DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14325313 Efficiency Three-Phase Frame : 213/5T 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 : 1000 m.a.s.l. Approx. weight³ : 90.3 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0582 kgm² Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 4 4 4 4 60 50 Frequency [Hz] 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 18.8/9.41 11.3 10.7 10.6 L. R. Amperes [A] 126/63.0 61.9 68.7 72.1 LRC [A] 6.7x(Code H) 5.5x(Code F) 6.4x(Code H) 6.8x(Code H) No load current [A] 6.80/3.40 3.30 3.60 3.80 Rated speed [RPM] 1765 1450 1460 1460 Slip [%] 1.94 3.33 2.67 2.67 Rated torque [kgfm] 3.08 3.75 3.73 3.73 210 Locked rotor torque [%] 175 180 210 Breakdown torque [%] 280 215 280 270 Service factor 1.00 1.00 1.00 1.15 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 21s (cold) 12s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) Noise level² 58.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 89.4 88.2 87.6 87.6 50% 90.2 88.5 88.5 88.5 Efficiency (%) 75% 91.0 89.5 89.5 89.5 100% 91.7 89.5 90.2 90.2 25% 0.40 0.46 0.43 0.41 50% 0.60 0.66 0.63 0.61 Power Factor 75% 0.73 0.77 0.75 0.73 0.80 0.82 0.80 100% 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.6 10.6 8.8 P2 (0,5;1,0) 9.4 8.7 8.7 7.3 P3 (0,25;1,0) 8.3 7.7 7.7 6.4 P4 (0,9;0,5) 5.2 4.4 Losses (%) 5.6 5.2 P5 (0,5;0,5) 2.9 3.5 3.7 3.5 P6 (0,5;0,25) 1.9 2.5 2.3 2.3 P7 (0,25;0,25) 1.3 1.6 1.5 1.5 Non drive end Foundation loads Drive end Bearing type 6308 2RS 6207 2RS Max. traction : 141 kaf

Sealing Oil Seal Lip Seal Max. compression : 231 kgf Lubrication interval

Lubricant amount Lubricant type Mobil Polyrex EM

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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 15/01/2024 1/7 Date

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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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Three Phase Induction Motor - Squirrel Cage

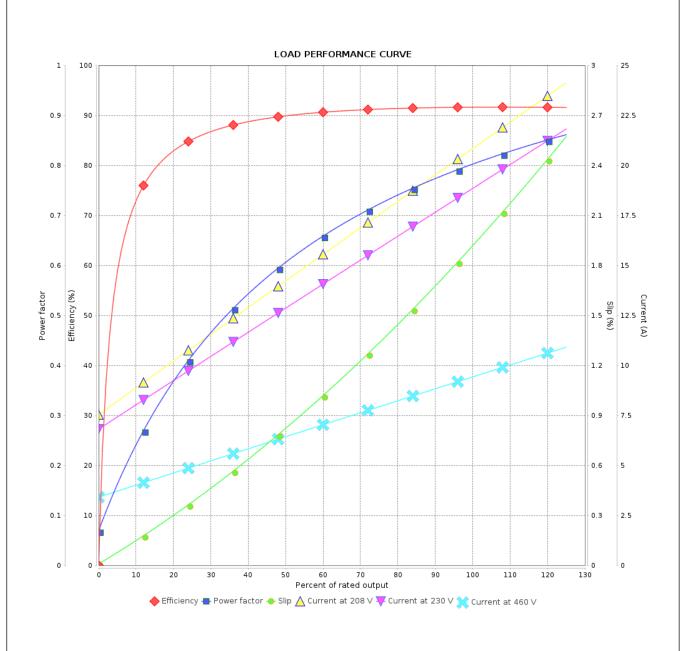


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325313



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 18.8/9.41 A : 6.7 : 3.08 kgfm : 210 % : 280 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0582 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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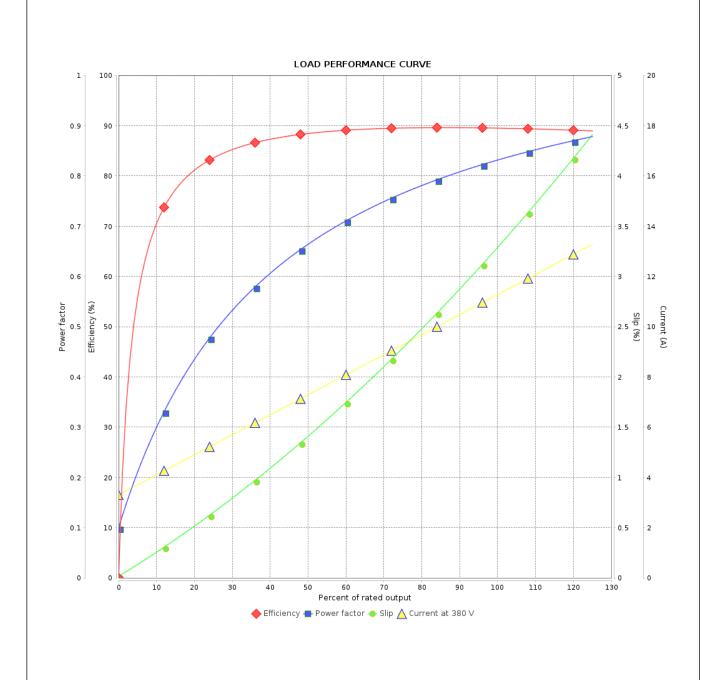


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325313



Performance	: 3	80 V 50 Hz 4P IE2				
Rated current		1.3 A	Moment o	Moment of inertia (J)		
LRC : 5		.5	Duty cycle	Moment of inertia (J) : 0.0582 kgm² Duty cycle : Cont.(S1)		
Rated torque		.75 kgfm	Insulation	class	: F	
Locked rotor torque		75 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	15 %	Temperati	Temperature rise : 80 K		
Rated speed	: 1	450 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer

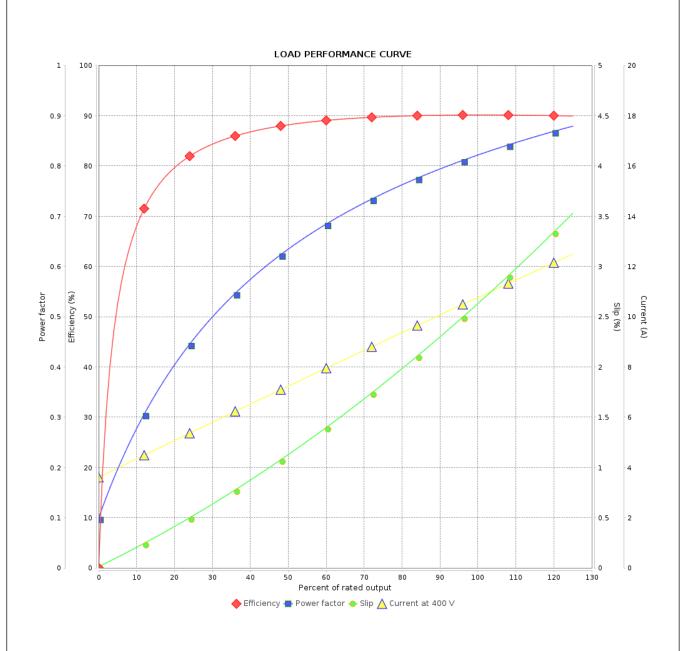
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Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325313



Performance : 400 V 50 Hz 4P IE3 : 10.7 A : 0.0582 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class Rated torque : 3.73 kgfm : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 6/7

Three Phase Induction Motor - Squirrel Cage

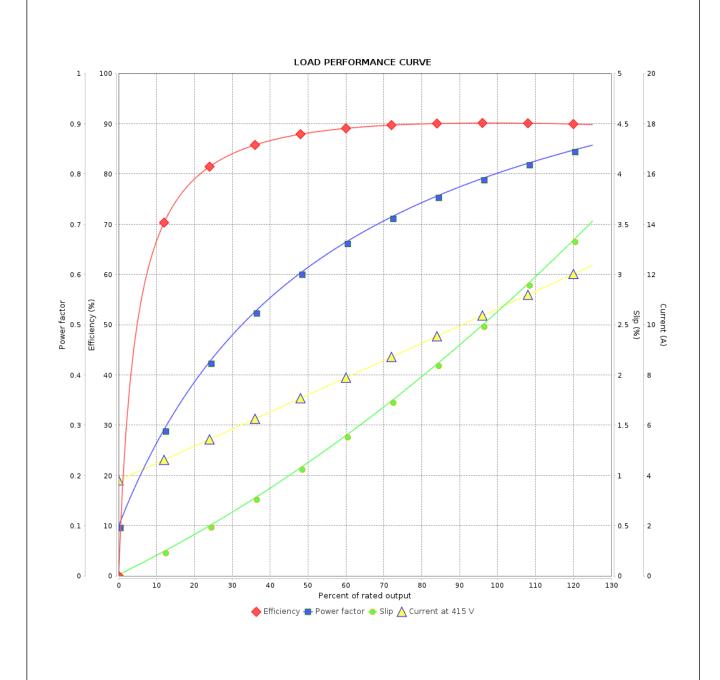


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325313



Performance	:	415 V 50 Hz 4P IE3					
Rated current	:	10.6 A	Moment o	Moment of inertia (J)			
LRC	:	6.8	Duty cycle)	: Cont.(S1)	: Cont.(S1)	
Rated torque	:	3.73 kgfm	Insulation	class	:F		
Locked rotor torque	:	210 %	Service fa	ctor	: 1.00		
Breakdown torque	:	270 %	Temperati	Temperature rise : 80 K			
Rated speed	:	1460 rpm	Design		: B		
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