DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Close Coupled Pump NEMA Premium Efficiency Three-Phase	Product code :	10781668
		Catalog # :	03018OT3E286JM

Frame	: 286JM	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 30 HP (22 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	: 69.8/34.9 A	Protection degree	: IP23
L. R. Amperes	: 461/230 A	Cooling method	: IC01 - ODP
LRC	: 6.6x(Code G)	Mounting	: F-1
No load current	: 24.2/12.1 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level²	: 63.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 89.0 ft.lb	Approx. weight³	: 425 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 4.90 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	93.4 92.0	93.6 92.2	94.1 92.6	94.1 92.6
	92.0 92.0	92.2 92.2	92.6 92.6	92.6 92.6
	92.1 91.5	91.7 91.7	92.4 92.4	91.7 92.4
	91.0	91.7	92.4	93.0
Power Factor	0.46 0.47	0.70 0.70	0.80 0.80	0.84 0.85
	0.42 0.40	0.66 0.63	0.78 0.75	0.83 0.81
	0.53 0.48	0.74 0.70	0.83 0.80	0.85 0.83
	0.45	0.66	0.78	0.82

Foundation loads

Max. traction	: 910 lb
Max. compression	: 1336 lb

		Drive end	Non drive end
Bearing type	:	6311 Z C3	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	Date

Performed by				
Checked by			Page	Revision
Date	28/03/2024		1 / 1	

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