

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : Rolled Steel High Efficiency Three-Phase		Product code : 12831991		Catalog # : 02036OP3VFP254TC-S	
Frame	: 254/6TC	Locked rotor time	: 16s (cold) 9s (hot)		
Output	: 20 HP (15 kW)	Temperature rise	: 80 K		
Poles	: 2	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 200/400 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 54.5/27.3 A	Cooling method	: IC01 - ODP		
L. R. Amperes	: 327/164 A	Mounting	: F-1		
LRC	: 6.0x(Code G)	Rotation ¹	: Both (CW and CCW)		
No load current	: 21.0/10.5 A	Noise level ²	: 70.0 dB(A)		
Rated speed	: 3520 rpm	Starting method	: Direct On Line		
Slip	: 2.22 %	Approx. weight ³	: 170 lb		
Rated torque	: 29.8 ft.lb				
Locked rotor torque	: 180 %				
Breakdown torque	: 240 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.6974 sq.ft.lb				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	87.7	88.5	89.5	90.2	
Power Factor	0.48	0.75	0.84	0.88	
Foundation loads					
Max. traction : 258 lb					
Max. compression : 428 lb					
		<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
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Checked by				Page	Revision
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