DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14281643 Efficiency Three-Phase : 182/4TC Cooling method : IC411 - TEFC Frame Insulation class : F Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ Altitude : 1000 m.a.s.l. : 61.6 kg Protection degree : IP55 Moment of inertia (J) : 0.0224 kgm² Design : B Output [HP] 2 2 2 2 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 6.26/3.13 3.66 3.59 3.56 L. R. Amperes [A] 46.9/23.5 22.0 24.1 25.3 7.1x(Code L) LRC [A] 7.5x(Code L) 6.0x(Code J) 6.7x(Code K) No load current [A] 4.00/2.00 1.80 1.95 2.05 Rated speed [RPM] 1165 955 960 965 Slip [%] 2.92 4.50 4.00 3.50 Rated torque [kgfm] 1.25 1.52 1.51 1.50 Locked rotor torque [%] 300 220 260 300 Breakdown torque [%] 330 240 270 300 Service factor 1.00 1.00 1.00 1.15 80 K 80 K 80 K 80 K Temperature rise Locked rotor time 82s (cold) 46s (hot) 90s (cold) 50s (hot) 77s (cold) 43s (hot) 70s (cold) 39s (hot) Noise level² 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 82.5 87.5 86.1 85.1 50% 84.5 87.0 86.5 85.5 Efficiency (%) 75% 86.5 87.5 87.5 87.5 100% 88.5 86.5 87.5 87.5 25% 0.26 0.32 0.29 0.27 50% 0.47 0.53 0.49 0.46 Power Factor 75% 0.58 0.65 0.62 0.59 0.72 0.69 0.67 100% 0.68 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.5 13.5 12.3 14.7 P2 (0,5;1,0) 10.9 10.9 9.9 11.9 P3 (0,25;1,0) 10.2 9.3 11.2 10.2 P4 (0,9;0,5) 8.7 Losses (%) 7.3 8.0 8.0 P5 (0,5;0,5) 5.0 6.0 5.5 5.5 P6 (0,5;0,25) 3.9 4.6 4.3 4.3 P7 (0,25;0,25) 2.9 3.4 3.2 3.2 Foundation loads Drive end Non drive end Bearing type 6307 2RS 6206 2RS : 63 kaf Max. traction Sealing Oil Seal Lip Seal : 125 kgf Max. compression 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 must be eliminated. power supply, subject to the tolerances stipulated in NEMA (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.

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Three Phase Induction Motor - Squirrel Cage



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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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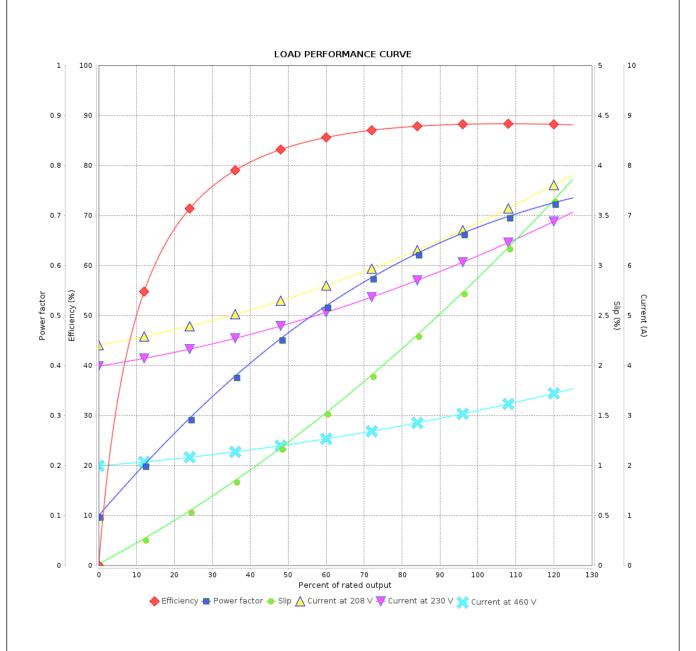


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14281643



Performance	: 23	30/460 V 60 Hz 6P				
Rated current : 6.26/3.13 A		.26/3.13 A	Moment of	of inertia (J)	: 0.0224 kgm²	
LRC : 7.5 Duty		Duty cycle	е	: Cont.(S1)		
Rated torque : 1.:		.25 kgfm	Insulation	Insulation class		
		00 %	Service fa	actor	: 1.15	
Breakdown torque		30 %	Temperat	Temperature rise		
Rated speed	: 11	165 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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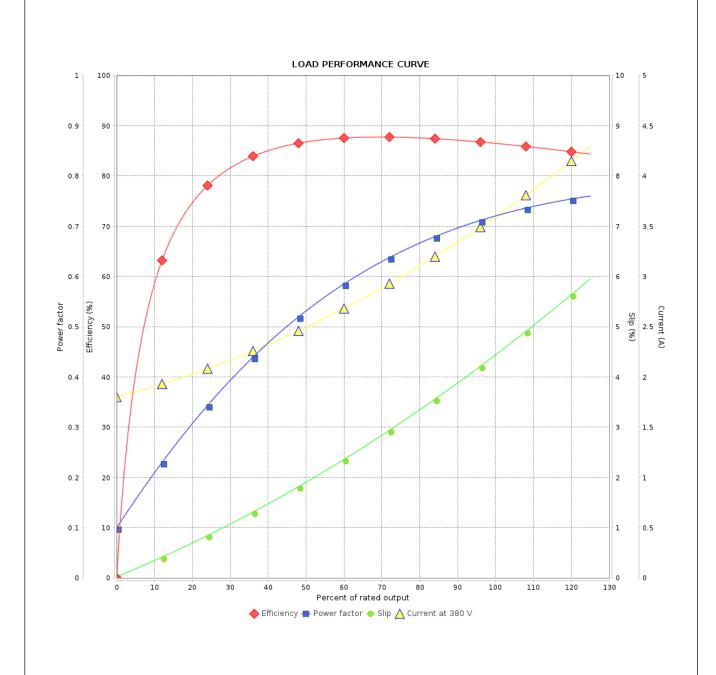
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Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14281643



Performance	: 380 V 50 Hz 6P IE4				
Rated current : 3.66 A		Moment of inertia (J)		: 0.0224 kgm²	
LRC Rated torque	: 6.0 : 1.52 kgfm	Duty cycle	class	: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 220 % : 240 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed	: 955 rpm	Design		: B	
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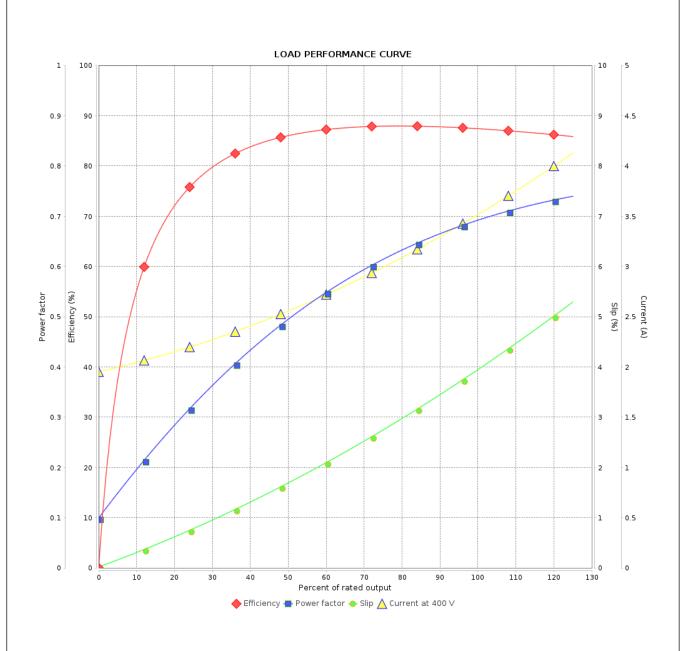


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14281643



Performance	: 400 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.59 A : 6.7 : 1.51 kgfm : 260 % : 270 % : 960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0224 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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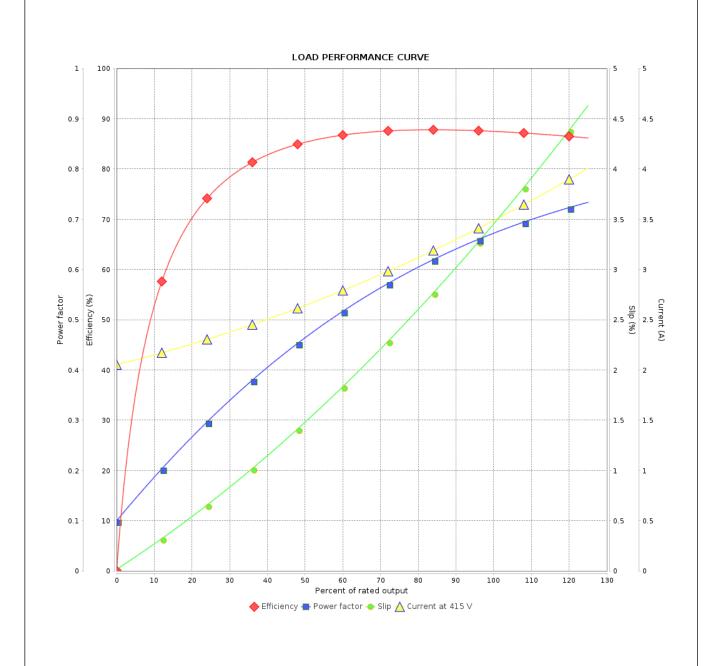
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Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14281643



Performance	: 415 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.56 A : 7.1 : 1.50 kgfm : 300 % : 300 % : 965 rpm	Moment of inertia (J) : 0.0224 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		: Cont.(S1) : F : 1.00 : 80 K	
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