KEM MOTOR

4L-280M-2

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	735
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 7024
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	90	kW
Frequency	50	Hz
Voltage (±5%)	400	V Δ @ 50Hz
	690	V Y @ 50Hz
Rotation speed	2980	RPM @ 50Hz
	3576	RPM @ 60Hz
Rated current	152.4	A (In) @ Δ 50Hz
	88	A (In) @ Y 50Hz
Starting current	7.1	×In
Rated torque	288.4	Nm (Mn)
Starting torque	1.8	×Mn
Breakdown torque	2.3	×Mn
Efficiency	IE4	
	95.80%	@ 100% load
	95.06%	@ 75% load
	93.41%	@ 50% load
Power factor cosφ	0.89	@ 100% load
Bearings brand	SKF/NSK/FAG Explorer	
Bearings type	6314	(DE)
	6314	(NDE)

Mechanical data		
Allowed radial load		-
Allowed axial load		-
Lubrication interval of NDE bearing		1200
Lubrication interval of DE bearing		1200
Moment of inertia	1.1568	Kg*m²
Noise level	91	dB(A)