

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase		Product code : 12022319		
		Catalog # : 025120T3E324JM		
Frame	: 324JM		Locked rotor time	: 32s (cold) 18s (hot)
Output	: 25 HP (18.5 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	: 60.8/30.4 A		Protection degree	: IP23
L. R. Amperes	: 365/182 A		Cooling method	: IC01 - ODP
LRC	: 6.0x(Code G)		Mounting	: F-1
No load current	: 28.0/14.0 A		Rotation ¹	: Both (CW and CCW)
Rated speed	: 1180 rpm		Noise level ²	: 60.0 dB(A)
Slip	: 1.67 %		Starting method	: Direct On Line
Rated torque	: 111 ft.lb		Approx. weight ³	: 483 lb
Locked rotor torque	: 200 %			
Breakdown torque	: 240 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 8.51 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	91.0	90.1	91.7	90.3
	89.2	88.2	89.7	88.9
	91.9	91.5	92.1	92.0
	92.1	91.5	91.7	91.7
	91.0	91.7	91.0	91.7
Power Factor	0.41	0.39	0.67	0.65
	0.77	0.77	0.82	0.83
	0.36	0.34	0.62	0.58
	0.75	0.72	0.81	0.79
	0.46	0.43	0.73	0.70
	0.81	0.79	0.84	0.83
	0.40	0.66	0.77	0.82
Foundation loads				
Max. traction	: 941 lb			
Max. compression	: 1424 lb			
Bearing type	: <u>Drive end</u> 6312 Z C3		: <u>Non drive end</u> 6212 Z C3	
Sealing	: Without Bearing Seal		: Without Bearing Seal	
Lubrication interval	: 20000 h		: 20000 h	
Lubricant amount	: 21 g		: 13 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
Performed by				
Checked by			Page	Revision
Date	28/03/2024		1 / 1	