### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11431991 Efficiency Three-Phase Cooling method Frame : 213/5TC : 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> : 87.4 kg Altitude : 1000 m.a.s.l. Protection degree : IP56 Moment of inertia (J) : 0.0636 kgm<sup>2</sup> Design : B Output [HP] 10 7.5 10 7.5 7.5 10 10 Poles 4 4 4 4 4 4 4 60 50 50 50 50 Frequency [Hz] 50 50 Rated voltage [V] 380 460 380 400 415 400 415 Rated current [A] 15.0 12.4 11.2 11.0 10.9 14.2 13.8 L. R. Amperes [A] 76.5 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) Locked rotor time 30s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 17s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) Noise level<sup>2</sup> 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 : 204 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 292 kgf 20000 h Lubrication interval 20000 h 7 g Lubricant amount 11 q Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 29/10/2024 1/9 Date

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### Three Phase Induction Motor - Squirrel Cage



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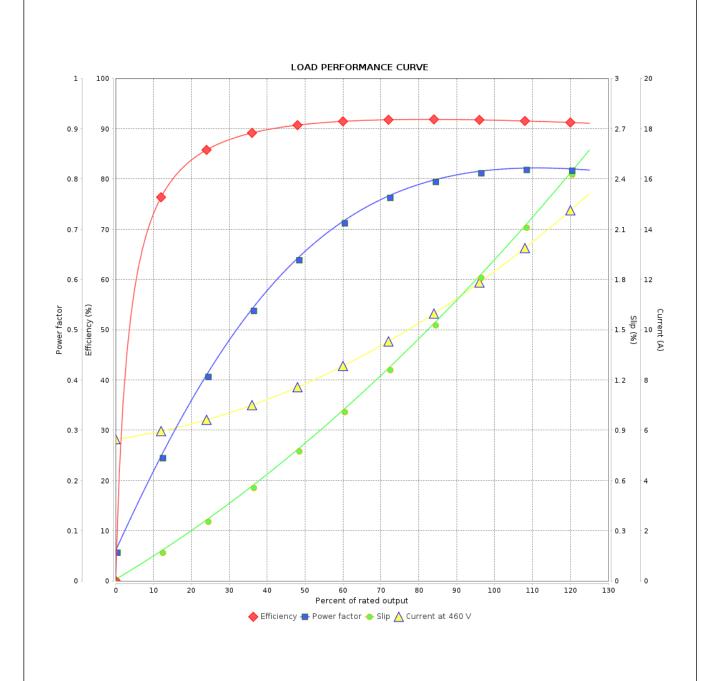
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Date

29/10/2024

Product line : W22 IEEE 841 NEMA Premium Product code : 11431991

Efficiency Three-Phase



Performance		: 460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 12.4 A : 6.4 : 4.11 kgfm : 200 % : 295 % : 1765 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0636 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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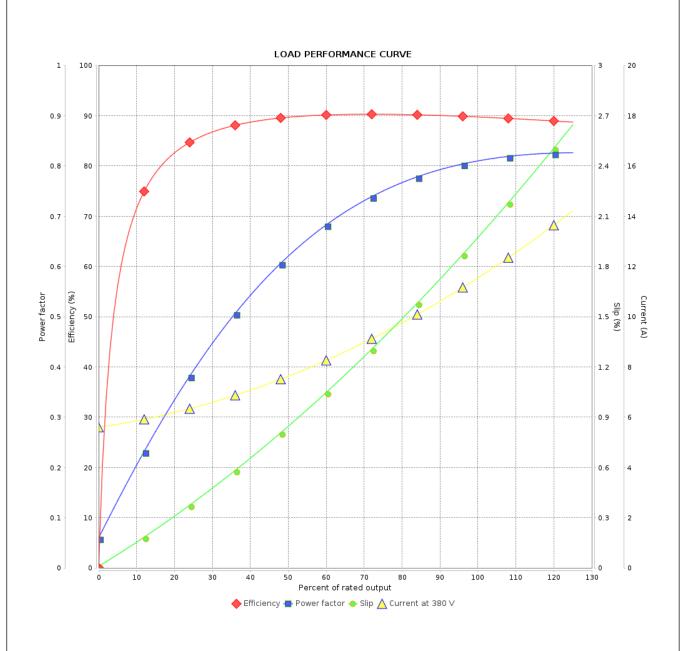
Date

29/10/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431991



Performance : 380 V 50 Hz 4P IE3 : 11.2 A : 0.0636 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 6.7 Duty cycle : Cont.(S1) : 3.70 kgfm Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 4/9

## Three Phase Induction Motor - Squirrel Cage

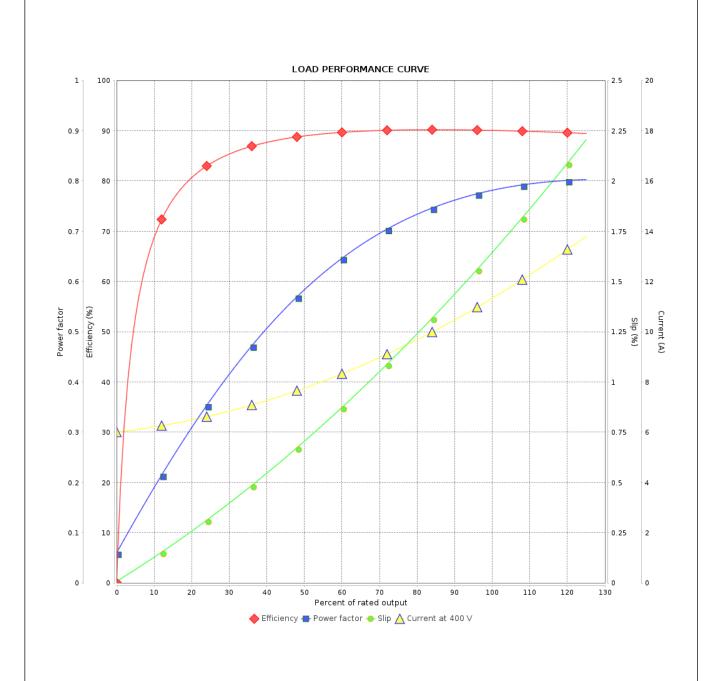


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 4P 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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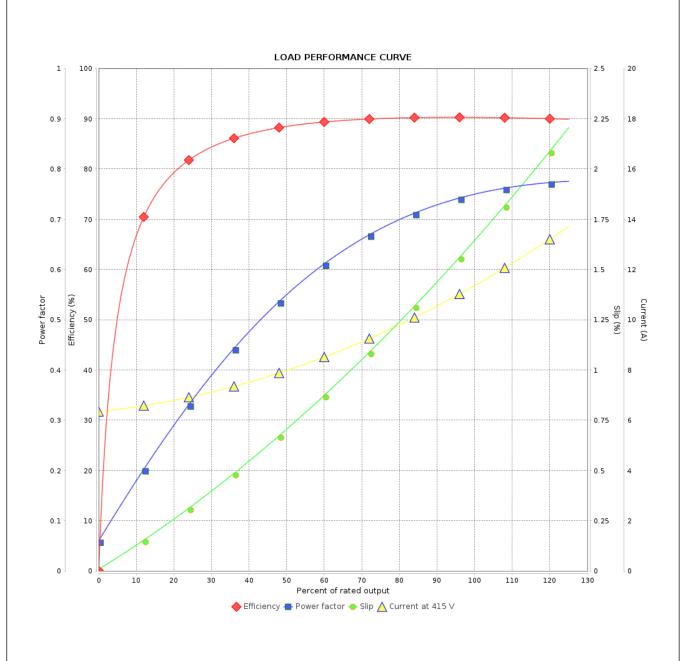


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431991



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 10	0.9 A	Moment of	Moment of inertia (J)		2
LRC	: 7.	5	Duty cycle	9	: Cont.(S1)	
Rated torque	: 3.	69 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 20	60 %	Service fa	Service factor		
Breakdown torque	: 30	: 360 % Temp	Temperat	ure rise	: 80 K	
Rated speed	: 14	: 1470 rpm Design			: B	
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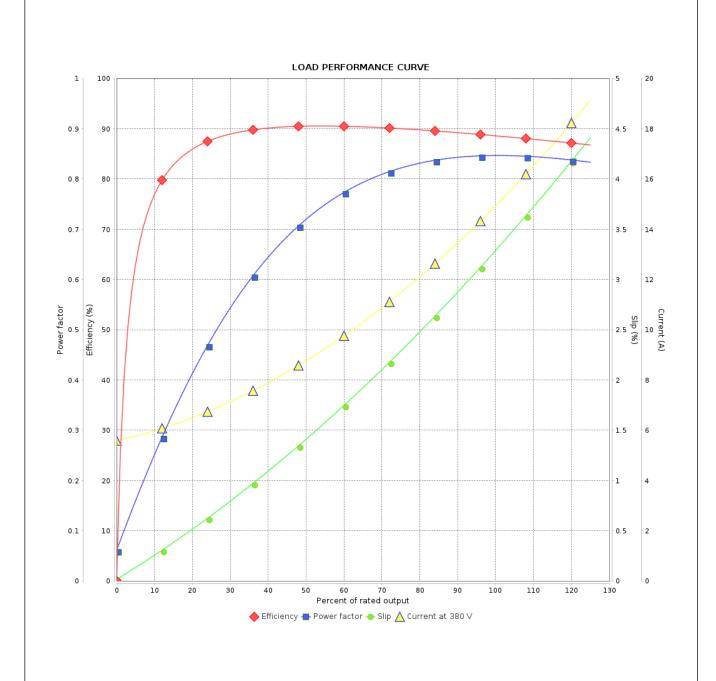
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Date

29/10/2024

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 380 V 50 Hz 4P IE1				
Rated current	: 15.0 A	Moment of inertia (J)		: 0.0636 kgm²	
LRC	: 5.1	Duty cycle		: Cont.(S1)	
Rated torque	: 5.01 kgfm	Insulation class		: F	
Locked rotor torque	: 150 %	Service factor		: 1.15	
Breakdown torque	: 220 %	Temperature rise		: 80 K	
Rated speed	: 1450 rpm	Design		: B	
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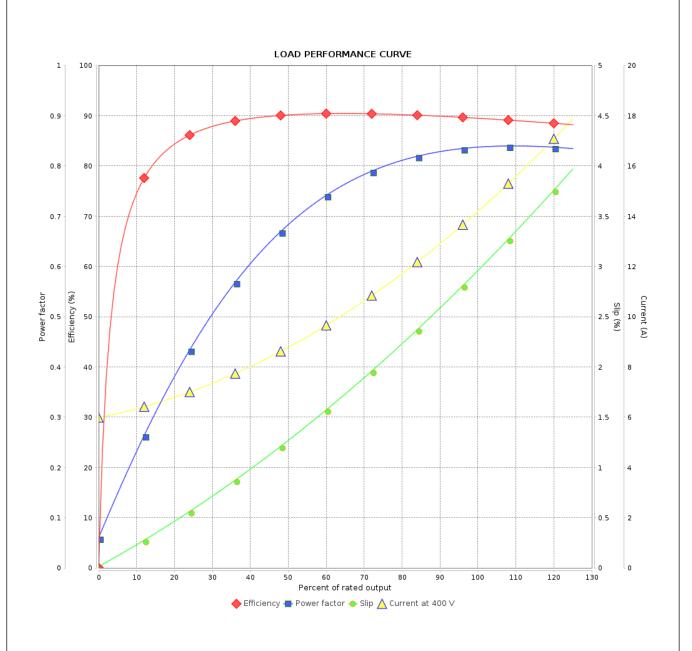
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431991



Performance : 400 V 50 Hz 4P IE2 : 14.2 A : 0.0636 kgm<sup>2</sup> 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

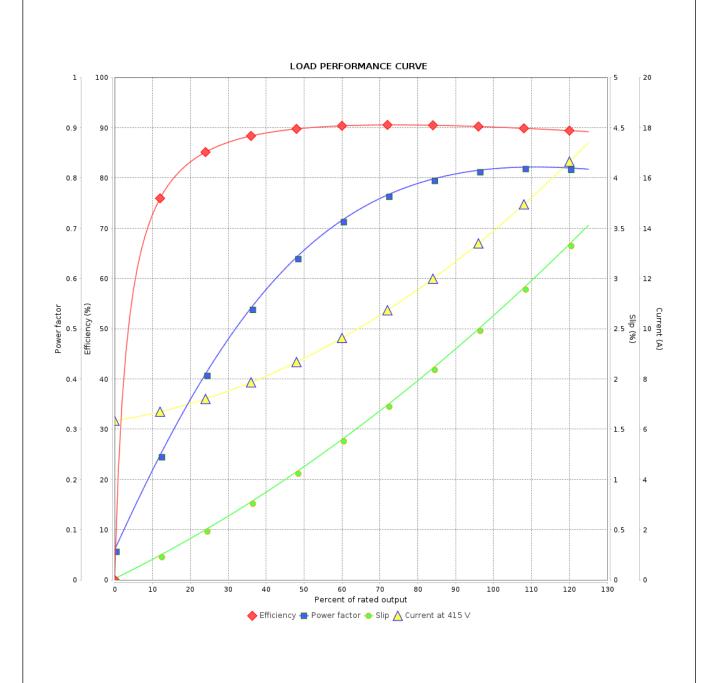


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		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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