DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11431348 Efficiency Three-Phase : 213/5T 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. : 75.6 kg Protection degree : IP56 Moment of inertia (J) : 0.0268 kgm² Design : B Output [HP] 10 7.5 10 7.5 7.5 10 10 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 460 380 400 415 400 415 Rated current [A] 14.3 11.7 10.6 10.4 10.0 13.7 13.4 L. R. Amperes [A] 84.5 83.8 90.8 91.2 80.1 87.9 92.5 LRC [A] 7.2x(Code H) 7.9x(Code J) 8.7x(Code K) 9.1x(Code K) 5.6x(Code F) 6.4x(Code 6.9x(Code H) G) No load current [A] 3.60 3.50 3.70 3.90 3.50 3.70 3.90 Rated speed [RPM] 3520 2930 2940 2945 2885 2900 2910 Slip [%] 2.22 2.33 2.00 1.83 3.83 3.33 3.00 Rated torque [kgfm] 2.06 1.86 1.85 1.85 2.52 2.50 2.49 Locked rotor torque [%] 220 220 240 260 170 190 200 Breakdown torque [%] 290 300 340 360 220 250 270 1.00 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 21s (cold) Locked rotor time 32s (cold) 32s (cold) 32s (cold) 32s (cold) 21s (cold) 21s (cold) 12s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 12s (hot) 12s (hot) Noise level² 68.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 89.5 88.6 88.4 87.7 89.5 89.5 89.5 Efficiency (%) 75% 90.2 89.6 89.6 89.5 89.5 89.5 89.5 100% 90.2 89.5 89.5 89.8 88.5 88.5 88.5 25% 50% 0.79 0.75 0.72 0.70 0.83 0.81 0.79 Power Factor 75% 0.86 0.85 0.83 0.81 0.89 0.87 0.86 100% 0.89 0.88 0.85 0.85 0.90 0.89 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.5 11.4 11.0 12.6 12.6 11.4 12.6 P2 (0,5;1,0) 8.5 9.2 9.2 8.9 10.1 10.1 10.1 P3 (0,25;1,0) 7.4 8.0 8.0 7.8 8.9 8.9 8.9 P4 (0,9;0,5) 5.1 5.6 5.6 5.4 6.2 6.2 6.2 Losses (%) P5 (0,5;0,5) 3.2 3.4 3.4 3.3 3.8 3.8 3.8 P6 (0,5;0,25) 2.0 2.2 2.2 2.1 2.4 2.4 2.4 P7 1.3 1.2 1.3 1.3 1.5 1.5 1.5 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6308 C3 6207 C3 : 86 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 162 kgf 20000 h Lubrication interval 20000 h Lubricant amount 11 q 7 g 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 28/10/2024 1/9 Date

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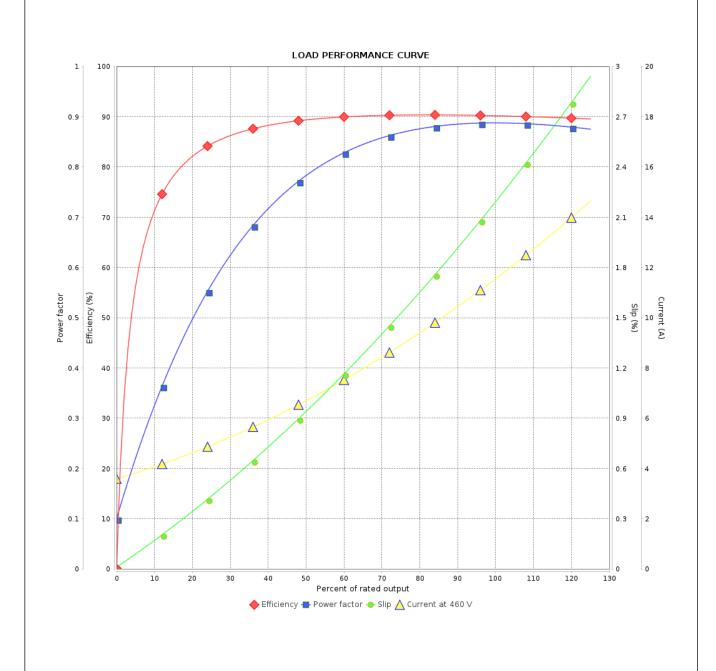


Customer :

Product line : W22 IEEE 841 NEMA Premium F

Efficiency Three-Phase

Product code: 11431348



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.7 A : 7.2 : 2.06 kgfm : 220 % : 290 % : 3520 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0268 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

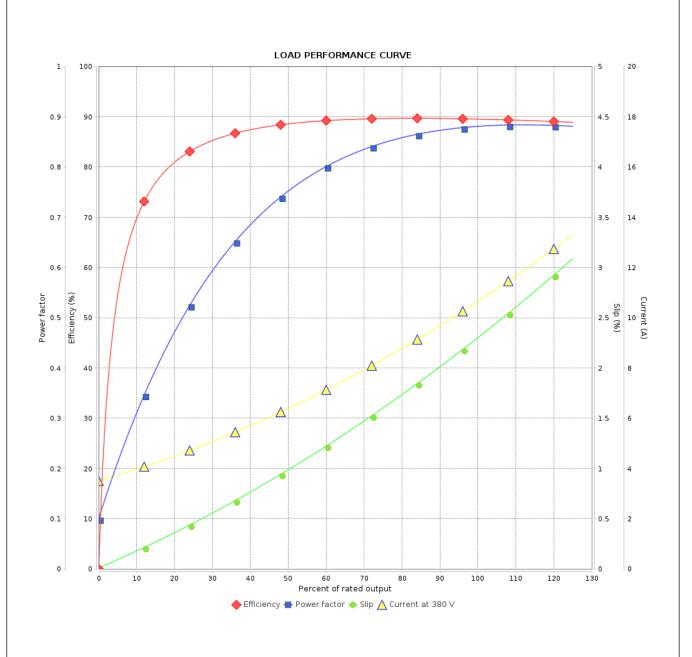


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431348



Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.6 A : 7.9 : 1.86 kgfm : 220 % : 300 % : 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0268 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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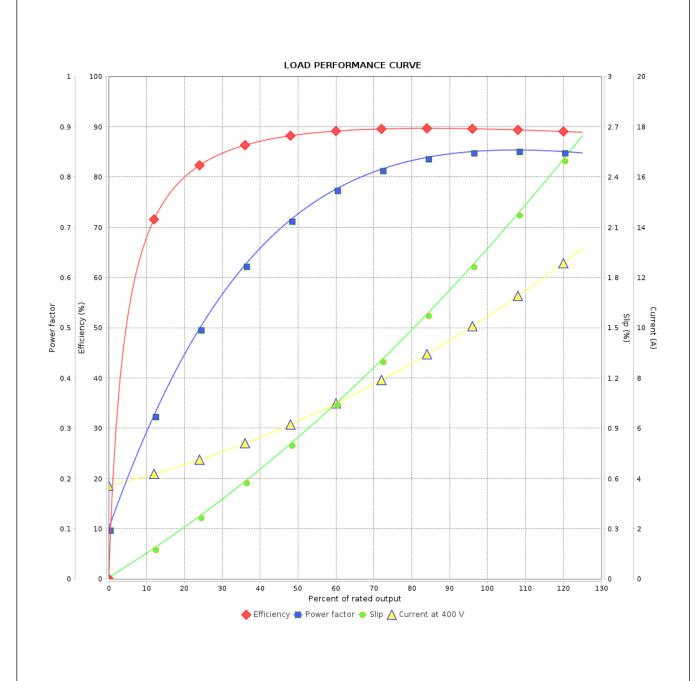
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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 8.7 : 1.85 kgfm : 240 % : 340 % : 2940 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0268 kgm ² : Cont.(S1) : F : 1.25 : 80 K : B	
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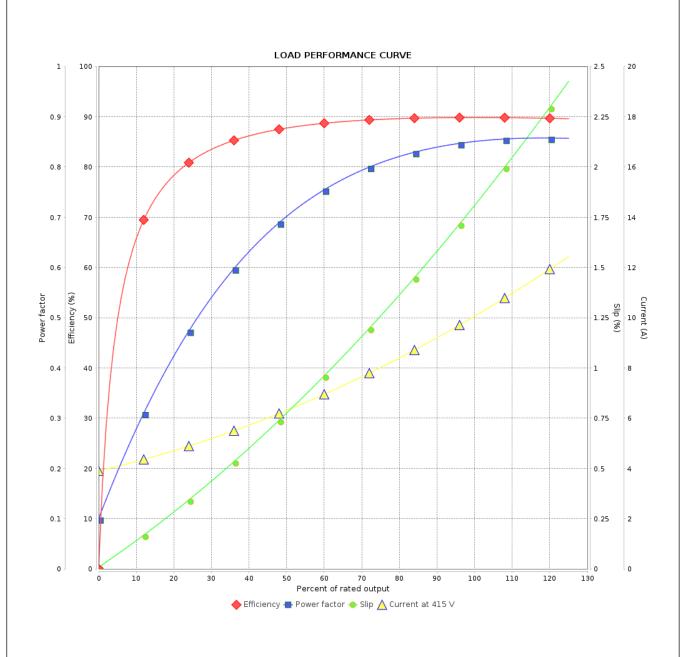


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431348



Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.0 A : 9.1 : 1.85 kgfm : 260 % : 360 % : 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0268 kgm ² : Cont.(S1) : F : 1.25 : 80 K : B	2
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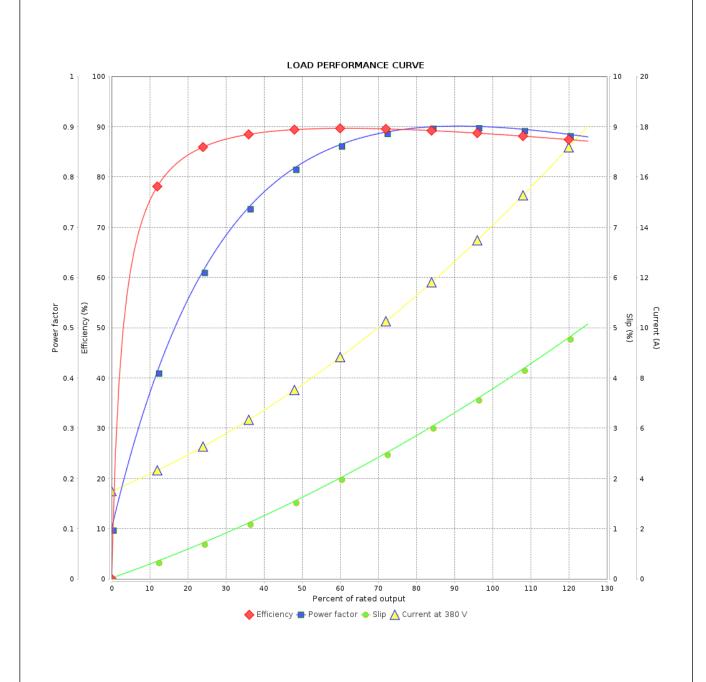
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11431348

Efficiency Three-Phase



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 14.3 A : 5.6 : 2.52 kgfm = : 170 % : 220 %	Duty cycle Insulation	Moment of inertia (J) Duty cycle Insulation class Service factor		2
Rated speed	: 2885 rpm	Design			
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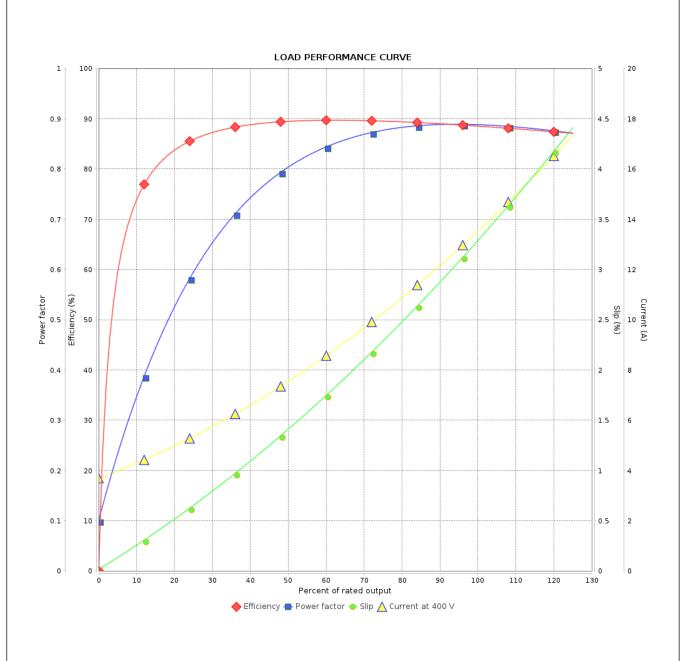


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431348



Performance	: 4	00 V 50 Hz 2P IE2				
Rated current	ed current : 13.7 A		Moment of	of inertia (J)	: 0.0268 kgm²	
LRC	: 6	.4	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 2	.50 kgfm	Insulation	class	: F	
Locked rotor torqu	e :1	90 %	Service factor		: 1.00	
Breakdown torque		50 %	Temperat	Temperature rise		
Rated speed	: 2	2900 rpm Design		: B		
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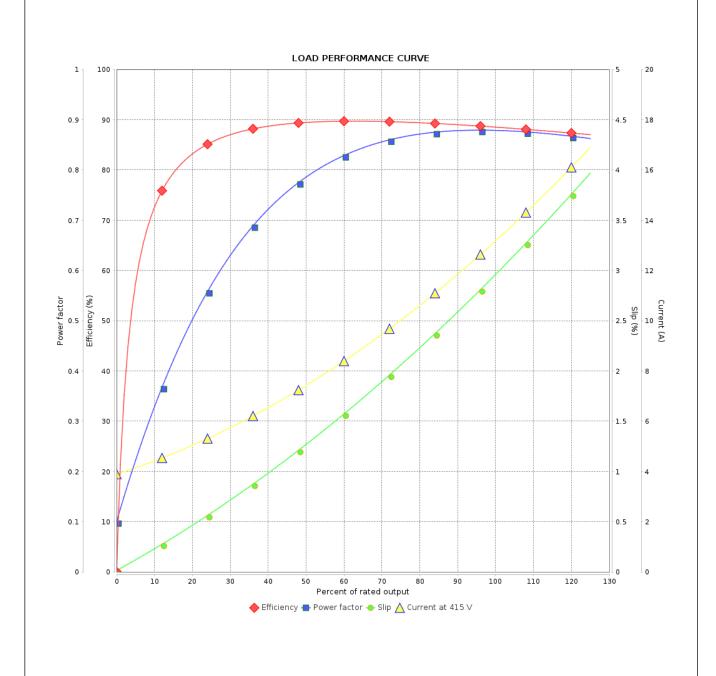


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431348



Performance	rmance : 415 V 50 Hz 2P IE2					
Rated current	Rated current : 13.4 A		Moment o	f inertia (J)	: 0.0268 kgm²	!
LRC	: 6	.9	Duty cycle	·	: Cont.(S1)	
Rated torque	: 2	49 kgfm	Insulation	class	: F ` ´	
Locked rotor torqu	ie : 20	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	70 % Temperature rise		: 105 K		
Rated speed		910 rpm	Design		: B	
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