DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12789461

Catalog # : 00318ET3ER182TC-W22

Frame	: 182TC	Cooling method	: IC411 - TEFC
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[3]	: 91.2 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.3401 sq.ft.lb
Design	: B		

Output [HP]		3	3	3	3
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		208-230/460	380	400	415
Rated current [A]		8.65-7.82/3.91	4.60	4.48	4.43
L. R. Amperes [A]		70.1-63.3/31.7	29.0	31.4	33.2
LRC [A]		8.1x(Code K)	6.3x(Code H)	7.0x(Code J)	7.5x(Code J)
No load current [A]		3.45-4.00/2.00	2.00	2.15	2.25
Rated speed [RPM]		1760	1445	1450	1455
Slip [%]		2.22	3.67	3.33	3.00
Rated torque [ft.lb]		8.83	10.8	10.7	10.7
Locked rotor torque [%]		229	180	210	240
Breakdown torque [%]		340	260	290	320
Service factor		1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		41s (cold) 23s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level[2]		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%	86.4	87.2	87.3	87.3
	50%	87.5	87.5	87.5	87.5
	75%	88.5	87.5	87.5	87.5
	100%	89.5	87.5	87.5	87.5
Power Factor	25%	0.36	0.42	0.39	0.36
	50%	0.61	0.68	0.64	0.61
	75%	0.73	0.79	0.76	0.73
	100%	0.79	0.83	0.81	0.79

		Drive end	Non drive end
Bearing type	:	6207 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 176 lb

Max. compression : 267 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	23/01/2018		1 / 1	