## DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11939477 Efficiency Three-Phase Cooling method Frame : 182/4T : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 49.9 kg Protection degree : IP55 Moment of inertia (J) : 0.0094 kgm<sup>2</sup> Design : B Output [HP] 5 4 4 4 5 5 5 Poles 2 2 2 2 2 2 2 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 7.14 Rated current [A] 5.90 5.79 5.57 5.43 6.78 6.61 42.1 44.7 L. R. Amperes [A] 44.8 42.8 45.1 48.3 47.6 LRC [A] 7.6x(Code J) 7.4x(Code H) 8.1x(Code J) 8.9x(Code K) 5.9x(Code F) 6.6x(Code 7.2x(Code H) G) No load current [A] 2.00 2.00 2.15 2.25 2.00 2.15 2.25 Rated speed [RPM] 3485 2890 2900 2910 2850 2870 2880 Slip [%] 3.19 3.67 3.33 3.00 5.00 4.33 4.00 Rated torque [kgfm] 1.04 1.00 1.00 0.998 1.27 1.26 1.26 Locked rotor torque [%] 229 229 270 300 180 210 240 Breakdown torque [%] 350 320 370 400 250 290 320 1.25 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 32s (cold) Locked rotor time 45s (cold) 32s (cold) 32s (cold) 32s (cold) 32s (cold) 32s (cold) 25s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) Noise level<sup>2</sup> 66.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 86.3 50% 86.5 86.3 86.1 87.5 87.5 87.5 Efficiency (%) 75% 88.5 87.7 88.2 88.2 87.5 88.5 88.5 100% 88.5 87.5 88.3 88.3 86.5 87.5 87.5 25% 50% 0.76 0.74 0.71 0.68 0.81 0.78 0.76 Power Factor 75% 0.85 0.85 0.83 0.81 0.88 0.87 0.85 100% 0.89 0.90 0.88 0.87 0.91 0.90 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 12.4 12.4 12.4 12.4 12.4 12.4 12.4 P2 (0,5;1,0) 9.9 9.9 9.9 9.9 9.9 9.9 9.9 P3 (0,25;1,0) 8.9 8.9 8.9 8.9 8.9 8.9 8.9 P4 (0,9;0,5) 6.2 6.2 6.2 6.2 6.2 6.2 6.2 Losses (%) P5 (0,5;0,5) 3.7 3.7 3.7 3.7 3.7 3.7 3.7 P6 (0,5;0,25) 2.3 2.3 2.3 2.3 2.3 2.3 2.3 P7 1.4 1.4 1.4 1.4 1.4 1.4 1.4 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6207 C3 6206 C3 : 59 kgf Max. traction Taconite **Taconite** Sealing : 109 kgf Max. compression Labyrinth Labyrinth 20000 h Lubrication interval 20000 h Lubricant amount 7 g 5 g Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by Checked by Page Revision

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22/10/2024

# DATA SHEET

Date

22/10/2024



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## Three Phase Induction Motor - Squirrel Cage

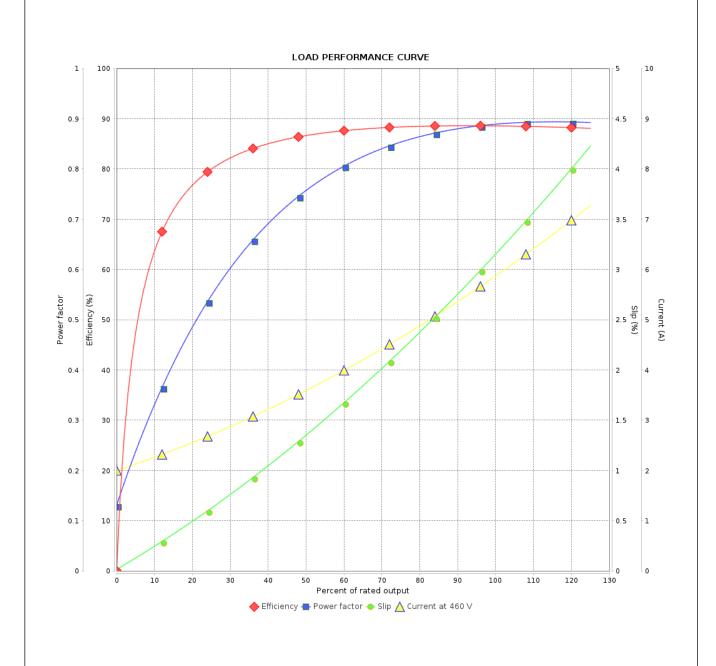


Customer :

Product line : W22 IEEE 841 NEMA Premium Produ

Efficiency Three-Phase

Product code: 11939477



Performance		: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	•	: 5.90 A : 7.6 : 1.04 kgfm : 229 % : 350 % : 3485 rpm	Moment of Duty cycle Insulation Service for Temperate Design	ı class actor	: 0.0094 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
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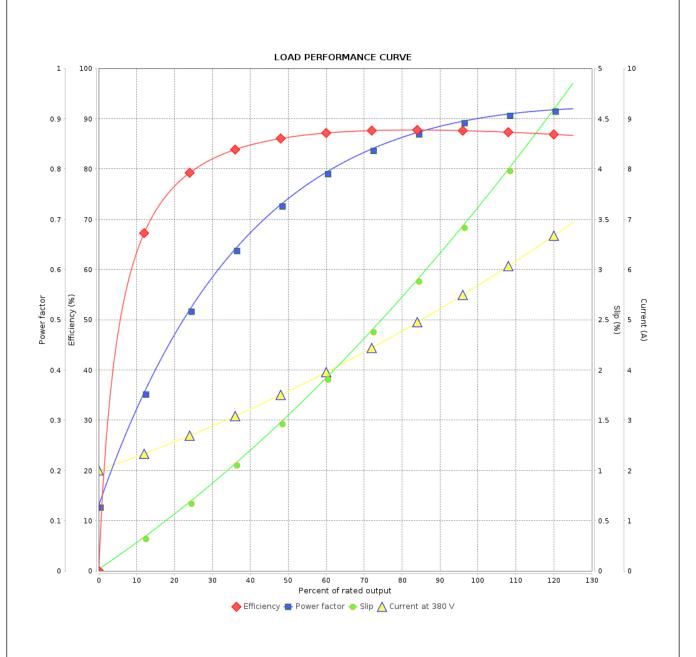


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11939477



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 5	: 5.79 A		of inertia (J)	: 0.0094 kgm²	
LRC	: 7	.4	Duty cycle	, ,	: Cont.(S1)	
Rated torque	: 1	.00 kgfm	Insulation	class	: F	
Locked rotor tord	que : 2	29 %	Service fa	actor	: 1.25	
Breakdown torque		20 %	Temperat	Temperature rise		
Rated speed	: 2	890 rpm	Design		: B	
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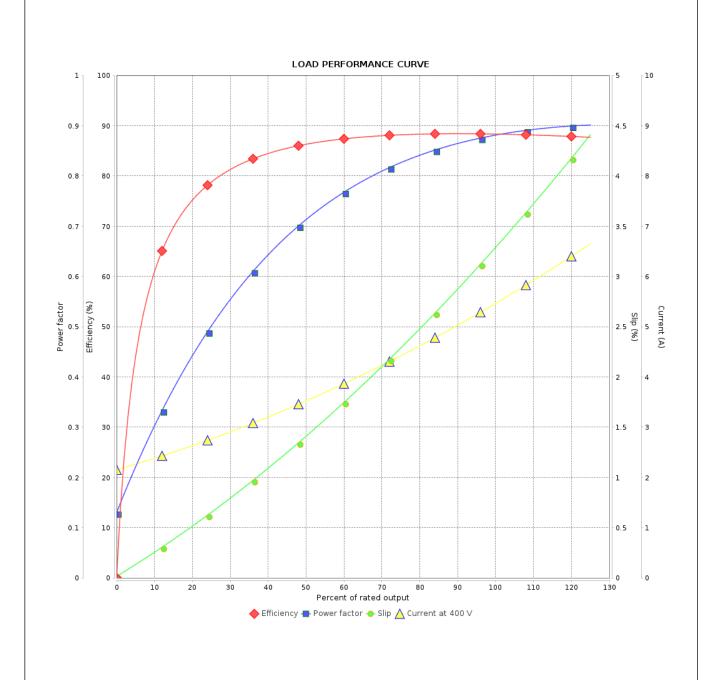


11939477

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400	V 50 Hz 2P IE3				
Rated current LRC Rated torque	: 5.57 : 8.1 : 1.00		Moment of Duty cycle Insulation		: 0.0094 kgm : Cont.(S1) : F	2
Locked rotor tord Breakdown torqu Rated speed	jue : 270	% %	Service factor Temperature rise Design		: 1.25 : 80 K : B	
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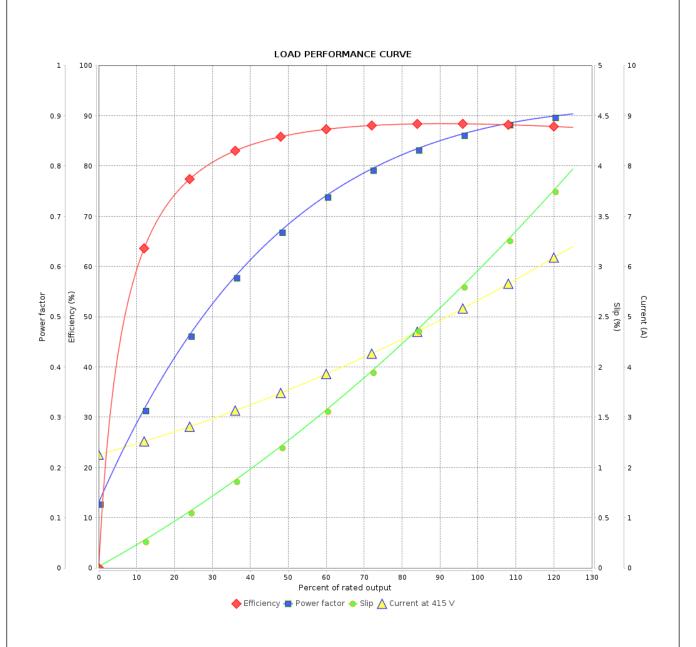


Customer :

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Efficiency Three-Phase

Product code: 11939477



Performance	: 415 V 50 Hz 2P IE3	: 415 V 50 Hz 2P IE3							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.43 A : 8.9 : 0.998 kgfm : 300 % : 400 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0094 kgm² : Cont.(S1) : F : 1.25 : 80 K : B					
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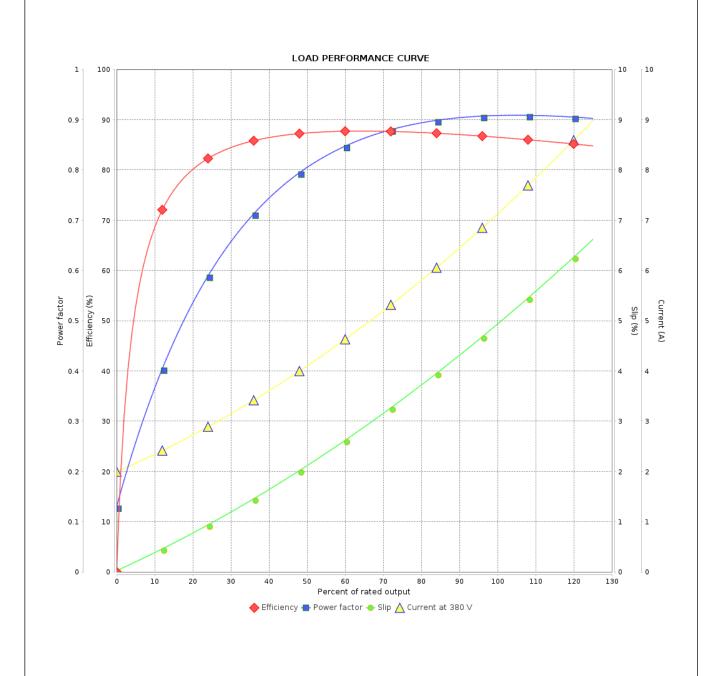


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11939477



Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 7.14 A	Moment of inertia (J)		: 0.0094 kgm²	
LRC	: 5.9	Duty cycle		: Cont.(S1)	
Rated torque	: 1.27 kgfm	Insulation class		: F	
Locked rotor torque	: 180 %	Service factor Temperature rise		: 1.25 : 80 K	
Breakdown torque	: 250 %				
Rated speed	: 2850 rpm	Design		: B	
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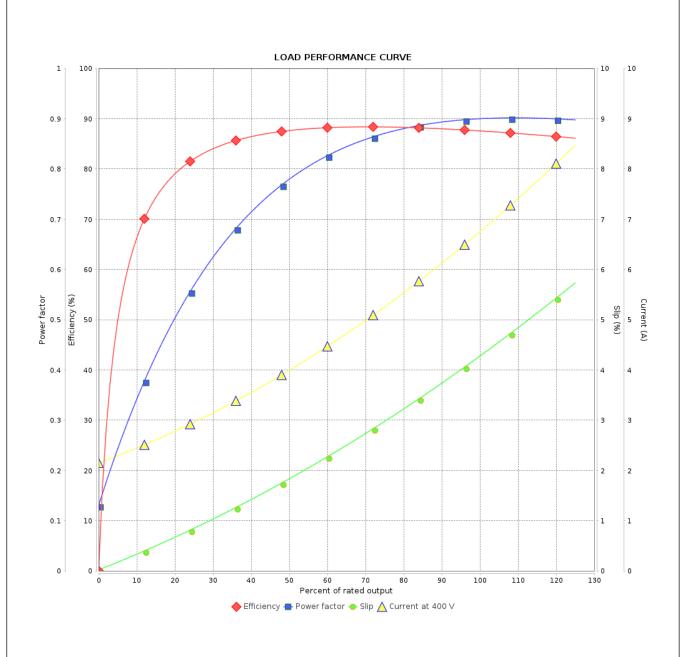


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11939477



Performance	: 400 V 50 Hz 2P IE2	: 400 V 50 Hz 2P IE2							
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		2				
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## Three Phase Induction Motor - Squirrel Cage

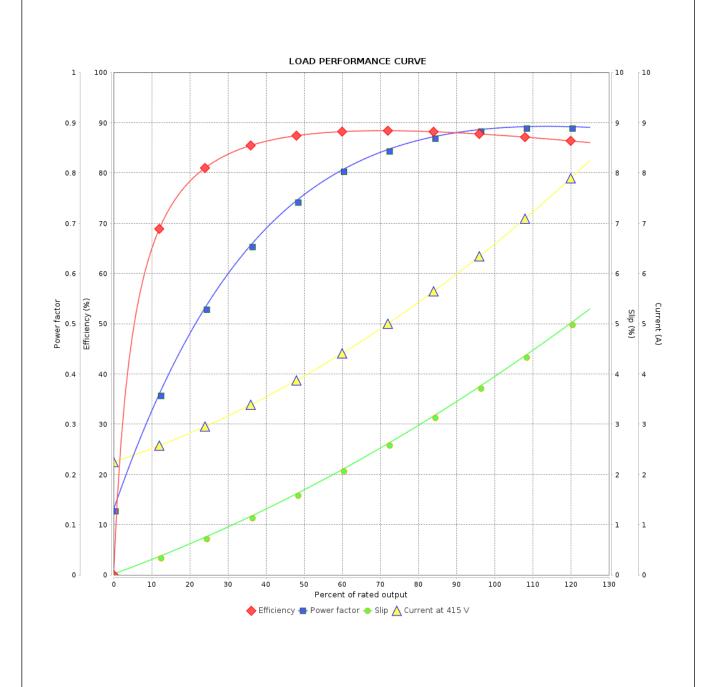


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code:

11939477



Performance	: 4	15 V 50 Hz 2P IE2				
Rated current	: 6	.61 A	Moment of	of inertia (J)	: 0.0094 kgm <sup>2</sup>	2
LRC	: 7	.2	Duty cycle	e ` ´	: Cont.(S1)	
Rated torque	:1	.26 kgfm	Insulation	class	: F ` ´	
Locked rotor tord	que : 2	40 %	Service fa	ictor	: 1.25	
Breakdown torqu		20 %	Temperat	Temperature rise		
Rated speed	: 2	880 rpm	Design		: B	
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