

Overview



Low-voltage motors in the marine version can be used below deck on ships and in the offshore industry. The thermal utilization of the motors is matched to the generally higher ambient temperatures on board ship. If the application demands compliance with additional regulations, e.g. protection against explosion hazards, the appropriate motor series must be chosen.

The motors on board ships are generally subdivided into three classes of importance by the marine classification societies in cooperation with customers, depending on the field of application:

- **Essential Service for Propulsion** or also referred to as Primary Essential Service
- **Essential Service** or also referred to as Secondary Essential Service or Important Service
- **Non-Essential Service** or also referred to as Non-Important Service

The class of importance must be specified by the customer (ordering party).

The categories include the following requirements of the classification societies:

	Class of importance Essential Service for Propulsion	Essential Service	Non-Essential Service
Typical applications	Propeller drive, thruster	Thrusters, lateral thrust units, anchor winches, bilge and ballast pumps, fire-fighting pumps	Pumps for industrial water
Version	In accordance with regulations of the classification society		In accordance with ambient conditions of the classification society
Acceptance test certificate	Acceptance test certificate 3.2 according to EN 10204	Acceptance test certificate 3.1 according to EN 10204	None
Individual acceptance by classification society	Necessary if no type test certificate exists or the rated power lies above the limit defined by the classification society		Not necessary
Type test	Not a requirement of the classification societies For standard motors up to frame size 315 L, a type test certificate is supplied. These motors can only be ordered with options E11 to E51 in accordance with the classification society.		
Ordering several identical motors	In the order, the first motor must be distinguished from the additional motors using an option code		No distinction
Rating plate data	Information about ambient conditions of the classification society		
Stamp of the classification society	Stamp on shaft and housing		No stamp

Type test (type approval)

All motors (with the exception of 1LA8, 1PQ8, 1LL8 and 1LH8 motors) are manufactured and type tested in accordance with the regulations of the following international classification societies:

- GL (Germanischer Lloyd, Germany)



Germanischer Lloyd

- DNV (Det Norske Veritas, Norway)



- LR (Lloyds Register, Great Britain)



- BV (Bureau Veritas, France)



As an option, we can manufacture motors in accordance with the following classification societies:

- ABS (American Bureau of Shipping, USA)
- RINA (Registro Italiano Navale, Italy)
- CCS (Chinese Classification Society, China)

A type test certificate will however only be issued following individual acceptance testing.

Special versions that differ from the range defined in the Catalog are possible on request.