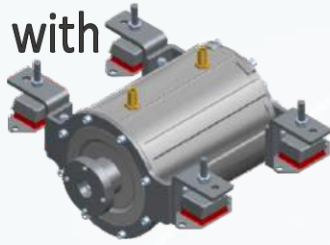


Brushless DC motors PMM marine with permanent magnets



- ▶ Pioneering winding structure
- ▶ Innovative technological decisions, improving overall performance, energy efficiency, increasing stability of permanent magnets
- ▶ Low weight
- ▶ Max. power = 2 Rated power
- ▶ Competitive price

The designed motors are manufactured to endure the requirements of the future to the electric boats. Our main task is going forward to find the opportunity to contribute our knowledge, our expertise and our own designed products to the green life future that satisfy ever higher Customer requirements. To achieve this purpose we build wider range of electric motors for electric boats.

The advantages of permanent magnet excitation motors versus induction motors are:

- weight reduced 2-3 times;
- no electrical losses in the rotor, resulting higher efficiency and significant reduction of bearing temperature and life extension;
- not magnetizing current across the entire speed range, resulting also higher efficiency;

Item	Battery V	Rated power kW	Rated speed RPM	Rated torque Nm	Rated current A	efficiency	mass kg	protection	Liquid cooling L/min	L mm	L1 mm	L2 mm
PMM marine 6-48-S	48	6	1450	40	125	0,94	25	IP 66	3	110	176	252
PMM marine 6-48-L	48	6	700	80	125	0,92	32	IP 66	5	160	226	302
PMM marine 10-48-S	48	10	1450	66	208	0,947	30	IP 66	4	130	196	272
PMM marine 10-48-L	48	10	700	136	208	0,94	41	IP 66	8	200	266	342
PMM marine 17-48-S	48	17	1450	112	355	0,94	37	IP 66	7	190	256	332
PMM marine 17-48-L	48	17	700	232	355	0,92	35	IP 66	10	250	316	392
PMM marine 19-48	48	19	1800	101	395	0,94	32	IP 66	5	160	226	302
PMM marine 20-48	48	20	1450	132	420	0,94	37	IP 66	6	180	246	322
PMM marine 25-48-S	48	25	5000	48	520	0,93	24	IP 66	4	95	161	237
PMM marine 25-48-L	48	25	2500	96	520	0,95	30	IP 66	5	130	196	272
PMM marine 30-48	48	30	1450	198	630	0,94	46	IP 66	8	320	386	462
PMM marine 40-48	48	40	1450	264	850	0,93	46	IP 66	8	240	306	382
PMM marine 20-96	96	20	1450	132	215	0,94	41	IP 66	8	200	266	342
PMM marine 25-96	96	25	1450	165	280	0,94	41	IP 66	7	200	266	342
PMM marine 40-96	96	40	1550	246	430	0,93	48	IP 66	10	280	346	422
PMM marine 25-144	144	25	2500	96	180	0,95	33	IP 66	5	150	216	292
PMM marine 35-144-S	144	35	3500	96	240	0,96	36	IP 66	5	170	236	312
PMM marine 35-144-L	144	35	1450	230	240	0,93	52	IP 66	10	340	406	482
PMM marine 50-144-S	144	50	2500	194	350	0,96	49	IP 66	8	284	350	426
PMM marine 50-144-L	144	50	1450	330	350	0,93	52	IP 66	10	340	406	482
PMM marine 50-180	180	50	1800	265	265	0,96	50	IP 66	10	290	356	432

MOUNTING DIMENSIONS ON CUSTOMER REQUEST

