KEM MOTOR

3L280S-6

Technical data sheet

General data	
Frame size	280S
Housing material	Casting iron
Install model	According to the standard
Type of feet	Fixed feet
Net weight	578
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	985	RPM @ 50Hz
	1182	RPM @ 60Hz
Rated current	81.6	A (In) @ Δ 50Hz
	47.1	A (In) @ Y 50Hz
Starting current	7.3	×In
Rated torque	436.3	Nm (Mn)
Starting torque	2	×Mn
Breakdown torque	2	×Mn
Efficiency	IE3	
	93.70%	@ 100% load
	92.60%	@ 75% load
	91.40%	@ 50% load
Power factor cosφ	0.85	@ 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	2.2515	Kg*m²
Noise level	78	dB(A)