DATA SHEET

Performed by



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11943459 Three-Phase Frame : 364/5T 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 Altitude : 436 kg Protection degree : IP55 Moment of inertia (J) : 0.9798 kgm² Design : B Output [HP] 75 75 75 75 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 87.2 106 102 98.7 L. R. Amperes [A] 558 541 571 602 LRC [A] 6.4x(Code G) 5.1x(Code E) 5.6x(Code F) 6.1x(Code G) No load current [A] 33.0 33.0 35.0 38.0 Rated speed [RPM] 1780 1475 1475 1480 Slip [%] 1.11 1.67 1.67 1.33 Rated torque [kgfm] 30.6 36.9 36.9 36.8 Locked rotor torque [%] 240 170 200 210 Breakdown torque [%] 260 200 220 240 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 105 K 105 K 105 K 18s (cold) 10s (hot) Locked rotor time 25s (cold) 14s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level² 67.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 94.5 94.5 94.5 94.1 Efficiency (%) 75% 95.0 94.1 94.5 94.5 100% 95.4 93.6 94.1 94.5 25% 50% 0.68 0.75 0.70 0.67 Power Factor 75% 0.78 0.82 0.80 0.78 0.83 0.82 100% 0.83 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.7 4.7 4.7 P2 (0,5;1,0) 3.7 3.7 3.7 3.7 P3 (0,25;1,0) 3.4 3.4 3.4 3.4 P4 (0,9;0,5) 2.4 2.4 Losses (%) 2.4 2.4 P5 (0,5;0,5) 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 P7 (0,25;0,25) 0.7 0.7 0.7 0.7 Non drive end Foundation loads Drive end 6314 C3 6314 C3 Bearing type Max. traction : 773 kgf Sealing Taconite Taconite Max. compression : 1209 kgf Labyrinth Labyrinth 12000 h 12000 h Lubrication interval 27 g Lubricant amount 27 g 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). Date **Changes Summary** Performed Checked Rev.

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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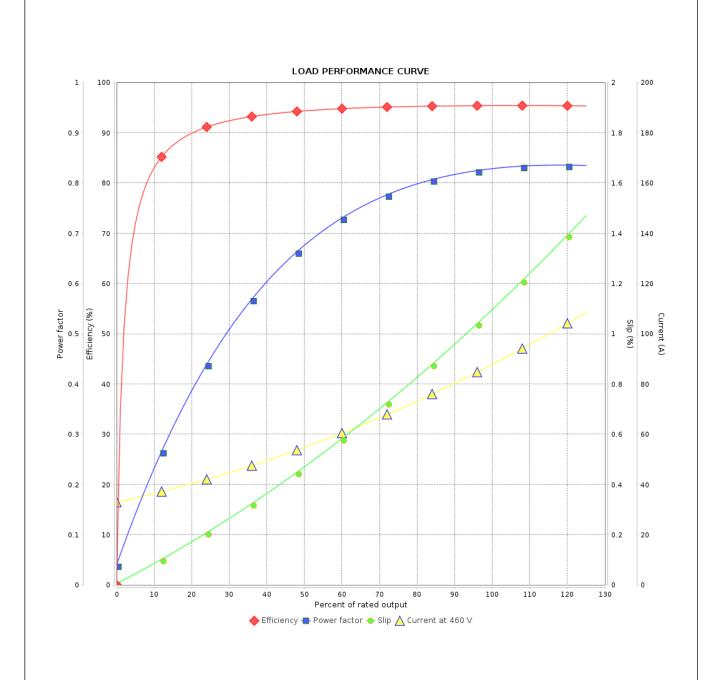
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943459

Three-Phase



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 87.2 A : 6.4 : 30.6 kgfm : 240 % : 260 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9798 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

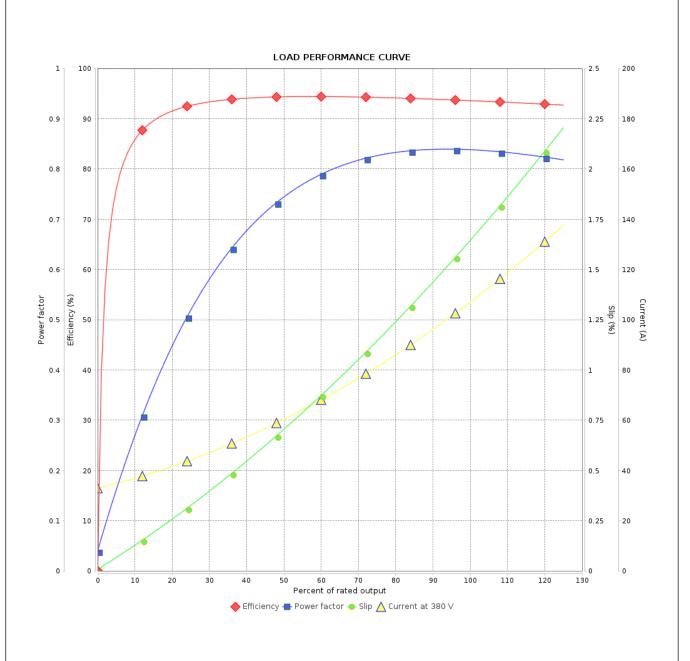


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 11943459



Performance	: 3	80 V 50 Hz 4P IE2				
Rated current :		06 A	Moment of inertia (J)		: 0.9798 kgm²	
LRC : 5.		.1	Duty cycle		: Cont.(S1)	
Rated torque : 3		6.9 kgfm	Insulation class		:F ´´	
		70 %	Service factor		: 1.00	
Breakdown torque		00 %	Temperature rise		: 105 K	
Rated speed	: 1	475 rpm	Design		: B	
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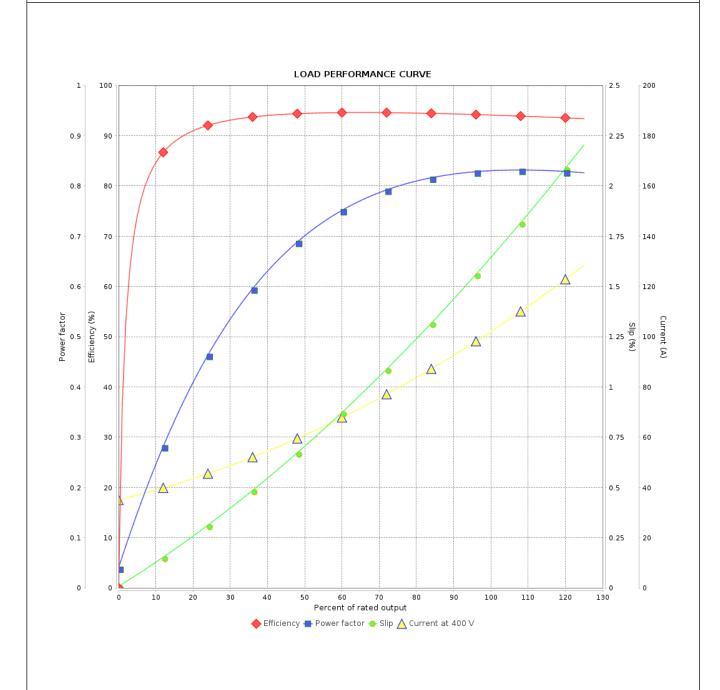
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943459

Three-Phase



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 5.6 : 36.9 kgfm : 200 % : 220 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage

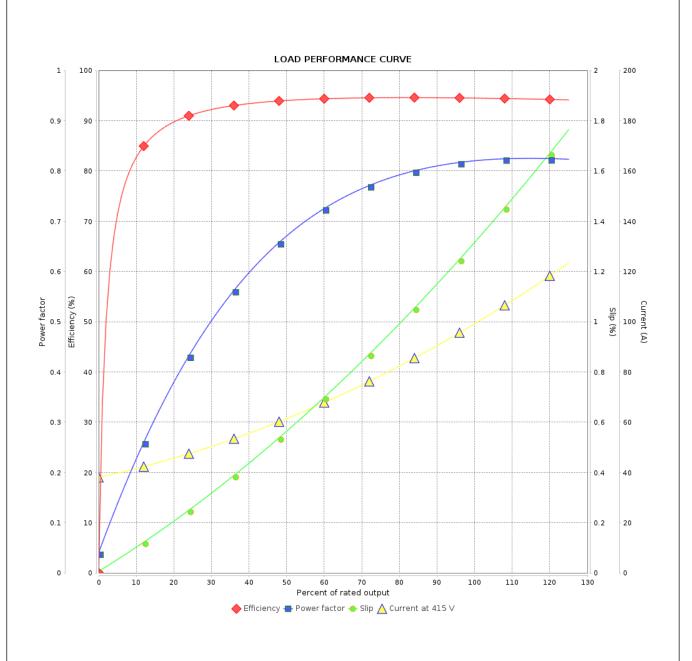


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 11943459



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current		8.7 A	Moment of	Moment of inertia (J)		2
LRC : 6.		.1	Duty cycle	Duty cycle		
Rated torque : 3		6.8 kgfm	Insulation class		: Cont.(S1) : F	
•		10 %	Service factor		: 1.00	
·		40 %	Temperature rise		: 105 K	
Rated speed	: 1	480 rpm	Design	Design		
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