



TYPE APPROVAL CERTIFICATE

Certificate No. : GCH00857-EL001 **Initial Approval** : 20th March, 1984
Product : Moulded Case Circuit Breaker
Manufacturer : Dong A Electric Device Ind. Co., Ltd.
74, Dadae-ro 137beon-gil, Saha-gu, Busan

Product Description : Type : DB 22C, DB 23C, DB 32C, DB 33C, DB 52C,
DB 52Cb, DB 52Hb, DB 52Sb, DB 53C, DB 53Cb,
DB 53Hb, DB 53Sb, DB 62Cb, DB 63Cb, DB 72Cb,
DB 73Cb, DB 102Cb, DB 102Hb, DB 102Sb, DB 103Cb,
DB 103Hb, DB 103Sb, DB 202Cb, DB 202Hb, DB 202Sb,
DB 203Cb, DB 203Hb, DB 203Sb

" See Appendix 1 & 2 "

Approval Condition : Individual Product Certification is not required.

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 6, Ch. 1, Art. 803 of the Rules for Classification, Steel Ships.

This Certificate is valid until 19th March, 2025

Issued at Gamcheon, Korea on 21st July, 2020



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No (ME20026026175) and certificate No.(GCH00857-EL001).



KOREAN REGISTER

General Manager of
Gamcheon Branch Office

- Note :**
1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
 2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
 4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Appendix 1

Product Description and/or Approval Condition

Certificate No : GCH00857-EL001

Date of Issue : 21st July, 2020

Product Description :

Type	No. of Poles	Rated Voltage	Rated Current	Rated Breaking Capacity	Trip Device
DB 22C	2	AC 460V	3, 5, 10, 15, 20A	2.5kA at AC 220V 1.5kA at AC 460V	Magnetic Trip
DB 23C	3	AC 460V	3, 5, 10, 15, 20A	2.5kA at AC 220V 1.5kA at AC 460V	Magnetic Trip
DB 32C	2	AC 460V	3, 5, 10, 15, 20, 30A	2.5kA at AC 220V 1.5kA at AC 460V	Magnetic Trip
DB 33C	3	AC 460V	3, 5, 10, 15, 20, 30A	2.5kA at AC 220V 1.5kA at AC 460V	Magnetic Trip
DB 52C	2	AC 460V	40, 50A	2.5kA at AC 220V 1.5kA at AC 460V	Magnetic Trip
DB 52Cb	2	AC 460V	15, 20, 30, 40, 50A	10.0kA at AC 220V 5.0kA at AC 460V	Magnetic Trip
DB 52Hb	2	AC 460V	15, 20, 30, 40, 50A	50.0kA at AC 220V 25.0kA at AC 460V	Magnetic Trip
DB 52Sb	2	AC 460V	5, 10, 15, 20, 30, 40, 50A	22.0kA at AC 220V 10.0kA at AC 460V	Magnetic Trip
DB 53C	3	AC 460V	40, 50A	2.5kA at AC 220V 1.5kA at AC 460V	Magnetic Trip
DB 53Cb	3	AC 460V	15, 20, 30, 40, 50A	10.0kA at AC 220V 5.0kA at AC 460V	Magnetic Trip
DB 53Hb	3	AC 460V	15, 20, 30, 40, 50A	50.0kA at AC 220V 25.0kA at AC 460V	Magnetic Trip
DB 53Sb	3	AC 460V	5, 10, 15, 20, 30, 40, 50A	22.0kA at AC 220V 10.0kA at AC 460V	Magnetic Trip
DB 62Cb	2	AC 460V	15, 20, 30, 40, 50, 60A	10.0kA at AC 220V 5.0kA at AC 460V	Magnetic Trip
DB 63Cb	3	AC 460V	15, 20, 30, 40, 50, 60A	10.0kA at AC 220V 5.0kA at AC 460V	Magnetic Trip
DB 72Cb	2	AC 460V	75A	22.0kA at AC 220V 10.0kA at AC 460V	Magnetic Trip

<To be continued>

Product Description :

Type	No. of	Rated	Rated Current	Rated Breaking	Trip Device
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Appendix 1

Product Description and/or Approval Condition

Certificate No : GCH00857-EL001

Date of Issue : 21st July, 2020

	Poles	Voltage		Capacity	
DB 73Cb	3	AC 460V	75A	22.0kA at AC 220V 10.0kA at AC 460V	Magnetic Trip
DB 102Cb	2	AC 460V	15, 20, 30, 40, 50, 60, 75, 100A	22.0kA at AC 220V 10.0kA at AC 460V	Magnetic Trip
DB 102Hb	2	AC 460V	15, 20, 30, 40, 50, 60, 75, 100A	65.0kA at AC 220V 35.0kA at AC 460V	Magnetic Trip
DB 102Sb	2	AC 460V	15, 20, 30, 40, 50, 60, 75, 100A	50.0kA at AC 220V 25.0kA at AC 460V	Magnetic Trip
DB 103Cb	3	AC 460V	15, 20, 30, 40, 50, 60, 75, 100A	22.0kA at AC 220V 10.0kA at AC 460V	Magnetic Trip
DB 103Hb	3	AC 460V	15, 20, 30, 40, 50, 60, 75, 100A	65.0kA at AC 220V 35.0kA at AC 460V	Magnetic Trip
DB 103Sb	3	AC 460V	15, 20, 30, 40, 50, 60, 75, 100A	50.0kA at AC 220V 25.0kA at AC 460V	Magnetic Trip
DB 202Cb	2	AC 460V	125, 150, 175, 200, 225A	30.0kA at AC 220V 18.0kA at AC 460V	Magnetic Trip
DB 202Hb	2	AC 460V	100, 125, 150, 175, 200, 225A	65.0kA at AC 220V 35.0kA at AC 460V	Magnetic Trip
DB 202Sb	2	AC 460V	100, 125, 150, 175, 200, 225A	50.0kA at AC 220V 25.0kA at AC 460V	Magnetic Trip
DB 203Cb	3	AC 460V	125, 150, 175, 200, 225A	30.0kA at AC 220V 18.0kA at AC 460V	Magnetic Trip
DB 203Hb	3	AC 460V	100, 125, 150, 175, 200, 225A	65.0kA at AC 220V 35.0kA at AC 460V	Magnetic Trip
DB 203Sb	3	AC 460V	100, 125, 150, 175, 200, 225A	50.0kA at AC 220V 25.0kA at AC 460V	Magnetic Trip

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