

Most standard motors of Siemens AG can be used as marine motors if the appropriate order codes are used.
The following table shows the standard motor series that are available with type testing up to frame size 315 L:

Motor type	Standard degree of protection	Frame design	Motor series 1)	Motor frame sizes	Output range in kW Output data for mains-fed operation 50 Hz at CT 45 °C in temperature class 155 (F), used according to 155 (F).
Self-ventilated motors with improved efficiency	IP55	Aluminum	1LA7	56 M ... 160 L	0.06 ... 18.5
			1LA5	180 M ... 225 M	11 ... 45
		Cast-iron	1LA6	100 L ... 160 L	0.75 ... 18.5
			1LG4	180 M ... 315 L	11 ... 200
Self-ventilated motors with high efficiency	IP55	Aluminum	1LA9	56 M ... 200 L	0.06 ... 37
		Cast-iron	1LG6	180 M ... 315 L	11 ... 200

The type approved and self-cooled motor series 1LP4, 1LP5, 1LP6 and 1LP7 in frame sizes 63 M to 315 L with derating without external fan and fan cover can be supplied on request.

For technical specifications and selection and ordering data, see the relevant sections of “Standard motors up to frame size 315 L”.

Ordering example:

Selection criteria	Requirement	Structure of the Order No.
Motor type	Standard motor with improved efficiency, IP55 degree of protection, cast-iron version	1LG4
No. of poles/speed	4-pole/1500 rpm	1LG4 253-4AA
Rated output	55 kW	
Voltage and frequency	400 VΔ/690 VY, 50 Hz	1LG4253-4AA 6
Type of construction	IM B3	1LG4253-4AA 60
Paint finish	Special paint finish in RAL 5007	1LG4253-4AA60- Z Y54 Plain text: RAL 5007
Marine version	Drive for “essential services” with type test certificate according to Germanischer Lloyd with coolant temperature CT 45 °C	1LG4253-4AA60-Z Y54+ E11 Plain text: RAL 5007
	Individual acceptance (by marine classification society)	1LG4253-4AA60-Z Y54+E11+ E10 Plain text: RAL 5007
	Type test with heat run for horizontal motors, with acceptance	1LG4253-4AA60-Z Y54+E11+E10+ F83 Plain text: RAL 5007

The ordering example is valid for an order quantity of 1 item. For larger order quantities, a type test with heat run (order code **F83**) only has to be ordered for one motor. For all other identical motors, order code F83 is not required. The order must be subdivided into two order items.

Example for ordering 5 items:

Order item	Quantity (items)	Order No.
1	1	1LG4253-4AA60-Z Y54+E11+E10+ F83 Plain text: RAL 5007
2	4	1LG4253-4AA60-Z Y54+E11+E10 Plain text: RAL 5007

For further information about order codes see “Special versions”.

1) For 1LA9 motors with increased output, derating is necessary. Please contact your local Siemens office for advice.