

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer : \_\_\_\_\_

Product line : W22 - IE3 Premium Efficiency Multivoltage

Frame	: 315L	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B5T
Duty cycle	: S1	Direct of rotation <sup>1</sup>	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l	Approx. weight <sup>3</sup>	: 1300 kg
Degree of protection	: IP55	Moment of inertia (J)	: 4.75 kgm <sup>2</sup>
Design	: N		

Output	200 kW (270 HP)	200 kW (270 HP)	200 kW (270 HP)
Poles	4	4	4
Frequency	50 Hz	50 Hz	50 Hz
Rated voltage	380/660 V	400/690 V	415 V
Rated current	360/207 A	346/201 A	333 A
L. R. Amperes	2160/1244 A	2318/1344 A	2398 A
LRC (p.u.)	6.0	6.7	7.2
No load current	99.0/57.0 A	106/61.4 A	112 A
Rated speed	1486 rpm	1488 rpm	1489 rpm
Slip	0.93 %	0.80 %	0.73 %
Rated torque	1286 Nm	1284 Nm	1283 Nm
Locked rotor torque	210 %	240 %	250 %
Breakdown torque	210 %	240 %	260 %
Service factor	1.00	1.00	1.00
Noise level <sup>2</sup>	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
Locked rotor time	21 s (hot)	21 s (hot)	21 s (hot)
	38 s (cold)	38 s (cold)	38 s (cold)
Efficiency (%)	50%	96.1	96.0
	75%	96.2	96.3
	100%	96.0	96.0
Power factor	Start	0.42	0.43
	50%	0.80	0.78
	75%	0.86	0.85
	100%	0.88	0.87

Bearing type	Drive end	Non drive end	Foundation loads		
	6319-C3	6316-C3		Maximum traction : 19900 N	
	Lubrication interval	11000 h		13000 h	Maximum compression : 32649 N
	Lubricant amount	45 g		34 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			075737/2022-A
Checked by				Page Revision
Date	16/03/2022			1/1 0