

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Rolled Steel JM Pump NEMA Premium Efficiency Three-Phase	Product code :	12676958	
		Catalog # :	00118OT3E143JM-S	
Frame	: 143/5JM	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	: 36.6 lb	
Design	: B	Moment of inertia (J)	: 0.1101 sq.ft.lb	
Output [HP]	1	1	1	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	208-230/460	190/380	220/415	
Rated current [A]	3.34-3.02/1.51	3.44/1.72	3.15/1.67	
L. R. Amperes [A]	26.7-24.2/12.1	22.4/11.2	23.6/12.5	
LRC [A]	8.0x(Code L)	6.5x(Code J)	7.5x(Code L)	
No load current [A]	1.65-1.92/0.958	1.88/0.942	2.05/1.09	
Rated speed [RPM]	1760	1445	1455	
Slip [%]	2.22	3.67	3.00	
Rated torque [ft.lb]	2.94	3.59	3.56	
Locked rotor torque [%]	290	200	250	
Breakdown torque [%]	360	270	330	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	39s (cold) 22s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%	79.9	79.4	
	50%	81.5	80.1	
	75%	84.0	82.9	
	100%	85.5	83.2	
Power Factor	25%	0.29	0.29	
	50%	0.51	0.52	
	75%	0.65	0.66	
	100%	0.73	0.75	
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				
Checked by			Page	Revision
Date	19/01/2018		1 /	