SHANGHAI TOP MOTOR CO., LTD.

Technical Data Sheet

General data		
Frame size	160	
Housing material	Aluminum	
Install model	According to the standard	
Type of feet	Removable feet	
Net weight	132 kg	
Insulation class	F *H*	(Standard) *(Optional)*
Protection degree	IP 55 *IP 56*	(Standard) *(Optional)*
Thermal protection	Without *Customizable*	(Standard) *(Optional)*
Rotation direction	Clockwise *Counter clockwise*	(Standard) *(Optional)*
Service duty	S1	
Vibration level	A	
Balance	Half-key balanced	
Cable glands	2 - M32 × 1.5	
Cooling	IC 411	
Painting color	RAL 7024 *Customizable*	(Standard) *(Optional)*
Regulations	IEC / DIN / ISO / VDE / EN	
Standard	IEC 60034	

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

Electrical data		
Output	22	kW
Frequency	50	Hz
Voltage (±5%)	400 690 480 828	V Δ @ 50Hz V Y @ 50Hz V Δ @ 60Hz V Y @ 60Hz
Rotation speed	2960 3550	RPM @ 50Hz RPM @ 60Hz
Rated current	37.6 21.7	A (In) @ Δ 50Hz A (In) @ Y 50Hz
Starting current	12.7	×In
Rated torque	70.98	Nm (Mn)
Starting torque	3.8	×Mn
Breakdown torque	4	×Mn
Efficiency	IE3 92.7 92.8 92.5	 @ 100% load @ 75% load @ 50% load
Power factor cosφ	0.91	@ 100% load

Mechanical data		
Bearings brand	C&U *Customizable*	(Standard) *(Optional)*
Bearings type	6309 2RZ C3 6209 2RZ C3	(DE) (NDE)
Lifetime of bearings		20000 hours
Allowed radial load Allowed axial load		2408.24 N 1392.7 N
Grease type		
Lubrication interval of NDE bearing Lubrication interval of DE bearing		h h
Moment of inertia	0.10749	Kg*m²
Noise level	88	dB(A)

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