



**TYPE APPROVAL CERTIFICATE**  
**No. ELE113725XP**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>Low Voltage Electric Motor</b>
<i>Type</i>	<b>Types MS &amp; Y2E2; HMA2 &amp; HMC2; HMA3 &amp; HMC3</b>
<i>Applicant</i>	<b>SVEND HOYER A/S OVER HADSTENVEJ 42 DK-8370 HADSTEN DENMARK</b>
<i>Manufacturer</i>	<b>SVEND HOYER A/S</b>
<i>Place of manufacture</i>	<b>SEE ATTACHMENT</b>
<i>Reference standards</i>	<b>IEC 60034-1; RINA Rules Part C, Chapter 2, Section 4.</b>

*Issued in* **Gdańsk** on **September 24, 2025**. *This Certificate is valid until* **September 23, 2030**



*B. Wroblewski* ON BEHALF OF ADAM MEJER  
**RINA Services S.p.A.**  
**Adam Mejer**

This certificate consists of this page and 1 enclosure





## TYPE APPROVAL CERTIFICATE

No. ELE113725XP

Enclosure - Page 1 of 2

Types MS & Y2E2

HMA2 & HMC2

HMA3 & HMC3

### Product Description:

Asynchronous Low-Voltage IEC-Motor platform for marine and offshore applications.

### Types of Product:

#### ALUMINUM CASE

Three phase Cage Induction Marine Motors IE1- Type MS

Three phase Cage Induction Marine Motors IE2- Type HMA2

Three phase Cage Induction Marine Motors IE3- Type HMA3

#### CAST IRON CASE

Three phase Cage Induction Marine Motors IE1- Type Y2E2

Three phase Cage Induction Marine Motors IE2- Type HMC2

Three phase Cage Induction Marine Motors IE3- Type HMC3

### Technical Data:

Frame Material:	Aluminium
Number of poles:	2 to 8
Height of frame	56, 63, 71, 80, 90, 100, 112, 132, 160, 180
Power supply	230V to 690V at 50-60Hz
Enclosure	IP55, IP56, IP65, IP66
Cooling	IC 411, IC410, IC416
Ambient temperature	40 deg C to 60 deg C
Duty type	S1 to S9
Insulation class	F or H
Temperature rise	B or F
Frame Material	Cast Iron
Number of poles	2 to 8
Height of frame	63,71,80,90,100,112,132,180,200,225,250,280,315, 355, 400
Power supply	230V to 690V at 50-60Hz
Enclosure	IP55, IP56, IP65, IP66
Cooling	IC 411, IC410, IC416
Ambient temperature	40 deg C to 60 deg C
Duty type	S1 to S9
Insulation class	F or H
Temperature rise	B or F





## TYPE APPROVAL CERTIFICATE

No. **ELE113725XP**

Enclosure - Page 2 of 2

Types MS & Y2E2

HMA2 & HMC2

HMA3 & HMC3

### Documents:

Test reports filed by RINA with No. PLFP/430

- MS90L-2 - 2.2kW
- TTR2IC23151Q2SL
- TTR3IA10900A1SL
- TTR3IA20900A1SL
- TTR3IC23151A2SL
- Y2E2-315M-4

Drawings/Lists etc filed by RINA with No. PLFP/429

- HMA2\_HMC2\_motor type item table
- HMA3\_HMC3\_motor type item table
- MS\_Y2E2\_motor type item table
- SH063048-03 Marine Motors Classification INTERNAL

### Places of Production:

- See Production sites\_Hoyer.

### Second Applicant:

Svend Hoyer Power Transmission (Ningbo) Co., Ltd

No 338 Anju Road, Beilun District

315821 Ningbo, Zhejiang

P.R.C.

### Remarks:

- This approval is given on the understanding that the society reserves the right to require check tests to be carried out on the units at any time and Hoyer – which includes two companies Svend Hoyer A/S Denmark and Svend Hoyer Power Transmission in China will accept full responsibility for informing shipbuilders, ship-owners or their subcontractors of the proper methods of use and general maintenance of the units and the conditions of this approval.
- Raw material of shaft is to be supplied by approved manufacturers of RINA or to be satisfactory to the surveyor.
- All motors having rated power of 100 kW and above, intended for essential services are to be surveyed by the society during testing and, if appropriate, during manufacturing. (An alternative inspection scheme may be agreed by the society with the manufacturer whereby the attendance of the surveyor will not be required as indicated above.) See RINA rules, part C, chapter 2, section 4 paragraph 3.

This certificate has replaced the previous certificate no. ELE092420XP

**Gdańsk September 24, 2025**

RINA Services S.p.A.  
Via Corsica, 12 - 16128 Genova  
Tel +39 010 53851  
Fax +39 010 5351000

