DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943459 Efficiency 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] 30.5 36.9 36.8 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 0.84 0.83 0.82 100% 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power 4.7 P1 (0,9;1,0) 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 2.4 Losses (%) 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 Drive end Non drive end Foundation loads 6314 C3 6314 C3 Bearing type Max. traction : 773 kgf Sealing **Taconite** Taconite : 1209 kgf Max. compression Labyrinth Labyrinth 12000 h 12000 h Lubrication interval Lubricant amount 27 g 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. Performed by Checked by Page Revision

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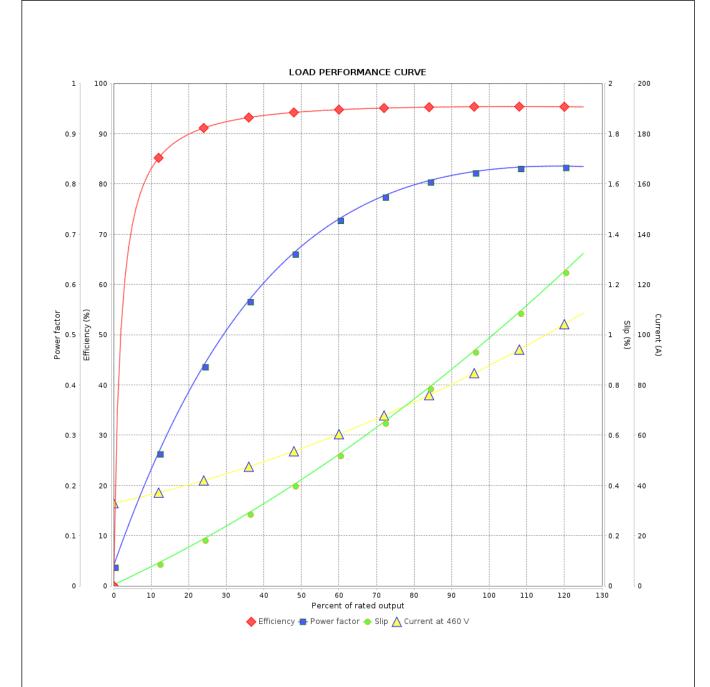
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 87.2 A : 6.4 : 30.5 kgfm : 240 %	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

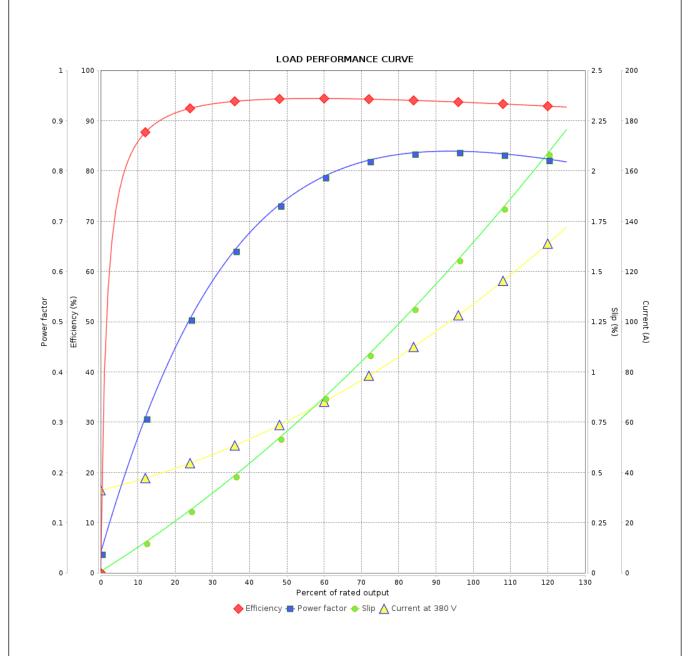


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943459



Performance	: 380 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 106 A : 5.1 : 36.9 kgfm : 170 % : 200 % : 1475 rpm	: 5.1 Duty cycle : Cont.(S1) : 36.9 kgfm Insulation class : F : 170 % Service factor : 1.00 : 200 % Temperature rise : 105 K		2
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Three Phase Induction Motor - Squirrel Cage

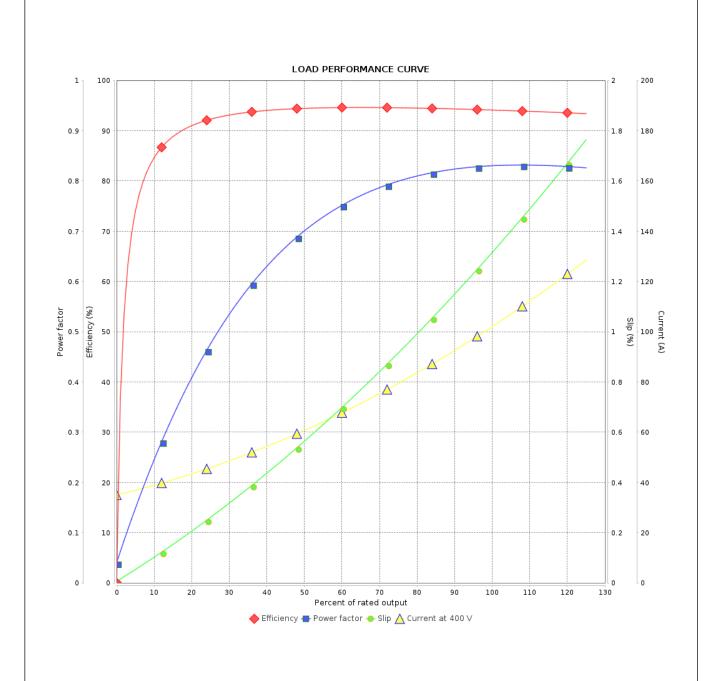


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 400 V 50 Hz 4P IE	2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 102 A : 5.6 : 36.8 kgfm : 200 % : 220 % : 1475 rpm	Duty cycle Insulation Service fa	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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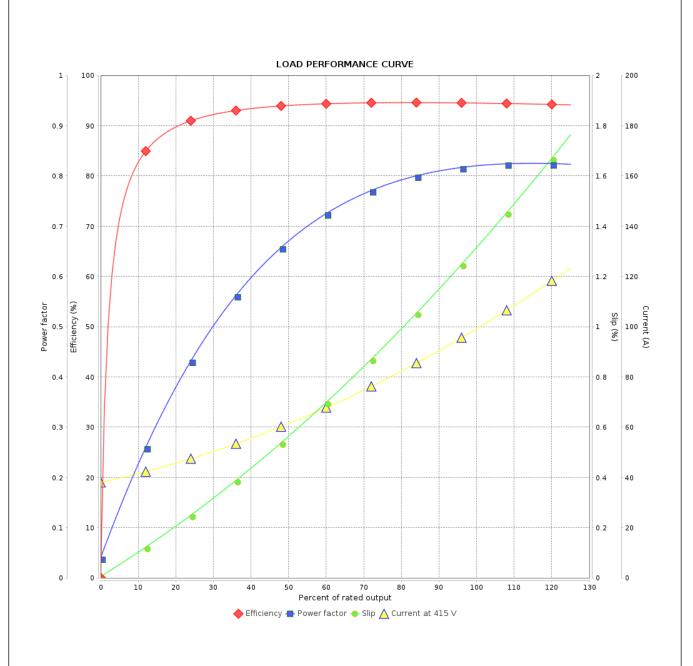


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943459



Performance	: 415 V 50 Hz 4P IE2			
1 enormance	.413 V 30 112 41 112			
Rated current	: 98.7 A	Moment of inertia (J)	: 0.9798 kgm²	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 36.8 kgfm	Insulation class	: F ` ´	
Locked rotor torque	: 210 %			
Breakdown torque	: 240 %	Temperature rise	: 105 K	
Rated speed	: 1480 rpm	Design	: B	
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