. PI-DIN shall be installed by skilled and qualified personnel; Carlo Gavazzi cannot be liable for damages arising from improper use or without following the hereby listed recommendations.
- C. Installation Notes: disconnect power before performing any operation on the device. Verify terminals are all voltage free. Be careful when touching metallic parts.
- D. Servicing, in case of failure, shall not be carried out. In case of evident malfunction the device shall be returned for repair, recalibration or replacement.
- E. Maintenance: PI-DIN does not require a particular maintenance program. Make sure that all connections are properly made in order to avoid any malfunction or damage. To clean the device use a damp cloth, do not use alcohol, abrasive or solvents.
- F. By nature the device is usually permanently installed hence the following precautions shall be taken:

1. Install a protection switch or a fuse before power supply input;
2. Protection shall be positioned in a proper and easily accessible site;
3. This protection shall be marked and identified as "breaker for interface protection".

G. The PI-DIN is designed for the installation for DIN Rail installation in distribution panels or cabinets.

**NOTE:** terminal screws torque 0.5Nm.

#### ENVIRONMENTAL CONDITIONS

A. Protection degree: front IP50, terminals IP20

B. Pollution degree 3

C. Operating temperature -20...+55°C

D. Storage temperature -30...+70°C

E. Relative Humidity: 10...90%

F. Maximum altitude 2000m

Environmental conditions different from those above listed adequate measures shall be put in place before commissioning ( conditioning systems ). When pollutants are present ( corrosive substances or dusts) proper filters or countermeasures shall be adopted in order to protect the unit.

#### MECHANICAL DRAWINGS AND PINOUT

[Fig. 1] Mechanical Drawings

[Fig. 4] Pinout

[Fig. 5] Terminals position and ferrite mounting

#### ELECTRICAL WIRING

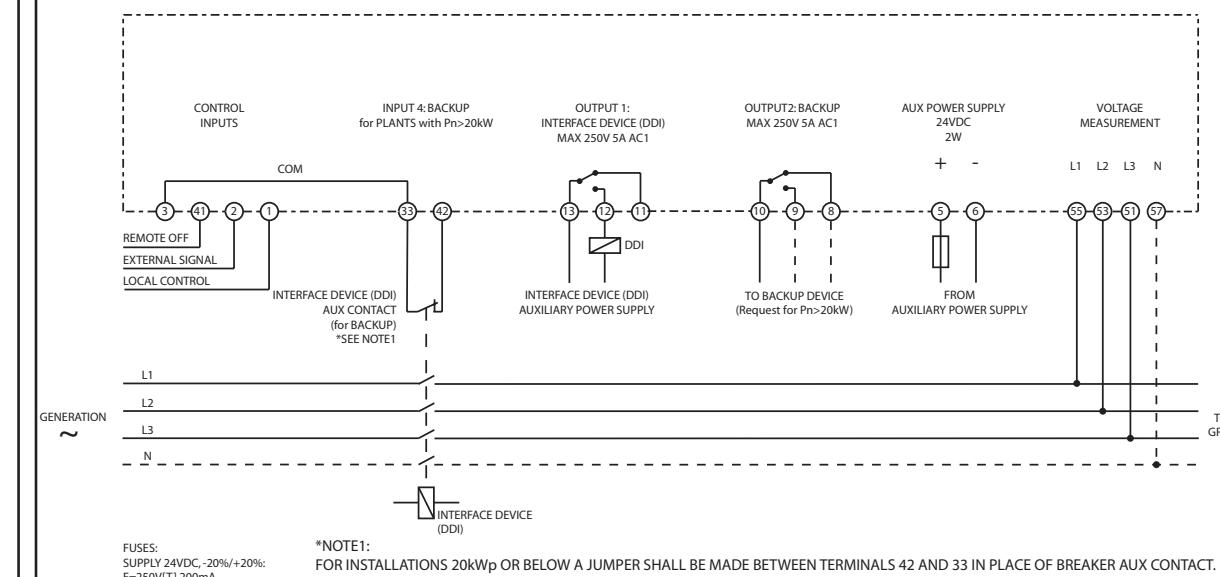
[Fig. 2] Three phase system diagrams 3P+N, 3P

[Fig. 3] Single phase diagram

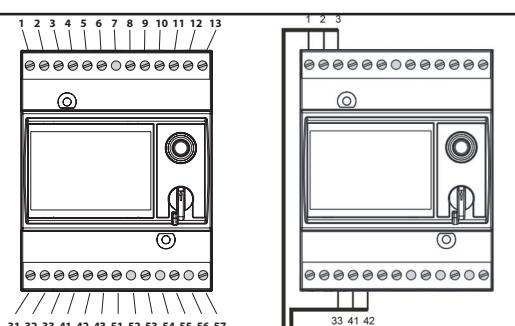
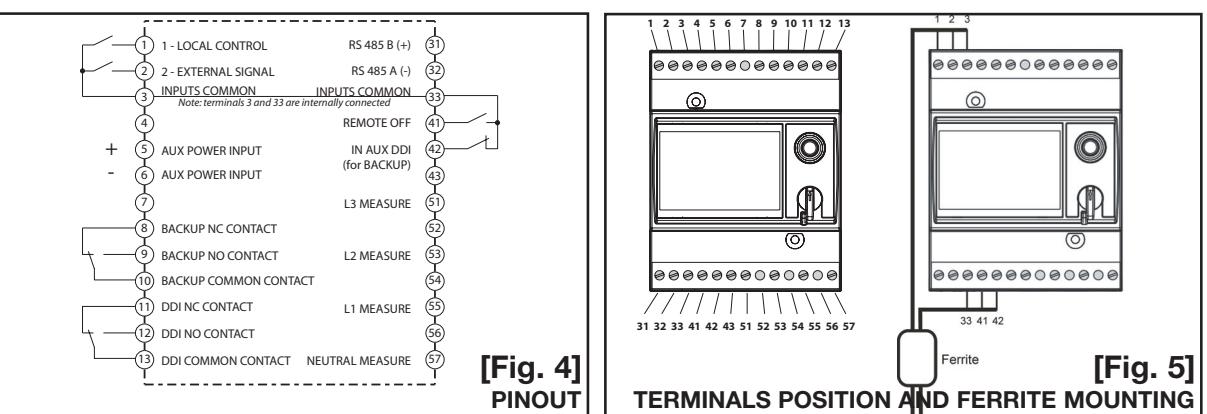
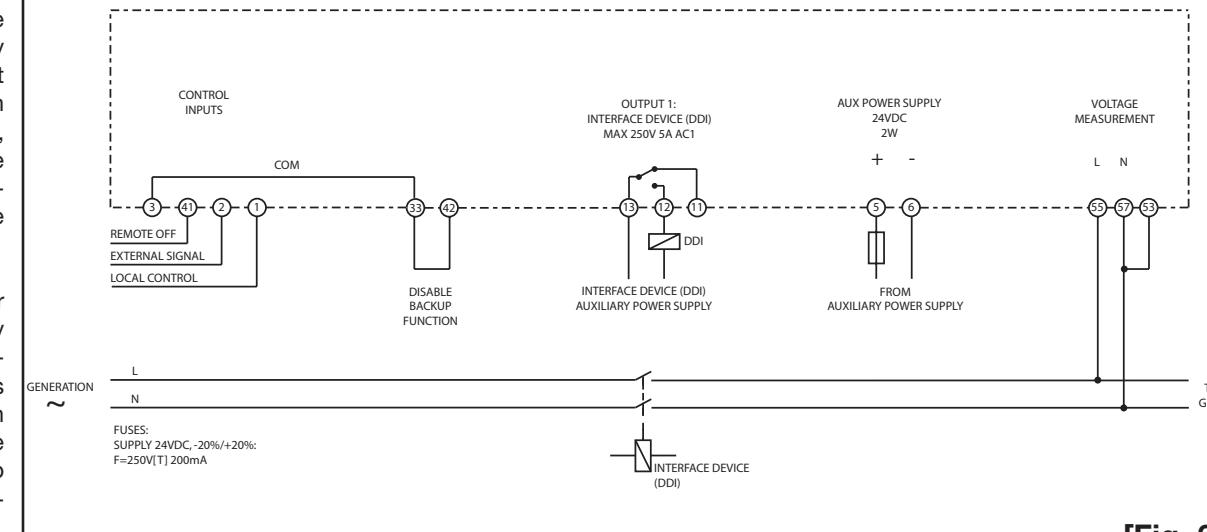
#### DIAGRAMS OF VIEWS

[Fig. 6] [Fig. 7] [Fig. 8] [Fig. 9] Rotary selector in positions: LOCK, 1,2,3

#### THREE PHASES SYSTEM DIAGRAMS 3P+N, 3P



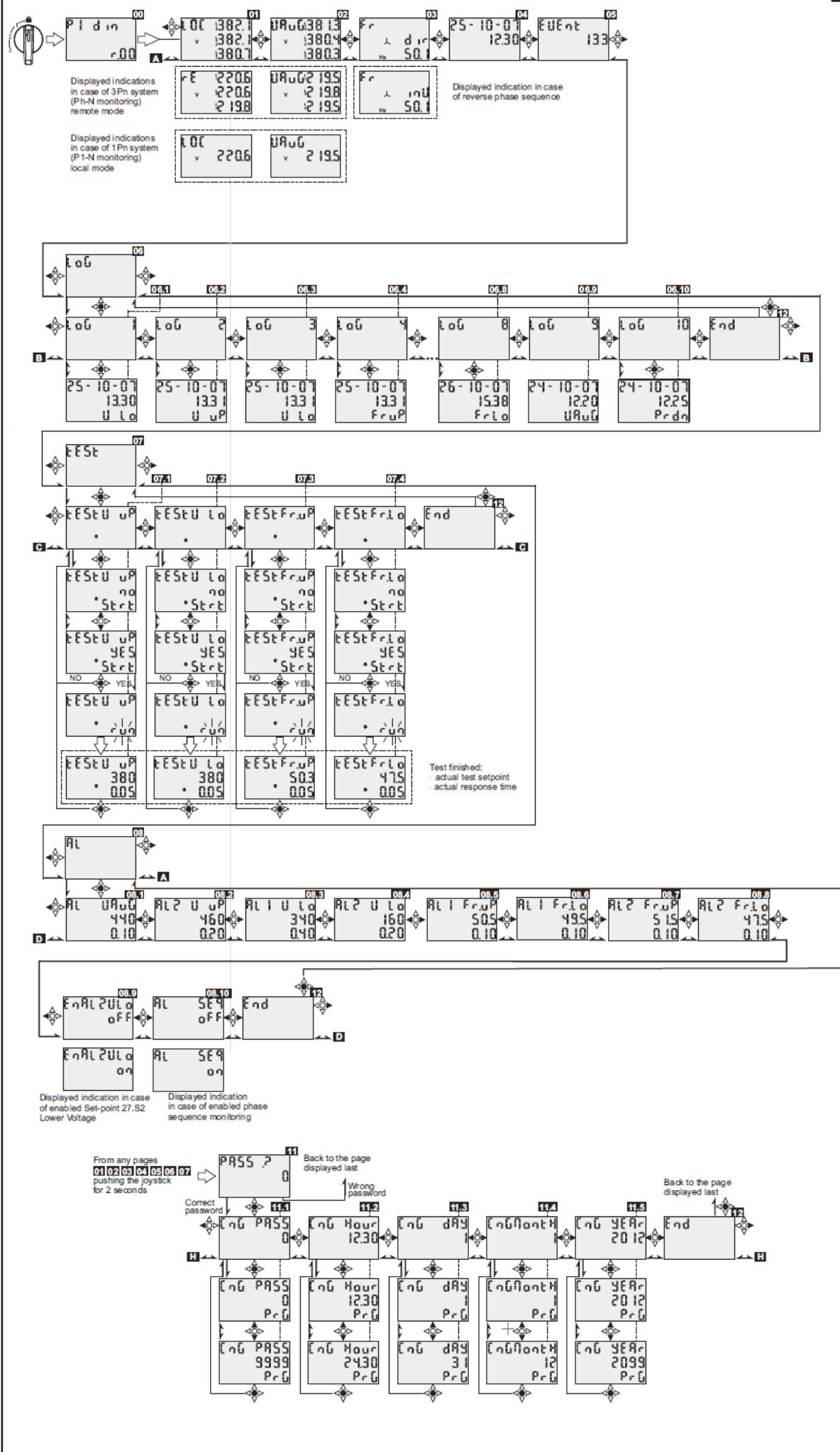
#### SINGLE PHASE DIAGRAM



#### TABLE FOR SETTINGS AS INPUTS

"OP MODE"	Inputs		Frequency thresholds	Tripping timings
	Input 2 "External Signal" Terminals 2-3 or 2-33	Input 3 "Local Control" Terminals 1-33 or 1-3		
"Loc": local operation	Irrelevant	Open	49,50Hz - 0,1s 50,50Hz - 0,1s	49,50Hz ÷ 50,50Hz 47,50Hz - 0,1s
	Irrelevant	Close	47,50Hz ÷ 51,50Hz 51,50Hz - 0,1s	Permissive
"Rem": remote operation	Open	Irrelevant	49,50Hz - 0,1s 50,50Hz - 0,1s	Restrictive
	Close	Irrelevant	47,50Hz ÷ 51,50Hz 51,50Hz - 1s	Permissive

Switch



Switch

