



Lloyd's
Register

European Union Recognised Organisation (EU RO) Mutual Recognition Type Approval Certificate in accordance with Article 10.1 of EU Regulation 391/2009.

This is to certify to the Manufacturer named below, that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

This certificate is issued to:

PRODUCER	Vamp Ltd. (a member of Schneider Electric Group) Yrittäjänkatu 15 65380 Vaasa Finland
PLACE OF PRODUCTION	Crimppi Oy Liikekuja 7 65380 Vaasa Finland
DESCRIPTION AND/OR NAME OF PRODUCT	Protection relay

Certificate No.	18/00068
Issue Date	06 September 2018
Expiry Date	05 September 2023
Sheet	1 of 5

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS



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TYPE DESIGNATION

Easergy P3 protection relays
P3 ① - ①②③④⑤ - ⑥ A ⑦⑧ A - ⑨⑩ Version 2.1
Software version: 30. xxx

TYPE DESIGNATION

① Application
F30 = Feeder
L30 = Feeder with line differential and distance
M30 = Motor
M32 = Motor with differential
T32 = Transformer with differential
G30 = Generator
G32 = Generator with differential

① Nominal supply voltage [V]

C = Power C 110 - 230 V (80 .. 265V ac/dc, 5 x DO heavy duty, A1, SF)
D = Power D 24 - 48 V (18 .. 60Vdc, 5 x DO heavy duty, A1, SF)

② I/O Card I

A = None
G = 6DI+4DO (6 x DI, 4 x DO)
H = 6DI+4DO (6 x DI, 4 x DO(NC))
I = 10DI (10 x DI)

③ I/O Card II

A = None
G = 6DI+4DO (6 x DI, 4 x DO)
H = 6DI+4DO (6 x DI, 4 x DO(NC))
I = 10DI (10 x DI)

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LR031.1.2016.06

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**TYPE DESIGNATION
(continued)**

④ I/O Card III

- A = None
- G = 6DI+4DO (6 x DI, 4 x DO)
- H = 6DI+4DO (6 x DI, 4 x DO(NC))
- I = 10DI (10 x DI)
- T = 3xI (5/1A) + Io (5/1A) for transformer differential,
excludes I/O card in slot 5 (for T,/G32 /M32 types only)

⑤ I/O Card IV

- A = None
- G = 6DI+4DO (6 x DI, 4 x DO) (for F/G30/M30/L types
only)
- H = 6DI+4DO (6 x DI, 4 x DO(NC)) (for F/G30/M30/L types
only)
- I = 10DI (10 x DI) (for F/G30/M30/L types only)

⑥ Option Card I

- A = None
- D = 4Arc (4 x arc sensor)
- K = RS232 (RS232)
- S = Line differential communication card with distance
(for F/L types only)
- T = RS232 with line differential interface (for L type only)

⑦ Analog measurement card

- E = 3L(5A)+4U+2Io (5/1A+1/0,2A)
- F = 3L(1A)+4U+2Io (5/1A+1/0.2A)
- K = 3L(5A)+4U+2Io (5/1A + 1/0,2A) with intermittent e/f
- L = 3L(1A)+4U+2Io (5/1A + 1/0,2A) with intermittent e/f

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**TYPE DESIGNATION
(continued)**

- ⑧ Communication interface I
 - A = None
 - B = RS232 (RS232, IRIG-B)
 - C = RS232+RJ (RS232, IRIG-B + Ethernet RJ-45 100 Mbps)
 - D = RS232+LC (RS232, IRIG-B + Ethernet LC 100 Mbps)
 - N = 2xRJ (Ethernet RJ 100 Mbps, RSTP)
 - O = 2xLC (Ethernet LC 100 Mbps, RSTP)

- ⑨ Display type
 - B = 128x128 (128 x 128 LCD matrix)

- ⑩ DI nominal voltage
 - A = 24Vdc/ac, with conformal coating
 - B = 110 V dc/ac, with conformal coating
 - C = 200 V dc/ac, with conformal coating

APPLICATION

Applicable for ships as defined in Mutual Recognition provisions Article 10 Regulation on Common Rules and Standards for Ship Inspection and Survey Organisations.

Restricted to LV relays according to IEC 60947 - 5 - 1 and IEC 60255 installed on board ships with exceptions as per SOLAS Ch. I, Reg. 3;

Installation on board ships within locations with climatic, biological, chemically active, mechanically active and mechanical environmental conditions not exceeding those for which performance has been proved according to IEC 60721 - 3 - 6 (1993) + A2 (1997);

The requirements are not applicable for relays to be installed in areas where explosive gases or vapour atmospheres may occur.

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**APPLICATION
(continued)**

Environmental conditions:
 Temperature: -40°C and 70°C
 Vibration: 5 – 100 Hz, ±1mm / 0.7g_n, 10 -150 Hz ±0.075mm / 1g_n
 Shock: 100 m/s² (0.7g_n), 300 m/s² (30g_n)
 Bump: 200 m/s² (20g_n)
 EMC: general power distribution zones
 Enclosure: IP20 (back side), IP54 without vacuum front panel

STANDARDS

EU RO Mutual Recognition Technical Requirements,
 Electrical / Electronic Relays Version: 0.3 / 01.10.2016
 Applicable test for measuring relays and protection equipment
 according IEC60255-1:2009, EC60529:1989 + A1:1999 and
 IACS E10 Revision 6:2014.

RATINGS

Power supply: 110 to 230V ac/dc
 24 to 48V dc

"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 EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 18/00068 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

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