KEM MOTOR

3L180M-4

Technical data sheet

General data	
Frame size	180M
Housing material	Casting iron
Install model	According to the standard
Type of feet	Fixed feet
Net weight	202
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×M40
Cooling	IC 411
Painting color	RAL 5010
Regulations	IEC / DIN / ISO / VDE / EN
Standard	IEC 60034

Electrical data		
Output	18.5	kW
Frequency	50	Hz
Voltage (±5%)	400	V Δ @ 50Hz
	690	V Y @ 50Hz
Rotation speed	1470	RPM @ 50Hz
	1764	RPM @ 60Hz
Rated current	33.5	A (In) @ Δ 50Hz
	19.3	A (In) @ Y 50Hz
Starting current	7.8	×In
Rated torque	120.2	Nm (Mn)
Starting torque	2	×Mn
Breakdown torque	2.3	×Mn
Efficiency	IE3	
	92.60%	@ 100% load
	93.40%	@ 75% load
	92.40%	@ 50% load
Power factor cosφ	0.86	@ 100% load
Bearings brand	SKF/NSK/FAG Explorer	
Bearings type	6311 C3	(DE)
	6311 C3	(NDE)

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

Mechanical data		
Allowed radial load		-
Allowed axial load		-
Lubrication interval of NDE bearing		11000
Lubrication interval of DE bearing		11000
Moment of inertia	0.2381	Kg*m²
Noise level	76	dB(A)