DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11432497 Efficiency Three-Phase : 143/5T 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 : 26.7 kg Altitude : 1000 m.a.s.l. Protection degree : IP56 Moment of inertia (J) : 0.0067 kgm² Design : B Output [HP] 0.75 0.75 1 0.75 1 1 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 1.73 1.60 1.62 1.66 1.96 1.94 1.95 L. R. Amperes [A] 9.41 10.7 9.28 9.88 10.5 10.1 10.7 LRC [A] 6.2x(Code K) 5.8x(Code K) 6.1x(Code L) 6.3x(Code 4.8x(Code | 5.2x(Code H) | 5.5x(Code J) M) G) No load current [A] 1.10 1.05 1.15 1.25 1.05 1.15 1.25 Rated speed [RPM] 1160 960 970 970 940 950 950 Slip [%] 3.33 4.00 3.00 3.00 6.00 5.00 5.00 Rated torque [kgfm] 0.626 0.567 0.561 0.561 0.772 0.764 0.764 Locked rotor torque [%] 260 280 300 320 200 229 250 220 Breakdown torque [%] 300 310 330 340 260 280 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 36s (cold) 36s (cold) Locked rotor time 50s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 28s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level² 50.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 25% 50% 77.0 74.8 73.2 70.7 77.0 75.5 74.0 Efficiency (%) 75% 82.0 78.4 77.5 75.8 80.0 80.0 78.5 100% 82.5 79.3 78.9 77.9 78.5 78.5 78.5 25% 50% 0.45 0.44 0.41 0.38 0.53 0.49 0.46 Power Factor 75% 0.57 0.57 0.53 0.50 0.66 0.62 0.59 100% 0.66 0.66 0.62 0.59 0.74 0.71 0.68 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 20.0 20.0 20.0 20.0 20.0 20.0 20.0 P2 (0,5;1,0) 16.7 16.7 16.7 16.7 16.7 16.7 16.7 P3 (0,25;1,0) 16.9 16.9 16.9 16.9 16.9 16.9 16.9 P4 (0,9;0,5) 12.6 12.6 12.6 12.6 12.6 12.6 12.6 Losses (%) P5 (0,5;0,5) 9.2 9.2 9.2 9.2 9.2 9.2 9.2 P6 (0,5;0,25) 7.6 7.6 7.6 7.6 7.6 7.6 7.6 P7 5.8 5.8 5.8 5.8 5.8 5.8 5.8 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6205 C3 6204 C3 : 47 kgf Max. traction Sealing Inpro/Seal Inpro/Seal : 74 kgf Max. compression Lubrication interval 20000 h 20000 h 4 g Lubricant amount 4 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 22/10/2024 1/9 Date

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Three Phase Induction Motor - Squirrel Cage

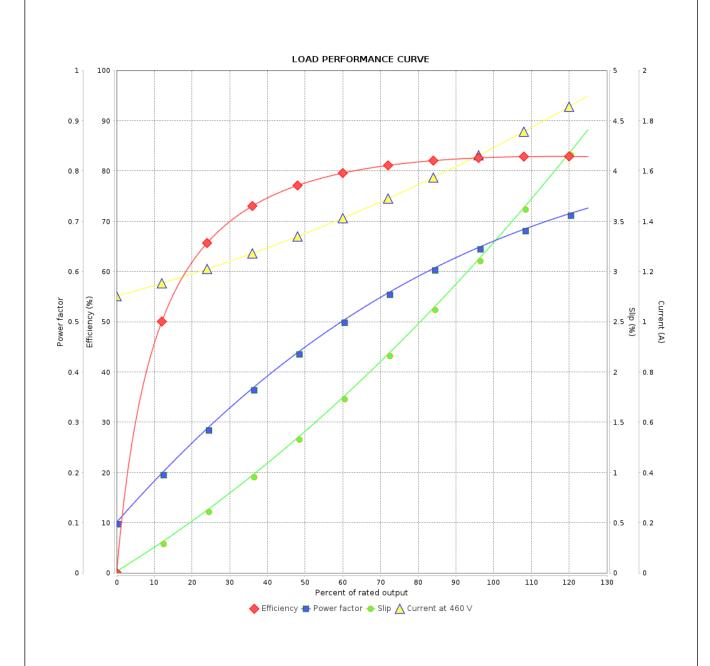


11432497

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance : 460 V 60 Hz 6P : 1.73 A Rated current Moment of inertia (J) : 0.0067 kgm² **LRC** : 6.2 Duty cycle : Cont.(S1) : 0.626 kgfm Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1160 rpm Design : B

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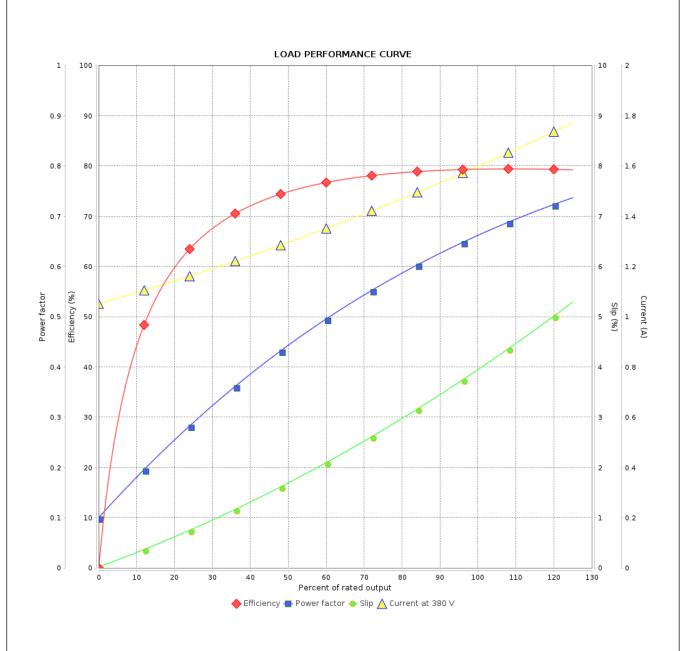


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11432497



Performance	: 380 V 50 Hz 6P IE3		*	
Performance	. 300 V 50 HZ 6P IE3			
Rated current	: 1.60 A	Moment of inertia (J)	: 0.0067 kgm²	2
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque			: F	
Locked rotor torque			: 1.00	
Breakdown torque	: 310 %	Temperature rise	: 80 K	
Rated speed	: 960 rpm	· · · · · · · · · · · · · · · · · · ·		
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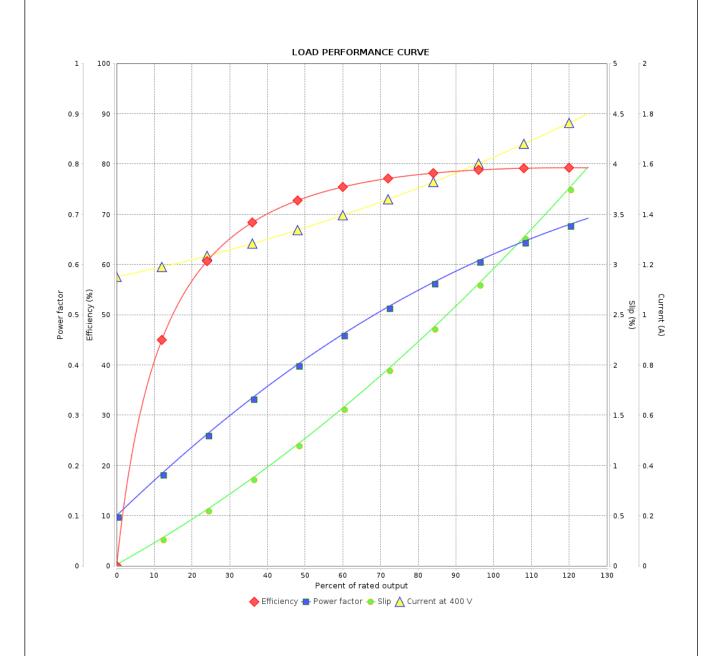


Customer :

Product line : W22 IEEE 841 NEMA Premium Product

Efficiency Three-Phase

Product code: 11432497



-	400 1/ 50 11 00 150				
Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 1.62 A	Moment of	of inertia (J)	: 0.0067 kgm²	
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque	: 0.561 kgfm	Insulation class		: F	
Locked rotor torque	: 300 %	Service factor		: 1.00	
Breakdown torque	: 330 %	Temperat	ure rise	: 80 K	
Rated speed	: 970 rpm	Design		: B	
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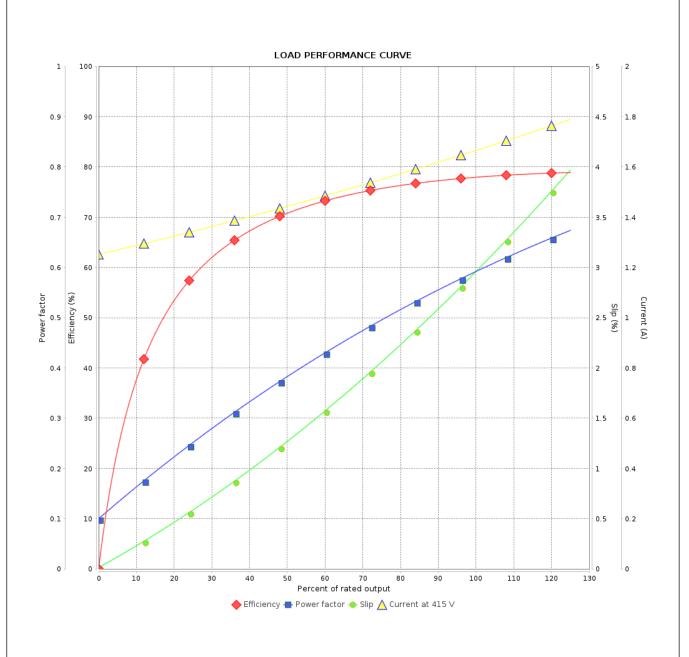


Customer :

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Efficiency Three-Phase

Product code: 11432497



Performance	: 415 V 50 Hz 6P IE3				
1 ellollilance	.413 V 30 112 01 1123				
Rated current	: 1.66 A	Moment of in	iertia (J)	: 0.0067 kgm²	2
LRC	: 6.3	Duty cycle		: Cont.(S1)	
Rated torque : 0.561 kgfm Insulation class		iss	: F ` ´		
Locked rotor torque	: 320 %	% Service factor % Temperature rise		: 1.00 : 80 K	
Breakdown torque	: 340 %				
Rated speed	: 970 rpm			: B	
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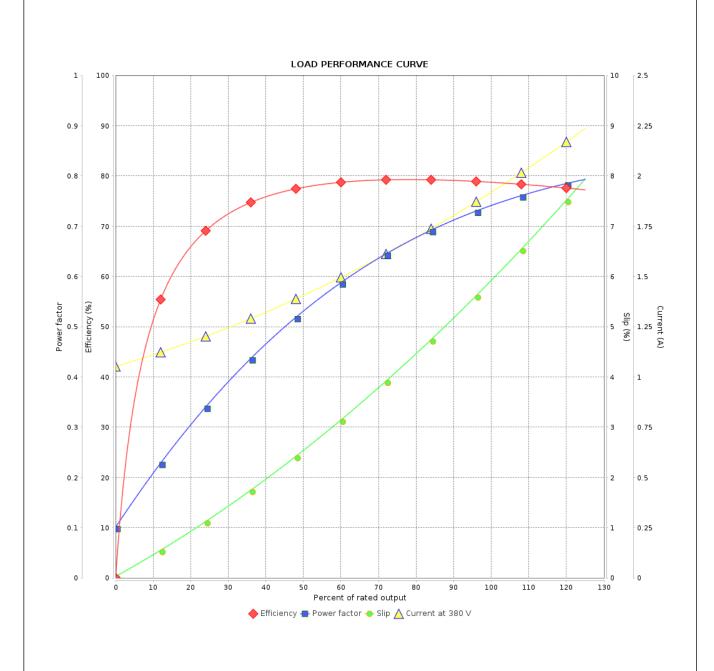


11432497

Customer

Product line : W22 IEEE 841 NEMA Premium Product code:

Efficiency Three-Phase



Performance	: 380 V 50 Hz 6P IE2				
Rated current	: 1.96 A	Moment of	f inertia (J)	: 0.0067 kgm²	
LRC	: 4.8	Duty cycle		: Cont.(S1)	
Rated torque	: 0.772 kgfm	Insulation class		: F	
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque	·		Temperature rise		
Rated speed : 940 rpm		Design		: B	
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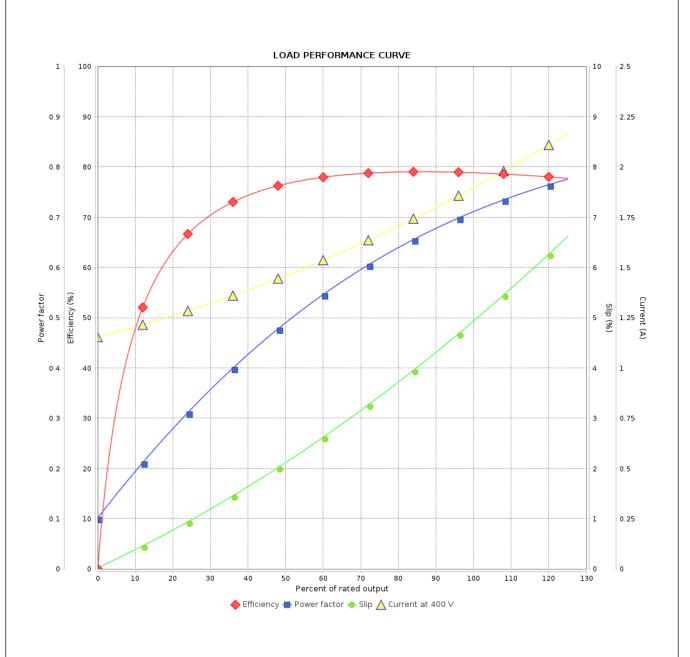


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Efficiency Three-Phase

Product code: 11432497



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: 40) V 50 Hz 6P IE2				
: 5.2 : 0.7 que : 22 le : 26	2 764 kgfm 9 % 0 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		2
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	: 1.9 : 5.2 : 0.7 que : 22 le : 26 : 95	: 1.94 A : 5.2 : 0.764 kgfm : 229 % ie : 260 % : 950 rpm	: 5.2 Duty cycle : 0.764 kgfm Insulation Service fa Temperatu : 950 rpm Design	: 1.94 A : 5.2 : 0.764 kgfm : 229 % Insulation class Service factor Temperature rise : 950 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.94 A

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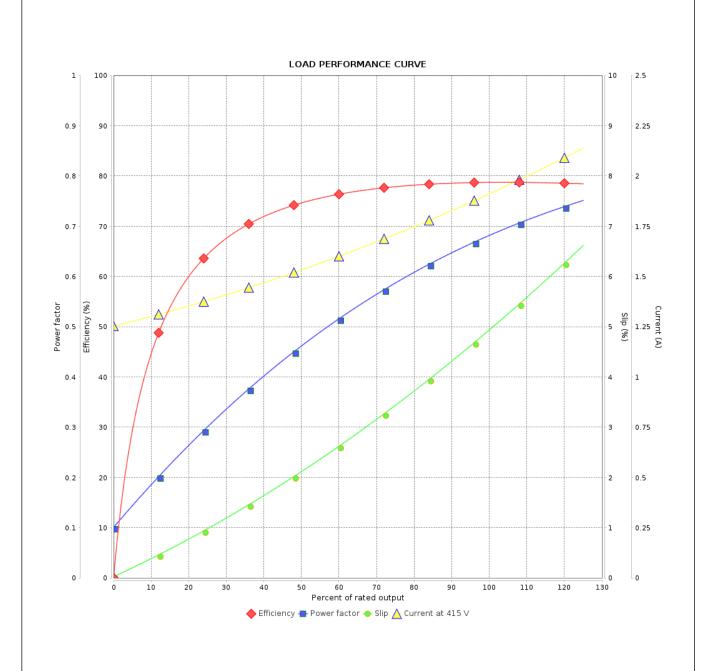
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11432497

Efficiency Three-Phase



Performance	: 415 V 50 Hz 6P IE2					
Rated current	: 1.95 A	Moment of	inertia (J)	: 0.0067 kgm²		
LRC	: 5.5	Duty cycle	Duty cycle			
Rated torque	: 0.764 kgfm	Insulation	Insulation class			
Locked rotor tord	que : 250 %	Service fac	Service factor			
Breakdown torqu	ie : 280 %	Temperatu	Temperature rise			
Rated speed	: 950 rpm	Design	Design			
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