DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Product code: 16202761 Premium Efficiency Three-Phase Frame : 182/4TC 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 Altitude : 58.5 kg Protection degree : IP55 Moment of inertia (J) : 0.0178 kgm² Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 4.64/2.32 2.68 2.62 2.64 L. R. Amperes [A] 30.6/15.3 14.5 16.0 16.9 LRC [A] 6.6x(Code K) 5.4x(Code H) 6.1x(Code J) 6.4x(Code K) No load current [A] 2.80/1.40 1.40 1.50 1.60 Rated speed [RPM] 1165 960 960 965 Slip [%] 2.92 4.00 4.00 3.50 Rated torque [kgfm] 0.934 1.13 1.13 1.13 Locked rotor torque [%] 260 190 220 250 Breakdown torque [%] 330 250 250 290 Service factor 1.00 1.00 1.00 1.15 80 K Temperature rise 80 K 80 K 80 K 25s (cold) 14s (hot) Locked rotor time 63s (cold) 35s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Noise level² 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 84.5 85.5 84.5 84.0 Efficiency (%) 75% 86.5 86.5 86.5 85.5 100% 87.5 85.5 86.5 86.5 25% 50% 0.47 0.52 0.48 0.45 Power Factor 75% 0.59 0.63 0.60 0.57 0.73 0.70 0.67 100% 0.68 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.4 14.7 14.7 15.9 P2 (0,5;1,0) 10.7 12.7 11.7 11.7 P3 (0,25;1,0) 10.0 11.9 11.0 11.0 P4 (0,9;0,5) 8.2 Losses (%) 9.7 9.0 9.0 P5 (0,5;0,5) 6.0 5.5 6.6 6.0 P6 (0,5;0,25) 4.4 5.2 4.8 4.8 P7 (0,25;0,25) 3.2 3.8 3.5 3.5 Non drive end Foundation loads Drive end Bearing type 6307 2RS 6206 2RS : 40 kaf Max. traction Sealing Oil Seal Lip Seal Max. compression : 97 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 must be eliminated. power supply, subject to the tolerances stipulated in NEMA MG-1. (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. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

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Date

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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



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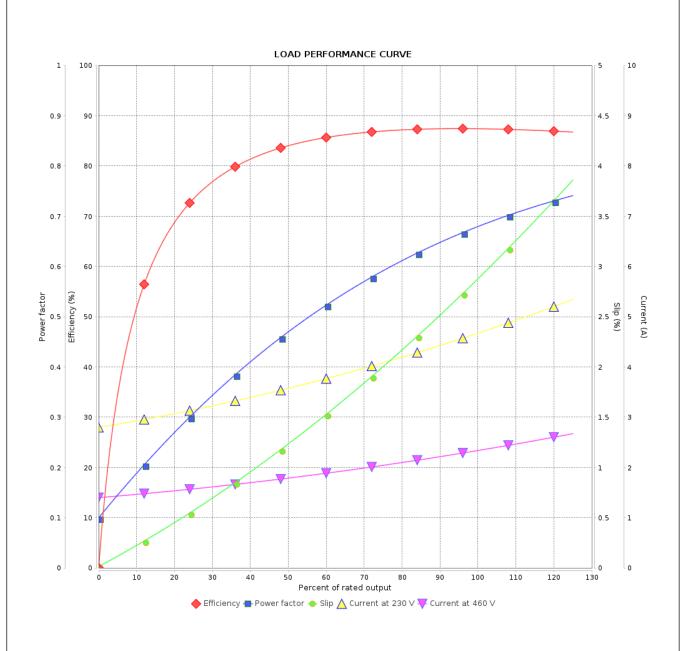
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 16202761



Performance : 230/460 V 60 Hz 6P Rated current : 4.64/2.32 A Moment of inertia (J) : 0.0178 kgm² **LRC** Duty cycle : Cont.(S1) : 6.6 : 0.934 kgfm Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1165 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage

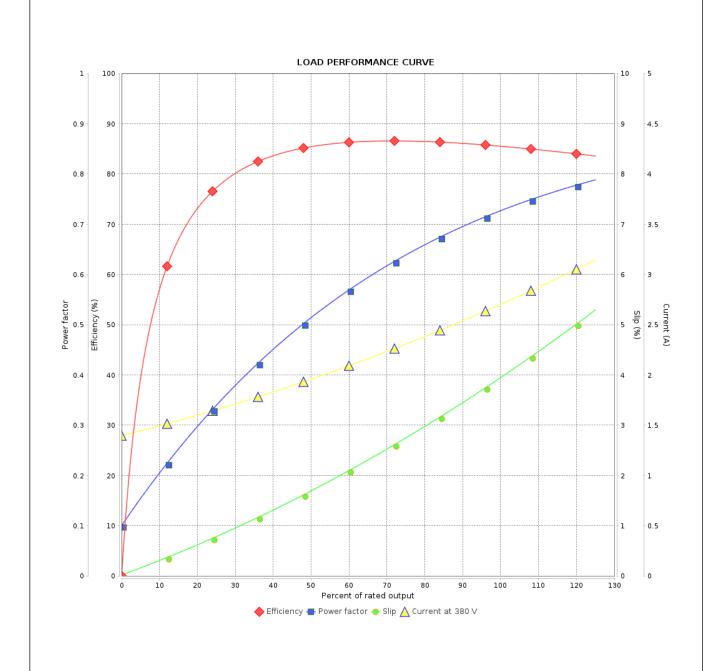


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 16202761



Performance : 380 V 50 Hz 6P IE4 : 2.68 A Rated current Moment of inertia (J) : 0.0178 kgm² **LRC** : 5.4 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1.13 kgfm Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 960 rpm Design : B Rev. Checked Date **Changes Summary** Performed

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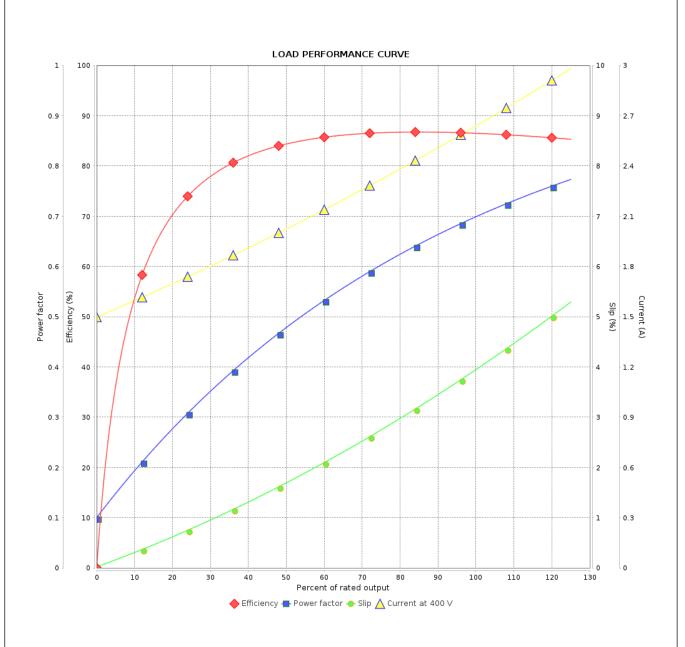


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 16202761



Performance		: 400 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 2.62 A : 6.1 : 1.13 kgfm : 220 % : 250 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0178 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed : 960 rpm		: 960 rpm	Design		: B	
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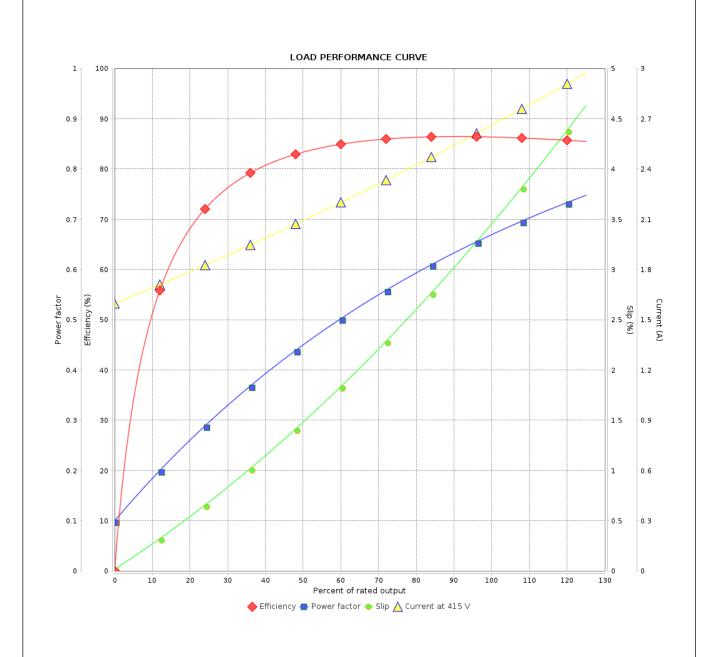
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 16202761



: 415 V 50 Hz 6P IE4				
: 2.64 A : 6.4 : 1.13 kgfm ue : 250 % e : 290 % : 965 rpm	Duty cycle Insulation Service fa	Duty cycle : Cor Insulation class : F Service factor : 1.00 Temperature rise : 80 I		2
Changes Summary	,	Performed	Checked	Date
	: 2.64 A : 6.4 : 1.13 kgfm ue : 250 % e : 290 % : 965 rpm	: 2.64 A	: 2.64 A : 6.4 : 1.13 kgfm ue : 250 % e : 290 % : 965 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.64 A

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