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(54) Assembly for electrical connection, start on and protection of an electric moto-compressor sealed in hermetic metal shell

(57) An assembly for electrical connection, start up and protection from excessive current absorption and/or overheating of an electrical moto-compressor contained in a sealed metal shell (2) and connectable through electrical pins (5, 6, 7) protruding out of a dielectric pane or *fusite* (4) integrated in the metal wall of the shell (3), comprises a connection unit and a docking metal bracket (3) adapted to be pre-welded to the shell (2), a dielectric body (1) of plastic material of said connection unit having installed therein a plurality of electrical terminals (m1-m14) for the connection of electrical wires of a power cable and of electrical wires of connection of external or remotely installed electrical components of circuits of the appliance. The connection unit is completely pre-fabricated and comprises a motor start up device (PTC) and a device of protection (OLP) from excessive current absorption and/or overheating of the moto-compressor hosted in recesses of the dielectric body (1) of plastic material. A plurality of electrical connection metal lamine have terminations adapted to constitute an electrical terminal board (m1-m14), plug-on sockets (5f, 6f, 7f) for the connection pins of the *fusite* and (8f) for a ground connection pin (8) projecting from a surface of the metal bracket (3) parallel to said pins (5, 6, 7) upon docking the connection unit onto it. A dielectric shroud (19) of plastic material has first engagement means (18f) adapted to slidely engage with said body and second engagement means adapted to engage underneath raised and outwardly bent parallel edges (9-12) of the metal bracket for blocking the connection unit onto the docking bracket while allowing sliding displacements of the shroud (19). Guillotine-type cable stopper devices (15, 21) arc integrally formed and extend from the slideable shroud.

Optionally the slideable dielectric shroud (19) comprises a removable end cap (23) of molded plastic having engagement spikes (24) adapted to slide in and be retained in cooperating channels (24f) formed in the slidable shroud (19) as far as abutting against end surfaces thereof and further having an elastic inner hook (28) adapted to engage itself into a locking recess (14) of the metal bracket (3).

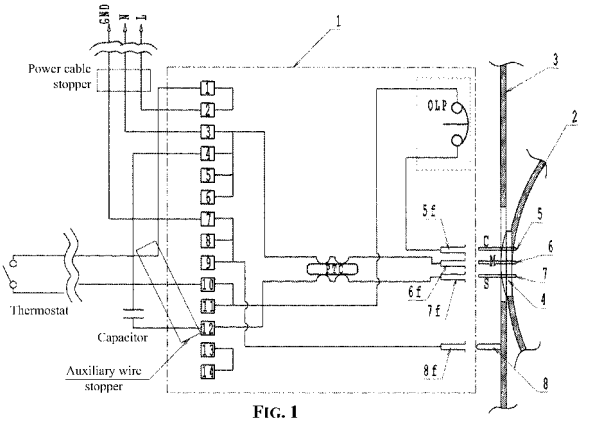

FIG. 1

EP 2 053 322 A3

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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	15 November 2010	Zanichelli, Franco

CATEGORY OF CITED DOCUMENTS

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EPO FORM P0459

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