

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase Product code : 14486860
Catalog # : 03018OT3E286JP-W40

Frame	: 284/6JP	Locked rotor time	: 32s (cold) 18s (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	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	: 89.0 ft.lb	Approx. weight ³	: 412 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 4.52 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads				
Efficiency (%)	93.4	92.0	93.6	92.2	94.1	92.6	94.1	92.6	Max. traction
	92.0	92.0	92.2	92.2	92.6	92.6	92.6	92.6	
Power Factor	0.46	0.47	0.70	0.70	0.80	0.80	0.84	0.85	Max. compression
	0.42	0.40	0.66	0.63	0.78	0.75	0.83	0.81	

		<u>Drive end</u>	<u>Non drive end</u>
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		Page 1 / 1		
Checked by				
Date	30/03/2024			
			Revision	