

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W21 Flameproof Motor NEMA Premium Efficiency Three-Phase	Product code :	11342401		
		Catalog # :	02536XT3E284TS		
Frame	: 284TS	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>2</sup>	: 462 lb		
Protection degree	: IP55	Moment of inertia (J)	: 2.58 sq.ft.lb		
Design	: B				
Output [HP]	25	25	25	25	
Poles	2	2	2	2	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	208-230/460	380	400	415	
Rated current [A]	62.8-57.2/28.6	34.3	32.7	31.7	
L. R. Amperes [A]	565-515/257	244	262	276	
LRC [A]	9.0x(Code K)	7.1x(Code H)	8.0x(Code J)	8.7x(Code J)	
No load current [A]	15.1-17.5/8.75	8.62	9.35	10.0	
Rated speed [RPM]	3555	2940	2945	2950	
Slip [%]	1.25	2.00	1.83	1.67	
Rated torque [ft.lb]	36.4	44.1	44.0	43.9	
Locked rotor torque [%]	280	210	240	270	
Breakdown torque [%]	330	290	320	350	
Service factor	1.15	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	104s (cold) 58s (hot)	104s (cold) 58s (hot)	104s (cold) 58s (hot)	104s (cold) 58s (hot)	
Noise level <sup>2</sup>	75.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)	
Efficiency (%)	25%	91.5	92.2	91.6	91.0
	50%	91.7	91.7	91.7	91.7
	75%	92.4	91.7	91.7	91.7
	100%	92.4	91.0	91.7	92.4
Power Factor	25%	0.53	0.59	0.55	0.52
	50%	0.78	0.83	0.80	0.77
	75%	0.85	0.88	0.86	0.85
	100%	0.88	0.90	0.89	0.88
Bearing type	: Drive end : 6311 Non drive end : 6211 2RS C3 2RS C3	Foundation loads	Max. traction : 448 lb		
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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