Certificate Number: 10-HS597026-DUP

# *Confirmation of Product Type Approval 13/OCT/2010*

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This is to certify that, 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 27/SEP/2015. 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 01/JUL/2015 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.

## EATON CORPORATION

## Model Name(s): Series G (LG Frame) - LGE, L630E, LGE-C, LGS, L630S, LGS-C, LGH, L630H, LGH-C, LGE-DC, LGS-DC, LGH-DC, LGC, L630C, LGU, L630U, LGX, L630X, LHH, LH400H, Molded Case Switch (Fused): LGK--K, L630K, L400K & Motor Circuit Protector HMCPL600

**Presented to:**
EATON CORPORATION
ONE TUSCARAWUS ROAD
BEAVER
United States

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| **Intended Service:** | Marine & Offshore Application - Low Voltage Distribution Systems |
| **Description:** | 2, 3 & 4 Pole Molded Case Circuit Breaker, Motor Circuit Protectors and Molded Case Switches avaliable with Thermal Magnetic and Electonic Trip Units |
| **Ratings:** | UL Ratings- Ampere Ratings: 100 A to 600 A @ 40°C Ambient; Voltage: 240, 480 & 600 VAC; 250 & 600 VDC; IEC 60947-2 Ratings- Ampere Ratings: 250 A to 630 A @ 40°C; Voltage: 240, 415 VAC; 250 VDC; Interrupting, Short Time Rating see details as per attached "pdf" Data Sheets. |
| **Service Restrictions:** | 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 Capcity (Icu) is to be the same as (and not higher than) the rated Short-circuit Service Breaking Capacity (Isc). |
| **Comments:** | Original PDA resides with Eaton, Moon Township |


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| **Notes / Documentation:** | This Product Design Assessment (PDA) 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. Use in a non-classed vessel, MODU or Facility is to be to the satisfaction of the manufacturer and purchaser. |
| **Term of Validity:** | This Product Design Assessment (PDA) Certificate 10-HS597026-DUP, dated 02/Jul/2010 remains valid until 01/Jul/2015 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. |
| **ABS Rules:** | 2010 Steel Vessels Rules 1-1-4/7.7, 4-8-3/5.3.3, 4-8-2/9.3 |
| **National Standards:** | ANSI/UL 489 10th Edition ; UL File E7819 (Issued: 19 March 2010, Revised: 16 April 2010), UL File E59918 (Issued: 17 August 1994, Revised: 5 September 2008) |
| **International Standards:** | BS/BN 60947-2, KEMA Certificate 2038004.01, dated 27 August 2008 |
| **Government Authority:** | |
| **EUMED:** | |
| **Others:** | |

| Model Certificate | Model Certificate No | Issue Date | Expiry Date |
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| PDA-DUP | 10-HS597026-DUP | 02/JUL/2010 | 01/JUL/2015 |

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.


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