



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Danfoss Power Electronics A/S
Address	Ulsnæs 1, Graasten, 6300, Denmark
Place of Production	Aucom Electronics Limited 123 Wrights Road, Addington, Christchurch, New Zealand
Type	Soft Starters
Description	MCD6 series of Soft Starter for three phase electric motors, consists of: MCD6-0020B; MCD6-0034B; MCD6-0042B; MCD6-0063B; MCD6-0069B; MCD6-0086B; MCD6-0108B; MCD6-0129B; MCD6-0144B; MCD6-0171B; MCD6-0194B; MCD6-0244B; MCD6-0287B; MCD6-0323B; MCD6-0410B; MCD6-0527B; MCD6-0579B; MCD6-0654B; MCD6-0736B; MCD6-0950B; MCD6-1154B; MCD6-1250B; MCD6-0590C; MCD6-0667C; MCD6-0839C; MCD6-0979C; MCD6-1134C;
Trade Name	MCD600
Application	Marine applications for use in environmental categories ENV1, ENV2 in the "Equipment on bridge and deck zone" as defined in LR Type Approval System Test Specification No. 1 July 2015.
Specified Standard	IEC 60947-1:2007, incorporating amendment 1: 2010; IEC 60947-4-2:2011, incorporating corrigendum July 2012;

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A member of the Lloyd's Register group

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Ratings

Model code:
MCD6-XXXX B XX XX XX XXX:
XXXX: nominal current rating;
B=internal bypass, or C=non-bypass or optional external bypass
XX: main supply voltage:
T5=200~525 VAC
T7=380~690 VAC
XXX: Designates frame size:
S1X or S2X or S3X
XX: IP Rating
00=IP00
20=IP20
XXX: control supply voltage:
CV1: =24V AC/DC
CV2=110~120 VAC or 220~440 VAC

Additional Tests

Low temperature tested at -25°C for 16 hours;
Dry heat tested at 60°C for 16 hours;

Other Conditions

The approval covers hardware only, software has been tested to the extent required to verify correct operation during type approval tests only.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Singapore Pte Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 19-80004(E2)-02

The Design Appraisal Document LR25333695TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.