KEM MOTOR

3L280M-8

Technical data sheet

General data	
Frame size	280M
Housing material	Casting iron
Install model	According to the standard
Type of feet	Fixed feet
Net weight	593
Insulation class	F
Protection degree	IP 55
Thermal protection	3x PTC 150°C
Rotation direction	Clockwise
Service duty	S1
Vibration level	A
Balance	Half-key balanced
Cable glands	2×M63
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 altitute	1000 m above sea level

Electrical data		
Output	45	kW
Frequency	50	Hz
Voltage (±5%)	400	V Δ @ 50Hz
	690	V Y @ 50Hz
Rotation speed	745	RPM @ 50Hz
	894	RPM @ 60Hz
Rated current	89.2	A (In) @ Δ 50Hz
	51.5	A (In) @ Y 50Hz
Starting current	6.7	×In
Rated torque	576.8	Nm (Mn)
Starting torque	1.9	×Mn
Breakdown torque	2	×Mn
Efficiency	IE3	
	92.20%	@ 100% load
	92.40%	@ 75% load
	90.40%	@ 50% load
Power factor cosφ	0.79	@ 100% load
Bearings brand	SKF/NSK/FAG Explorer	
Bearings type	6316 C3	(DE)
	6316 C3	(NDE)

Mechanical data		
Allowed radial load		-
Allowed axial load		-
Lubrication interval of NDE bearing		6000
Lubrication interval of DE bearing		6000
Moment of inertia	1.65	Kg*m²
Noise level	76	dB(A)