

Type Approval Certificate Extension

This is to certify that Certificate No. 05/10059 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Danfoss Drives A/C DK-6300, Graasten, Denmark
PLACE OF PRODUCTION	AuCom Electronics Limited 123 Wrights Road, Addington, Christchurch, 8440 New Zealand PO Box 80208, Christchurch
DESCRIPTION	MCD200 Series Soft Starters for Electric Motors
TYPE	MCD 20w - xxx - Ty - CVz

Where:-

w=Designates the Features of the Starter;

1 =Without Motor Protection

2=With Motor Protection (Overload, Phase Loss,
Excess Start Time, etc.)

xxx=Designates the Nominal Motor Rating;

007 kW to 110 kW

y=Designates the Maximum Voltage Rating;

6=575 V a.c.

z=Designates the Control Supply Voltage;

3=110 to 240 V a.c. & 380 to 440 V a.c.

1=24V a.c. or d.c.

APPLICATION	Soft starter for three phase electric motors for Marine, Offshore and Industrial applications for use in environmental categories ENV2 in "Bridge and Deck Zone" as defined in LR Type Approval System Test Specification No. 1-2002 where the Test Specification is satisfactory for the intended operation.
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Certificate No.	05/10059(E1)
Issue Date	27 October 2010
Expiry Date	26 October 2015
Sheet	1 of 2



S. Fujii
Yokohama Design Support Office
Lloyd's Register

Lloyd's Register, registered office:
71 Fenchurch Street, London EC3M 4BS

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ADDITIONAL TEST

- Low temperature test at -10°C
- Dry heat test at 60°C

DESIGN CODE & STANDARD

- Identical with CSX Soft Starters for Electric Motors in LR Type Approval Certificate No. 04/10097(E1) issued to AuCom Electronics Limited.
- Correspondence Between CSX Series and MCD200 Series: "Description of Product" 720 04051-00A MCD200 Lloyds Description.doc.

RATINGS

Type	Motor			Remark
	Operational Voltage (V)	kW	Operational Current (A)	
- 007	T6=200-575	007	18	Control Supply: Freq.=45-66Hz Volt. CV3=110-240 Va.c. 380-440 Va.c. CV1=24V a.c./d.c.
- 015		015	34	
- 018		018	42	
- 022		022	48	
- 030		030	60	
- 037		037	75	
- 045		045	85	
- 055		055	100	
- 075		075	140	
- 090		090	170	
- 110		110	200	

"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 of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 05/10059(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 05/10059 to which this extension should be attached.

Certificate No. 05/10059(E1)
 Issue Date 27 October 2010
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 Sheet 2 of 2



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