DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11941857 Efficiency Three-Phase : 284/6TS 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. : 181 kg Protection degree : IP55 Moment of inertia (J) : 0.1419 kgm² Design : B Output [HP] 30 25 25 30 25 30 30 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 42.0 40.0 34.6 34.6 33.2 32.4 38.2 L. R. Amperes [A] 206 218 214 233 233 220 237 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] 10.0 9.40 9.90 9.40 10.6 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 1.00 Service factor 1.25 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% 0.78 50% 0.77 0.80 0.76 0.74 0.83 0.80 Power Factor 75% 0.85 0.86 0.84 0.82 0.88 0.86 0.85 100% 0.87 0.88 0.87 0.86 0.89 0.88 0.88 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 1.4 1.4 2.0 1.9 1.7 P7 1.2 0.9 0.9 0.9 1.0 1.0 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 17000 h Lubrication interval 14000 h Lubricant amount 18 a 11 g Lubricant type Mobil Polyrex EM

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DATA SHEET

Date

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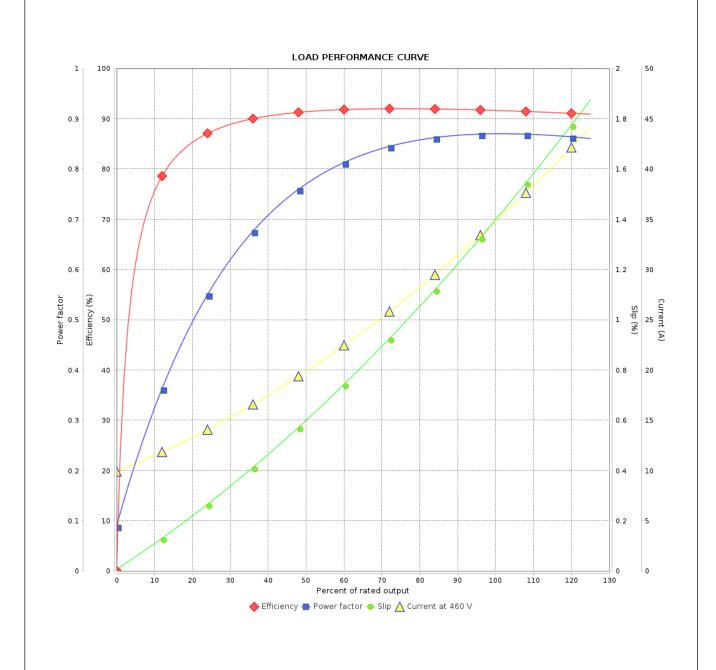


Customer :

Product line : W22 IEEE 841 NEMA Premium Produ

Efficiency Three-Phase

Product code: 11941857



Performance	: 460 V 60 Hz 2P				
Rated current	: 34.6 A		f inertia (J)	: 0.1419 kgm	2
LRC	: 6.3	Duty cycle		: Cont.(S1)	
Rated torque	: 6.13 kgfm	Insulation		: F	
Locked rotor torqu		Service fa		: 1.25	
Breakdown torque		Temperatu	are rise	: 80 K	
Rated speed	: 3549 rpm	Design		: B	
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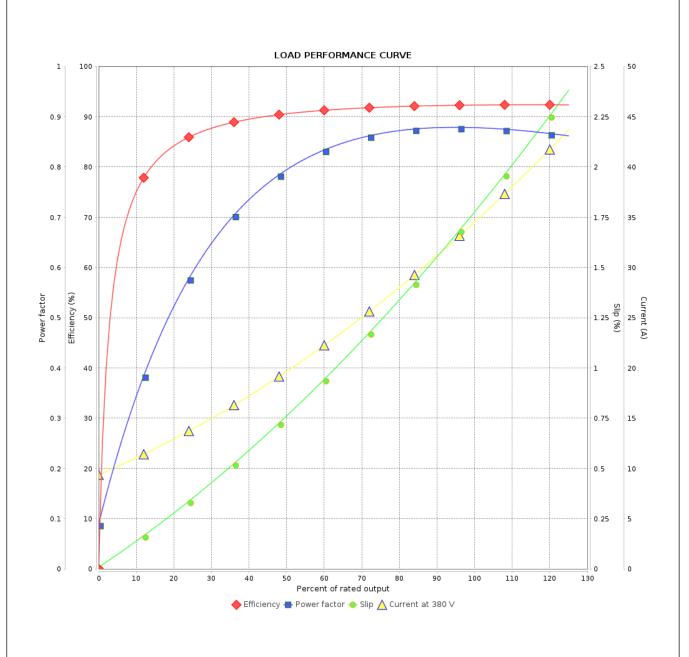


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941857



Performance	: 380 V 50 Hz 2P IE3				
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 Duty cycle Insulation of Service fact Temperatur Design	class tor	: 0.1419 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	2
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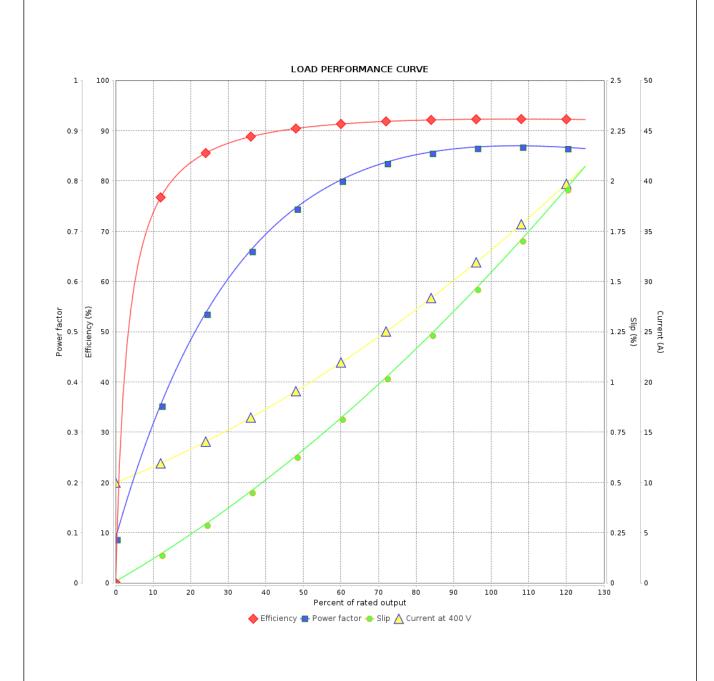
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Customer :

Checked by

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



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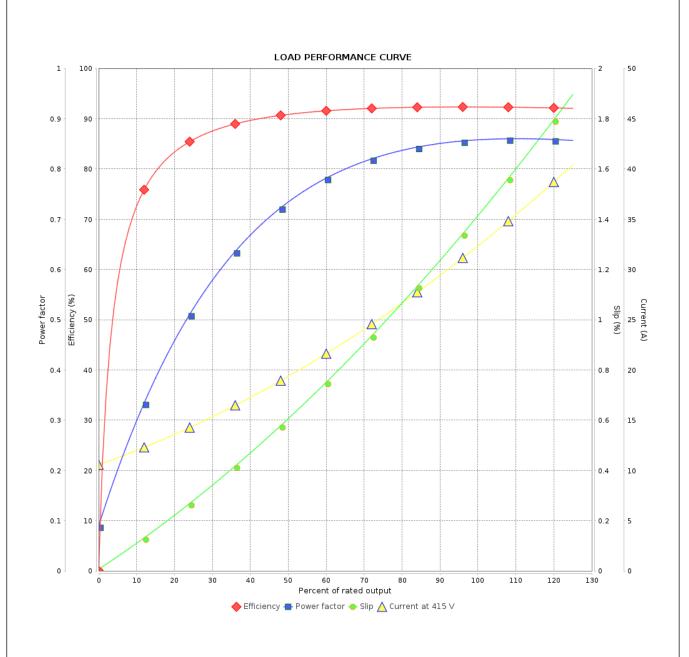


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941857



Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 32.4 A	Moment of in	ertia (J)	: 0.1419 kgm²	
LRC	: 7.2	Duty cycle	` ,	: Cont.(S1)	
Rated torque	: 6.14 kgfm	Insulation cla	iss	: F ` ´	
Locked rotor torque	: 229 %	Service facto	r	: 1.00	
Breakdown torque	: 290 %	Temperature	rise	: 80 K	
Rated speed	: 2957 rpm	Design		: B	
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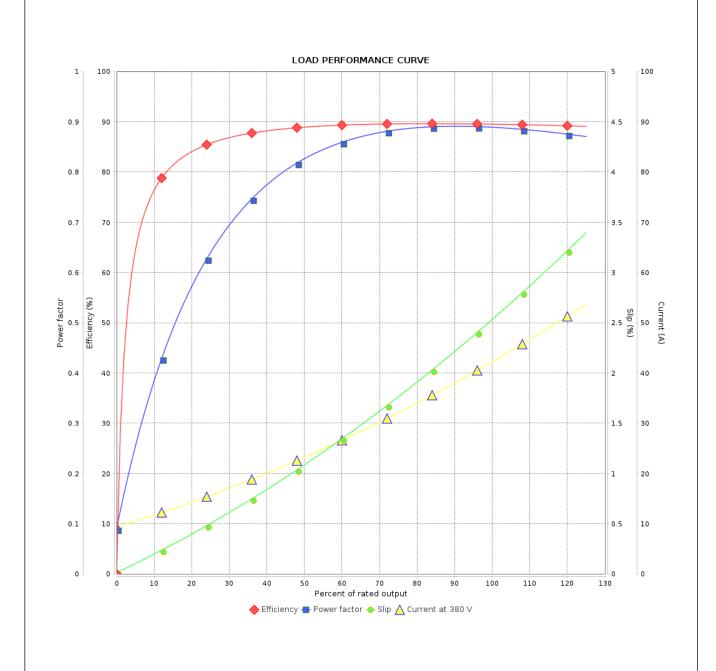


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Efficiency Three-Phase

Product code: 11941857



Performance	: 380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of i Duty cycle Insulation c Service fact Temperatur Design	lass	: 0.1419 kgm : Cont.(S1) : F : 1.00 : 105 K : B	2
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rated speed	. 2	920 Ipili	Design		. Б	
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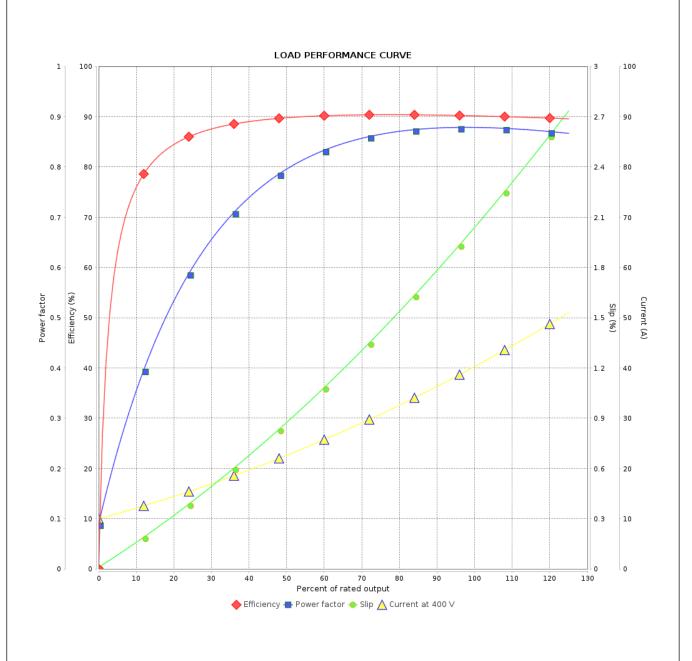


Customer :

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Efficiency Three-Phase

Product code: 11941857



Performance	: 40	00 V 50 Hz 2P IE1				
Rated current	: 40	0.0 A	Moment of	of inertia (J)	: 0.1419 kgm ²	2
LRC	: 5.	.5	Duty cycle	е	: Cont.(S1)	
Rated torque	: 7.	.41 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 20	00 %	Service fa	actor	: 1.00	
Breakdown torqu		10 %	Temperat	ure rise	: 105 K	
Rated speed	: 29	938 rpm	Design		: B	
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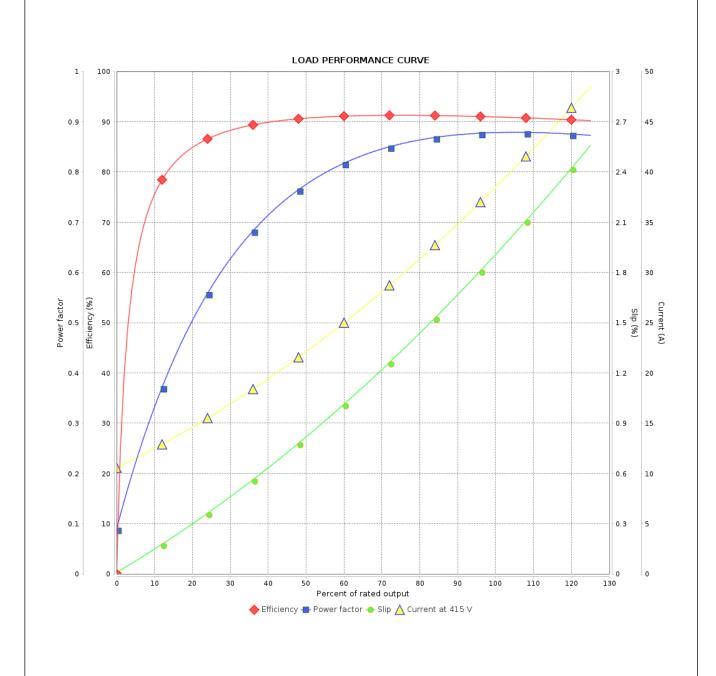


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941857



Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 38.2 A : 6.2 : 7.40 kgfm : 220 % : 240 % : 2942 rpm	Moment of in Duty cycle Insulation cl Service factor Temperature Design	ass or	: 0.1419 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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