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.

11 350 - 98 HH

Company

DEIF A/S

Frisenborgvej 33 7800 Skive, DENMARK

Product Description

Electronic potentiometers

Type

Uni-line: EPN-110DN

Environmental Category

C; EMC2

Technical Data /
Range of Application

Converts relay output of the PI-step controllers of uni-line auto synchronizers and load sharing units to a DC control voltage for speed governors or AVRs.

Relay input: Potential-free contacts from Pl.step controller.

Analog out: 0 ... +/- 5 or 10 VDC without load; 0 ... +/- 0 ... 10 or 20 mA with load.

Output resistance: 0 ... 500 ohm. Off set adjustment: 0 ... +/-25 %

Integrating time: 2.5 ... 25 sec or 25 ... 250 sec. Aux. supply: 57.7 ... 690 V AC or 24, 48, 110, 220 V DC

Frequency range: 40 to 70 Hz

Accuracy: +/- 10 %; Repeatability: +/- 1 %; Hysteresis: 1 to 10 % Relay out: Indication of control pulses from PI-step controller:

1 change over contact per relay.

250 V - 8 A - 2000 VA (AC), 24 V - 8 A - 200 W (DC) Degree of protection: Case IP 40, terminals IP 20

Test Standard

Guidlines for the Performance of Type Approvals, Ed. 2012

Documents

Test report: IPG 0092...0101of 20.11.1997; IPG 0099

Data sheet: 4921240126A.

Part list: 2044450209C; Diagram: 4157200374C

Remarks

None

Valid until 2018-05-30

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File No.

I.J.04

Hamburg, 2013-05-31

Type Approval Symbol

GL

Germanischer Lloyd

Arne Schaarmann

Thomas Hartmann

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".