DATA SHEET

Checked by

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943378 Efficiency Three-Phase : 404/5T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 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. : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 1.69 kgm² Design : B Output [HP] 60 60 50 50 50 60 60 Poles 8 8 8 8 8 8 8 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 70.9 89.2 Rated current [A] 73.0 72.9 69.2 85.0 82.9 475 L. R. Amperes [A] 475 445 505 455 485 514 LRC [A] 6.5x(Code H) 6.1x(Code | 6.7x(Code H) 7.3x(Code J) 5.1x(Code E) 5.7x(Code F) 6.2x(Code G) G) 30.0 33.9 No load current [A] 32.0 29.7 29.7 32.0 33.9 Rated speed [RPM] 880 725 730 730 720 725 725 Slip [%] 2.22 3.33 2.67 2.67 4.00 3.33 3.33 Rated torque [kgfm] 49.5 50.1 49.7 49.7 60.5 60.1 60.1 Locked rotor torque [%] 180 180 210 229 150 170 190 Breakdown torque [%] 270 250 290 310 210 240 260 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 18s (cold) Locked rotor time 23s (cold) 18s (cold) 18s (cold) 18s (cold) 18s (cold) 18s (cold) 10s (hot) 13s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) Noise level² 60.0 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% 93.0 92.4 91.9 91.9 92.4 92.4 92.4 Efficiency (%) 75% 93.0 92.1 92.1 92.2 91.7 91.7 91.7 100% 93.0 91.8 91.8 91.8 90.2 91.0 91.0 25% 50% 0.68 0.67 0.64 0.61 0.74 0.71 0.68 Power Factor 75% 0.78 0.79 0.77 0.74 0.82 0.80 0.78 100% 0.83 0.84 0.82 0.81 0.85 0.84 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.3 7.3 7.3 7.3 7.3 7.3 7.3 P2 (0,5;1,0) 6.4 6.4 6.4 6.4 6.4 6.4 6.4 P3 (0,25;1,0) 6.4 6.4 6.4 6.4 6.4 6.4 6.4 P4 (0,9;0,5) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 Losses (%) P5 (0,5;0,5) 2.3 2.3 2.3 2.3 2.3 2.3 2.3 P6 (0,5;0,25) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 P7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6316 C3 6314 C3 : 1538 kgf Max. traction Taconite **Taconite** Sealing Max. compression : 1538 kgf Labyrinth Labyrinth 20000 h Lubrication interval 20000 h Lubricant amount 34 a 27 g Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by

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22/10/2024



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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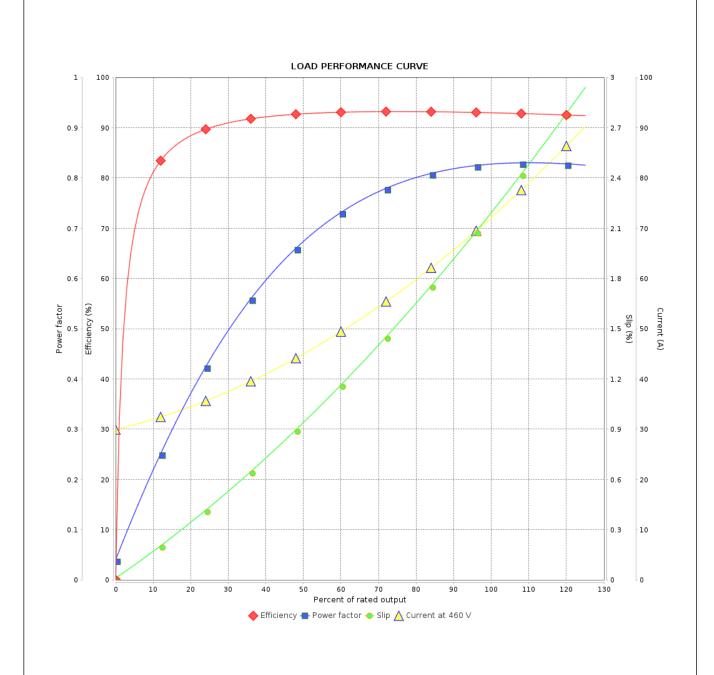
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943378

Efficiency Three-Phase



Performance		: 460 V 60 Hz 8P				
Rated current		: 73.0 A	Moment of	of inertia (J)	: 1.69 kgm²	
LRC		: 6.5	Duty cycle	Э	: Cont.(S1)	
Rated torque		: 49.5 kgfm	Insulation class		:F	
Locked rotor tord	que	: 180 %	Service factor		: 1.25	
Breakdown torqu	ue	: 270 %	Temperat	ure rise	: 80 K	
Rated speed		: 880 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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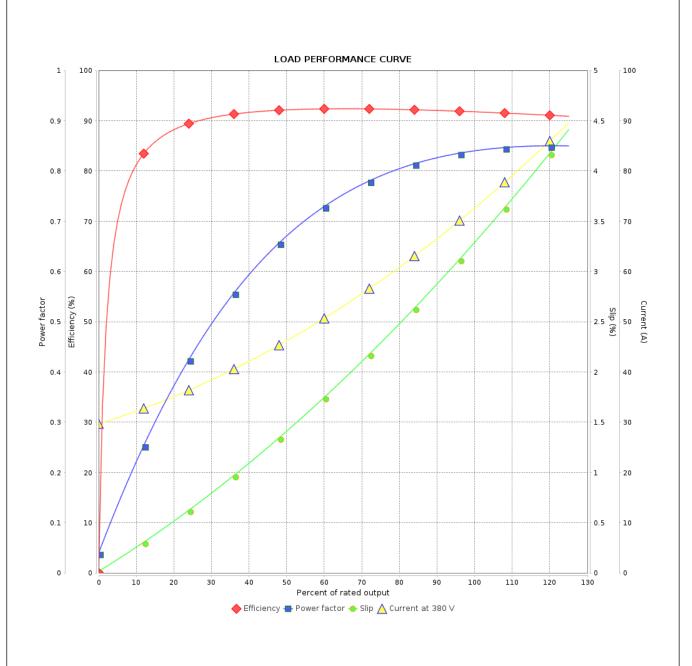
Date

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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943378



Performance	: 3	380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: (: (!ue : : 2	72.9 A 6.1 50.1 kgfm 180 % 250 % 725 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 1.69 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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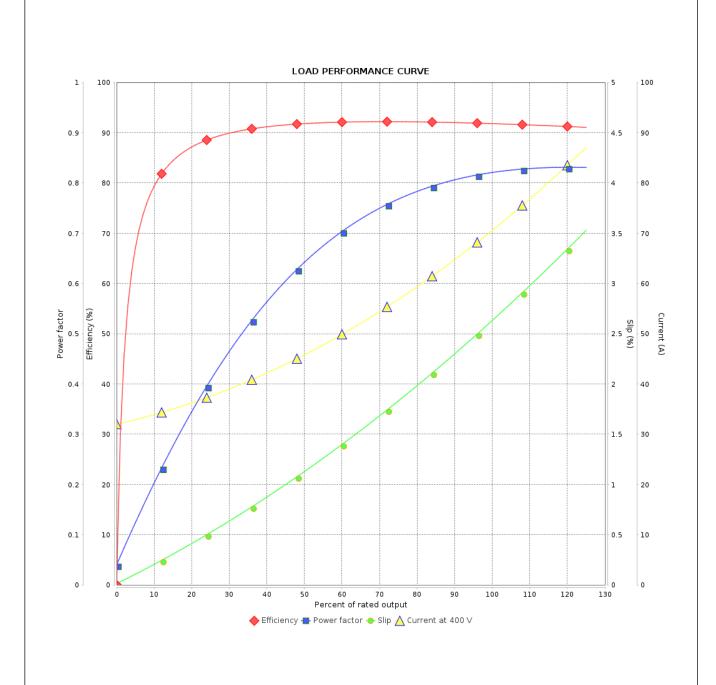


11943378

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 400 V 50 Hz 8P	IE3				
Rated current LRC		: 70.9 A : 6.7	l l	Moment of inertia (J) Duty cycle		: 1.69 kgm² : Cont.(S1)	
Rated torque		: 49.7 kgfm	Inst	Insulation class		: F	
Locked rotor tord Breakdown torqu	1	: 210 % : 290 %		Service factor Temperature rise		: 1.00 : 80 K	
Rated speed		: 730 rpm	Des	sign		: B	
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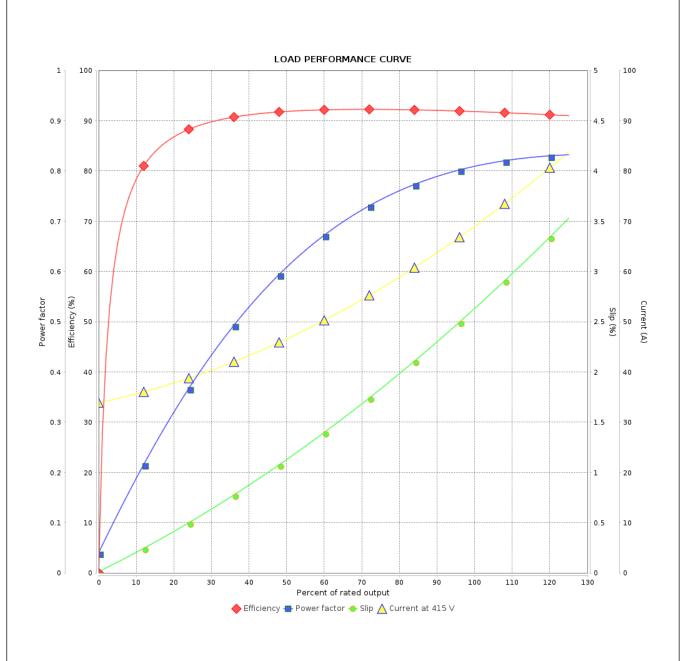


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943378



Performance	: 415 V 50 Hz 8P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.2 A : 7.3 : 49.7 kgfm : 229 % : 310 % : 730 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.69 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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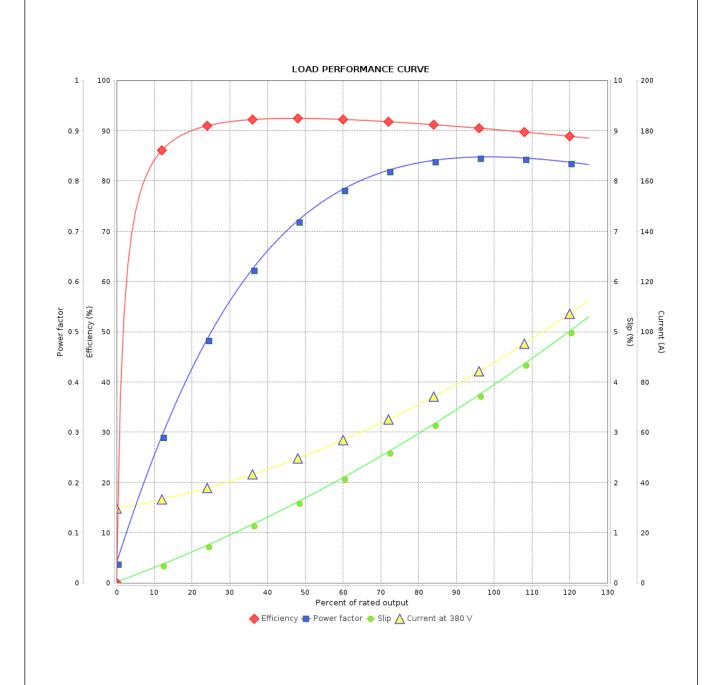
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943378

Efficiency Three-Phase



Performance : 380 V 50 Hz 8P IE1 Rated current : 89.2 A Moment of inertia (J) : 1.69 kgm² **LRC** : 5.1 Duty cycle : Cont.(S1) : 60.5 kgfm : F Rated torque Insulation class Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 720 rpm Design : B

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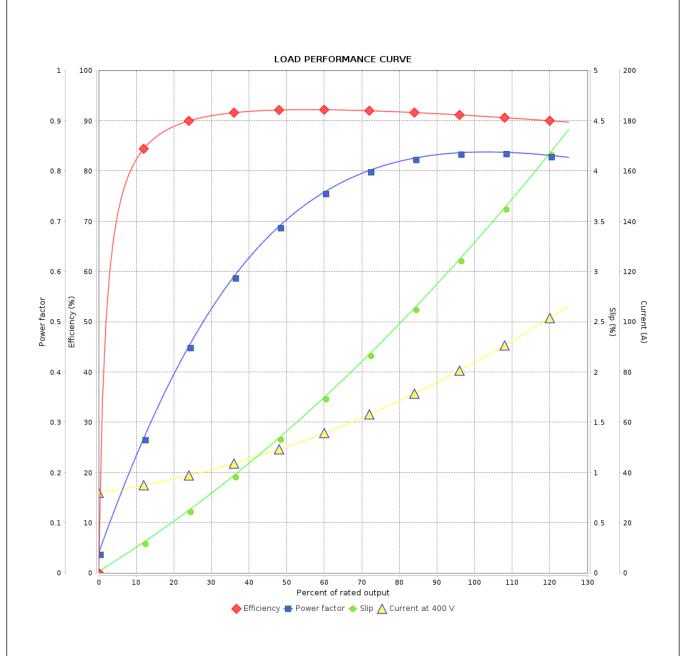


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943378



Performance	: 400 V 50 Hz 8P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 85.0 A : 5.7 : 60.1 kgfm : 170 % : 240 % : 725 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.69 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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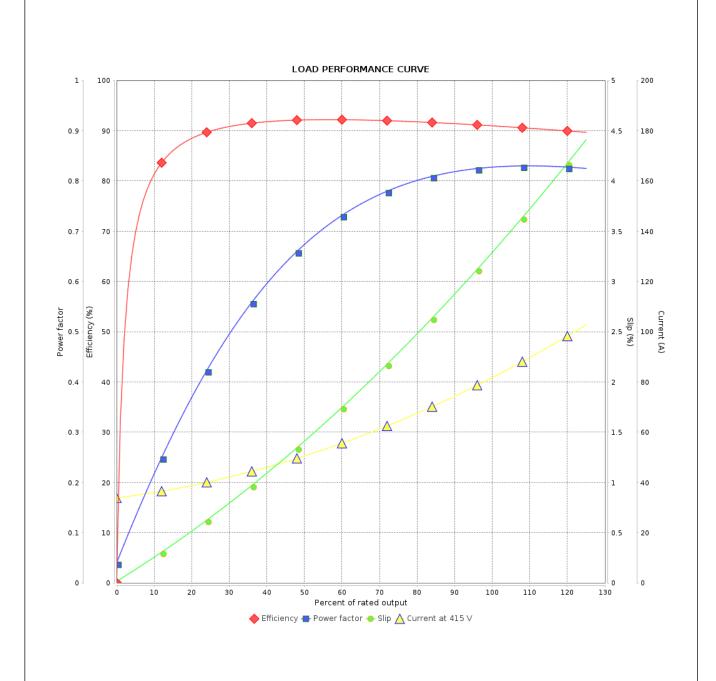


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 415 V 50 Hz 8P IE	Ξ2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 82.9 A : 6.2 : 60.1 kgfm : 190 % : 260 % : 725 rpm	Duty cyc Insulatio Service	n class	: 1.69 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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