

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Flameproof Motor NEMA
Premium Efficiency Three-Phase

Product code : 11342170

Catalog # : 03036XT3E286TS

Frame	: 286TS	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 ^a	: 512 lb
Protection degree	: IP55	Moment of inertia (J)	: 3.08 sq.ft.lb
Design	: B		

Output [HP]	30	30	30	30
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	74.5-67.4/33.7	41.3	38.9	37.9
L. R. Amperes [A]	574-519/259	248	257	273
LRC [A]	7.7x(Code H)	6.0x(Code F)	6.6x(Code G)	7.2x(Code H)
No load current [A]	16.9-19.6/9.80	9.70	10.3	10.8
Rated speed [RPM]	3545	2925	2930	2940
Slip [%]	1.53	2.50	2.33	2.00
Rated torque [ft.lb]	43.8	53.1	53.0	52.9
Locked rotor torque [%]	260	190	210	229
Breakdown torque [%]	300	229	260	280
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	75.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)
Efficiency (%)	25%	92.2	92.9	92.9
	50%	92.4	92.4	92.4
	75%	93.0	91.7	92.4
	100%	93.0	91.0	91.7
Power Factor	25%	0.54	0.60	0.57
	50%	0.78	0.82	0.80
	75%	0.86	0.88	0.87
	100%	0.88	0.89	0.89

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6311	6211	Max. traction	: 398 lb
	2RS C3	2RS C3		
Sealing	: Oil Seal	Lip Seal	Max. compression	: 910 lb
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: POLYREA ESTER			
	OIL (WT/ ENS)			

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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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C
2	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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