DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12809164

Catalog # : 02018ET3EID256TC-W22

Frame	: 254/6TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 366 lb
Protection degree	: IP55	Moment of inertia (J)	: 3.10 sq.ft.lb
Design	: B		

Output [HP]		20	15	15	15	20	20	20
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		208-230/460	380	400	415	380	400	415
Rated current [A]		53.3-48.2/24.1	21.8	21.2	20.6	29.4	28.0	27.1
L. R. Amperes [A]		368-333/166	161	167	173	168	174	179
LRC [A]		6.9x(Code H)	7.4x(Code H)	7.9x(Code J)	8.4x(Code K)	5.7x(Code F)	6.2x(Code G)	6.6x(Code H)
No load current [A]		17.2-20.0/10.0	9.90	10.5	11.0	9.90	10.5	11.0
Rated speed [RPM]		1765	1465	1470	1470	1450	1460	1460
Slip [%]		1.94	2.33	2.00	2.00	3.33	2.67	2.67
Rated torque [ft.lb]		58.7	53.0	52.9	52.9	71.5	71.0	71.0
Locked rotor torque [%]		229	229	270	280	170	200	210
Breakdown torque [%]		270	280	310	340	210	229	250
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		27s (cold) 15s (hot)	21s (cold) 12s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level²		64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
Efficiency (%)	25%	91.0	90.9	89.2	89.2	92.2	90.8	90.7
	50%	91.7	91.0	89.8	89.8	91.7	91.0	91.0
	75%	92.4	91.5	91.0	91.3	91.0	91.0	91.7
	100%	93.0	91.4	91.4	91.7	90.2	91.0	91.7
Power Factor	25%	0.43	0.40	0.37	0.35	0.49	0.46	0.44
	50%	0.68	0.65	0.62	0.60	0.75	0.72	0.70
	75%	0.79	0.78	0.75	0.73	0.83	0.81	0.80
	100%	0.84	0.84	0.82	0.81	0.86	0.85	0.84

		Drive end	Non drive end
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 679 lb

Max. compression : 1046 lb

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			Page	Revision
Date	19/01/2018		1 / 1	

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