

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase Product code : 14485015
Catalog # : 02012OT3E286JP-W40

Frame : 284/6JP	Cooling method : IC01 - ODP
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation ¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight ² : 402 lb
Protection degree : IP23	Moment of inertia (J) : 6.89 sq.ft.lb
Design : B	

Output [HP]	20	15	15	15
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	48.6/24.3	22.0	21.4	20.9
L. R. Amperes [A]	311/156	158	161	157
LRC [A]	6.4x(Code G)	7.2x(Code H)	7.5x(Code J)	7.5x(Code J)
No load current [A]	18.8/9.40	9.30	10.0	10.5
Rated speed [RPM]	1177	980	980	984
Slip [%]	1.92	2.00	2.00	1.60
Rated torque [ft.lb]	89.2	80.4	80.4	80.0
Locked rotor torque [%]	229	270	310	340
Breakdown torque [%]	260	280	320	340
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)
Noise level ²	59.0 dB(A)			
Efficiency (%)	25%	91.5	89.7	89.7
	50%	91.7	89.9	89.9
	75%	92.4	90.3	90.3
	100%	92.4	90.3	90.3
Power Factor	25%	0.45	0.42	0.39
	50%	0.71	0.68	0.64
	75%	0.80	0.79	0.76
	100%	0.84	0.84	0.82

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6311 Z C3	6211 Z C3	Max. traction
Sealing :	Without	Without	Max. compression
	Bearing Seal	Bearing Seal	
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	18 g	11 g	
Lubricant type :	Mobil Polyrex EM		

Notes

USABLE @208V 53.7A SF 1.15 SFA 61.8A

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 Revision 1 / 1		
Checked by				
Date	11/04/2020			