

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JP Pump High Efficiency Three-Phase

Product code : 13550934

Catalog # : 02036OP3EFP254JPV-S

Frame	: 254/6JP	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: W-6
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	: 179 lb
Design	: B	Moment of inertia (J)	: 0.6974 sq.ft.lb

Output [HP]	20	20	20
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	52.4-47.4/23.7	59.0/29.5	51.9/27.5
L. R. Amperes [A]	314-284/142	260/130	270/143
LRC [A]	6.0x(Code G)	4.4x(Code D)	5.2x(Code F)
No load current [A]	15.7-18.2/9.12	17.7/8.86	22.1/11.7
Rated speed [RPM]	3520	2885	2910
Slip [%]	2.22	3.83	3.00
Rated torque [ft.lb]	29.4	35.9	35.6
Locked rotor torque [%]	180	110	130
Breakdown torque [%]	240	180	220
Service factor	1.15	1.00	1.00
Temperature rise	80 K	80 K	80 K
Locked rotor time	16s (cold) 9s (hot)	12s (cold) 7s (hot)	10s (cold) 6s (hot)
Noise level ²	70.0 dB(A)	68.0 dB(A)	68.0 dB(A)
Efficiency (%)	25%	87.7	89.6
	50%	88.5	88.6
	75%	89.5	88.7
	100%	90.2	87.3
Power Factor	25%	0.48	0.44
	50%	0.75	0.72
	75%	0.84	0.82
	100%	0.88	0.87

		<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	:	6309 Z C3	6208 Z C3	Max. traction	: 291 lb
Sealing	:	Without	Without	Max. compression	: 470 lb
		Bearing Seal	Bearing Seal		
Lubrication interval	:	15797 h	20000 h		
Lubricant amount	:	13 g	8 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 Revision 1 / 1		
Checked by				
Date	18/01/2018			