

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JP Pump NEMA Premium Efficiency Three-Phase
Product code : 12964638
Catalog # : 02036OT3E254JPV-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 : 178 lb
Design : B	Moment of inertia (J) : 0.7848 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]	52.6-47.6/23.8	58.0/29.0	50.4/26.7
L. R. Amperes [A]	316-286/143	261/131	272/144
LRC [A]	6.0x(Code G)	4.5x(Code D)	5.4x(Code F)
No load current [A]	14.7-17.0/8.50	16.2/8.09	18.6/9.87
Rated speed [RPM]	3525	2895	2910
Slip [%]	2.08	3.50	3.00
Rated torque [ft.lb]	29.4	35.8	35.6
Locked rotor torque [%]	180	130	150
Breakdown torque [%]	240	190	229
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	80 K
Locked rotor time	23s (cold) 13s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	70.0 dB(A)	68.0 dB(A)	68.0 dB(A)
Efficiency (%)	25%	90.0	91.6
	50%	90.2	90.5
	75%	91.0	90.2
	100%	91.0	88.8
Power Factor	25%	0.49	0.48
	50%	0.76	0.75
	75%	0.83	0.84
	100%	0.87	0.88

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).
- (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 /		
Checked by				
Date	24/01/2018			