DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11919906 Efficiency Three-Phase Cooling method Frame : 213/5T : 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 Approx. weight³ Altitude : 1000 m.a.s.l. : 85.8 kg Protection degree : IP55 Moment of inertia (J) : 0.0636 kgm² Design : B Output [HP] 10 7.5 10 7.5 7.5 10 10 Poles 4 4 4 4 4 4 4 50 50 50 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 460 380 400 415 400 415 15.0 Rated current [A] 12.4 11.2 11.0 10.9 14.2 13.8 76.5 L. R. Amperes [A] 79.4 75.0 78.1 81.7 79.5 82.8 LRC [A] 6.4x(Code H) 6.7x(Code H) 7.1x(Code J) 7.5x(Code K) 5.1x(Code 5.6x(Code 6.0x(Code H) G) G) No load current [A] 5.65 5.60 6.00 6.35 5.60 6.00 6.35 Rated speed [RPM] 1765 1465 1470 1470 1450 1455 1460 Slip [%] 1.94 2.33 2.00 2.00 3.33 3.00 2.67 Rated torque [kgfm] 4.11 3.70 3.69 3.69 5.01 4.99 4.97 Locked rotor torque [%] 200 200 240 260 150 180 190 Breakdown torque [%] 295 300 340 360 220 250 270 Service factor 1.25 1.15 1.15 1.15 1.15 1.15 1.15 Temperature rise 80 K 25s (cold) 25s (cold) Locked rotor time 30s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 17s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) Noise level² 58.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 91.0 90.0 89.2 88.7 90.3 90.3 90.3 Efficiency (%) 75% 91.7 90.0 89.9 89.8 90.2 90.2 90.2 100% 91.7 89.8 90.1 90.3 88.5 89.5 90.2 25% 50% 0.66 0.62 0.58 0.55 0.73 0.69 0.66 Power Factor 75% 0.77 0.76 0.73 0.70 0.82 0.80 0.78 100% 0.83 0.83 0.80 0.78 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.8 8.8 8.8 8.8 8.8 8.8 8.8 P2 (0,5;1,0) 7.3 7.3 7.3 7.3 7.3 7.3 7.3 P3 (0,25;1,0) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 P4 (0,9;0,5) 4.6 4.6 4.6 4.6 4.6 4.6 4.6 Losses (%) P5 (0,5;0,5) 3.2 3.2 3.2 3.2 3.2 3.2 3.2 P6 (0,5;0,25) 2.3 2.3 2.3 2.3 2.3 2.3 2.3 P7 1.6 1.6 1.6 1.6 1.6 1.6 1.6 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6308 C3 6207 C3 : 205 kgf Max. traction Taconite **Taconite** Sealing : 291 kgf Max. compression Labyrinth Labyrinth 20000 h Lubrication interval 20000 h Lubricant amount 11 a 7 g Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by Checked by Page Revision

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Date

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Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Customer Notes This revision rep	i:		These ar	re average values		
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. (4) At 100% of full load.			e average values ipply, subject to th			
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Three Phase Induction Motor - Squirrel Cage



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Customer :

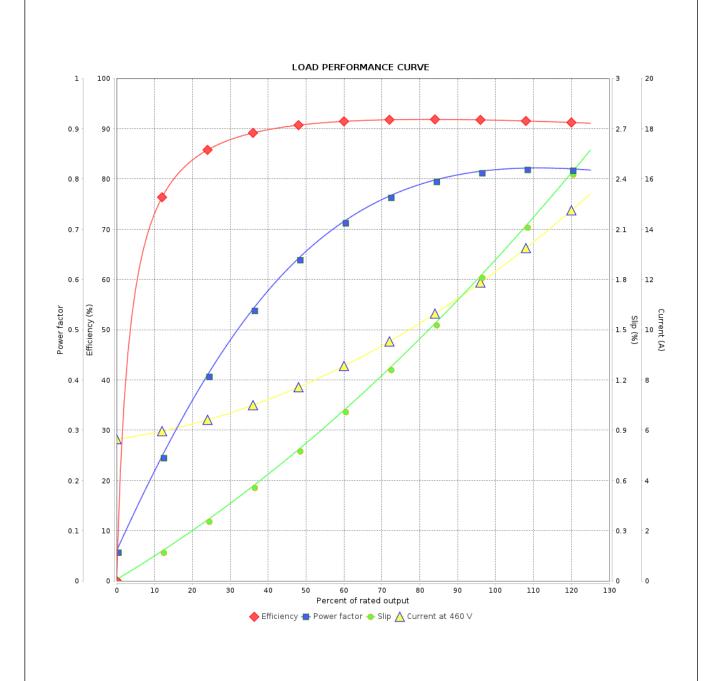
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Date

22/10/2024

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance : 460 V 60 Hz 4P		Hz 4P			
Rated current : 12.4 A			Moment of inertia (J)		2
Rated torque	: 6.4 : 4.11 kgfm : 200 %	Insulation	Duty cycle Insulation class		
Locked rotor tord	e : 295 %	Temperato	Service factor Temperature rise		
Rated speed : 1765 rpm		Design		: B	
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Three Phase Induction Motor - Squirrel Cage

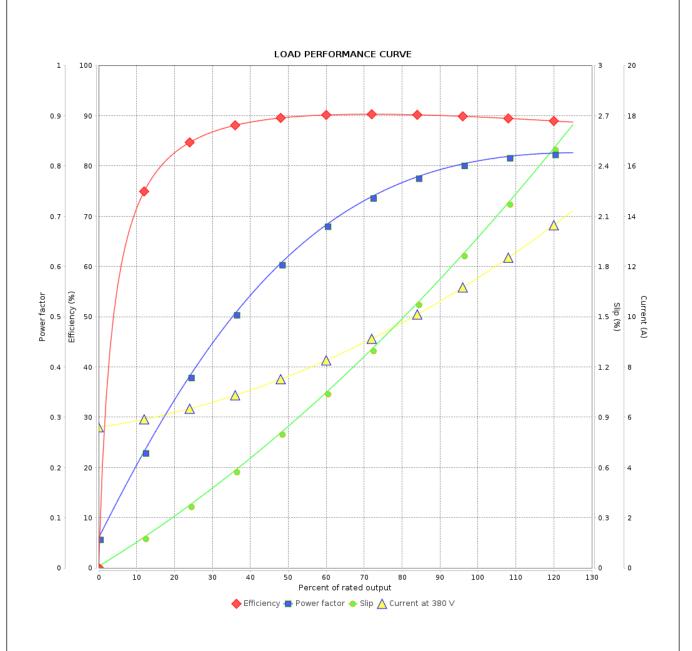


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11919906



Performance	: 380 V 50 Hz 4P IE3					
Rated current	: 11.2 A	Moment of inertia (J)		: 0.0636 kgm²		
LRC	: 6.7	: 6.7 : 3.70 kgfm : 200 % : 300 % Duty cycle Insulation class Service factor Temperature rise		: Cont.(S1)		
Rated torque	: 3.70 kgfm			: F	:	
Locked rotor torque	: 200 %			ctor : 1.15		
Breakdown torque	: 300 %			: 80 K		
Rated speed	: 1465 rpm Design			: B		
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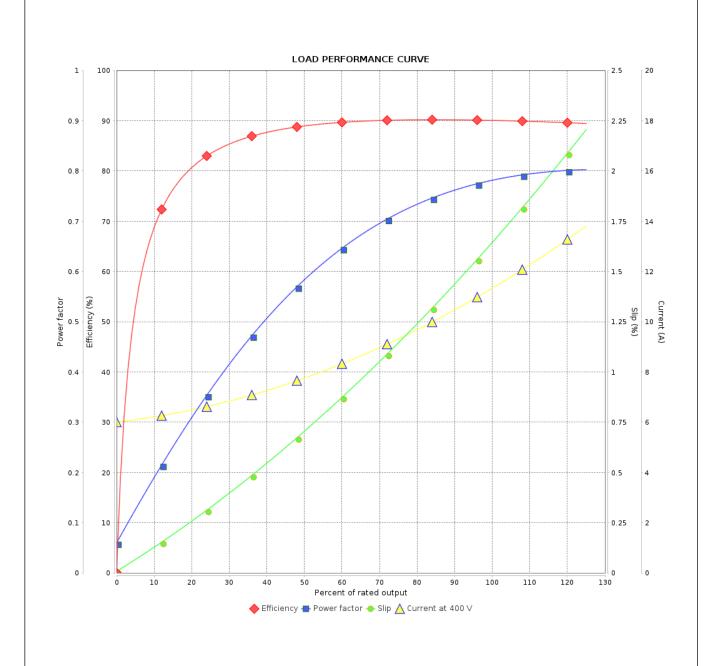


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11919906



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.0 A : 7.1 : 3.69 kgfm : 240 % : 340 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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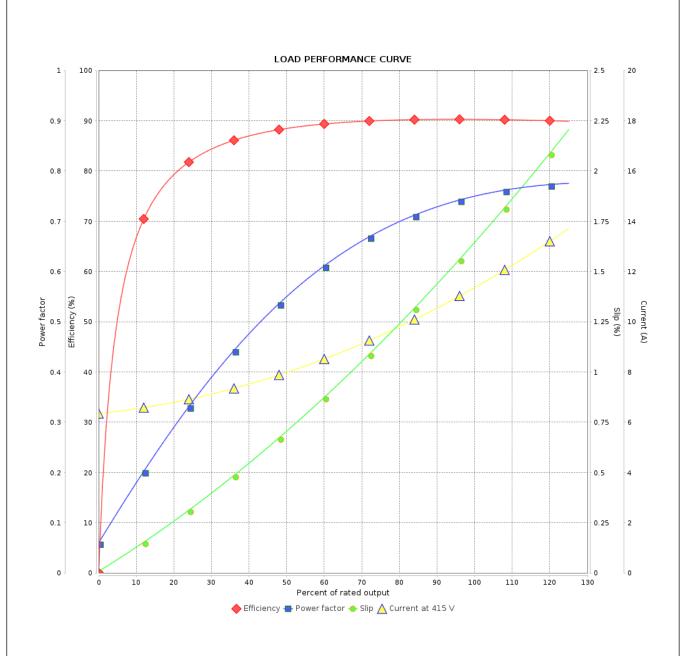


Customer :

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Efficiency Three-Phase

Product code: 11919906



Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.9 A : 7.5 : 3.69 kgfm : 260 % : 360 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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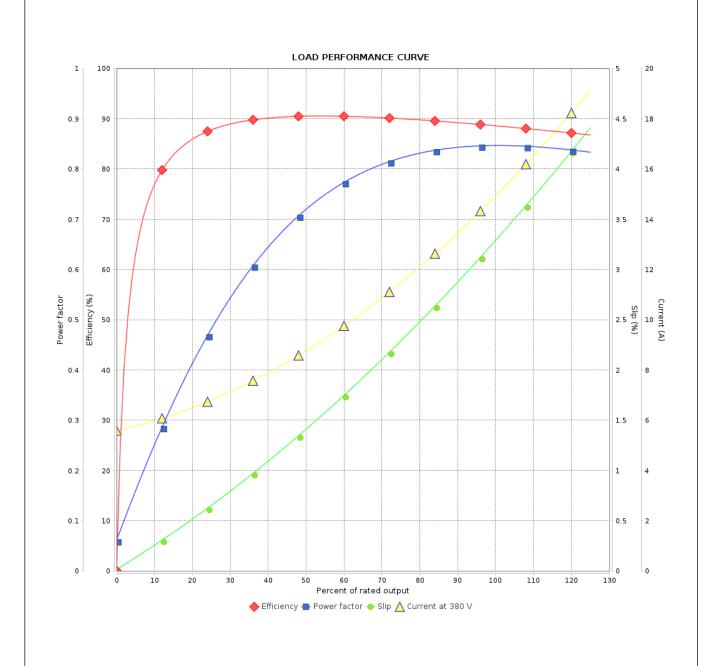


Customer :

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Efficiency Three-Phase

Product code: 11919906



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.0 A : 5.1 : 5.01 kgfm : 150 % : 220 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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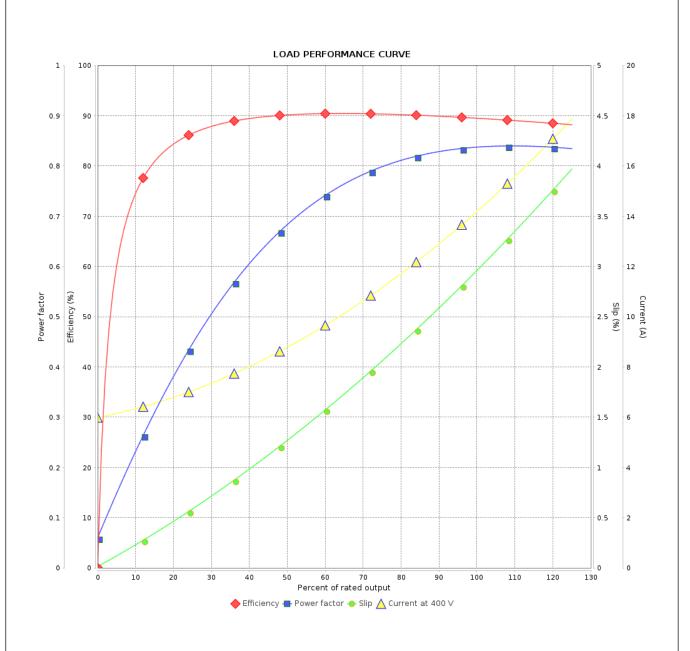
Date

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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11919906



Performance : 400 V 50 Hz 4P IE2 : 14.2 A : 0.0636 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 5.6 Insulation class Rated torque : 4.99 kgfm : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1455 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



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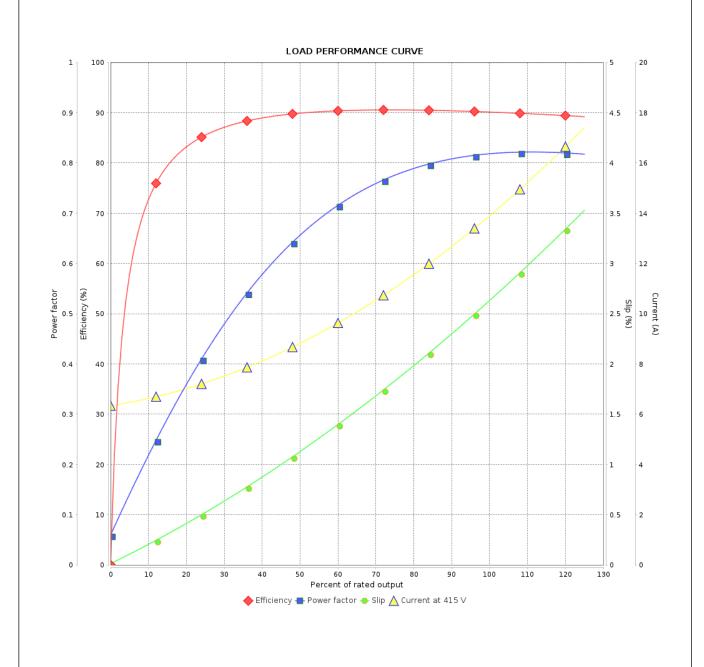
Date

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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11919906



Performance : 415 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.8 A : 6.0 : 4.97 kgfm : 190 % : 270 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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