

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium  
Efficiency Three-Phase

Product code : 15122183

Catalog # : 25009XT3G586/7

Frame	: 586/7T	Locked rotor time	: 72s (cold) 40s (hot)
Output	: 250 HP (185 kW)	Temperature rise	: 80 K
Poles	: 8	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 299 A	Protection degree	: IP55
L. R. Amperes	: 1854 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 120 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 895 rpm	Noise level <sup>2</sup>	: 75.0 dB(A)
Slip	: 0.56 %	Starting method	: Direct On Line
Rated torque	: 1470 ft.lb	Approx. weight <sup>3</sup>	: 4364 lb
Locked rotor torque	: 140 %		
Breakdown torque	: 210 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 395 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	95.3	95.3	95.4	95.4	95.8	95.8	95.8	95.8	Max. traction	: 5465 lb
	94.9	94.1	95.0	94.5	95.4	95.0	95.4	95.4		
Power Factor	0.41	0.41	0.66	0.66	0.76	0.76	0.81	0.81	Max. compression	: 9829 lb
	0.37	0.34	0.62	0.58	0.73	0.70	0.79	0.77		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6322 C3	6319 C3
Sealing	:				Viton Oil Seal	Viton Seal
Lubrication interval	:				11801 h	14016 h
Lubricant amount	:				60 g	45 g
Lubricant type	:				Mobil Polyrex EM	

Notes:

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

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	28/03/2024			

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Revision

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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