

MMB

Morsbach Maschinen Bau GmbH.

MMB 8" 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.

SALIENT FEATURES

- ⦿ Mounting Diameters Are As Per NEMA Standard.
- ⦿ Double Sand Guard Design.
- ⦿ Rigid and Durable Construction.
- ⦿ Special designed thrust bearing to withstand high axial thrust load.
- ⦿ 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.
- ⦿ Customized Models Available As Per Request.

TECHNICAL DETAILS

- Motor Rating With Power Rating:
Rewindable 8" Submersible Motors: 40 HP. To 150 HP.
- Voltage Range: 350 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

WEIGHT CHART

kW	HP	MOTOR NET WEIGHT (kg)	MOTOR GROSS WEIGHT (Including Packing) (kg)
30.00	40.00	146.80	157.30
37.00	50.00	166.00	177.50
45.00	60.00	185.50	197.50
55.00	75.00	198.50	212.00
63.00	85.00	208.50	222.00
75.00	100.00	222.00	236.00
93.00	125.00	248.50	263.00
110.00	150.00	337.50	352.00

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
ADAPTOR	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 OR SILICON CORBIDE
DIAPHRAGM	NBR
MOTOR BASE	GRADED CASTING
MOTOR BASE COVER	GRADED CASTING

Motor Outer Diameter:
From 40Hp to 125Hp : 197mm | 150Hp : 220mm

50Hz - Three Phase

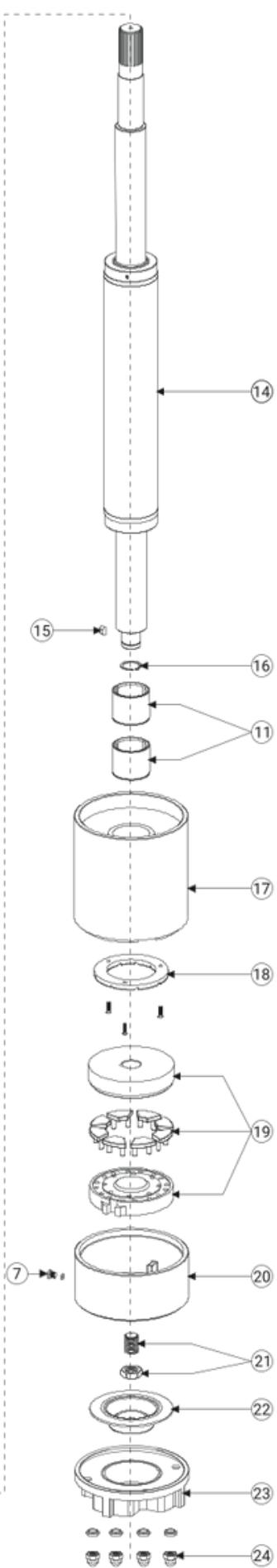
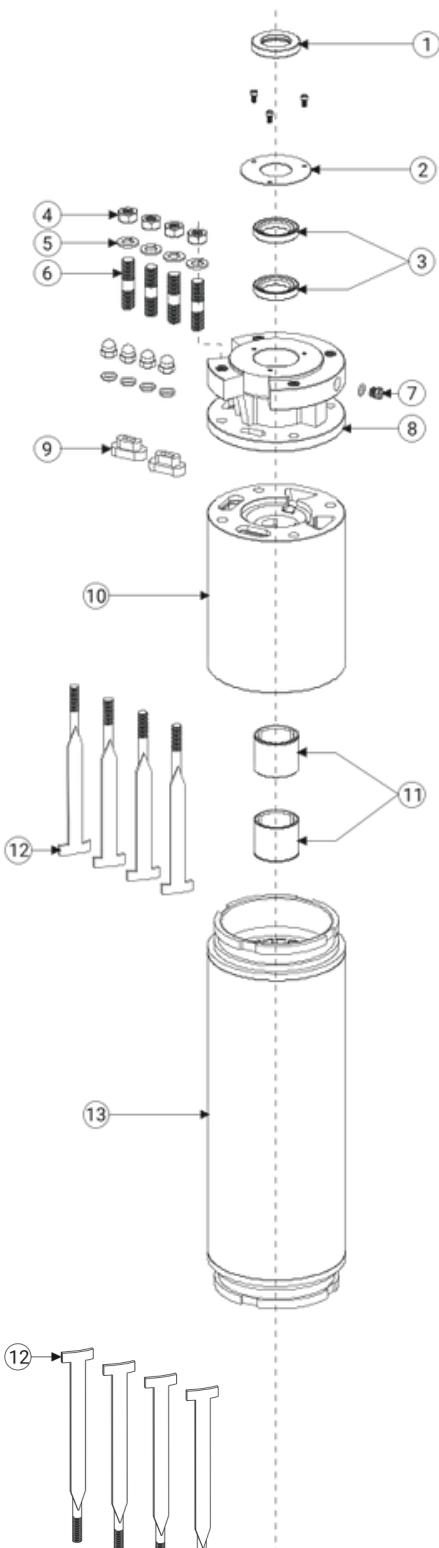
Technical Data Sheet For 8" Motors - 50 Hz

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		
8TB 40	40.00	30.00	45000	380	2850	65.00	262.00	83.50	84.50	83.30	0.89	0.89	0.90	99.00	126.00
8TB 50	50.00	37.00	45000	380	2850	79.00	324.00	84.50	85.30	84.10	0.82	0.86	0.88	122.00	155.00
8TB 60	60.00	45.00	45000	380	2850	93.00	374.00	85.80	86.60	85.30	0.81	0.85	0.88	149.00	218.00
8TB 75	75.00	55.00	45000	380	2875	111.00	444.00	86.50	86.80	85.70	0.79	0.85	0.88	182.00	302.00
8TB 85	85.00	63.00	45000	380	2875	126.00	502.00	86.70	87.10	85.80	0.80	0.85	0.88	220.00	352.00
8TB 100	100.00	75.00	45000	380	2875	155.00	620.00	86.90	87.30	85.90	0.79	0.86	0.89	258.00	420.00
8TB 125	125.00	93.00	45000	380	2875	192.00	768.00	87.90	88.60	87.90	0.79	0.78	0.88	305.00	558.00
8TB 150	150.00	110.00	76000	380	2875	220.00	1326.00	87.90	88.60	87.90	0.79	0.86	0.89	365.00	658.00

* Model 8TA - Full Stainless Steel Construction



OPEN WINDING TYPE



SR NO	PART NAME
1	RUBBER SAND GUARD
2	S.S. SEAL RING COVER
3	OIL SEAL
4	HEX NUT
5	SPRING WASHER
6	STUD
7	DRAIN PLUG
8	ADAPTOR
9	CABLE GROMMET
10	UPPER HOUSING
11	CARBON BUSH
12	T - BOLT
13	STATOR
14	ROTOR
15	KEY
16	CIRCLIP
17	LOWER HOUSING
18	TEFLON WASHER
19	THRUST BEARING SET
20	MOTOR BASE
21	ROCKER SUPPORT WITH NUT
22	DIAPHRAGM
23	MOTOR BASE COVER
24	DOM NUT

