



SHANGHAI TOP MOTOR CO., LTD.

## Technical Data Sheet

General data	
Frame size	180
Housing material	Casting iron
Install model	According to the standard
Type of feet	Removable feet (Standard) <i>Fixed feet</i> (Optional)
Net weight	173 kg
Insulation class	F (Standard) H (Optional)
Protection degree	IP 55 (Standard) IP 56 (Optional)
Thermal protection	Without (Standard) <i>Customizable</i> (Optional)
Rotation direction	Clockwise (Standard) <i>Counter clockwise</i> (Optional)
Service duty	S1
Vibration level	A
Balance	Half-key balanced
Cable glands	2 - M32× 1.5
Cooling	IC 411
Painting color	RAL 7024 (Standard) <i>Customizable</i> (Optional)
Regulations	IEC / DIN / ISO / VDE / EN
Standard	IEC 60034

Environmental conditions	
Ambient temperature	From -20°C to +40°C
Maximum altitude	1000 m above sea level

Electrical data		
Output	15	kW
Frequency	50	Hz
Voltage (±5%)	400 690 480 828	V Δ @ 50Hz V Y @ 50Hz V Δ @ 60Hz V Y @ 60Hz
Rotation speed	960 1152	RPM @ 50Hz RPM @ 60Hz
Rated current	30.05 17.35	A (In) @ Δ 50Hz A (In) @ Y 50Hz
Starting current	7.4	×In
Rated torque	149.21875	Nm (Mn)
Starting torque	2.5	×Mn
Breakdown torque	2.8	×Mn
Efficiency	91.2 92 90.3	IE3 @ 100% load @ 75% load @ 50% load
Power factor cosφ	0.79	@ 100% load

Mechanical data		
Bearings brand	C&U <i>Customizable</i>	(Standard) (Optional)
Bearings type	6311 C3 6311 C3	(DE) (NDE)
Lifetime of bearings		hours
Allowed radial load		3935 N
Allowed axial load		30000 N
Grease type	polyurea-based grease	
Lubrication interval of NDE bearing	24000 h	
Lubrication interval of DE bearing	24000 h	
Moment of inertia	0.27973	Kg*m <sup>2</sup>
Noise level	73	dB(A)

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