

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11483709

Catalog # : 01009XT3E284T

Frame	: 284T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>a</sup>	: 465 lb
Protection degree	: IP55	Moment of inertia (J)	: 7.20 sq.ft.lb
Design	: B		

Output [HP]	10	10	10	10
Poles	8	8	8	8
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	29.4-26.6/13.3	15.9	15.1	14.6
L. R. Amperes [A]	176-160/79.8	95.4	90.6	87.6
LRC [A]	6.0x(Code H)	6.0x(Code G)	6.0x(Code G)	6.0x(Code G)
No load current [A]	10.3-12.0/6.00	5.93	6.35	6.71
Rated speed [RPM]	880	720	725	730
Slip [%]	2.22	4.00	3.33	2.67
Rated torque [ft.lb]	58.9	72.0	71.5	71.0
Locked rotor torque [%]	250	190	210	240
Breakdown torque [%]	240	180	210	229
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)
Noise level <sup>2</sup>	54.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)
Efficiency (%)	25%	91.4	92.3	92.1
	50%	91.0	91.0	91.0
	75%	91.7	90.2	91.0
	100%	91.0	88.5	89.5
Power Factor	25%	0.37	0.43	0.40
	50%	0.62	0.68	0.65
	75%	0.73	0.77	0.75
	100%	0.78	0.81	0.80

	Drive end	Non drive end	Foundation loads	
Bearing type	: 6311	6211	Max. traction	: 489 lb
	2RS C3	2RS C3		
Sealing	: Oil Seal	Lip Seal	Max. compression	: 954 lb
Lubrication interval	: -	-		
Lubricant amount	: -	-		
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	23/01/2018			

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Revision

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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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date	23/01/2018				