## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Flameproof Motor NEMA

Premium Efficiency Three-Phase

Product code: 12408941

Catalog #: 00158XT3E145TC

Frame : 145TC

Insulation class : F Duty cycle : Cont.(S1)

Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Altitude

Cooling method : IC411 - TEFC

Mounting : F-1

Rotation<sup>1</sup> : Both (CW and CCW)

Starting method : Direct On Line

Approx. weight<sup>3</sup> : 74.0 lb

Protection degree		: IP55	Moment of ine	Moment of inertia (J) : 0.1303 sq.ft.lb			
Design		: B					
Output [HP]		1.5	1.5	1.5	1.5		
Poles			4	4	4		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		208-230/460	380	400	415		
Rated current [A]		4.53-4.10/2.05	2.40	2.33	2.27		
L. R. Amperes [A]		40.4-36.5/18.2	15.8	16.8	17.5		
LRC [A]		8.9x(Code L)	6.6x(Code H)	7.2x(Code J)	7.7x(Code K)		
No load current [A	]	2.28-2.64/1.32	1.32	1.43	1.49		
Rated speed [RPN	<b>/</b> []	1760	1440	1450	1450		
Slip [%]	Slip [%]		4.00	3.33	3.33		
Rated torque [ft.lb]		4.42	5.40	5.36	5.36		
Locked rotor torqu	Locked rotor torque [%]		200	229	250		
Breakdown torque [%]		350	260	290	320		
Service factor		1.15	1.00	1.00	1.00		
Temperature rise	Temperature rise		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 <sup>2</sup>		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
	25%	80.3	83.7	83.8	80.9		
Efficiency (%)	50%	81.5	84.0	84.0	82.5		
Liliciency (70)	75%	85.5	84.0	84.0	84.0		
	100%	86.5	84.0	84.0	85.5		
	25%	0.32	0.38	0.34	0.32		
Power Factor	50%	0.58	0.66	0.62	0.58		
1 OWELL ACIOI	75%	0.70	0.77	0.74	0.71		
	100%	0.78	0.83	0.81	0.79		
Drive and New drive and Foundation leads							

Drive end 6205 2RS Non drive end 6204 2RS

Foundation loads

Bearing type Sealing

Oil Seal Lubrication interval

Lip Seal

Max. traction : 114 lb Max. compression : 188 lb

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.

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#### Thermal protection

ID	Application	Туре	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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