

The preliminary data of current, cross section and power indicated on the below tables are given for guidance; those data may vary depending on the accessories that are installed in the machine (the real data will be indicated in the instruction manual):

Make sure that a three-phase power supply and earth installation are available.

	VERY IMPORTANT!
	We recommend a differential switch with the following characteristics: - Nominal current: According to the machine input current - Leakage current: 300 mA - Delay: 100ms - Class A
	For example, the following <u>Merlin Gerin (Schneider electric)</u> differential switch series: - Multi 9 - Class A “si” (super immunized) - Selective

If an isolating transformer is used, the machine differential protection should be connected on the transformer secondary winding.

Minimum recommended power of isolating transformer :

GHT 4	35 KVA		GBM 31	48 KVA	
GT 5	54 KVA (S=30Kw)		GBR	62 KVA	
	65 KVA (S=37Kw) (Option)		GTM	74 KVA	
GT 7	82 KVA (S=51Kw)	Check depending on accessories	GCM	67 KVA	
	94 KVA (S=60Kw) (Option)		GMM	67 KVA	Check depending on accessories
GHT 8	150 KVA		GML	79 KVA	
GHT 9	150 KVA	Check depending on accessories	GMP	125 KVA	
GHT 11	185 KVA (S= 113Kw)				
	205 KVA (S= 130Kw) (Option)				

	IMPORTANT
	Conditions for the plant's mains power supply: When connecting our equipment that returns power to the mains, the following factors should be taken into consideration:
	If the plant's mains supply is of the TN (N.G) type, then a direct connection is possible. This type of mains supply is a 4 or 5-wire symmetrical alternating three-phase current with the star point connected to earth, protective conductor and neutral connected to the star point (see fig. A). In the case of other types of mains supplies, use a transformer-separator with the secondary star point connected to earth (see Fig. B).

	The electrical connection should be carried out by specialist personnel. Make sure that the power to the cable is switched off during connection. Check that the mains power in the plant corresponds to the electrical power supply for which the machine is designed.
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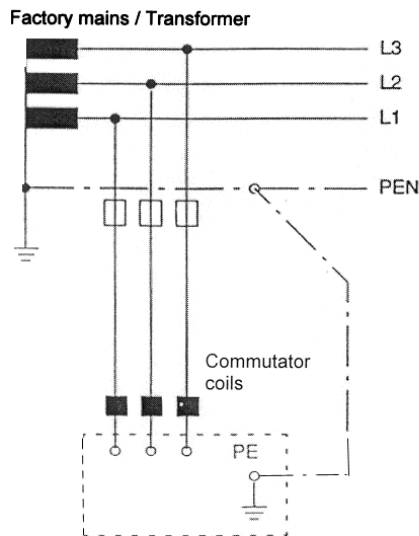


Fig. A

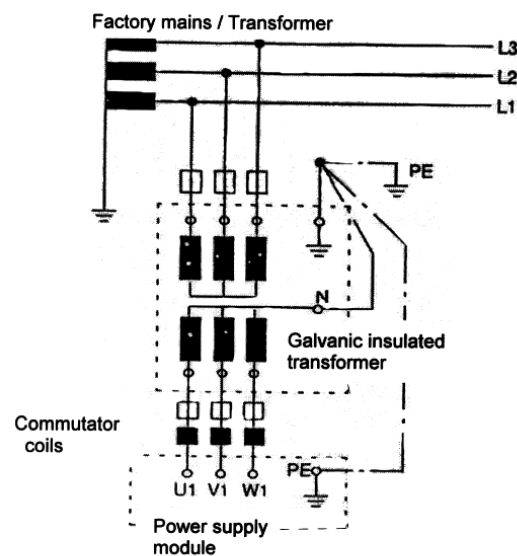


Fig. B

Maximum current (A) - cross section (mm²):

GHT 4	50A - 16 mm ²		GBM 31	70A - 25 mm ²	
GT 5	80A - 25 mm ² (S= 30Kw)		GBR	90A - 35 mm ²	
	95A - 35 mm ² (S= 37Kw) Option		GTM	106A - 50 mm ²	
GHT 7 / GT 7	120A - 50 mm ² (S= 51Kw)	Check depending on accessories	GCM	100A - 50 mm ²	
	135A - 50 mm ² (S= 60Kw) Option		GMM	100 A - 50 mm ²	Check depending on accessories
GHT 8	215A - 95 mm ²		GML	115A - 50 mm ²	
GHT 9	215A - 95 mm ²	Check depending on accessories	GMP	180A - 70 mm ²	
GHT 11	250A - 120 mm ² (S= 113Kw)				
	300A - 150 mm ² (S= 130Kw) Option				



Danger!

After the main switch is switched off and open the electrical cabinet, the regulators are still under tension. Wait 4 or 5 minutes until they have been entirely discharged.

- The values in the upper table are those recommended for 400 V/50 Hz or 480 V/60 Hz power supplies. If you do not have this power supply installed in the plant, you should equip the machine with a transformer whose primary voltage will be that of the plant itself and whose secondary voltage will be 400 V in the event of having a frequency of 50 Hz and 480 V in the event of having a frequency of 60 Hz.
- If you install a transformer for adapting different voltages, the section of the cable on the secondary side of the transformer should be that indicated in the upper table; however, the section of the cable on the primary side will depend on the voltage of the mains network in the plant. The higher the voltage, the smaller the section. Goratu Maquinas Herramienta recommends that you consult your electrical fitter before proceeding with the installation.
- Regulators which return energy to the mains network are by nature electrically noisy. Depending on the susceptibility of the machines located in the plant and of the quality of the electricity supply available, it is sometimes advisable to install an insulating transformer between the machine and the power outlet.