

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W21 Flameproof Motor NEMA Premium Efficiency Three-Phase	Product code :	11439790		
		Catalog # :	06012XT3E404T		
Frame	: 404/5T	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>	: 1176 lb		
Protection degree	: IP55	Moment of inertia (J)	: 36.9 sq.ft.lb		
Design	: B				
Output [HP]	60	50	50	50	
Poles	6	6	6	6	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	208-230/460	380	400	415	
Rated current [A]	156-141/70.3	70.4	67.6	65.6	
L. R. Amperes [A]	1074-970/485	451	487	505	
LRC [A]	6.9x(Code H)	6.4x(Code G)	7.2x(Code H)	7.7x(Code J)	
No load current [A]	43.1-50.0/25.0	25.0	27.0	28.1	
Rated speed [RPM]	1185	985	985	990	
Slip [%]	1.25	1.50	1.50	1.00	
Rated torque [ft.lb]	262	263	263	262	
Locked rotor torque [%]	250	229	260	280	
Breakdown torque [%]	270	260	280	310	
Service factor	1.15	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	52s (cold) 29s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	
Noise level <sup>2</sup>	65.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	
Efficiency (%)	25%				
	50%	93.6	93.0	93.0	
	75%	94.5	94.0	94.0	
	100%	94.5	94.0	94.0	
Power Factor	25%				
	50%	0.73	0.73	0.70	
	75%	0.82	0.82	0.80	
	100%	0.85	0.85	0.84	
	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads		
Bearing type	: 6217 C3	6314 C3	Max. traction	: 1877 lb	
Sealing	: Oil Seal	Lip Seal	Max. compression	: 3054 lb	
Lubrication interval	: 13507 h	14267 h			
Lubricant amount	: 21 g	27 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				Page	Revision
Date	24/01/2018			1 / 2	

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

### Thermal protection

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	24/01/2018		2 / 2	