DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11941734 Efficiency Three-Phase Frame : 284TC 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 : 1000 m.a.s.l. Approx. weight³ Altitude : 185 kg Protection degree : IP55 Moment of inertia (J) : 0.2153 kgm² Design : B Output [HP] 25 25 25 25 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 29.5 35.9 34.3 33.2 L. R. Amperes [A] 183 190 189 196 LRC [A] 6.2x(Code G) 5.3x(Code F) 5.5x(Code F) 5.9x(Code G) No load current [A] 11.0 11.0 11.7 12.4 Rated speed [RPM] 1770 1455 1460 1465 Slip [%] 1.67 3.00 2.67 2.33 Rated torque [kgfm] 10.3 12.5 12.4 12.4 Locked rotor torque [%] 240 180 200 220 Breakdown torque [%] 270 210 240 260 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 105 K 105 K 105 K Locked rotor time 43s (cold) 24s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Noise level² 63.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 50% 92.4 92.4 92.4 92.4 Efficiency (%) 75% 93.0 91.7 92.4 92.4 100% 93.6 91.0 91.7 92.4 25% 50% 0.70 0.76 0.73 0.70 Power Factor 75% 0.80 0.84 0.82 0.80 0.84 0.85 0.84 100% 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.8 6.8 6.8 6.8 P2 (0,5;1,0) 5.8 5.8 5.8 5.8 P3 (0,25;1,0) 5.3 5.3 5.3 5.3 P4 (0,9;0,5) 3.1 3.1 Losses (%) 3.1 3.1 P5 (0,5;0,5) 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 P7 (0,25;0,25) 1.0 1.0 1.0 1.0 Non drive end Foundation loads Drive end 6311 C3 6211 C3 Bearing type Max. traction : 368 kgf Sealing **Taconite** Taconite : 553 kgf Max. compression Labyrinth Labyrinth 20000 h 20000 h Lubrication interval Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). **Changes Summary** Performed Checked Rev. Date Performed by Checked by Page Revision

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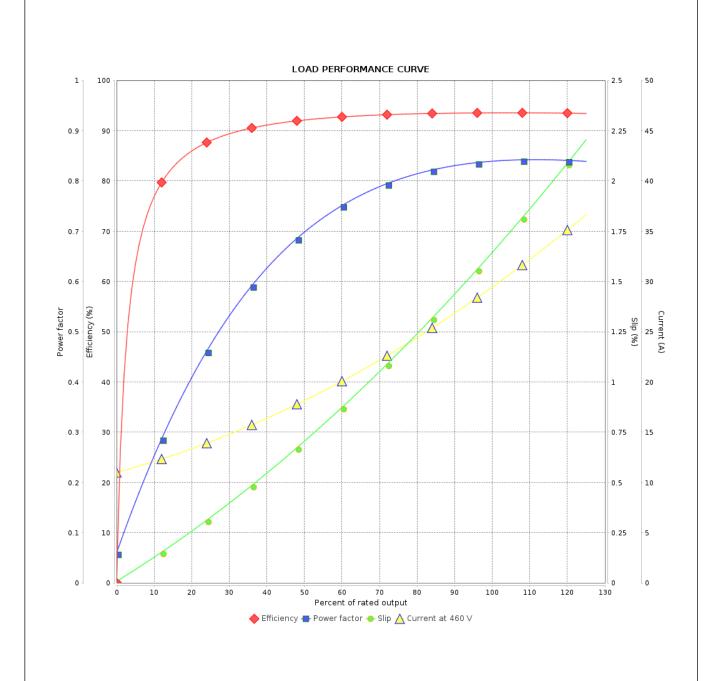
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11941734

Efficiency Three-Phase



Rev.	Changes Summ	ry Performed	Checked	Date	
Rated speed	: 1770 rpm	Design	: B		
Breakdown torque	: 270 %	Temperature rise	: 80 K		
Locked rotor torqu	e : 240 %	Service factor	: 1.25		
Rated torque	: 10.3 kgfm	Insulation class	: F	: F	
LRC	: 6.2	Duty cycle	: Cont.(S1)	: Cont.(S1)	
Rated current	: 29.5 A	Moment of inertia (J)	: 0.2153 kgm	: 0.2153 kgm²	
Performance	: 460 V 60 Hz 4P				

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Three Phase Induction Motor - Squirrel Cage

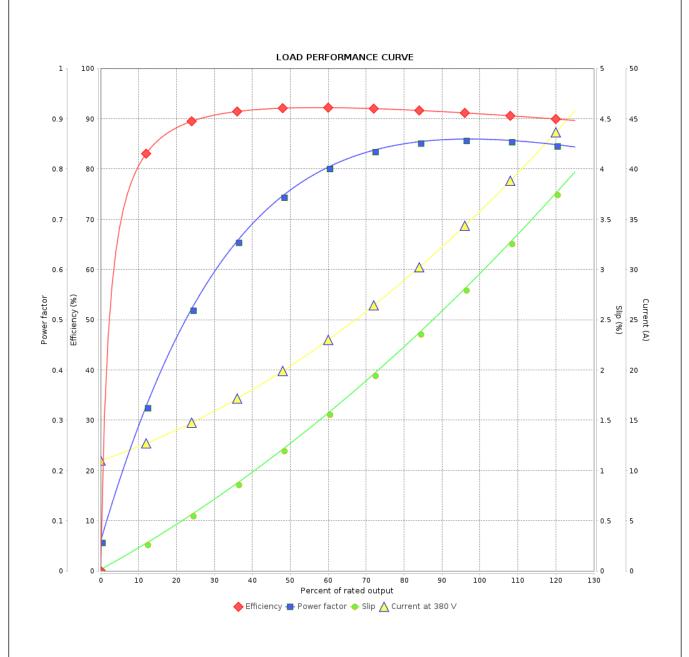


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941734



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.9 A : 5.3 : 12.5 kgfm : 180 % : 210 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2153 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



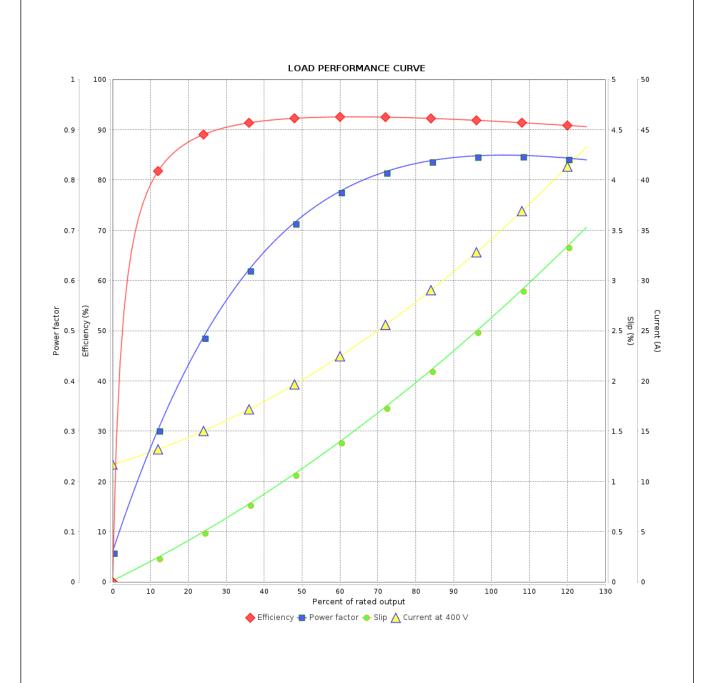
11941734

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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.3 A : 5.5 : 12.4 kgfm : 200 % : 240 % : 1460 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 0.2153 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage

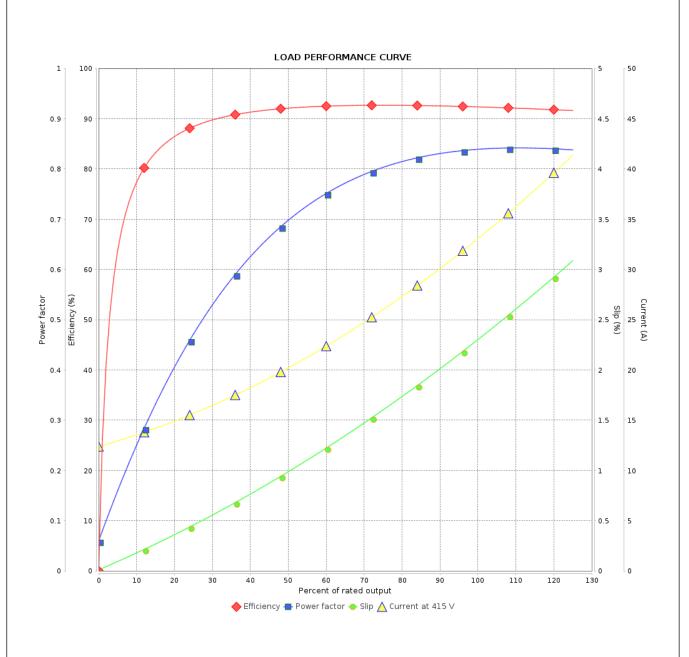


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941734



Performance	: 415 V 50 Hz 4P IE2		,		
renormance	. 415 V 50 HZ 4F IEZ				
Rated current	: 33.2 A	Moment of inertia (J)		: 0.2153 kgm²	
LRC	: 5.9	Duty cycle	: Cont.(S1)	: Cont.(S1)	
Rated torque	: 12.4 kgfm	Insulation class	:F ` ´		
Locked rotor torque	: 220 %	Service factor	: 1.00	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 105 K		
Rated speed	: 1465 rpm	Design	: B		
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