DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Customer

Product line : W22 Tru-Metric IE3 Three-Phase Product code:

> Catalog #: 05512ET3Y280S/M-W22

: 280S/M Cooling method Frame : IC411 - TEFC

Insulation class : F Mounting : B3L(E)

Duty cycle : S1 Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 1707 lb Altitude : 77.1 sq.ft.lb

Protection degree : IP55 Moment of inertia (J)

Design : N Output [HP] 75 75 75 Poles 6 6 6 50 50 Frequency [Hz] 60

Rated voltage [V]		460	380	400	415	
Rated current [A]		90.2	106	102	99.0	
L. R. Amperes [A]		631	710	683	663	
LRC [A]		7.0	6.7	6.7	6.7	
No load current [A]		41.3	41.2	44.0	46.3	
Rated speed [RPM]		1190	985	990	990	
Slip [%]		0.83	1.50	1.00	1.00	
Rated torque [ft.lb]		327	394	392	392	
Locked rotor torque [%]		260	190	220	240	
Breakdown torque [%]		330	240	270	290	
Service factor		1.25	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		82s (cold) 46s (hot)	50s (cold) 28s (hot)	50s (cold) 28s (hot)	50s (cold) 28s (hot)	
Noise level ²		69.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	
Efficiency (%)	25%	93.5	94.4	94.1	93.8	
	50%	93.6	94.6	94.5	94.3	
	75%	94.5	94.9	95.0	95.0	
	100%	94.5	95.0	95.3	95.4	
Power Factor	25%	0.39	0.45	0.41	0.39	
	50%	0.64	0.70	0.67	0.64	
	75%	0.75	0.79	0.77	0.75	
	100%	0.81	0.83	0.82	0.81	

Non drive end Foundation loads Drive end

Bearing type 6316 C3 6316 C3 Max. traction : 2223 lb Sealing WSeal WSeal Max. compression : 3930 lb 16000 h 16000 h

Lubrication interval Lubricant amount 34 g 34 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.

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Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	22/01/2018	1			1/1	