

Type Approval Certificate



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

Certificate No. 12 011 - 98 HH

Company DEIF A/S
Frisenborgvej 33
7800 Skive, DENMARK

Product Description Load sharing units

Type Uni-line: LSU-112DG; LSU-113DG; LSU-114DG; LSU-122DG

Environmental Category C/EMC2

Technical Data / Range of Application For load sharing between a number of generators.
LSU-112DG: Active load sharing
LSU-113DG: Active load sharing with reverse power protection
LSU-114DG: Active load sharing with start/stop function standby DG.
LSU-122DG: Reactive load sharing
Measuring Voltage: 57.7 ... 690 V AC; load: 2 kohm/V
Aux. supply: 57.7 ... 690 V AC or 24, 48, 110, 220 V DC
Frequency range: 45 ... 65 Hz
Accuracy: +/- 10 %; Repeatability: +/- 1 %; Power meas.: +/- 4 %
Derating adj.: 0 ... 50 % ~ derating of generator.
Ref. input: 0 ... 5 V DC ~ 0 ... 100 % for external power control
Ref. output: 5.0 V +/- 2 %, load >= 1 kohm; Relay out: Start/Stop/Rev. power relays: Change over contacts; Speed control relays: 1 make contact per relay; 250 V - 8 A - 2000 V A (AC), 24 V - 8 A - 200 W (DC)
Degree of protection: Case IP 40; Terminals IP 20

Test Standard Regulations for the Performance of Type Tests, Ed. 2003; Regulations for the Use of Computers and Computer Systems, Software Requirement Class 4

Documents Test reports : IPG 0092...0101 of 20.11.1997; IPG 0098; Installation instr.: 4189340128A; 4189340129A; 4189340130A; 4189340131A; Data sheets: 4921240118A; 4921240120A; 4921240122A; 4921240124A; Part lists: 2044450231B, 2044450213D, Diagrams: 4157200379D, 4

Remarks Internal failure and power supply failure to be alarmed in accordance with makers instructions.

Valid until 2018-11-23

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File No. I.B.02

Hamburg, 2013-11-24

Type Approval Symbol



Germanischer Lloyd

Arne Schaarmann

Thomas Hartmann