

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase
Product code : 13821179
Catalog # : 70036OT3Q5010S-W40

Frame : 5010/11	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 : 0.0 lb
Protection degree : IP23	Moment of inertia (J) : 78.5 sq.ft.lb

Output [HP]	700	550	550	550	600	600	600
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	764	721	701	683	793	771	752
L. R. Amperes [A]	5195	5119	5398	5737	5155	5474	5790
LRC [A]	6.8x(Code H)	7.1x(Code G)	7.7x(Code H)	8.4x(Code J)	6.5x(Code G)	7.1x(Code H)	7.7x(Code H)
No load current [A]	180	175	195	220	175	195	220
Rated speed [RPM]	3570	2970	2970	2975	2970	2970	2975
Slip [%]	0.83	1.00	1.00	0.83	1.00	1.00	0.83
Rated torque [ft.lb]	1010	959	959	958	1050	1050	1040
Locked rotor torque [%]	200	210	229	240	190	210	220
Breakdown torque [%]	240	240	250	260	220	229	240
Service factor	1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	28s (cold) 16s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	89.0 dB(A)						
Efficiency (%)	25%	94.9	94.5	94.5	94.3	94.8	94.6
	50%	95.4	95.0	95.0	94.8	95.3	95.2
	75%	95.8	95.4	95.4	95.3	95.3	95.2
	100%	96.2	95.8	95.8	95.8	95.8	95.8
Power Factor	25%	0.58	0.57	0.53	0.49	0.59	0.52
	50%	0.79	0.78	0.75	0.72	0.80	0.75
	75%	0.86	0.85	0.84	0.82	0.86	0.83
	100%	0.88	0.88	0.86	0.85	0.88	0.85

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6314 C3	6314 C3	Max. traction
Sealing :	Without	Without	Max. compression
	Bearing Seal	Bearing Seal	
Lubrication interval :	4500 h	4500 h	
Lubricant amount :	27 g	27 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				
Checked by				
Date	19/01/2018			

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Revision

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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Performed by				Page 2 / 2	Revision
Checked by					
Date	19/01/2018				