Certificate No: LR26256084TA
Issue Date: 11/01/2026
Expiry Date: 10/01/2031

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	**HD Hyundai Electric Co., Ltd.**
Address	477, Bundangsuseo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13553, South Korea
Place of Production	Gacia Electrical Appliance Co., Ltd No.1, Nanxijiang Road, Wenzhou Bridge Industrial Park, Beibaixiang Town, Yueqing City, Wenzhou City, Zhejiang, China
Type	Circuit Breakers (Env Tested)
Description	Moulded Case Circuit Breaker
Trade Name	HBD-52D
Application	Switching and Protection of Distribution Circuits Marine and offshore applications for use in environmental categories ENV3 as defined in Test Specification No.1 - 2021 where the Test Specification is satisfactory for the intended operation.
Specified Standard	IEC 60947-2
Ratings	(Alternating Current) Current Rating at 40°C(A): 10-50, Rated Voltage(V): 125/250, Breaking Current(rms Symmetrical, kA): 7.5/5, Making Current(Peak Asymmetrical, kA):

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Seong-Rae Noh

Electrical & Control - Senior Specialist to
Lloyd's Register Asia
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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11.47/7.42, Power Factor: 0.39/0.59

Notes
Overcurrent Release:
Overload: Thermal.
Short circuit: Instantaneous magnetic.

Other Conditions Type approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply. In case of applications other than marine, the application of the type approval certificate will be limited to the relevant scope of the specified standard and acceptance thereof by the local authorities.

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 Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR22148778TA-02

The Design Appraisal Document TSO/25-037183 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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