

Modified Cover Material 220 - 240V / 50Hz Compressors

In the latest standard "Safety of household and similar electrical appliances, IEC60335-1, Edition 4" the flammability safety demands have been changed.

This new standard becomes effective in EU (EN 60335-1) from October 2005 for light commercial appliances and from October 2006 for household appliances. Other countries can have different schedules.

Danfoss will change the cover material according to the table to comply with this new standard. The cover code nos. will not be changed.

Our existing Capron 8202 covers would normally (e.g. with PTC in a household appliance) comply with this new standard. Generally, this material is acceptable if electrical connections (≥ 0.2 Amps) under the cover are placed ≥ 3 mm from the cover. However, if e.g. a special wiring of a HST start equipment (relay and not PTC) is used, the distance can be less than 3 mm.

Therefore, Danfoss will change the material of the cover in connection with our TL, NL, and FR compressors for 220-240V/50Hz operation from Capron 8202 to Ultramid B3S and in connection with our PL, TF, NF, FF, and SC compressors for 220-240V/50Hz operation to Noryl SE1. The change of material will take place by the end of September 2005 at the latest.

In case of the standard Ultramid cover (code no. 103N2010) for TL, NL, and FR it is permissible that an inside electrical connection touches the cover. However, there has to be a certain free space outside the cover ($\varnothing 20 \times 50$ mm to electrical connections). If this is not the case, the "disturbing" external part has to be of non-flammable material or it has to be able to pass the needle flame test.

220 - 240V / 50Hz		Material	
Compressor type	Cover code no.	Today	New
PL	103N0491	Capron 8202	Noryl SE1***
TL, NL, FR	Standard = 103N2010	Capron 8202	Ultramid B3S**
	Special = 103N2011		Noryl SE1***
TF, NF, SF	117U1023	Capron 8202	Noryl SE1***
SC	103N2009	Capron 8202	Noryl SE1***
Terminal board*	117U1022	Capron 8202	Noryl SE1***

The Noryl cover 103N2011 has to be used if

- Compressor and appliance have to be UL approved (e.g. for 220V 60Hz applications) or
- Flammable parts are surrounding the cover, inside $\varnothing 20 \times 50$ mm to electrical connections (≥ 0.2 Amps) and an electrical connection is closer than 3 mm to the cover.

* = special electric equipment (please see literature "Electrical Equipment for Compressors")

** = GWF1 850°C and 2 sec < GWT750°C < 60 sec / cover will be identified with a "W" printed on the material

*** = GWF1 850°C and GWT750°C < 2 sec / cover will be identified with "PPO" printed on the material

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