

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11457085
Catalog # : 03018ET3E286TC-W22

Frame : 284/6TC	Cooling method : IC411 - TEFC
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 : 459 lb
Protection degree : IP55	Moment of inertia (J) : 5.85 sq.ft.lb
Design : B	

Output [HP]	30	25	25	25	30	30	30
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]	77.6-70.2/35.1	35.7	34.0	33.6	42.4	40.4	39.4
L. R. Amperes [A]	474-428/214	214	228	235	212	226	236
LRC [A]	6.1x(Code G)	6.0x(Code G)	6.7x(Code H)	7.0x(Code H)	5.0x(Code E)	5.6x(Code F)	6.0x(Code G)
No load current [A]	22.4-26.0/13.0	12.9	13.8	14.5	12.9	13.8	14.5
Rated speed [RPM]	1765	1465	1465	1465	1455	1460	1460
Slip [%]	1.94	2.33	2.33	2.33	3.00	2.67	2.67
Rated torque [ft.lb]	88.1	88.4	88.4	88.4	107	106	106
Locked rotor torque [%]	240	220	250	280	180	210	229
Breakdown torque [%]	240	250	290	310	210	240	260
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	36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	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%	92.3	91.8	92.0	91.3	92.8	92.2
	50%	93.0	92.1	92.1	91.6	92.4	92.4
	75%	93.0	92.5	92.8	92.5	92.4	92.4
	100%	93.6	92.6	92.7	92.6	91.7	92.4
Power Factor	25%	0.46	0.46	0.43	0.40	0.52	0.46
	50%	0.70	0.70	0.67	0.64	0.76	0.70
	75%	0.80	0.81	0.79	0.76	0.83	0.80
	100%	0.84	0.85	0.84	0.82	0.86	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6311 C3	6211 C3	Max. traction : 994 lb
Sealing :	V'Ring	V'Ring	Max. compression : 1453 lb
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	18 g	11 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	24/01/2018			
			Page	Revision
			1 / 1	