

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage

Frame	: 225S/M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3T
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	: 365 kg
Degree of protection	: IP55	Moment of inertia (J)	: 0.5177 kgm ²
Design	: N		

Output	37 kW (50 HP)	37 kW (50 HP)	37 kW (50 HP)
Poles	4	4	4
Frequency	50 Hz	50 Hz	50 Hz
Rated voltage	380/660 V	400/690 V	415 V
Rated current	71.3/41.1 A	69.2/40.1 A	68.5 A
L. R. Amperes	528/304 A	533/309 A	548 A
LRC (p.u.)	7.4	7.7	8.0
No load current	30.0/17.3 A	33.0/19.1 A	36.0 A
Rated speed	1478 rpm	1480 rpm	1482 rpm
Slip	1.47 %	1.33 %	1.20 %
Rated torque	239 Nm	239 Nm	238 Nm
Locked rotor torque	250 %	280 %	310 %
Breakdown torque	290 %	330 %	360 %
Service factor	1.00	1.00	1.00
Noise level ²	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Locked rotor time	13 s (hot)	13 s (hot)	13 s (hot)
	23 s (cold)	23 s (cold)	23 s (cold)
Efficiency (%)	50%	93.7	93.4
	75%	93.9	94.0
	100%	93.9	94.1
Power factor	Start	0.46	0.46
	50%	0.69	0.65
	75%	0.79	0.76
	100%	0.84	0.82

Bearing type	Drive end	Non drive end	Foundation loads		
	6314-C3	6314-C3	Maximum traction	: 7860 N	
	Lubrication interval	14000 h	14000 h	Maximum compression	: 11439 N
	Lubricant amount	27 g	27 g		
	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			075739/2022-A
Checked by				Page Revision
Date	16/03/2022			1/1 0