

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Rolled Steel Three-Phase	Product code :	12809203	
			Catalog # :	.5012OT3E56-S	
Frame	: 56	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	: 22.5 lb		
		Moment of inertia (J)	: 0.0888 sq.ft.lb		
Output [HP]	0.5	0.5	0.5		
Poles	6	6	6		
Frequency [Hz]	60	50	50		
Rated voltage [V]	208-230/460	190/380	220/415		
Rated current [A]	2.06-1.87/0.934	2.08/1.04	1.96/1.04		
L. R. Amperes [A]	10.5-9.53/4.76	8.32/4.16	8.83/4.68		
LRC [A]	5.1x(Code J)	4.0x(Code F)	4.5x(Code H)		
No load current [A]	1.29-1.50/0.750	1.45/0.727	1.59/0.843		
Rated speed [RPM]	1155	935	950		
Slip [%]	3.75	6.50	5.00		
Rated torque [ft.lb]	2.24	2.77	2.73		
Locked rotor torque [%]	200	150	190		
Breakdown torque [%]	260	200	240		
Service factor		1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	50s (cold) 28s (hot)	52s (cold) 29s (hot)	41s (cold) 23s (hot)		
Noise level ²	50.0 dB(A)	48.0 dB(A)	48.0 dB(A)		
Efficiency (%)	25%	66.4	68.9	63.4	
	50%	68.0	68.8	64.9	
	75%	74.0	72.1	70.4	
	100%	75.3	71.3	71.7	
Power Factor	25%	0.23	0.29	0.25	
	50%	0.43	0.52	0.45	
	75%	0.56	0.66	0.59	
	100%	0.66	0.76	0.69	
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	23/01/2018			1 /	