

EU Declaration of Conformity

EN

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|---|---|
| Declaration number | 850-869-845-889-MRK-DOC-C-02252K16e |
| Name of the manufacturer | GE MULTILIN INC. |
| Address of the manufacturer | 650 Markland Street, Markham , Ontario, L6C 0M1, Canada |
| Address of authorised representative | GE POWER MANAGEMENT S.L. , Avenida Pinoa 10, 48170 Zamudio, Spain |

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product / model 850, 869, 845, 889

Object of the declaration Feeder Management Relay, Motor Management Relay, Transformer Management Relay, Generator Management Relay

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

| | | |
|------------|-----------------------|-------------------|
| 2014/30/EU | EMC Directive | February 26, 2014 |
| 2014/35/EU | Low voltage Directive | February 26, 2014 |
| 1999/5/EC | R&TTE Directive | March 9, 1999 |

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

| Document Name | Issue |
|--|---------------|
| EN 60255-26 Electromagnetic compatibility requirements for Part 26: Measuring relays | 2013 |
| EN 60255-27 Measuring relays and protection equipment -Part 27: | 2014 |
| EN300 328 RF Spectrum use | V1.7.1 |
| EN301 -489-1 /17 EMC standard for radio equipment and services;Broadband data transmission systems | V1.9.2/V2.2.1 |
| EN60950-1 Information Technology equipment : Safety | 2006 |

Signed for and on behalf of: **Place and Date:** Markham Ont , 2/25/2016

Name: Michael Miller

Name: Boris Kacmar

Function: Engineering Manager, GE Multilin Inc

Function: Grid Solutions, Regulatory Compliance, Manager

Signature:



Signature:



Declaration number

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Additional Information

Also representative of 850,869 and 889.

Figure 1-3: 845 Order Codes

| | 845 | - | E | ** | ** | ** | H | * | * | A | * | N | G | * | * | * | * | * | * | N | |
|-----------------------------------|-----|---|---|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Interface | 845 | | | | | | | | | | | | | | | | | | | | 845 Transformer Protection System |
| Language | E | | | | | | | | | | | | | | | | | | | | English |
| Phase Currents – Slot J Bank 1/2 | NN | | | | | | | | | | | | | | | | | | | | Two windings, no voltage |
| | P1 | | | | | | | | | | | | | | | | | | | | 1A three-phase current inputs (J1) with voltage (J2) |
| | PS | | | | | | | | | | | | | | | | | | | | 5A three-phase current inputs (J1) with voltage (J2) |
| Phase Currents – Slot K Bank 1/2 | M1 | | | | | | | | | | | | | | | | | | | | 1A three-phase inputs (K1), 1A three-phase inputs (K2) |
| | M5 | | | | | | | | | | | | | | | | | | | | 5A three-phase inputs (K1), 5A three-phase inputs (K2) |
| | MX | | | | | | | | | | | | | | | | | | | | 5A three-phase inputs (K1), 1A three-phase inputs (K2) |
| | H1 | | | | | | | | | | | | | | | | | | | | 1A three-phase inputs (K1) - two windings with voltage |
| | H5 | | | | | | | | | | | | | | | | | | | | 5A three-phase inputs (K1) - two windings with voltage |
| | R1 | | | | | | | | | | | | | | | | | | | | 1A three-phase inputs (K1), 1A three-phase inputs (K2) - three windings with voltage |
| | R5 | | | | | | | | | | | | | | | | | | | | 5A three-phase inputs (K1), 5A three-phase inputs (K2) - three windings with voltage |
| Ground Currents | G1 | | | | | | | | | | | | | | | | | | | | 1A ground inputs |
| | G5 | | | | | | | | | | | | | | | | | | | | 5A ground inputs |
| | Q1 | | | | | | | | | | | | | | | | | | | | 5A (J1), 1A (K1) or 5A (K1), 1A (K2) |
| | Q2 | | | | | | | | | | | | | | | | | | | | 5A (J1) + 1A (K1) + 1A (K2) |
| | Q3 | | | | | | | | | | | | | | | | | | | | 1A (J1) + 5A (K1) + 5A (K2) |
| Power Supply | L | | | | | | | | | | | | | | | | | | | | 24 to 48 V DC |
| | H | | | | | | | | | | | | | | | | | | | | 110 to 250 V DC/110 to 230 V AC |
| Slot B - LV I/O | N | | | | | | | | | | | | | | | | | | | | None |
| | R | | | | | | | | | | | | | | | | | | | | 6 X RTDS (PT100, NI100, NI120) |
| | S | | | | | | | | | | | | | | | | | | | | 6 X RTDS (PT100, NI100, NI120, CU10) |
| Slot C - LV I/O | N | | | | | | | | | | | | | | | | | | | | None |
| | R | | | | | | | | | | | | | | | | | | | | 6 X RTDS (PT100, NI100, NI120) |
| | S | | | | | | | | | | | | | | | | | | | | 6 X RTDS (PT100, NI100, NI120, CU10) |
| Slot F - HV I/O | A | | | | | | | | | | | | | | | | | | | | 2 Form A (Vmon), 3 Form C, 7 Digital Inputs (Low/High Voltage, Int/Ext Supply) |
| Slot G - HV I/O | N | | | | | | | | | | | | | | | | | | | | None |
| | A | | | | | | | | | | | | | | | | | | | | 2 Form A (Vmon), 3 Form C, 7 Digital Inputs (Low/High Voltage, Int/Ext Supply) |
| | L | | | | | | | | | | | | | | | | | | | | 7 DcmA O/P + 4 DcmA I/P + 1 RTD (PT100, NI100, NI120) + 1 Ohm Input |
| Slot H - HV I/O | N | | | | | | | | | | | | | | | | | | | | None (High Voltage I/O) |
| | F | | | | | | | | | | | | | | | | | | | | 10 Digital Inputs + 4 Arc Flash Inputs |
| | A | | | | | | | | | | | | | | | | | | | | 2 Form A (Vmon), 3 Form C, 7 Digital Inputs (Low/High voltage, Int/Ext supply) |
| Faceplate | G | | | | | | | | | | | | | | | | | | | | Color Graphical Display |
| Current Protection | S | | | | | | | | | | | | | | | | | | | | Basic: 87T, 50/87, 50P, 50N, 50G, 51P, 51N, 51G, Transformer Overload |
| | M | | | | | | | | | | | | | | | | | | | | Standard configuration: Basic + 50_2, 51_2, RGF |
| | A | | | | | | | | | | | | | | | | | | | | Advanced: Standard + 67P, 67G, 67N (requires voltage selection) |
| Voltage Monitoring and Protection | N | | | | | | | | | | | | | | | | | | | | None |
| | S | | | | | | | | | | | | | | | | | | | | Standard Protection: 27P, 27X, 59P, 59N, 59X, 81Q/U |
| | P | | | | | | | | | | | | | | | | | | | | Advanced Protection: Standard Protection + 24, 25, 32, 59_2, 81R |
| Control | B | | | | | | | | | | | | | | | | | | | | Basic control: Setpoint Group Control, Virtual Inputs, Trip Bus, Breaker Control |
| | F | | | | | | | | | | | | | | | | | | | | Standard control: Basic control + FlexLogic, 50BF, VTFE (VTFE requires voltage selection) |
| Monitoring | B | | | | | | | | | | | | | | | | | | | | Basic: Breakers Coil Monitoring, Breaker Arcing, Harmonics, THD, Demand, Trip Counters, Harmonic Derating Factor |
| | C | | | | | | | | | | | | | | | | | | | | Standard: Basic + Breaker Health, Health Report, Thermal Elements, Tap Changer, Learned Data, Energization and Historical Max Record |
| | M | | | | | | | | | | | | | | | | | | | | M&D = Standard + Dissolved Gas Analysis, Integrated Fault Report |
| Communications | S | E | | | | | | | | | | | | | | | | | | | Standard = Front USB, 1x Rear RS485; Modbus RTU, DNP3.0, IEC60870-5-103 + 1 x Ethernet (Modbus TCP, DNP) |
| | 1 | E | | | | | | | | | | | | | | | | | | | Advanced = Front USB, 1x Rear RS485 + 2 x Ethernet Fiber, Modbus RTU/TCP, DNP3.0, IEC 60870-5-103/104, 1588, SNTF |
| | 1 | P | | | | | | | | | | | | | | | | | | | Advanced communications + PRP |
| | 2 | A | | | | | | | | | | | | | | | | | | | Advanced communications + IEC 61850 |
| | 2 | E | | | | | | | | | | | | | | | | | | | Advanced communications + PRP + IEC 61850 |
| Fiber Optic Connector | N | | | | | | | | | | | | | | | | | | | | None |
| | S | | | | | | | | | | | | | | | | | | | | ST, Multi-mode 1310 nm |
| | C | | | | | | | | | | | | | | | | | | | | RJ45, Copper 10/100M |
| Wireless Communication | N | | | | | | | | | | | | | | | | | | | | None |
| | W | | | | | | | | | | | | | | | | | | | | WiFi 802.11 |
| Security | B | | | | | | | | | | | | | | | | | | | | Basic security |
| | A | | | | | | | | | | | | | | | | | | | | Advanced security: CyberSentry Level 1 |
| Future Option | N | | | | | | | | | | | | | | | | | | | | Not Available |