

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Ventilação TEFC Multitensão

Frame	: 200L	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: V1
Duty cycle	: S1	Direct of rotation ¹	: Both
Ambient temperature	: -20 °C to +45 °C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l	Approx. weight ³	: 253 kg
Degree of protection	: IP55	Moment of inertia (J)	: 0.3202 kgm ²
Design	: N		

Output	30 kW (40 HP)	30 kW (40 HP)	30 kW (40 HP)	30 kW (40 HP)
Poles	4	4	4	4
Frequency	50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage	380/660 V	400/690 V	415 V	460 V
Rated current	58.0/33.4 A	57.1/33.1 A	56.4 A	50.0 A
L. R. Amperes	435/250 A	428/248 A	423 A	415 A
LRC (p.u.)	7.5	7.5	7.5	8.3 x Code K
No load current	24.5/14.1 A	27.0/15.7 A	30.1 A	25.0 A
Rated speed	1475 rpm	1480 rpm	1480 rpm	1780 rpm
Slip	1.67 %	1.33 %	1.33 %	1.11 %
Rated torque	194 Nm	194 Nm	194 Nm	161 Nm
Locked rotor torque	250 %	280 %	300 %	290 %
Breakdown torque	280 %	310 %	340 %	350 %
Service factor	1.00	1.00	1.00	1.25
Temperature rise ⁴	75 K	75 K	75 K	75 K
Noise level ²	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	66.0 dB(A)
Locked rotor time	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)
Efficiency (%)	50%	93.4	92.9	92.3
	75%	93.6	93.6	93.3
	100%	93.6	93.7	93.6
Power factor	Start	0.00	0.00	0.00
	50%	0.68	0.63	0.59
	75%	0.79	0.75	0.72
	100%	0.84	0.81	0.79

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	6312-ZZ-C3	6212-ZZ-C3	Maximum traction	: 7043 N
Lubrication interval	-	-	Maximum compression	: 9524 N
Lubricant amount	-	-		
Lubricant type	MOBIL POLYREX EM			

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	danielem			041948/2015	
Checked by	mentor			Page	Revision
Date	12/07/2018			1/2	3

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Notes:

3PTC 155 in winding
Drip Cover (canopy)
Space heater 200-240V
Tropicalization

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

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Performed by	danielem			041948/2015	
Checked by	mentor			Page	Revision
Date	12/07/2018			2/2	3

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