

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase		Product code :		16832274
				Catalog # :		02018ET3E256JM-W22G
Frame	: 254/6JM			Locked rotor time	: 32s (cold) 18s (hot)	
Output	: 20 HP (15 kW)			Temperature rise	: 80 K	
Poles	: 4			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	: 48.2/24.1 A			Protection degree	: IP55	
L. R. Amperes	: 313/157 A			Cooling method	: IC411 - TEFC	
LRC	: 6.5x(Code G)			Mounting	: F-1	
No load current	: 19.2/9.60 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1770 rpm			Noise level ²	: 64.0 dB(A)	
Slip	: 1.67 %			Starting method	: Direct On Line	
Rated torque	: 8.20 kgfm			Approx. weight ³	: 152 kg	
Locked rotor torque	: 240 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.1305 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0	91.7	92.4	93.0	Max. traction	: 329 kgf
Power Factor	0.43	0.68	0.79	0.84	Max. compression	: 481 kgf
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
7.5	6.5	6.0	3.5	2.5	1.6	1.2
			Drive end	Non drive end		
Bearing type	:		6309 C3	:		6209 C3
Sealing	:		V'Ring	:		V'Ring
Lubrication interval	:		20000 h	:		20000 h
Lubricant amount	:		13 g	:		9 g
Lubricant type	:		Mobil Polyrex EM			
Notes						
USABLE @208V 53.3A SF 1.15 SFA 61.3A						
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	04/11/2025				1 / 1	