

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Special Motor

Frame	: 160M	Locked rotor time	: 12 s (hot) 22 s (cold)
Output	: 11 kW (15 HP)	Temperature rise ⁴	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l
Rated current	: 21.1 A	Degree of protection	: IP55
L. R. Amperes	: 182 A	Cooling method	: TEFC
LRC (p.u.)	: 8.6	Mounting	: B3L(E)
No load current	: 7.15 A	Direct of rotation ¹	: Both
Rated speed	: 3550 rpm	Noise level	: 72.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 29.6 Nm	Approx. weight ³	: 137 kg
Locked rotor torque	: 280 %	Design	: N
Pull up torque	: 235 %		
Breakdown torque	: 360 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia	: 0.0642 kgm ²		

Output	50%	75%	100%	Load type	: -
Efficiency (%)	90.5	91.0	91.0	Load torque	: -
Power factor	0.74	0.83	0.87	Load inertia (J=GD ² /4)	: -
Bearing type	Drive end 6309-C3	Non drive end 6209-C3			
Lubrication interval	19000 h	20000 h			
Lubricant amount	13.0 g	9.0 g			
Lubricant type	MOBIL POLYREX EM				

Notes:
01536ET3Y160M-W22
11kW
3-60-380V
SF 1.15 / SFA 24.3
INMETRO 0055526/2013
Derating from material 11567428

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 without tolerance
(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	wpearson				149352/2025
Checked by	AUTOMATICO				Page Revision
Date	19/05/2025				1/1 0