DATA SHEET

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-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. : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 1.69 kgm² Design : B Output [HP] 60 50 50 60 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 Rated current [A] 70.9 89.2 73.0 72.9 69.2 85.0 82.9 L. R. Amperes [A] 475 475 445 505 455 485 514 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 Ġ) G) No load current [A] 30.0 32.0 33.9 29.7 29.7 32.0 33.9 Rated speed [RPM] 880 725 730 730 720 725 725 4.00 Slip [%] 2.22 3.33 2.67 2.67 3.33 3.33 Rated torque [kgfm] 49.5 50.1 49.7 49.7 60.5 60.1 60.1 Locked rotor torque [%] 180 180 210 229 150 170 190 210 Breakdown torque [%] 270 250 290 310 240 260 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 Locked rotor time 18s (cold) 23s (cold) 18s (cold) 18s (cold) 18s (cold) 18s (cold) 18s (cold) 13s (hot) 10s (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 27 g Lubricant amount 34 a Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by

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DATA SHEET

Date

22/10/2024



Three Pha	se Inductioi	n Motor - Squirrel	Cage			
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Customer Notes This revision rep	i:	the previous one, which	These ar	re average values		
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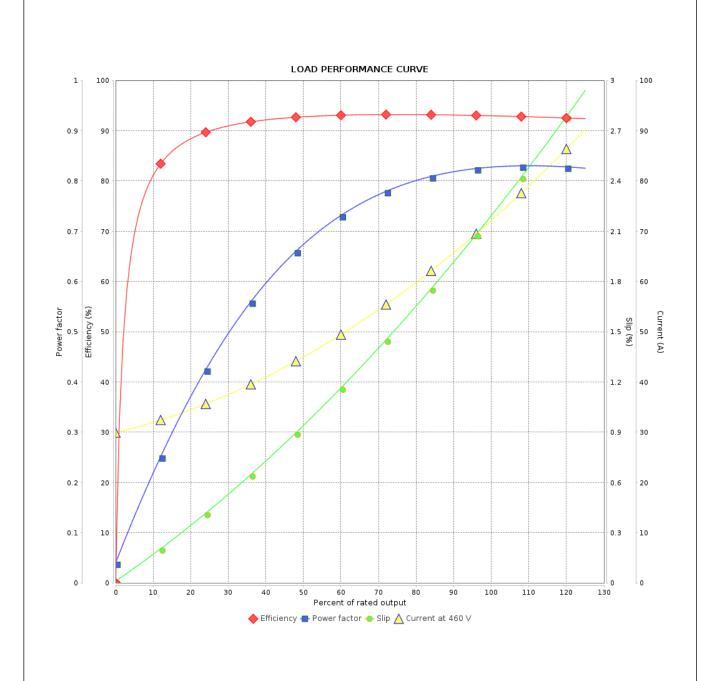


11943378

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



	<u> </u>				
Performance	: 460 V 60 Hz 8P				
Rated current	: 73.0 A	Moment of	of inertia (J)	: 1.69 kgm²	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque : 49.5 kgfm		Insulation	Insulation class		
Locked rotor torqu	torque : 180 % Service factor		ictor	: 1.25	
Breakdown torque	: 270 %	Temperati	Temperature rise		
Rated speed	: 880 rpm	Design		: B	
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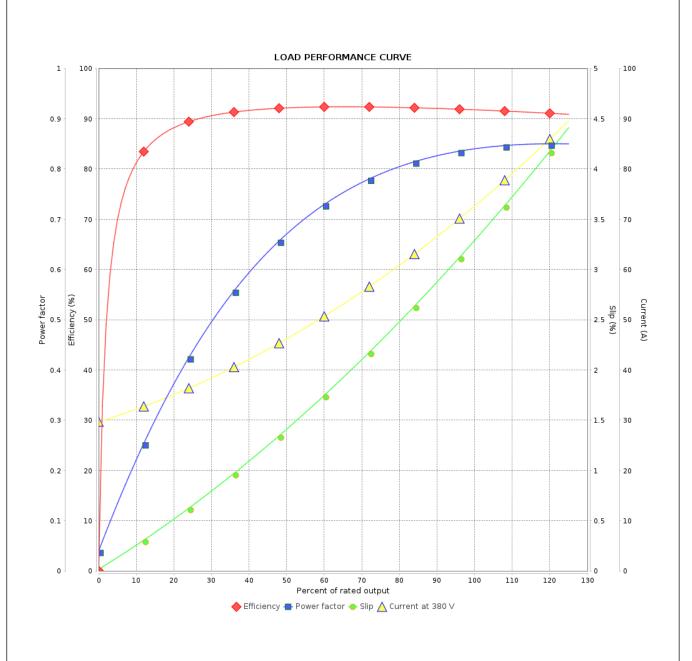


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943378



Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 72.9 A : 6.1 : 50.1 kgfm : 180 % : 250 % : 725 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



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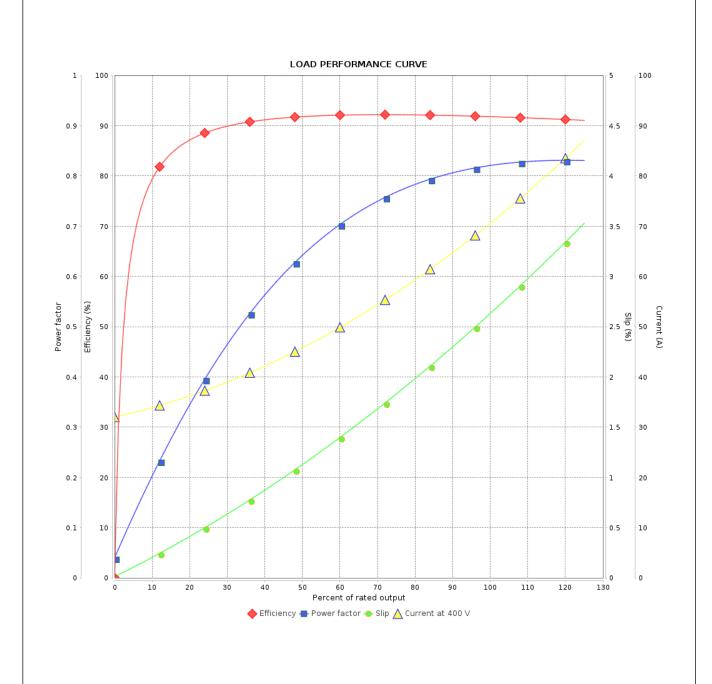
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Product line : W22 IEEE 841 NEMA Premium Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943378



Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 70.9 A : 6.7 : 49.7 kgfm : 210 % : 290 % : 730 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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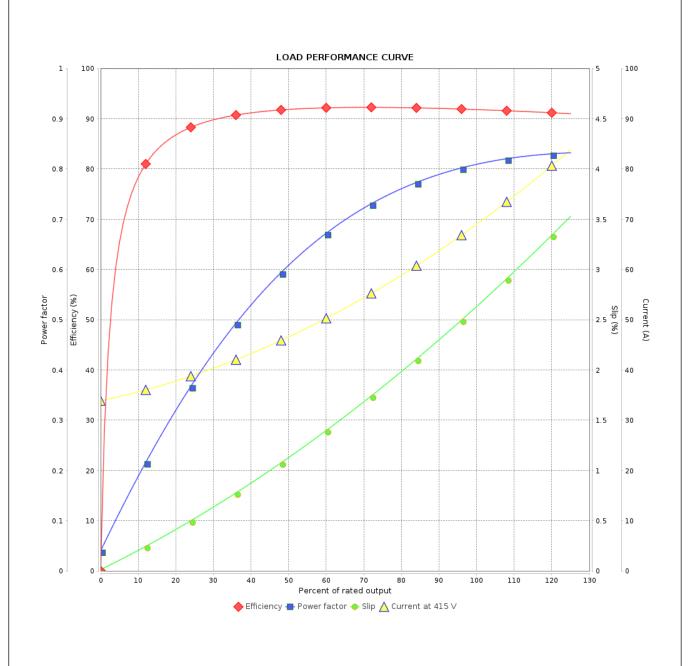


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943378



Performance	: 415 V 50 Hz 8P IE3				
Performance	. 410 V 50 HZ 6P IE3				
Rated current : 69.2 A		Moment of ir	nertia (J)	: 1.69 kgm²	
LRC	: 7.3	Duty cycle		: Cont.(S1)	
Rated torque	: 49.7 kgfm	Insulation cla	ass	: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 310 %	Temperature rise Design		: 80 K	
Rated speed	: 730 rpm			: B	
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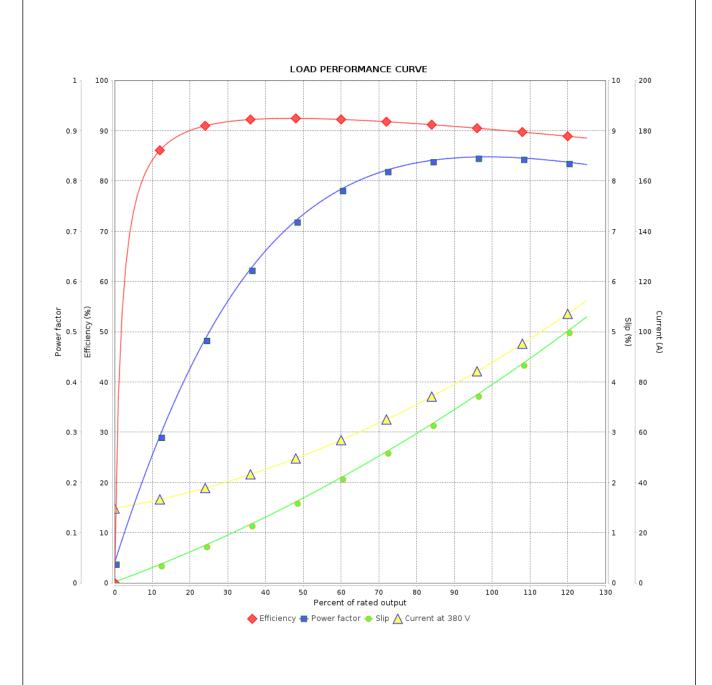
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 380 V 50 Hz 8P	IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 89.2 A : 5.1 : 60.5 kgfm : 150 % : 210 % : 720 rpm	Dut Insi Ser Ten	ment of ty cycle ulation rvice fac nperatu sign	class ctor	: 1.69 kgm ² : Cont.(S1) : F : 1.00 : 105 K : B	
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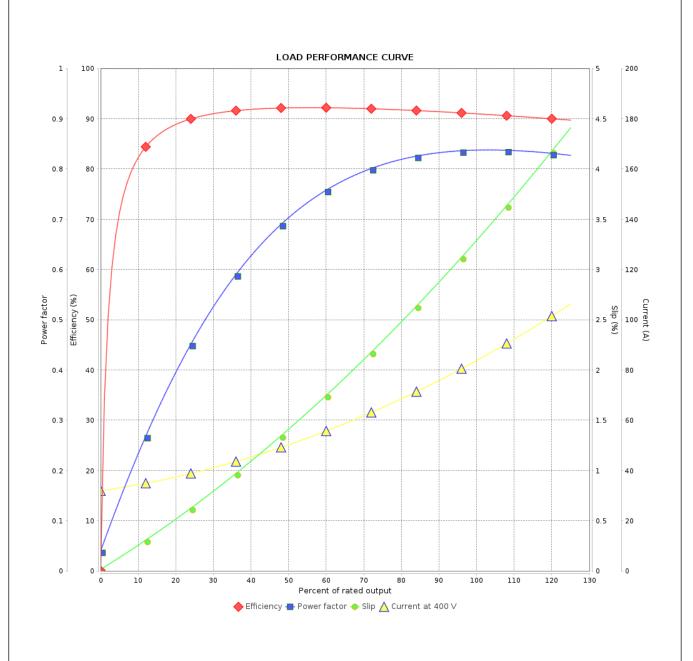


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Efficiency Three-Phase

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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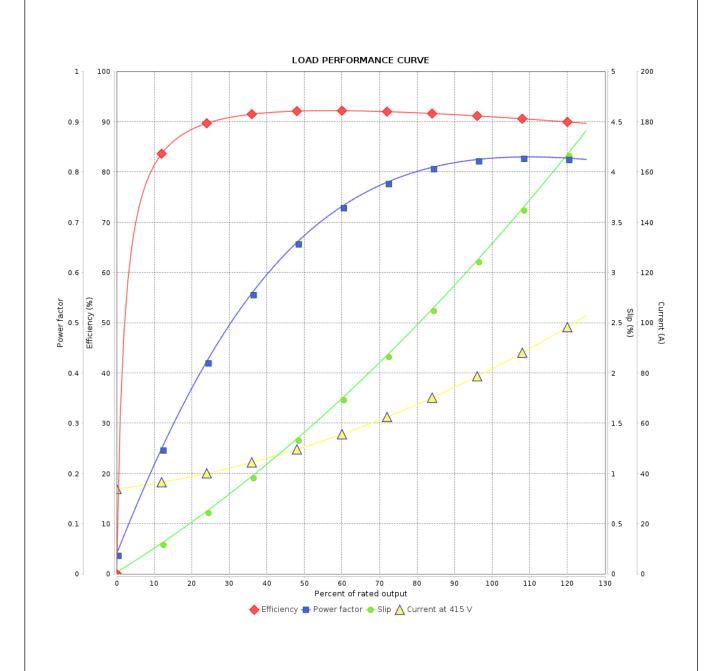


Customer :

Product line : W22 IEEE 841 NEMA Premium Product

Efficiency Three-Phase

Product code: 11943378



Performance		: 415 V 50 Hz 8P IE2				
Rated current LRC		: 82.9 A : 6.2	Moment of inertia (J) Duty cycle		: 1.69 kgm² : Cont.(S1) : F	
1		Service fa	Insulation class Service factor			
Breakdown torqu Rated speed	ie	: 260 % : 725 rpm	Temperature rise Design		: 105 K : B	
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