DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel JM Pump NEMA Premium Efficiency Three-Phase	Product code :	12676943
		Catalog # :	00236OT3E145JM-S

Frame	: 143/5JM	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 2 HP (1.5 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	: 4.84/2.42 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 43.1/21.5 A	Mounting	: F-1
LRC	: 8.9x(Code K)	Rotation¹	: Both (CW and CCW)
No load current	: 1.83/0.917 A	Noise level²	: 62.0 dB(A)
Rated speed	: 3510 rpm	Starting method	: Direct On Line
Slip	: 2.50 %	Approx. weight³	: 38.3 lb
Rated torque	: 2.99 ft.lb		
Locked rotor torque	: 220 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1151 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%	
Efficiency (%)	83.7	85.5	84.0	85.0	85.5	85.1	85.5	84.2
	84.7		84.3		85.5		84.7	
Power Factor	0.49	0.56	0.77	0.83	0.86	0.90	0.91	0.93
	0.49		0.77		0.87		0.91	

Foundation loads

Max. traction	: 78 lb
Max. compression	: 116 lb

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6203 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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	29/03/2024		1 / 1	

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