DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14480938 Efficiency Three-Phase : 182/4T 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 : 54.7 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0117 kgm² Design : B Output [HP] 3 3 3 3 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 8.02/4.01 4.72 4.59 4.49 L. R. Amperes [A] 64.2/32.1 30.7 32.1 34.1 LRC [A] 8.0x(Code K) 6.5x(Code H) 7.0x(Code J) 7.6x(Code K) No load current [A] 4.20/2.10 2.20 2.50 2.70 Rated speed [RPM] 1760 1450 1455 1460 Slip [%] 2.22 3.33 3.00 2.67 Rated torque [kgfm] 1.24 1.50 1.50 1.49 Locked rotor torque [%] 250 215 229 260 Breakdown torque [%] 320 250 260 290 Service factor 1.00 1.00 1.00 1.15 80 K 80 K 80 K 80 K Temperature rise Locked rotor time 50s (cold) 28s (hot) 45s (cold) 25s (hot) 45s (cold) 25s (hot) 45s (cold) 25s (hot) Noise level² 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 86.2 89.2 88.1 86.4 50% 87.3 88.5 87.5 86.7 Efficiency (%) 75% 88.5 88.5 88.5 88.5 100% 89.5 87.5 87.5 88.5 25% 0.35 0.38 0.34 0.31 50% 0.59 0.63 0.59 0.55 Power Factor 75% 0.71 0.75 0.71 0.69 0.77 0.79 0.77 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.4 12.2 11.0 13.4 P2 (0,5;1,0) 10.6 9.6 8.7 10.6 P3 (0,25;1,0) 9.2 8.3 10.1 10.1 P4 (0,9;0,5) 7.1 Losses (%) 6.4 7.8 7.8 P5 (0,5;0,5) 4.2 5.1 5.1 4.7 P6 (0,5;0,25) 3.2 3.9 3.9 3.6 P7 (0,25;0,25) 2.3 2.8 2.8 2.6 Foundation loads Drive end Non drive end Bearing type 6307 2RS 6206 2RS : 63 kaf Max. traction Sealing Oil Seal Lip Seal : 118 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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DATA SHEET

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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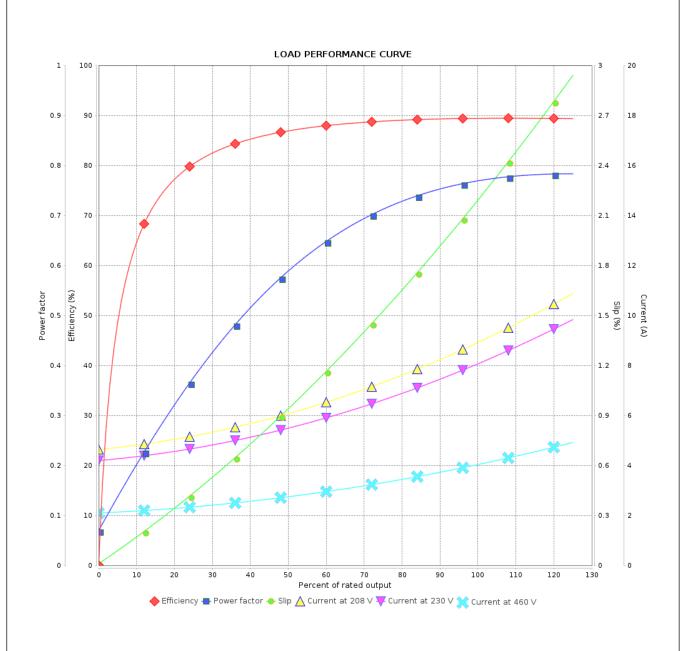


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14480938



Performance	: 230/460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.02/4.01 A : 8.0 : 1.24 kgfm : 250 % : 320 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0117 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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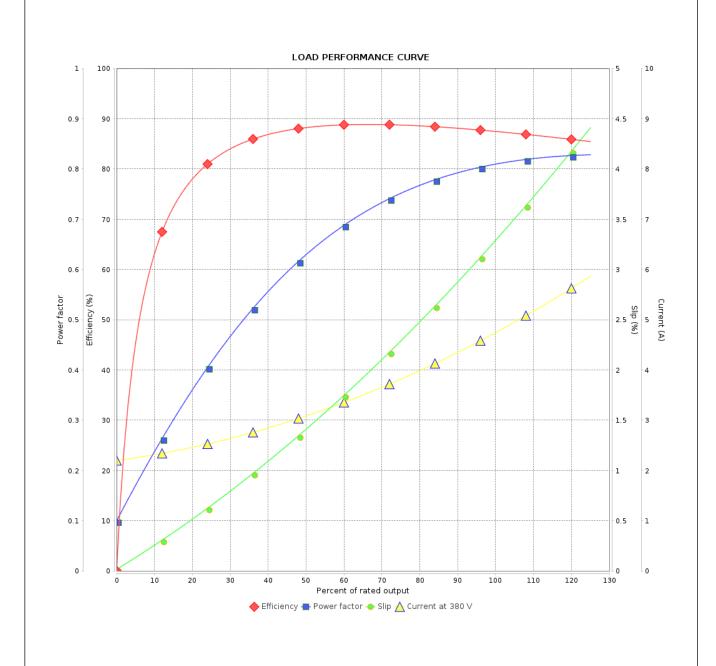


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14480938



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.72 A : 6.5 : 1.50 kgfm : 215 % : 250 % : 1450 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature i Design	SS	: 0.0117 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

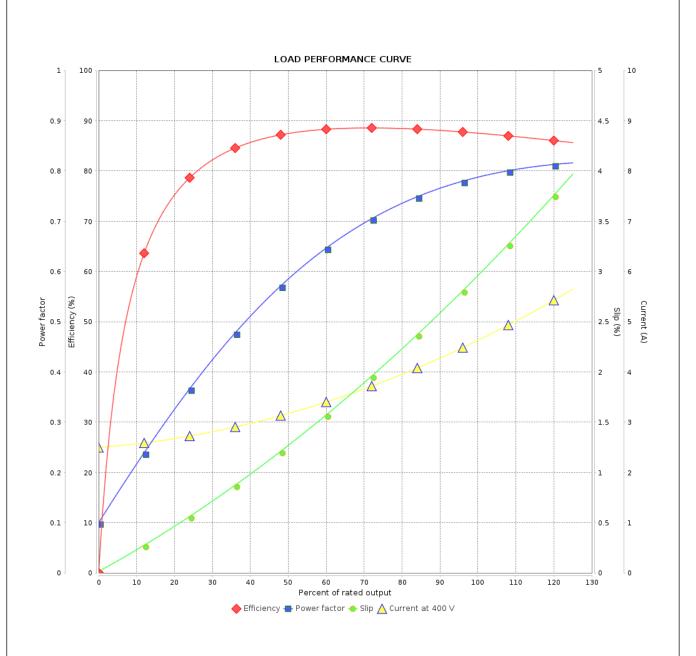


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14480938



Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.59 A : 7.0 : 1.50 kgfm : 229 % : 260 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0117 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	2
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Three Phase Induction Motor - Squirrel Cage

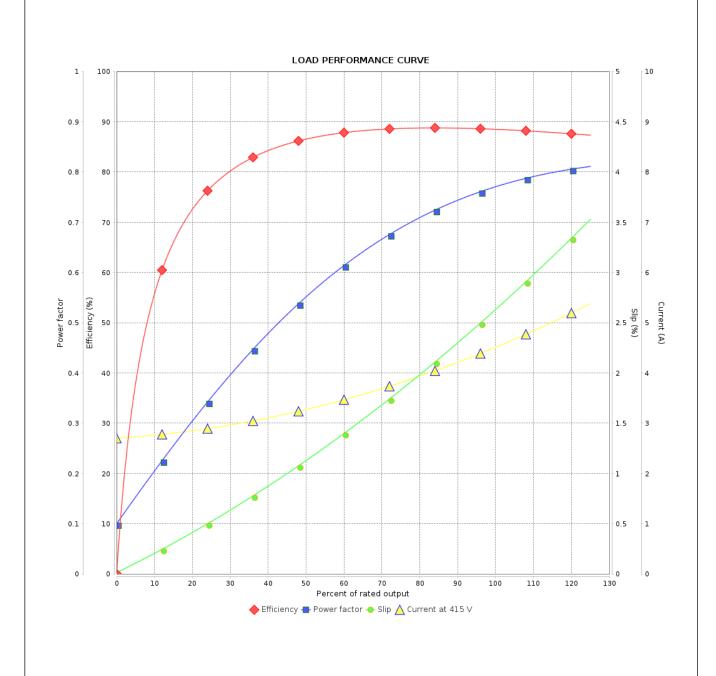


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14480938



Performance	: 4	115 V 50 Hz 4P IE3				
Rated current		I.49 A	Moment of inertia (J)		: 0.0117 kgm²	
LRC	: 7	7.6	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 1	l.49 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 2	260 %	Service fa	actor	: 1.00	
Breakdown torque		290 %	Temperati	Temperature rise		
Rated speed	: 1	460 rpm	Design		: B	
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