

caprari

MMP

**PERMANENT
MAGNET
SUBMERSIBLE
MOTORS**

MADE IN ITALY

5,5÷300HP

6" - 8" - 10"

EFFICIENCY
>90%

***DRINKING
WATER***
CERTIFICATIONS



TECHNICAL SPECIFICATIONS

- Water-filled rewindable motors
- Motor diameters: 6-8-10"
- Powers available: 5,5÷300HP / 4÷220kW
- Frequency/rotation speed/supply voltage:
 - 100Hz – 3000rpm – 400V±10%
 - 120Hz – 3600rpm – 460V±10%
- Minimum operating frequency: 60Hz
- Maximum fluid temperature: 30°C
- Protection degree: IP68
- Insulation class: Y
- Maximum number of starts/hour: 20
- Installation: horizontal/vertical

IDEAL FOR

MUNICIPALITIES

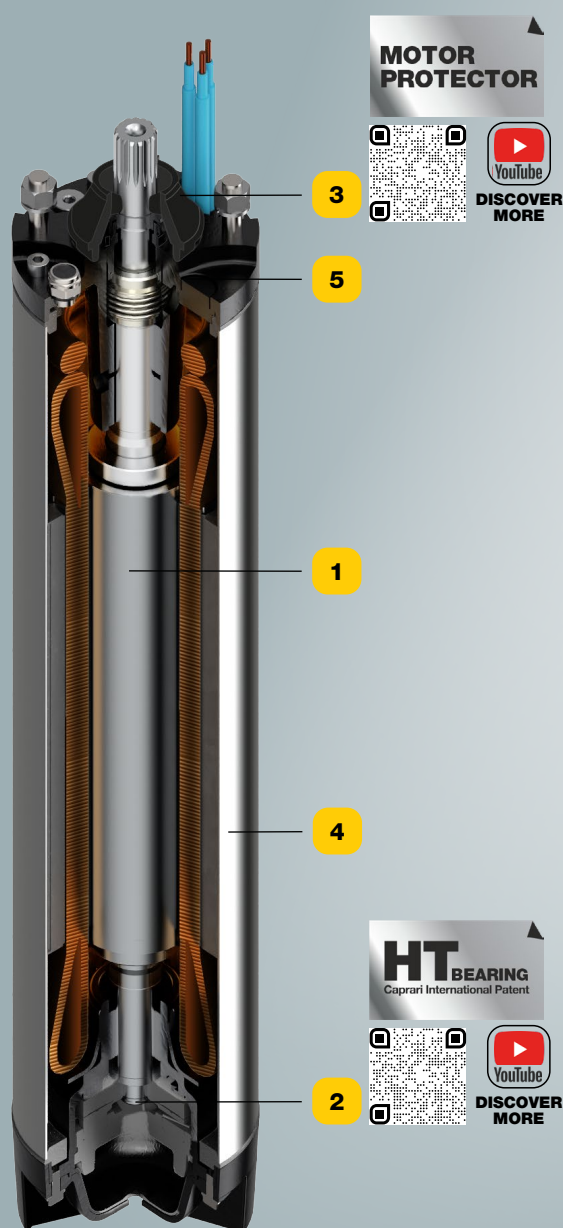
INDUSTRY

INFRASTRUCTURES

DOMESTIC

IRRIGATION

CERTIFICATIONS



WHY CHOOSE MMP

1 MAXIMUM ENERGY SAVING

- Efficiency above 90%
- Low consumption and operating costs

2 HIGH THRUST BEARING

International Patent

- Maximum resistance to axial thrusts, up to 70.000N: 3 times greater than conventional devices
- Simplicity and reliability: unique innovative design with reduced number of components

3 MOTOR PROTECTOR: ANTI-SAND DEVICE

- Operational safety: coupling area and mechanical seal protection
- Extreme abrasion resistance

4 INSTALLATION FLEXIBILITY

- Low installation costs: reduced cable cross-sections
- Cast iron and AISI 316 stainless steel versions
- Dimensions reduced by 30%

5 CERTIFICATIONS AND STANDARD

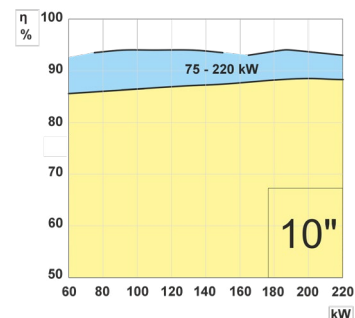
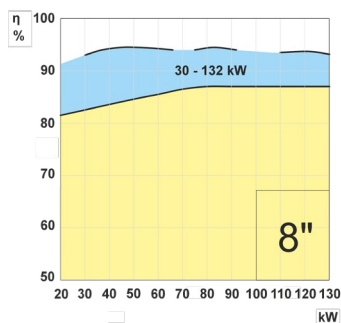
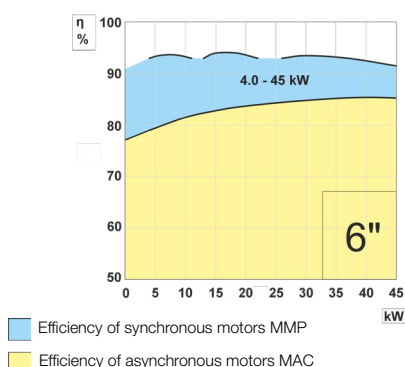
- Coupling according to international standard NEMA 6-8
- Drinking water certifications: D.M.174, ACS, WRAS
- Made in Italy – 100% tested

TECHNICAL DATA 100Hz/400V

Part number	Motor power		Nominal current full load	Cos φ^* 4/4	Efficiency rating 4/4	Axial load	Speed
	[kW]	[HP]	[A]		%	[N]	[rpm]
MMP(W)615/1C-8	4	5,5	8,6	0,715	93,0	30.000	3.000
	5,5	7,5	10,6	0,740	93,5		
	7,5	10	13,7	0,760	93,5		
	9,2	12,5	16,9	0,780	93,0		
	11	15	20,5	0,800	91,0		
MMP(W)630/1C-8	13	17	24,9	0,805	93,0	30.000	3.000
	15	20	27,6	0,825	94,0		
	18,5	25	33,6	0,855	93,5		
	22	30	40,7	0,885	92,0		
MMP(W)660/1C-8	26	35	50,8	0,915	93,0	30.000	3.000
	30	40	57,2	0,920	93,5		
	37	50	70,6	0,935	93,0		
	45	60	89,3	0,940	91,5		
MMP(W)890/1C-8	30	40	50	0,930	93,0	50.000	3.000
	37	50	61	0,940	93,0		
	45	60	73	0,950	93,5		
	51	70	82	0,955	94,0		
	59	80	95	0,955	94,0		
	66	90	110	0,920	94,0		
MMP(W)8125/1C-8	66	90	110	0,920	94,0	50.000	3.000
	75	100	127	0,920	94,0		
	92	125	153	0,920	94,0		
MMP(W)8180/1C-8	92	125	153	0,920	94,0	50.000	3.000
	110	150	184	0,920	93,5		
	132	180	222	0,920	93,0		
MMP(W)10200/1C-8	75	100	127	0,910	94,0	70.000	3.000
	92	125	153	0,925	94,0		
	110	150	199	0,850	94,0		
	132	180	239	0,850	94,0		
	150	200	282	0,820	94,0		
MMP(W)10300/1C-8	165	220	313	0,810	94,0	70.000	3.000
	185	250	351	0,810	94,0		
	190	260	364	0,810	94,0		
	220	300	420	0,810	94,0		

*Value referred to the motor, not rephased by the VSD

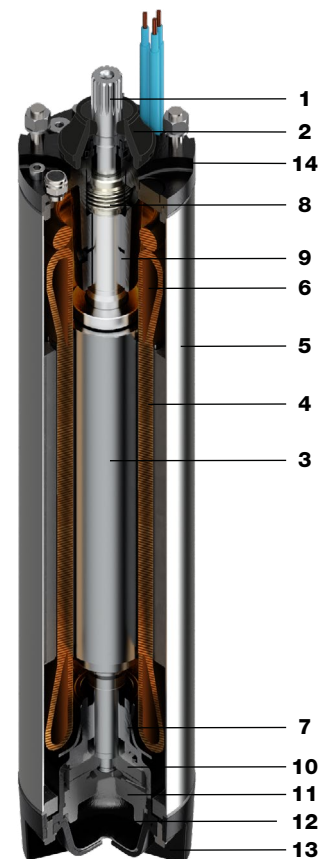
EFFICIENCY AT 3000 rpm



MOTOR CONSTRUCTION

N.	Components	Materials
1	Shaft	Stainless steel
2	Sand guard	Rubber
3	Rotor	Magnetic metal sheet
4	Stator	Magnetic metal sheet
5	Stator sleeve	Stainless steel
6	Windings	PE2+PA
7	Lower support	Cast iron*
8	Mechanical seal	Silicon carbide/silicon carbide
9	Bearing	Graphite
10	Thrust bearing	Brass/Synthetic composite
11	Thrust support	Cast iron
12	Membrane	Rubber
13	Membrane cover	Technopolymer*
14	Upper support	Cast iron*

*Stainless steel in MMPW version



DIMENSIONS AND WEIGHTS

Part number	L	ØE	A	Cable cross-section F		Weight
	[mm]	[mm]	[m]	-8 [mm²]	-9 [mm²]	
MMP(W)615/1C-8	660	143	4,5	3x1x2,5	*	37,9
MMP(W)630/1C-8	775	143	4,5	3x1x4	*	58,4
MMP(W)660/1C-8	975	143	4,5	3x1x10	*	80,5
MMP(W)890/1C-8	1210	191	4,5	*	*	*
MMP(W)8125/1C-8	1335	191	4,5	*	*	*
MMP(W)8180/1C-8	1485	191	4,5	*	*	*
MMP(W)10200/1C-8	1776	242	4,5	*	*	*
MMP(W)10300/1C-8	1876	242	4,5	*	*	*

*On request - contact Caprari sales network

