

rotor nl[®]
Squirrel Cage Induction Electric Motor
Data Sheet

Three-phase Motor Type	6RN 80M04 E23		
Area	Safe Area		
Environment Conditions	-20°C to +40°C, up to 1000 m above sea level		
Rated Voltage	230/400V 50Hz, 460VY 60Hz		
Output at 50Hz	0.75 kW		
Output at 60Hz	0.86 kW		
Frame Size	80M Aluminium Frame		
Speed at 50Hz	1440 rpm		
Speed at 60Hz	1728 rpm		
Current at 380V 50Hz	1.89 A		
Current at 400V 50Hz	1.79 A		
Current at 415V 50Hz	1.73 A		
Current at 460V 60Hz	1.7 A		
Efficiency Class	IE2		
Percentage Load	100%	75%	50%
Efficiency at 50Hz	79.6 %	80.2%	78.0%
Efficiency at 60Hz	82.5%	82.5%	81.5%
Power Factor (cos fi) at 50Hz	0.76		
Power Factor (cos fi) at 60Hz	0.77		
Rated Torque at 50Hz	5. Nm		
Rated Torque at 60Hz	4.8 Nm		
Duty Cycle	S1 - continuous duty		
Starting Current Ratio	5.6		
Starting Torque Ratio	2.2		
Breakdown Torque Ratio	3.1		
Internal Protection/Cooling	IP55 / IC411 (TEFC)		
Insulation Class	F (155°C) / temperature rise B (80K)		
Acoustic Pressure	53 dB(A) at 50Hz speed / 55 dB(A) at 60Hz speed		
Standard Mountings*	B3, B5, B3/B5, B14A, B3/B14A, B14B, B3/B14B		
Weight	11. kg		
Bearing DE / NDE	6204 2ZC3 / 6204 2ZC3 (Bearing located at NDE)		
Moment of Inertia	0.0021 kgm ²		
Lubrication	Esso Unirex N3		

*Special flanges may be available. Ask for details.