DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Super Premium Efficiency Product code: 12792146 Three-Phase Frame : 182/4T 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 : 44.9 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0167 kgm² Design : A 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] 4.41 7.88/3.94 4.61 4.49 L. R. Amperes [A] 74.9/37.4 36.9 39.1 41.9 LRC [A] 9.5x(Code L) 8.0x(Code K) 8.7x(Code L) 9.5x(Code M) No load current [A] 4.60/2.30 2.20 2.40 2.50 Rated speed [RPM] 1770 1460 1465 1465 Slip [%] 1.67 2.67 2.33 2.33 Rated torque [kgfm] 1.23 1.49 1.49 1.49 Locked rotor torque [%] 250 220 250 280 Breakdown torque [%] 360 250 300 350 Service factor 1.25 1.25 1.15 1.15 Temperature rise 80 K 80 K 80 K 80 K 54s (cold) 30s (hot) 54s (cold) 30s (hot) Locked rotor time 64s (cold) 36s (hot) 52s (cold) 29s (hot) Noise level² 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 87.5 88.5 88.5 89.5 Efficiency (%) 75% 88.5 89.5 89.5 90.2 100% 91.0 89.5 89.5 90.2 25% 50% 0.59 0.65 0.62 0.59 Power Factor 75% 0.70 0.76 0.73 0.70 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) 11.1 10.3 9.4 P2 (0,5;1,0) 7.3 8.0 8.6 8.6 P3 (0,25;1,0) 7.8 7.2 6.6 7.8 P4 (0,9;0,5) 6.2 Losses (%) 5.6 6.7 6.7 P5 (0,5;0,5) 4.4 4.1 3.7 4.4 P6 (0,5;0,25) 2.9 3.4 3.4 3.2 P7 (0,25;0,25) 2.0 2.4 2.4 2.2 Non drive end Foundation loads Drive end Bearing type 6207 ZZ 6206 ZZ : 86 kaf Max. traction Sealing V'Ring V'Ring : 131 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 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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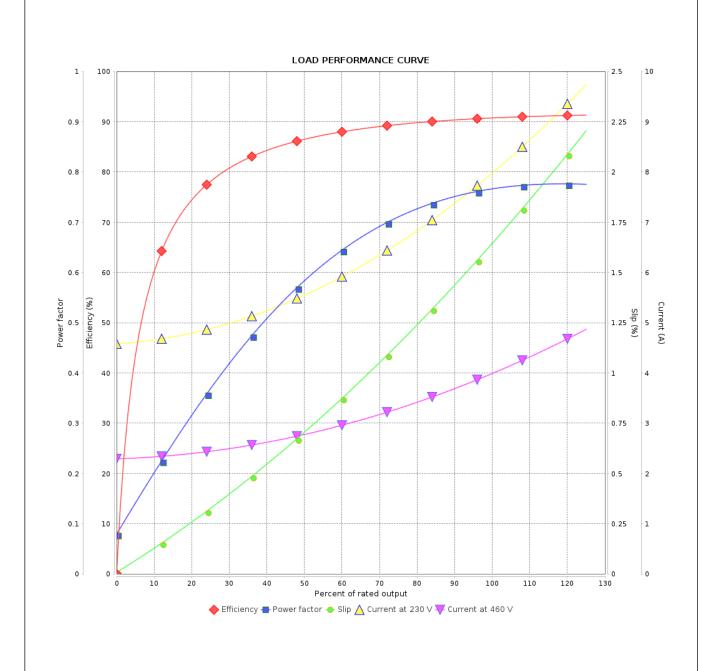
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Product code : 12792146

Three-Phase



Performance		: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 7.88/3.94 A : 9.5 : 1.23 kgfm : 250 % : 360 % : 1770 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0167 kgm : Cont.(S1) : F : 1.25 : 80 K : A	2
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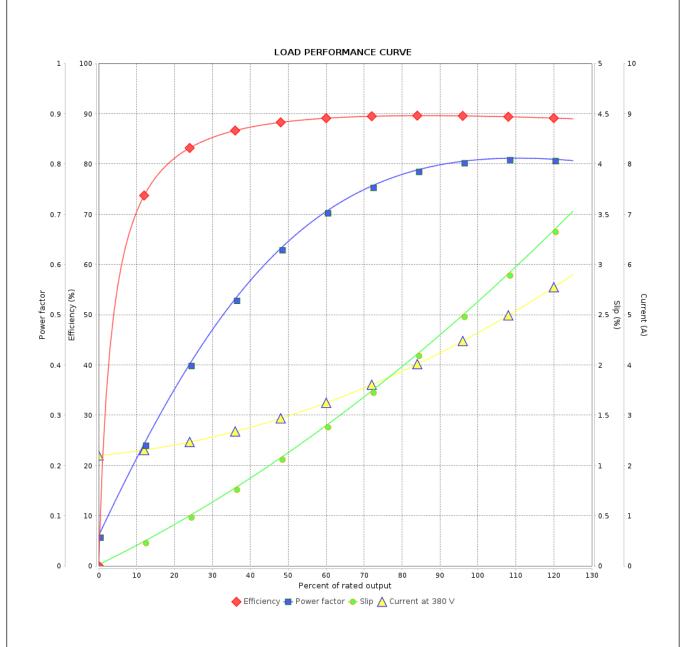
Customer :

Product line : W22 Super Premium Efficiency

Three-Phase

Product code:

12792146



Performance : 380 V 50 Hz 4P IE4 : 0.0167 kgm² Rated current : 4.61 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 8.0 Insulation class : 1.49 kgfm : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1460 rpm Design : A Rev. **Changes Summary** Performed Checked Date

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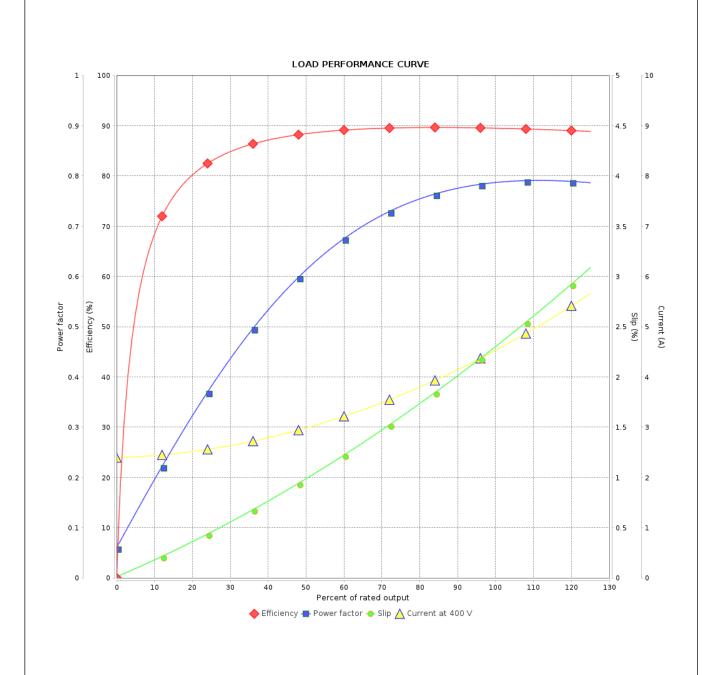
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Product line : W22 Super Premium Efficiency Product code : 12792146

Three-Phase



Performance	: 400 V 50 Hz 4P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.49 A : 8.7 : 1.49 kgfm : 250 % : 300 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0167 kgm² : Cont.(S1) : F : 1.15 : 80 K : A	
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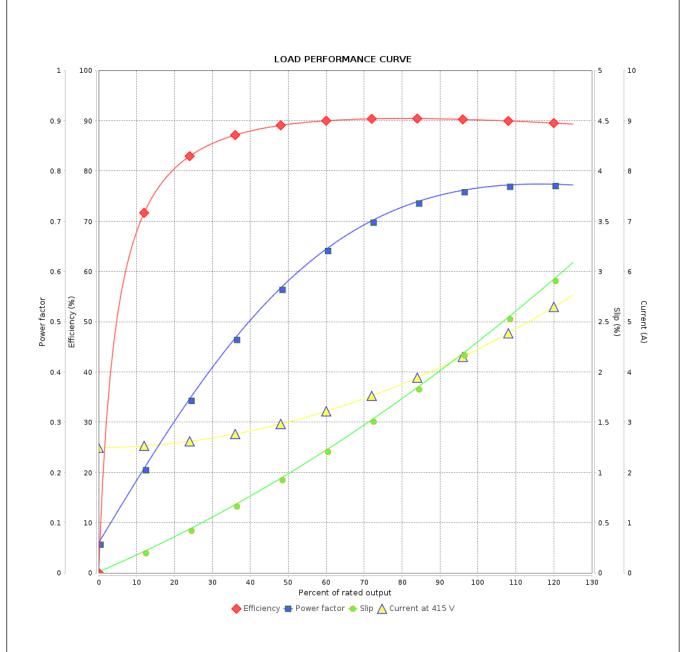
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Product line : W22 Super Premium Efficiency

Three-Phase

Product code:

12792146



Performance	: 4	15 V 50 Hz 4P IE4				
Rated current :		.41 A	Moment of	Moment of inertia (J)		2
LRC : 9.		.5	Duty cycle	Duty cycle		
Rated torque :		.49 kgfm	Insulation class		: Cont.(S1) : F	
Locked rotor tord	que : 2	80 %	Service factor		: 1.15	
Breakdown torque		50 %	Temperat	Temperature rise		
Rated speed	: 1	465 rpm	Design	Design		
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