

**caprari**

# MMP

**PERMANENT  
MAGNET  
SUBMERSIBLE  
MOTORS**

**MADE IN ITALY**

**5,5÷340HP**

**6" - 8" - 10"**

**EFFICIENCY  
>90%**

**DRINKING  
WATER  
CERTIFICATIONS**



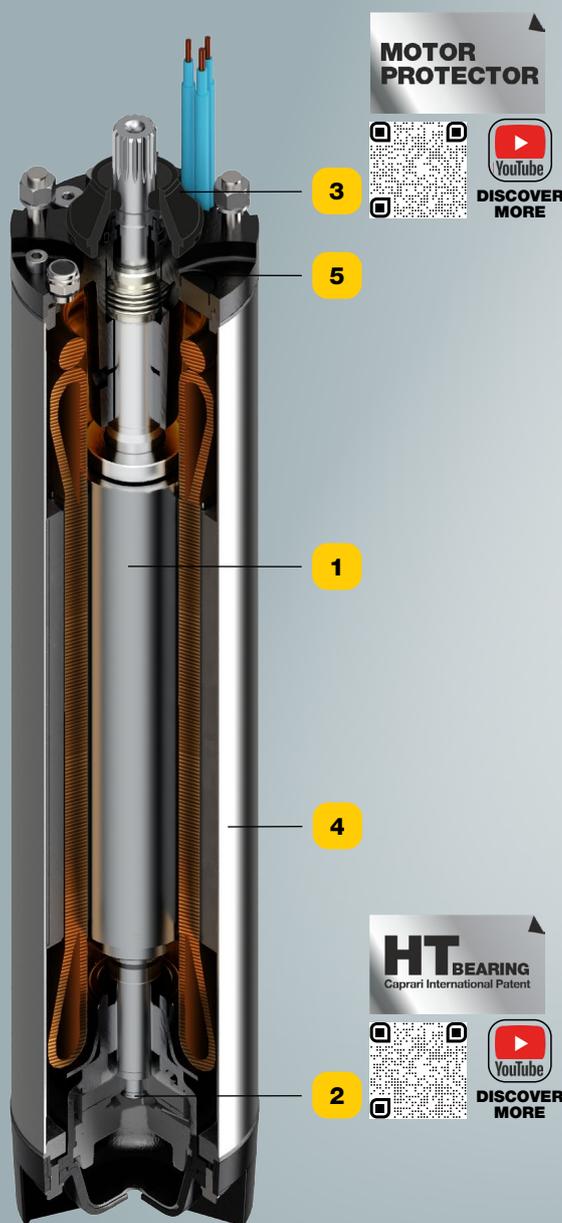
## TECHNICAL SPECIFICATIONS

- Water-filled rewindable motors
- Motor diameters: 6-8-10"
- Powers available: 5,5÷340HP / 4÷250kW
- 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

<b>MUNICIPALITIES</b>
<b>INDUSTRY</b>
<b>INFRASTRUCTURES</b>
<b>DOMESTIC</b>
<b>IRRIGATION</b>

## CERTIFICATIONS



## WHY CHOOSE MMP

### 1 MAXIMUM ENERGY SAVING

- Efficiency above 90%
- Low consumption and operating costs

### 2 HIGH THRUST BEARING

- 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

*International Patent*

### 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

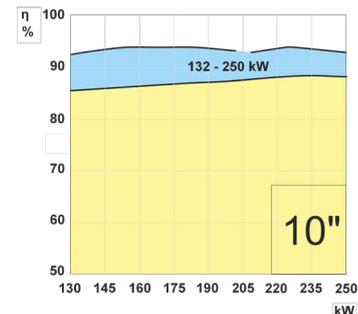
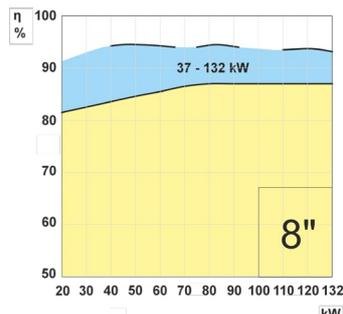
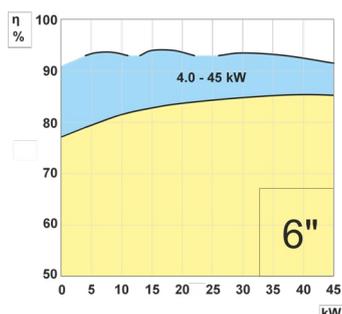
## TECHNICAL DATA 100Hz/400V

Part number	Motor power		Nominal current full load	Cos φ		Efficiency rating	Axial load	Speed
	[kW]	[HP]		[A]	Motor			
MMP(W)615/1C-8	4	5,5	8,6	0,8	0,8 - 0,86	93,0	30.000	3.000
	5,5	7,5	10,6	0,8	0,8 - 0,86	93,5		
	7,5	10	13,7	0,8	0,8 - 0,86	93,5		
	9,2	12,5	16,9	0,8	0,8 - 0,86	93,0		
	11	15	20,5	0,815	0,8 - 0,86	91,0		
MMP(W)630/1C-8	13	17	24,9	0,8	0,85 - 0,92	93,0	30.000	3.000
	15	20	27,6	0,8	0,85 - 0,92	94,0		
	18,5	25	33,6	0,8	0,85 - 0,92	93,5		
	22	30	40,7	0,8	0,85 - 0,92	92,0		
MMP(W)660/1C-8	26	35	52,3	0,8	0,92 - 0,96	93,0	30.000	3.000
	30	40	59,4	0,8	0,92 - 0,96	93,5		
	37	50	71,9	0,8	0,92 - 0,96	93,0		
	45	60	88,1	0,8	0,92 - 0,96	91,5		
MMP(W)890/1C-8	37	50	71,5	0,805	0,86-0,92	92,6	50.000	3.000
	45	60	87,1	0,805	0,86-0,92	93,5		
	51	70	98,1	0,805	0,86-0,92	93,7		
	59	80	112,1	0,805	0,86-0,92	94,3		
	66	90	125,9	0,805	0,86-0,92	93,8		
MMP(W)8125/1C-8	66	90	120,9	0,84	0,90-0,94	93,8	50.000	3.000
	75	100	137,1	0,84	0,90-0,94	94		
	92	125	167,1	0,85	0,90-0,94	93,5		
MMP(W)8180/1C-8	92	125	171,6	0,83	0,91-0,94	94,2	50.000	3.000
	110	150	202,7	0,83	0,91-0,94	94,2		
	132	180	244,4	0,83	0,91-0,94	93,5		
MMP(W)10270/1C-8	132	180	**	**	**	**	70.000	3.000
	150	200	**	**	**	**		
	165	220	**	**	**	**		
	185	250	**	**	**	**		
	200	270	**	**	**	**		
MMP(W)10340/1C-8	200	270	**	**	**	**	70.000	3.000
	220	300	**	**	**	**		
	250	340	**	**	**	**		

\*Data refer to Inverter input current (motor and electronics integrated system).

\*\*On request - contact Caprari sales network

## EFFICIENCY AT 3000 rpm



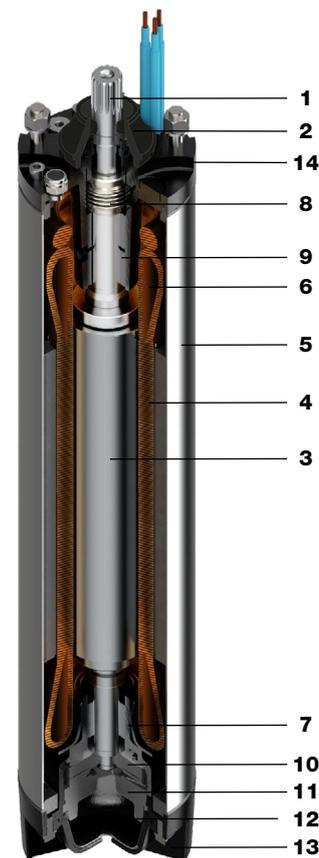
■ Efficiency of synchronous motors MMP  
 ■ Efficiency of asynchronous motors MAC

## 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 6", 8", 10"

\*\*Stainless steel in MMPW version 8", 10"



## DIMENSIONS AND WEIGHTS

Part number	L	ØE	A	Cable cross-section F		Weight [Kg]
	[mm]	[mm]	[m]	-8 [mm <sup>2</sup> ]	-9 [mm <sup>2</sup> ]	
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)10270/1C-8	1776	242	4,5	*	*	*
MMP(W)10340/1C-8	1876	242	4,5	*	*	*

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