

# MMB

Morsbach Maschinen Bau GmbH.

## MMB 6" SUBMERSIBLE MOTORS CATALOGUE 50 Hz



Our company MMB was established in 2008 in the city of Cologne, Germany. MMB has developed to have many branches around the world.

#### CLOSE WINDING TYPE

## SALIENT FEATURES

- ⊖ Mounting Diameters Are As Per NEMA Standard.
- ⊖ Motor portion covered with corrosive resistance Stainless Steel 304 shell.
- ⊖ Thread type motor construction ensures service feasibility.
- ⊖ Double Sand Guard Design.
- ⊖ Available With Mechanical Seal or Double Oil Seal.
- ⊖ All Casted Parts Are Available With Special Coated Paint & Also With CED Coating.
- ⊖ Rotors Are Dynamically Balanced at 2850+ RPM To Reduce Vibration & Noise.
- ⊖ Rotors Are Painted With Special Epoxy Paints To Prevent Rust.
- ⊖ Special Design for Wide Voltage Range.
- ⊖ Highly Efficient Motors.
- ⊖ High Quality Materials and CNC Machined Component Ensure more Reliability and Better Performance.
- ⊖ Fully SS pump sets are available in SS-304 Grade.
- ⊖ Design Available With Copper Rotor & Aluminium Rotor.
- ⊖ Customized Models Available As Per Request.

## TECHNICAL DETAILS

- Motor Rating With Power Rating:  
Rewindable 6" Submersible Motors:  
5.5HP To 60 HP.
- Voltage Range: 250 V To 440 V  
Voltage Tolerance: ± 10%
- Frequency: 50 Hz / 60 Hz
- Protection Class: IP 68
- Insulation Class: Y
- Start Per Hours 20 Max
- Type Of Duty: S1
- Max Ambient Temp of 33°C  
with a minimum Cooling Flow 0.5m/s

MATERIAL OF CONSTRUCTION	
PARTS NAME	MATERIAL
ROTOR SHAFT	S.S. 420
RUBBER SAND GUARD	NBR
S.S. SEAL RING COVER	S.S. 304
CABLE 3 CORE / 4 CORE	P.V.C. / EPR
ALL FASTNERS	S.S. 304
MECHANICAL SEAL	CERAMIC + CARBON
OIL SEAL	NBR
BEARING BUSH	CARBON
BRACKET	GRADED CASTING
UPPER HOUSING	GRADED CASTING
WINDING WIRE	POLY WRAP COPPER WIRE
MOTOR SHELL	S.S. 304
LOWER HOUSING	GRADED CASTING
THRUST BEARING SET	S.S. 420 + CARBON
DIAPHRAGM	NBR
MOTOR BASE	GRADED CASTING
MOTOR BASE COVER	GRADED CASTING

WEIGHT CHART			
kW	HP	MOTOR NET WEIGHT (kg)	MOTOR GROSS WEIGHT (Including Packing) (kg)
4.00	5.50	47.50	50.50
5.50	7.50	48.50	54.00
7.50	10.00	52.00	57.00
9.20	12.50	59.50	62.50
11.00	15.00	64.50	70.00
13.00	17.50	68.50	74.00
15.00	20.00	78.00	84.00
18.50	25.00	84.50	91.00
22.00	30.00	93.00	101.00
26.00	35.00	105.00	113.00
30.00	40.00	112.30	121.00
37.00	50.00	123.50	132.00
45.00	60.00	142.00	150.00

### 50Hz - Three Phase

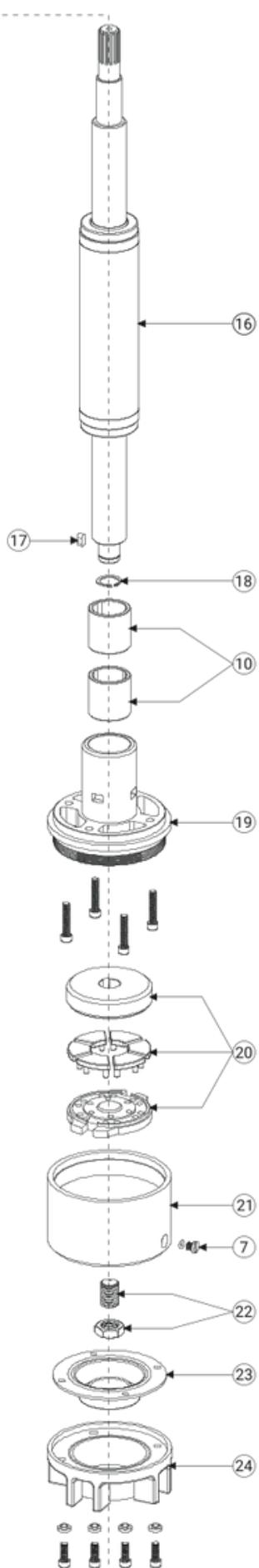
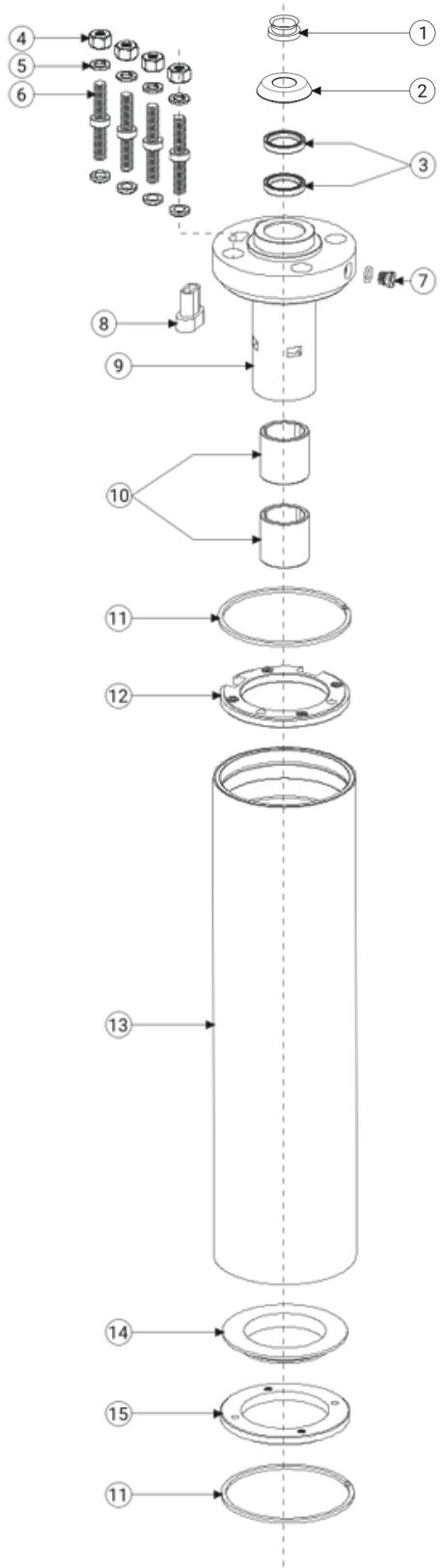
#### Technical Data Sheet For 6" Motors - 50 Hz

Type	Rated Output		Axial Thrust Load (N)	Rated Voltage (V)	RPM	Full Load Current (A)	Starting Current (A)	Efficiency At Diff. Load %			Power Factor At Diff. Load %			Full Load Torque	Starting Torque
	H.P.	kW						50	75	100	50	75	100		
6TA 05	5.50	4.00	15500	380	2865	10.00	47.00	71.00	74.00	76.00	0.60	0.72	0.78	13.00	17.20
6TA 07	7.50	5.50	15500	380	2870	14.00	47.00	73.00	76.00	76.00	0.69	0.80	0.84	18.50	23.80
6TA 10	10.00	7.50	15500	380	2865	18.00	58.00	77.00	78.00	78.00	0.71	0.79	0.82	25.00	32.30
6TA 12	12.50	9.20	15500	380	2870	22.00	75.00	79.00	80.00	79.00	0.70	0.80	0.84	31.00	41.20
6TA 15	15.00	11.00	15500	380	2870	26.00	93.00	77.00	80.00	78.00	0.72	0.81	0.84	36.50	49.70
6TA 17	17.50	13.00	15500	380	2880	30.00	117.00	79.00	81.00	80.00	0.70	0.80	0.80	43.30	45.20
6TA 20	20.00	15.00	15500	380	2880	34.00	140.00	80.00	82.00	81.00	0.73	0.82	0.85	49.80	53.90
6TA 25	25.00	18.05	15500	380	2880	42.00	171.00	80.00	82.00	81.00	0.80	0.84	0.84	61.80	75.30
6TA 30	30.00	22.00	15500	380	2880	49.00	217.00	82.00	83.00	84.00	0.70	0.79	0.84	72.70	91.20
6TA 35	35.00	26.00	15500	380	2880	58.00	267.00	82.00	84.00	83.00	0.69	0.79	0.85	86.00	120.50
6TA 40	40.00	30.00	27500	380	2880	65.00	329.00	81.00	84.00	83.00	0.68	0.77	0.84	98.90	135.10
6TA 50	50.00	37.00	27500	380	2880	80.00	406.00	82.00	83.00	83.00	0.68	0.80	0.84	122.20	192.70
6TA 60	60.00	45.00	27500	380	2880	93.00	456.00	83.00	84.00	84.00	0.69	0.81	0.84	149.00	218.00

\* Model 6TB with Cast Iron Ends



## CLOSE WINDING TYPE



SR NO	PART NAME
1	RUBBER SAND GUARD
2	SAND GUARD
3	OIL SEAL
4	HEX NUT
5	SPRING WASHER
6	STUD
7	DRAIN PLUG
8	CABLE GROMMET
9	UPPER HOUSING
10	CARBON BUSH
11	STATOR LOCK
12	UPPER STUD RING
13	STATOR
14	WINDING CAP
15	LOWER STUD RING
16	ROTOR (COPPER / ALUMINIUM)
17	KEY
18	CIRCLIP
19	LOWER HOUSING
20	THRUST BEARING SET
21	MOTOR BASE
22	ROCKER SUPPORT WITH NUT
23	DIAPHRAGM
24	MOTOR BASE COVER

