

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 12705542
 Catalog # : 01012OT3E256TC-S

Frame	: 254/6TC	Locked rotor time	: 61s (cold) 34s (hot)
Output	: 10 HP (7.5 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	: 27.8/13.9 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 147/73.7 A	Mounting	: F-1
LRC	: 5.3x(Code G)	Rotation ¹	: Both (CW and CCW)
No load current	: 14.7/7.33 A	Noise level ²	: 59.0 dB(A)
Rated speed	: 1180 rpm	Starting method	: Direct On Line
Slip	: 1.67 %	Approx. weight ³	: 230 lb
Rated torque	: 44.5 ft.lb		
Locked rotor torque	: 210 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.50 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.8	91.5	91.0	90.1	91.7	89.7	91.7	88.0	Max. traction	: 453 lb
Power Factor	0.32	0.38	0.56	0.63	0.68	0.74	0.74	0.78	Max. compression	: 683 lb
	0.32	0.56	0.68	0.75						

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	8 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			Page	Revision
Date	30/06/2024		1 / 1	