



**PROTOTYPE DESIGN ASSESSMENT CERTIFICATE**  
**No. ELE195722CS**

**This is to certify** that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	<b>Electromechanical control circuit devices_ switching elements and pilot lights</b>
<i>Type</i>	<b>Series LPF LPS with contact element LPXC and Supports LPXAU120M-LPXE10M-LPXE01M</b>
<i>Applicant</i>	<b>LOVATO ELECTRIC S.P.A. VIA DON EMILIO MAZZA, 12 24020 Gorle (BG) ITALY</b>
<i>Manufacturer</i>	<b>LOVATO ELECTRIC S.P.A.</b>
<i>Place of manufacture</i>	<b>VIA DON EMILIO MAZZA, 12 24020 Gorle (BG) ITALY</b>
<i>Reference standards</i>	<b>RINA Rules for the Classification of Ships - Part C- Machinery, Systems and Fire Protection - Ch.3 , Sect. 6, Table 1</b>

This certificate is issued on request of the Manufacturer based on the PDA certification scheme according to RINA Rules for Testing and Certification of Marine Materials and Equipment

*Issued in* **Genoa** on **May 23, 2022**. *This Certificate is valid until* **May 22, 2027**

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**RINA Services S.p.A.**  
**Luigi Benedetti**

This certificate consists of this page and 1 enclosure

**ELE195722CS**  
**Enclosure - Page 1 of 1**  
**Series LPF**  
**LPS and Suppots LPXAU120M-LPXE10M-LPXE01M**

**Materials/Components description & Ratings (see catalogue)**

**LPS (contact element LPXC)**

Rated Insulation Voltage: 690V.

Ith: 10A.

Utilization Categories IEC/EN/BS 60947-5-1 - A300 Q300.

AC15 performance:

<b>[V]</b>	12	24	48	120	240	400	480	500	600
<b>[A]</b>	6	6	6	6	6	3	1,5	1,4	1,2

DC13 performance:

<b>[V]</b>	12	24	48	125	250	440	500	600
<b>[A]</b>	3	3	1,5	0,55	0,27	0,15	0,13	0,1

Fuse, maximum allowed ratings: 10A gG.

Contact Resistance  $\leq 20\text{mOhm}$ .

**LPFD (contact element LPXC)**

Rated Insulation Voltage for LPFD01, LPFD03, LPFD05: 5VAC/DC

Rated Insulation Voltage for LPFD06: 50VAC/DC

Rated current LPFD01, LPFD03, LPFD05: 1,5A

Rated current LPFD06: 0,6A

Insulation Resistance  $\geq 100\text{MOhm}$

Contact Resistance LPFD01, LPFD03, LPFD05  $\leq 30\text{mOhm}$

Contact Resistance LPFD06  $\leq 40\text{mOhm}$

Degree of protection:

IP65 on the front (with fitted cap)

**Reference documents**

TAO-APP compiled 22/04/2022

Catalogo generale Lovato\_Electric 2021/2022

Test Report RE-210909-2 dated 01/09/2021

Test Report RE-211223-1 dated 22/12/2021

Test Report RE-220127-5 dated 20/01/2022

Test Report RE-220422-1 dated 22/04/2022

Test Report RE-211012-1 dated 06/10/2021

**May 23, 2022**