DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11938794 Efficiency Three-Phase : 143/5TC 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 Altitude : 1000 m.a.s.l. : 26.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0066 kgm² Design : B Output [HP] 2 1.5 1.5 1.5 2 2 2 Poles 4 4 4 4 4 4 4 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 460 380 400 415 400 415 3.33 Rated current [A] 2.79 2.57 2.57 2.56 3.22 3.14 L. R. Amperes [A] 23.2 21.1 22.4 21.5 20.0 21.3 22.9 LRC [A] 8.3x(Code L) 8.2x(Code L) 8.7x(Code 8.4x(Code | 6.0x(Code H) | 6.6x(Code J) | 7.3x(Code K) M) M) No load current [A] 1.63 1.61 1.80 1.97 1.61 1.80 1.97 Rated speed [RPM] 1750 1460 1465 1465 1435 1440 1450 Slip [%] 2.78 2.67 2.33 2.33 4.33 4.00 3.33 Rated torque [kgfm] 0.829 0.746 0.743 0.743 1.01 1.01 1.00 Locked rotor torque [%] 270 290 320 350 220 229 250 240 Breakdown torque [%] 320 330 380 409 260 290 1.25 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 21s (cold) Locked rotor time 18s (cold) 32s (cold) 28s (cold) 27s (cold) 23s (cold) 21s (cold) 12s (hot) 10s (hot) 18s (hot) 16s (hot) 15s (hot) 13s (hot) 12s (hot) Noise level² 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 85.5 84.0 82.0 81.4 85.5 84.0 84.0 Efficiency (%) 75% 86.5 84.2 83.5 83.1 84.0 84.0 84.0 100% 86.5 84.5 84.5 84.1 82.5 84.0 84.0 25% 50% 0.57 0.55 0.50 0.47 0.66 0.62 0.60 Power Factor 75% 0.70 0.69 0.64 0.61 0.78 0.74 0.72 100% 0.78 0.77 0.73 0.71 0.83 0.80 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 15.0 15.0 15.0 15.0 15.0 15.0 15.0 P2 (0,5;1,0) 12.8 12.8 12.8 12.8 12.8 12.8 12.8 P3 (0,25;1,0) 12.1 12.1 12.1 12.1 12.1 12.1 12.1 P4 (0,9;0,5) 8.4 8.4 8.4 8.4 8.4 8.4 8.4 Losses (%) P5 (0,5;0,5) 6.0 6.0 6.0 6.0 6.0 6.0 6.0 P6 (0,5;0,25) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P7 3.5 3.5 3.5 3.5 3.5 3.5 3.5 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6205 C3 6204 C3 : 70 kgf Max. traction Taconite **Taconite** Sealing : 96 kgf Max. compression Labyrinth Labyrinth 20000 h Lubrication interval 20000 h Lubricant amount 4 a 4 g Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by Checked by Page Revision

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I hree 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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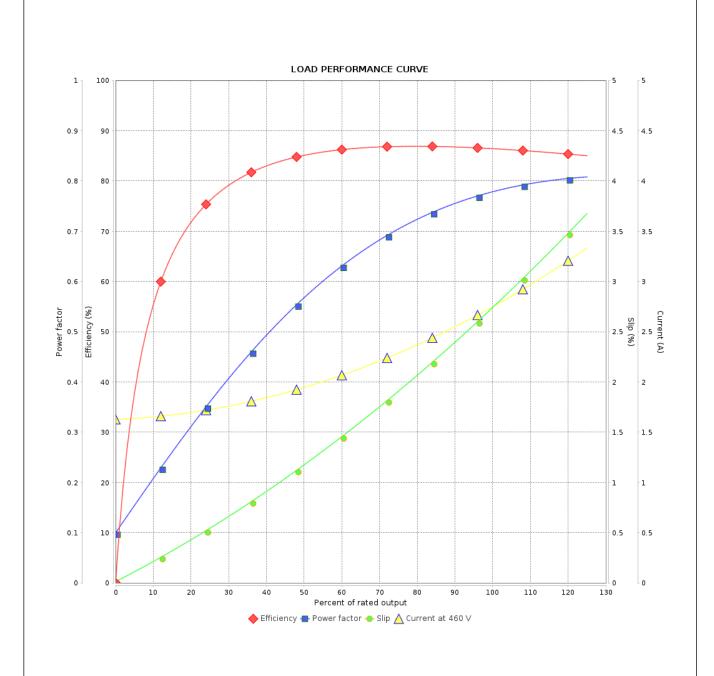
Three Phase Induction Motor - Squirrel Cage



11938794

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :



Rev.	Changes Summa	ry Performed	Checked	Date	
Rated speed	: 1750 rpm	Design	: B		
Breakdown torque	: 320 %	Temperature rise	: 80 K	: 1.25 : 80 K	
Locked rotor torqu	e : 270 %	Service factor	: 1.25		
Rated torque	: 0.829 kgfm	Insulation class	: F	: F	
LRC	: 8.3	8.3 Duty cycle : Cont.(
Rated current	: 2.79 A	Moment of inertia (J)	f inertia (J) : 0.0066 kgm²		
Performance	: 460 V 60 Hz 4P				

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Three Phase Induction Motor - Squirrel Cage



Customer :

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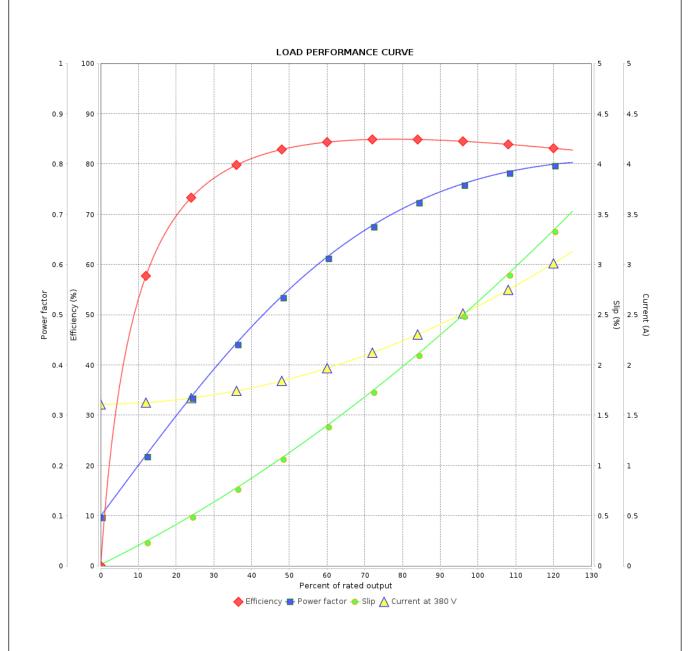
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22/10/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11938794



Performance	:	380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	2.57 A 8.2 0.746 kgfm 290 % 330 % 1460 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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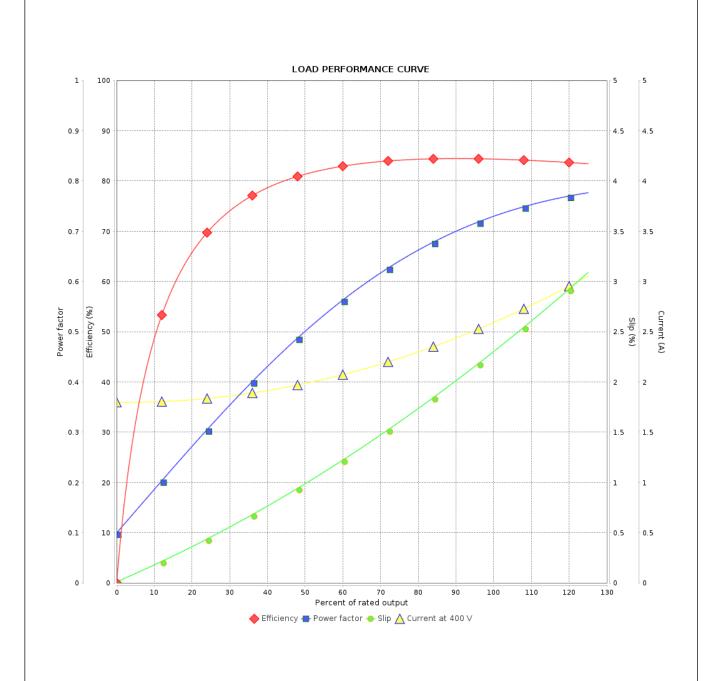
Customer :

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Date

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Product line : W22 IEEE 841 NEMA Premium Product code :



Performance	: 400 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.57 A : 8.7 : 0.743 kgfm : 320 % : 380 % : 1465 rpm	8.7 Duty cycle 0.743 kgfm Insulation 320 % Service fac 380 % Temperatu		: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	: Cont.(S1) : F : 1.25 : 80 K	
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Three Phase Induction Motor - Squirrel Cage

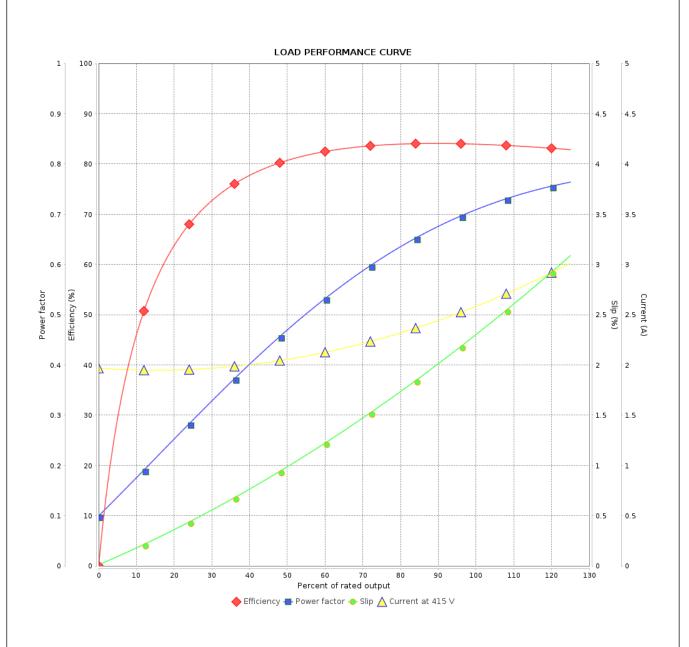


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11938794



Performance	: 415 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 2.56 A : 8.4 : 0.743 kgfm : 350 % : 409 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K			
Rated speed	: 1465 rpm	Design	Darfannad	: B	D-4-		
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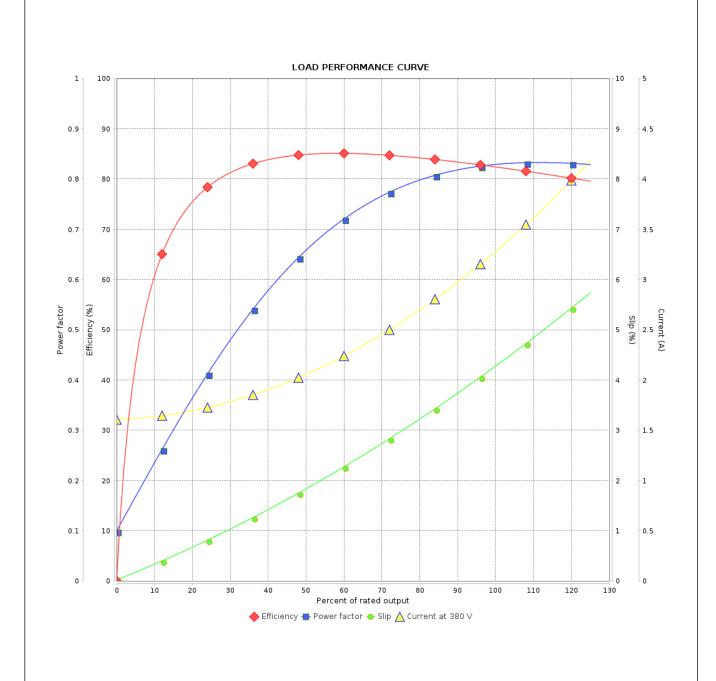
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11938794



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 3.33 A : 6.0 : 1.01 kgfm : 220 % : 240 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K	
Rated speed	: 1435 rpm	Design		: B	
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rated speed		400 Ipili	Design		. Б	
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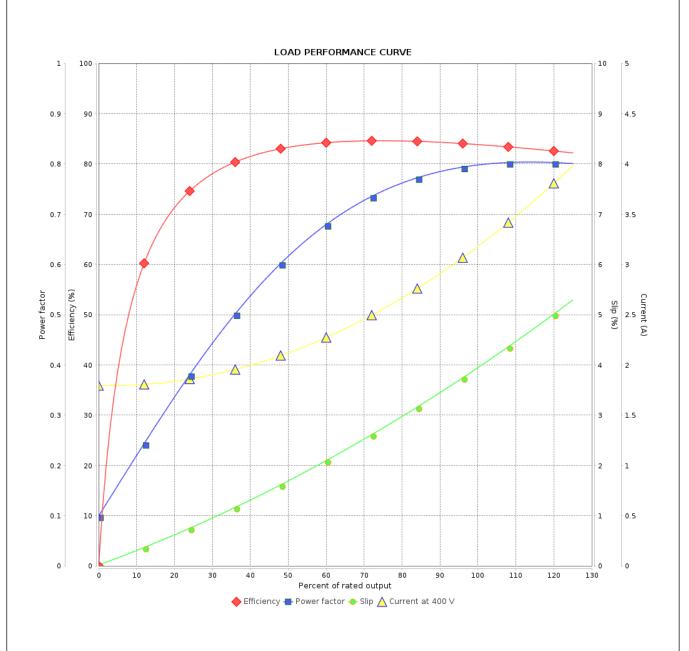


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11938794



			·	
Performance	: 400 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.22 A : 6.6 : 1.01 kgfm : 229 % : 260 % : 1440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	(J) : 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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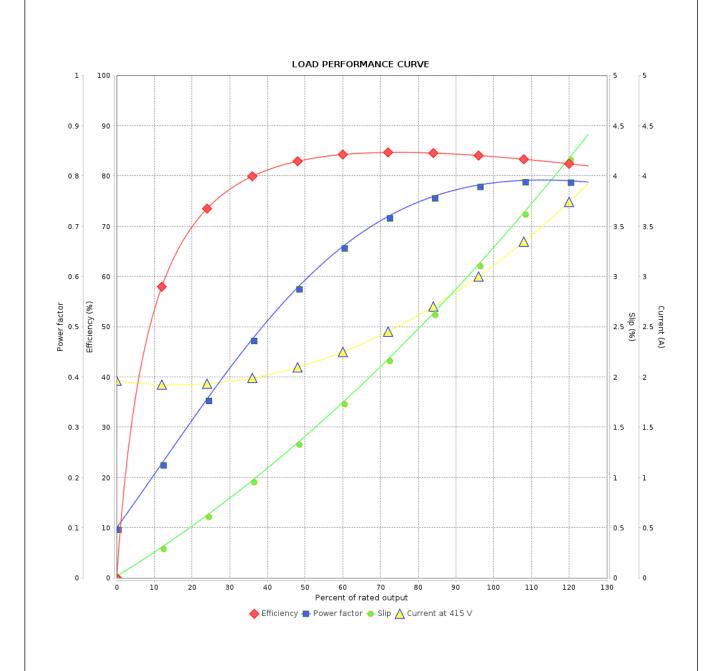
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11938794



Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 3.14 A	Moment of	of inertia (J)	: 0.0066 kgm²	
LRC	: 7.3	Duty cycle		: Cont.(S1)	
Rated torque	: 1.00 kgfm	Insulation class		: F	
Locked rotor torque	: 250 %	Service factor		: 1.25	
Breakdown torque	: 290 %	Temperat	ure rise	: 80 K	
Rated speed	: 1450 rpm	Design		: B	
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Rated speed	: 14	450 rpm	Design		: В	
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