

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage

Frame	: 71	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B5T
Duty cycle	: S1	Direct of rotation ¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l	Approx. weight ³	: 9.5 kg
Degree of protection	: IP55	Moment of inertia (J)	: 0.0008 kgm ²
Design	: N		

Output	0.37 kW (0.5 HP)	0.37 kW (0.5 HP)	0.37 kW (0.5 HP)	0.37 kW (0.5 HP)
Poles	4	4	4	4
Frequency	50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage	220/380 V	230/400 V	240/415 V	460 V
Rated current	1.74/1.01 A	1.72/0.987 A	1.69/0.979 A	0.883 A
L. R. Amperes	7.85/4.55 A	8.24/4.74 A	8.46/4.90 A	4.68 A
LRC (p.u.)	4.5	4.8	5.0	5.3 x Code J
No load current	1.07/0.620 A	1.18/0.680 A	1.28/0.740 A	0.630 A
Rated speed	1370 rpm	1385 rpm	1395 rpm	1705 rpm
Slip	8.67 %	7.67 %	7.00 %	5.28 %
Rated torque	2.58 Nm	2.55 Nm	2.53 Nm	2.07 Nm
Locked rotor torque	250 %	280 %	310 %	340 %
Breakdown torque	240 %	270 %	300 %	340 %
Service factor	1.00	1.00	1.00	1.25
Noise level ²	43.0 dB(A)	43.0 dB(A)	43.0 dB(A)	47.0 dB(A)
Locked rotor time	30 s (hot)	30 s (hot)	30 s (hot)	55 s (hot)
	54 s (cold)	54 s (cold)	54 s (cold)	99 s (cold)
Efficiency (%)	50%	73.0	73.0	73.0
	75%	75.0	75.0	75.0
	100%	77.3	77.3	77.3
Power factor	Start	0.70	0.71	0.72
	50%	0.53	0.50	0.47
	75%	0.64	0.62	0.59
	100%	0.72	0.70	0.68

Bearing type	Drive end	Non drive end	Foundation loads	
	6202-ZZ	6202-ZZ		Maximum traction : 225 N
	Lubrication interval	-		Maximum compression : 318 N
	Lubricant amount	-		
Lubricant type	MOBIL POLYREX EM			

Standards	Specification	: IEC 60034-1	Vibration	: IEC 60034-14
	Tests	: IEC 60034-2	Tolerance	: IEC 60034-1
	Noise	: IEC 60034-9		

This revision replaces and cancels the previous one, which must be eliminated.

- (1) When viewed from the drive end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At the rated point.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

Rev.	Summary of changes	Performed	Checked	Date
Performed by	mdarbyshire			075735/2022
Checked by				Page Revision
Date	16/03/2022			1/1 0