DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11941857 Efficiency Three-Phase Frame : 284/6TS Cooling method : 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 Altitude : 1000 m.a.s.l. Approx. weight³ : 181 kg Protection degree : IP55 Moment of inertia (J) : 0.1419 kgm² Design : B 30 25 30 Output [HP] 25 25 30 30 Poles 2 2 2 2 2 2 2 50 Frequency [Hz] 60 50 50 50 50 50 380 Rated voltage [V] 460 380 400 415 400 415 42.0 Rated current [A] 34.6 34.6 33.2 32.4 40.0 38.2 L. R. Amperes [A] 218 214 233 233 206 220 237 LRC [A] 6.3x(Code 6.2x(Code | 7.0x(Code H) | 7.2x(Code H) | 4.9x(Code E) | 5.5x(Code F) | 6.2x(Code G) G) G) No load current [A] 9.90 9.40 10.0 10.6 9.40 10.0 10.6 Rated speed [RPM] 3549 2946 2953 2957 2923 2938 2942 Slip [%] 1.42 1.80 1.57 1.43 2.57 2.07 1.93 Rated torque [kgfm] 6.13 6.16 6.14 6.14 7.45 7.41 7.40 Locked rotor torque [%] 240 220 250 229 180 200 220 Breakdown torque [%] 250 229 270 290 200 210 240 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 21s (cold) Locked rotor time 27s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 15s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) Noise level² 72.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 50% 91.7 91.0 91.1 91.2 89.0 90.0 91.0 Efficiency (%) 75% 91.7 91.5 91.5 91.8 89.5 90.2 91.0 100% 91.7 92.4 92.4 92.4 89.5 90.2 91.0 25% 50% 0.77 0.80 0.76 0.74 0.83 0.80 0.78 Power Factor 75% 0.85 0.86 0.84 0.82 0.88 0.85 0.86 100% 0.87 0.88 0.87 0.89 0.88 0.88 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.5 7.7 7.7 7.7 10.2 9.3 11.0 P2 (0,5;1,0) 6.7 6.1 6.1 6.1 8.6 8.0 7.3 P3 (0,25;1,0) 6.4 5.8 5.8 5.8 8.3 7.7 7.0 P4 (0,9;0,5) 4.2 3.8 3.8 3.8 5.5 5.1 4.6 Losses (%) P5 (0,5;0,5) 2.5 2.3 2.3 2.3 3.3 3.0 2.8 P6 (0,5;0,25) 1.6 1.4 2.0 1.9 1.7 1.4 1.4 P7 1.2 1.0 0.9 0.9 1.0 0.9 1.1 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 163 kgf Max. traction Taconite **Taconite** Sealing : 344 kgf Max. compression Labyrinth Labyrinth Lubrication interval 14000 h 17000 h Lubricant amount 18 a 11 g Lubricant type Mobil Polyrex EM

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Date

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Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Customer Notes This revision rep	i:		These ar	re average values		
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.			e average values ipply, subject to th			
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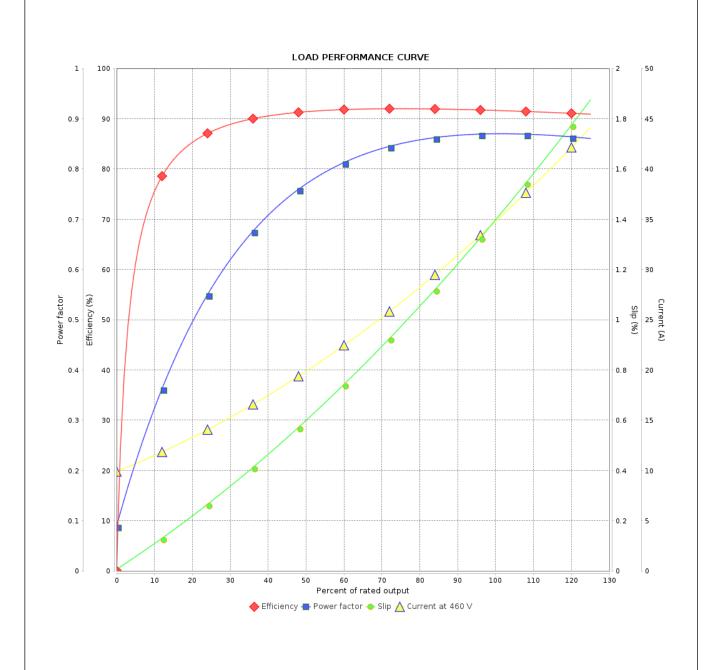


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941857



: 460 V 60 Hz 2P				
: 34.6 A : 6.3 : 6.13 kgfm : 240 % : 250 % : 3549 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1419 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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	: 34.6 A : 6.3 : 6.13 kgfm : 240 % : 250 % : 3549 rpm	: 34.6 A Moment of 26.3 Duty cycle in 240 % Service fa 250 % Temperate 250 yr Design	: 34.6 A : 6.3 : 6.13 kgfm : 240 % : 250 % : 3549 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 34.6 A Moment of inertia (J) : 0.1419 kgm² : 6.3 Duty cycle : Cont.(S1) : 6.13 kgfm Insulation class : F : 240 % Service factor : 1.25 : 250 % Temperature rise : 80 K : 3549 rpm Design : B

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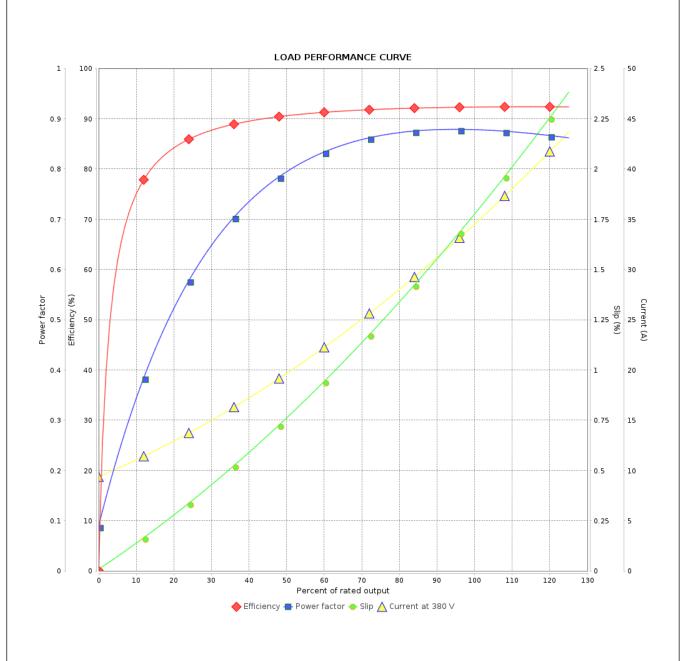


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941857



Performance	: 380 V 50 Hz 2P IE3	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.6 A : 6.2 : 6.16 kgfm : 220 % : 229 % : 2946 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1419 kgm² : Cont.(S1) : F : 1.00 : 80 K : B		
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Three Phase Induction Motor - Squirrel Cage

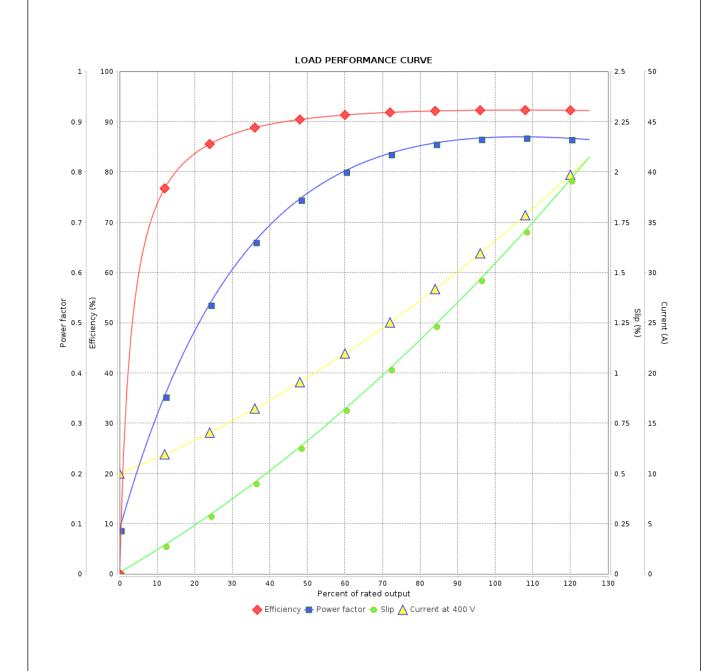


Customer :

Product line : W22 IEEE 841 NEMA Premium Pro-

Efficiency Three-Phase

Product code: 11941857



Performance	: 400 V 50 Hz 2P IE3	: 400 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.2 A : 7.0 : 6.14 kgfm : 250 % : 270 % : 2953 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1419 kgm² : Cont.(S1) : F : 1.00 : 80 K : B				
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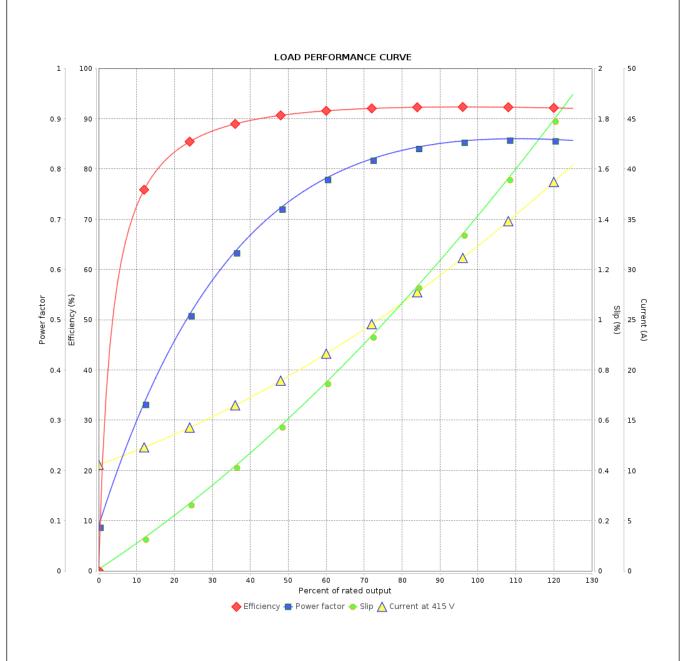


Customer

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941857



Performance	: 4	: 415 V 50 Hz 2P IE3				
Rated current : 3		32.4 A	2.4 A Moment of inertia (J)		: 0.1419 kgm²	
LRC	: 7	'.2	Duty cycle	e	: Cont.(S1)	
Rated torque	: 6	5.14 kgfm	Insulation class		: F ` ´	
•		29 %	Service fa	Service factor		
Breakdown torqu	ue : 2	90 %	Temperature rise		: 80 K : B	
Rated speed	: 2	2957 rpm Design				
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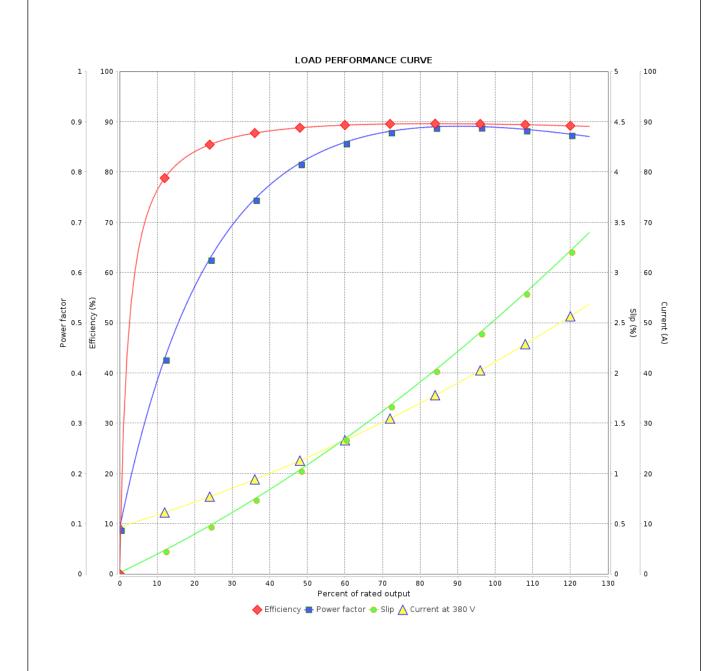
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941857



Performance	: 380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Duty cycle Insulation cl Service fact	Insulation class Service factor Temperature rise		
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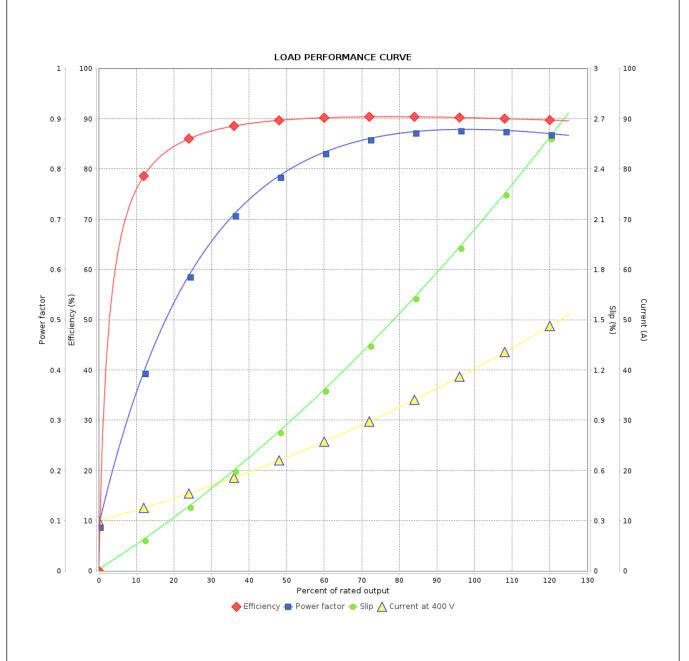


Customer :

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Efficiency Three-Phase

Product code: 11941857



Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.0 A : 5.5 : 7.41 kgfm : 200 % : 210 % : 2938 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1419 kgm² : Cont.(S1) : F : 1.00 : 105 K : B		
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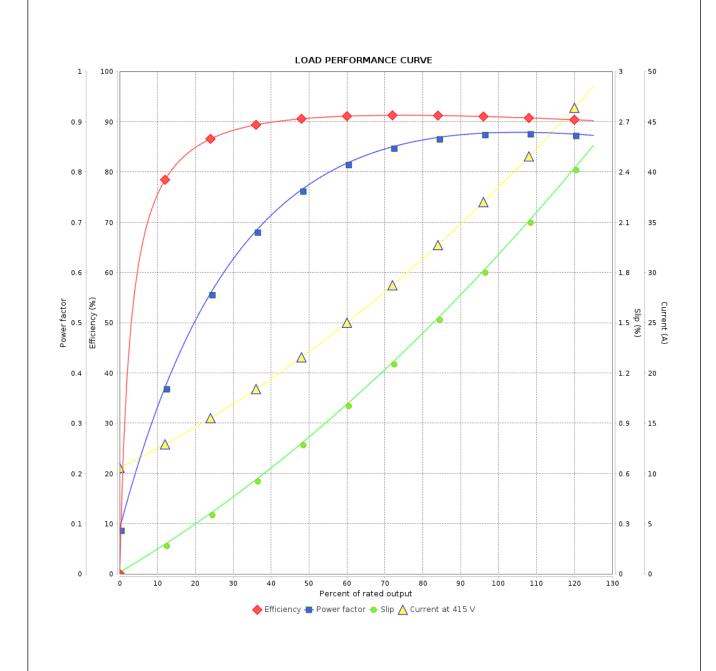


Customer :

Product line : W22 IEEE 841 NEMA Premium Product

Efficiency Three-Phase

Product code: 11941857



Performance : 415 V 50 Hz 2P IE1 : 38.2 A Rated current Moment of inertia (J) : 0.1419 kgm² **LRC** : 6.2 Duty cycle : Cont.(S1) : 7.40 kgfm : F Rated torque Insulation class Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Datad speed

Rated speed	: 28	942 rpm	Design		: В	
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