



T3C 280S 6

Technical data sheet

General data	
Frame size	280
Housing material	Casting iron
Install model	According to the standard
Type of feet	Removable feet
Net weight	478 kg
Insulation class	F
Protection degree	IP 55
Thermal protection	PTC
Rotation direction	Clockwise
Service duty	S1
Vibration level	A
Balance	Half-key balanced
Cable glands	2 - M50× 1.5
Cooling	IC 411
Painting color	RAL 5010
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	45	kW
Frequency	50	Hz
Voltage (±5%)	400 690 480 828	V Δ @ 50Hz V Y @ 50Hz V Δ @ 60Hz V Y @ 60Hz
Rotation speed	980 1176	RPM @ 50Hz RPM @ 60Hz
Rated current	83.52 48.22	A (In) @ Δ 50Hz A (In) @ Y 50Hz
Starting current	8.9	×In
Rated torque	438.52040816	Nm (Mn)
Starting torque	2.5	×Mn
Breakdown torque	2.8	×Mn
Efficiency	93.7 94.6 92.7	IE3 @ 100% load @ 75% load @ 50% load
Power factor cosφ	0.83	@ 100% load

Mechanical data		
Bearings brand	FAG	
Bearings type	6316 C3 6316 C3	(DE) (NDE)
Lifetime of bearings	hours	
Allowed radial load Allowed axial load	9750 N 57700 N	
Grease type	polyurea-based grease	
Lubrication interval of NDE bearing Lubrication interval of DE bearing	14000 h 14000 h	
Moment of inertia	2.20274	Kg*m²
Noise level	78	dB(A)