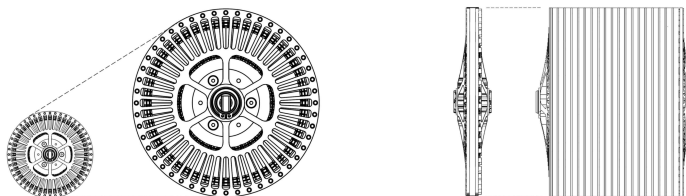


AF24PM -S3-304

Outer diameter= 304mm

Number of Stacks 3 (73..8mm width)


ELECTRICALDESIGNDATA
24 Poles Permanent Magnet Motor

Nominal speed	n =	4940 RPM	
Continuous power	P _{out} =	14.4 kW	
Maximum power output	P _{max} =	19 kW	
Peak Torque	T =	36 Nm	(12Nm per stack)
Nominal DC voltage	U _{dc} =	150 V	
Peak Phase Current	I _f =	180 A	(60A per stack)
Motor Velocity Constant	KV =	32 rpm/V	
Fundamental Frequency	f =	988 Hz	
Internal Resistance	R _{int} =	27 mΩ	
Torque constant	Kt =	0,23 Nm/A	
Electrical efficiency	η =	95 %	

MECHANICALDESIGNDATA

Weight	W =	5.3 kg	Shaft integration (no housing)
Operating Ambient Temperature	T _{a (min/max)} =	-20/+50 °C	
Method of Cooling		Open Self Ventilation	
Maximum speed	n _{max} =	6000 RPM	

Bearing Calculation Data

Basic dynamic load rating	C =	6.76 kN
Basic static load rating	C ₀ =	6.8 kN
Limiting speed		10.000 RPM

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