DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12735312
		Catalog # :	00512OT3E215T-SG

Frame	: 213/5T	Locked rotor time	: 52s (cold) 29s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 13.5/6.74 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 79.5/39.8 A	Mounting	: F-1
LRC	: 5.9x(Code H)	Rotation¹	: Both (CW and CCW)
No load current	: 7.10/3.55 A	Noise level²	: 55.0 dB(A)
Rated speed	: 1175 rpm	Starting method	: Direct On Line
Slip	: 2.08 %	Approx. weight³	: 57.3 kg
Rated torque	: 3.09 kgfm		
Locked rotor torque	: 220 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0455 kgm²		
Design	: B		

Output	25%		50%		75%		100%	
Efficiency (%)	88.3	89.2	88.5	87.5	89.5	87.2	89.5	85.1
	87.0		86.5		87.3		86.4	
Power Factor	0.34	0.40	0.58	0.66	0.70	0.76	0.77	0.81
	0.34		0.58		0.71		0.77	

Foundation loads

Max. traction	: 130 kgf
Max. compression	: 188 kgf

		Drive end	Non drive end
Bearing type	:	6208 ZZ	6206 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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			Page	Revision
Date	31/10/2023		1 / 1	

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