DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14636474 Efficiency Three-Phase Frame : 213/5TC Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight³ : 98.8 kg Protection degree : IP55 Moment of inertia (J) : 0.0620 kgm² Design : B Output [HP] 5 5 5 5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 13.7/6.83 8.10 7.82 7.55 L. R. Amperes [A] 47.7 92.9/46.4 44.5 49.1 LRC [A] 6.8x(Code J) 5.5x(Code G) 6.1x(Code H) 6.5x(Code J) No load current [A] 6.90/3.45 3.41 3.68 3.90 Rated speed [RPM] 1170 960 965 970 Slip [%] 2.50 4.00 3.50 3.00 Rated torque [kgfm] 3.10 3.78 3.76 3.74 Locked rotor torque [%] 170 140 160 190 Breakdown torque [%] 260 200 229 250 Service factor 1.00 1.00 1.00 1.15 Temperature rise 80 K 80 K 80 K 80 K 102s (cold) 57s (hot) 54s (cold) 30s (hot) Locked rotor time 54s (cold) 30s (hot) 54s (cold) 30s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 50% 88.5 88.5 88.5 87.5 Efficiency (%) 75% 89.5 88.5 88.5 88.5 100% 89.5 86.8 87.5 88.5 25% 50% 0.58 0.65 0.61 0.58 Power Factor 75% 0.70 0.76 0.73 0.71 0.76 0.80 0.78 0.77 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.1 11.1 11.1 P2 (0,5;1,0) 9.1 9.1 9.1 9.1 P3 (0,25;1,0) 8.9 8.9 8.9 8.9 P4 (0,9;0,5) 5.7 5.7 5.7 Losses (%) 5.7 P5 (0,5;0,5) 3.9 3.9 3.9 3.9 P6 (0,5;0,25) 2.8 2.8 2.8 2.8 P7 (0,25;0,25) 2.0 2.0 2.0 2.0 Drive end Non drive end Foundation loads Bearing type 6308 2RS 6207 2RS Max. traction : 123 kgf Sealing Oil Seal Lip Seal Max. compression : 222 kgf Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. **Changes Summary** Performed Checked Rev. Date Performed by

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Thermal protection

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

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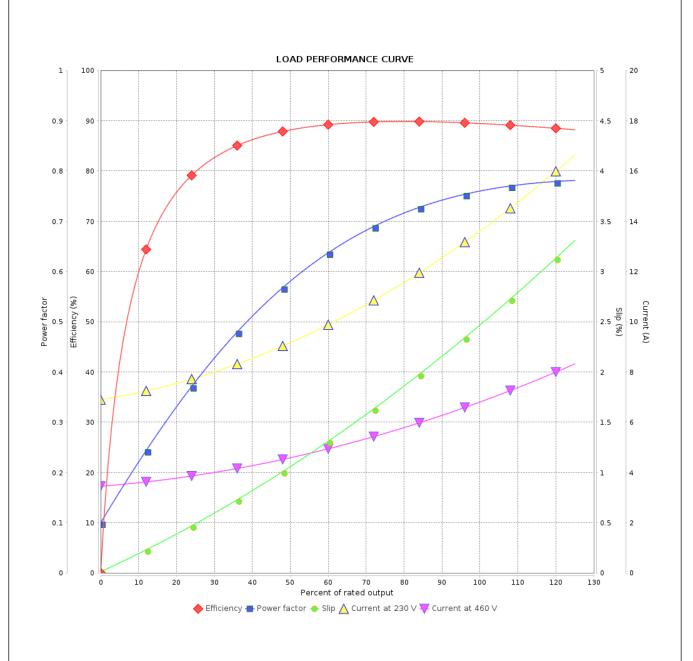


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14636474



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7/6.83 A : 6.8 : 3.10 kgfm : 170 % : 260 % : 1170 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0620 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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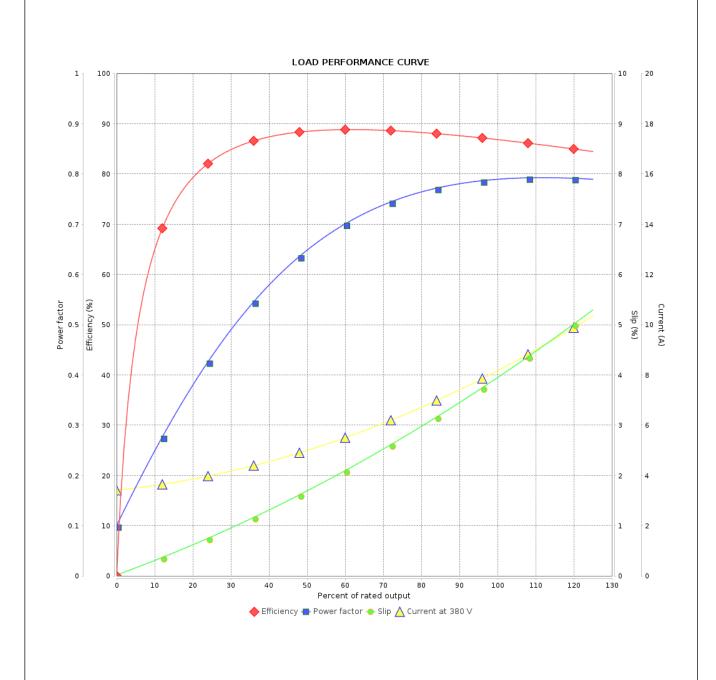


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14636474



Performance	: 3	380 V 50 Hz 6P IE3	}			
Rated current		3.10 A	Moment o	Moment of inertia (J)		2
LRC : 5.		5.5	Duty cycle	Duty cycle		
Rated torque : 3		3.78 kgfm	Insulation	Insulation class		
•		140 %	Service fa	ictor	: 1.00	
Breakdown torque		200 %	Temperati	Temperature rise		
Rated speed	: 9	0 rpm Design		: B		
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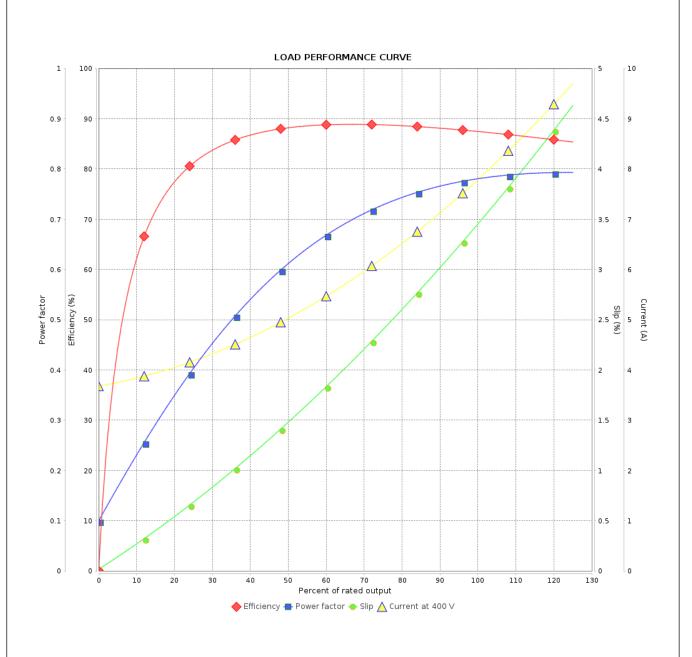


Customer :

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Efficiency Three-Phase

Product code: 14636474



						
Performance	: 400 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.82 A : 6.1 : 3.76 kgfm : 160 % : 229 % : 965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0620 kgm² : Cont.(S1) : F : 1.00 : 80 K : B		
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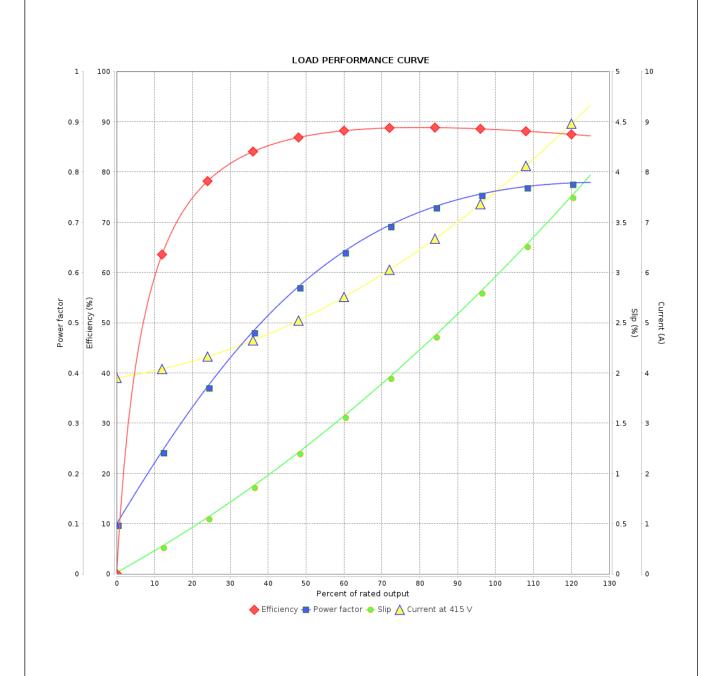


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14636474



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.55 A : 6.5 : 3.74 kgfm : 190 % : 250 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0620 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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