

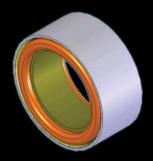
Practicing the advantage of a new permanent magnet motor technology



MWB400 PERMANENT MAGNET MOTOR & GENERATOR FAMILY - TECHNICAL DATA

Ext diameter = 400mm Nnom = 325 RPM Nmax = 600 RPM $\cos \varphi = 0.92$

Isolat.Class = H Thrm.Class = F fnom = 65 Hz fmax = 120 Hz





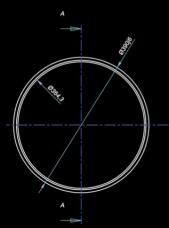
MWB400 stator



The stator housing can be made with air or water cooling

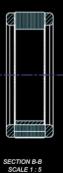


The rotor can be easily incorporated in a mechanical structure

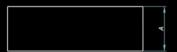




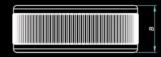




EXTERNAL ROTOR



INTERNAL STATOR



Motor Type
MWB400-01
MWB400-02
MWB400-03

325 RPM					
Pnom	Pnom	n T			
[KW]	[HP]	[Nm]			
7,5	10	225			
15	20	443			
22,5	30	660			

60	O RPM	
Pnom	Pnon	i T
[KW]	[HP]	[Nm
11,2	15	178
22,5	30	358
33,7	45	536

Α	В	Rot W	Stat W	Mot W
[mm]	[mm]	[kg]	[kg]	[Kg]
86	93	8,5	19,5	28
128	135	12,3	32,0	45
170	177	17.2	43.8	61



MWB400 is a surface permanent magnet, low speed, synchronous motor and generator family with external rotor and internal stator. Unique and advanced design of these machines offers multiple and innovative applications, high power concentration (W/cm3) and large constant power / constant voltage control range.

FEATURES |

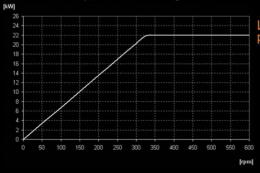
- Unique design
- · Mechanical and chemical PM protection
- · Constant torque & constant power control features
- Very low torque ripple
- Low vibration
- High efficiency
- High W/Kg ratio
- · Ambient friendly machine
- Low thermal dissipation
- · Long life operation

BENEFITS |

- · Multiple applications
- · Lower weight
- Lower cost
- Smoother running
- Constant torque across RPM's
- Constant power control
- · Higher efficiency under various conditions
- Chemically protected PM segments

APPLICATIONS

- · Industrial applications
- Marine applications
- · Wind turbines
- Hvdro Turbines
- · Electric vehicles traction
- · Mining and drilling
- · Oil industry
- Power generation
- · Paper industry
- Elevators
- Winders
- Winches



Long constant power range

TEMA MWB400



Testing the MWB400 for wheel integrated applications



A water or air cooled heat sink can be fitted in the stator



Precise and high quality winding



The rotor is step skewed to reduce torque ripple