



## ***Confirmation of Product Type Approval***

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 15/MAR/2020. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 20/AUG/2020 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

**Product Name: Molded Case Circuit Breaker**

**Model Name(s): Series CF Frame: FD, HFD, FDC, EHD, FDB, ED, EDB, EDS, EDH, EDC, FI, FDMP, HFDMP, FDE, HFDE, FDCE, FW, FWF, HFW, HFWK, FD--K, HFD--K, EHD--K, HMCP & HMCPS.**

**Presented to:**

EATON  
CARRETERA SANCHEZ KM 18.5  
PARQUE INDUSTRIAL ITABO, S.A. (PIISA)  
HAINA, SAN CRISTOBAL  
Dominican Republic

|                              |  |
|------------------------------|--|
| <b>Intended Service:</b>     | Marine & Offshore Application - Low Voltage Distribution Systems   |
| <b>Description:</b>          | Molded Case Circuit Breaker 1, 2, 3 & 4 Pole. Motor Circuit Protectors & Molded Case Switches available with Thermal Magnetic & Electronic Trip Units.   |
| <b>Tier:</b>                 | 3  |
| <b>Ratings:</b>              | Ampere Ratings : 15A to 225A Voltage: 240, 277, 347, 480 & 600 VAC; 125, 250 VDC Interrupting, Short Time Rating see details as per attached Data Sheets.  |
| <b>Service Restrictions:</b> | Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. (1) For ship applications relative to removable mounting see 4-8-3/5.3.3 (c) of the SV Rules. (2) Where used in locations with ambient temperatures greater than 40 °C the ratings (both normal and interrupting) are to be recalibrated/derated as appropriate. (3) For Marine use please note that the rated Ultimate Short-circuit Breaking Capacity (Icu) is to be the same as (and not higher than) the rated Short-circuit Service Breaking Capacity (Ics). |

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| <b>Comments:</b>                | Cutler Hammer Industrial Ltd - SAN CRISTOBAL, DOMINICAN REPUBLIC. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.   |
| <b>Notes / Documentation:</b>   | Series C Molded Case Circuit Breakers, F Frame: 10-225 Amp. File E-7819 Vol. FD, issued: 1994-08-17, 2008-08-19 File E-7819 Vol. FD, Section 1, and Report issued: 1995-07-08, 2008-07-17 File E-7819 Vol. MCP, Section 1, and Report issued: 1994-08-17, Revised 2008-08-19. File E-7819 Vol. MCP, Section 2, page: 12-16-86, Revised 4-25-96. File E-59918 Vol. 1, Section 7 and Report, issued: 1987-12-10, Revised: 2009-05-19 Eaton Cutler- Hammer Publication No.PA01200006E/26946 Series C, Molded Case Circuit Breakers 12-85- 10-25 Table 1, Series C, F Frame Circuit Breaker, UL 489 Ratings. Eaton Memo to ABS, dated 5/20/10 Catalogue Eaton No. CA01200002E Molded Case Circuit Breakers/F Frame KEMA Certificate No. 2012668.06 (Circuit BreakersType/Models FW and FWF) issued June 20 2001. KEMA Certificate No. 2012668.07 (Circuit BreakersType/Models CH and HFN) issued KEMA Certificate No. 2025423.02 (Circuit BreakersType/Models ( HFWK) issued April 9 2003. |
| <b>Term of Validity:</b>        | This Product Design Assessment (PDA) Certificate 15-VC1400804-PDA-DUP, dated 21/Aug/2015 remains valid until 20/Aug/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.   |
| <b>ABS Rules:</b>               | Rules for Conditions of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: 2015 Steel Vessel 4-8-3/5.3.3; Rules for Conditions of Classification, Part 1 – 2015 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following: 2015, ABS Mobile Offshore Drilling Units 6-1-7/13.1.1;  |
| <b>National Standards:</b>      | UL 489 10th Edition 2002, (UL File E7819 - Vol. FD, Issued 17 August 1994, Revised 19 August 2008 and Vol. MCP, Issued 17 August 1994, Revised 19 August 2008; UL File E59918 - Vol.1, Issued 17 August 1997, Revised 05 October 2008).  |
| <b>International Standards:</b> | IEC 60947-2 Edition 2.1:1998 (Kema Certificate 2012668.06 and 2012668.07 dated 20 June 2001) - For Model Nos. FW ,FWF and HFW only IEC 60947-2:1995 Edition 2.2: 2001 (Kema Certificate 2025423.02 9 April 2003) - For Model No. HFWK only   |

**Government Authority:**

EUMED:

Others:

| Model Certificate | Model Certificate No | Issue Date  | Expiry Date |
|-------------------|----------------------|-------------|-------------|
| PDA-DUP           | 15-VC1400804-PDA-DUP | 25/AUG/2015 | 20/AUG/2020 |



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.