

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line		: Close Coupled Pump High Efficiency Three-Phase		Product code : 10483466
Frame	: 284JM		Locked rotor time	: 21s (cold) 12s (hot)
Output	: 30 HP (22 kW)		Temperature rise	: 80 K
Poles	: 2		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	: 69.0/34.5 A		Protection degree	: IP23
L. R. Amperes	: 428/214 A		Cooling method	: IC01 - ODP
LRC	: 6.2x(Code G)		Mounting	: F-1
No load current	: 18.2/9.10 A		Rotation ¹	: Both (CW and CCW)
Rated speed	: 3540 rpm		Noise level ²	: 72.0 dB(A)
Slip	: 1.67 %		Starting method	: Direct On Line
Rated torque	: 44.5 ft.lb		Approx. weight ³	: 326 lb
Locked rotor torque	: 200 %			
Breakdown torque	: 270 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 1.68 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	90.9	89.1	91.0	88.5
	89.1	88.2	88.5	88.5
	89.5	89.5	88.5	89.5
Power Factor	0.57	0.66	0.80	0.85
	0.62	0.58	0.82	0.80
	0.87	0.86	0.88	0.88
	0.88	0.88	0.88	0.88
Foundation loads				
Max. traction	: 376 lb			
Max. compression	: 702 lb			
Bearing type	: <u>Drive end</u> 6311 Z C3		: <u>Non drive end</u> 6211 Z C3	
Sealing	: Without Bearing Seal		: Without Bearing Seal	
Lubrication interval	: 20000 h		: 20000 h	
Lubricant amount	: 18 g		: 11 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	