DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12385114 Efficiency Three-Phase : 254/6TC 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. : 132 kg Protection degree : IP56 Moment of inertia (J) : 0.1104 kgm² Design : B Output [HP] 10 10 15 15 10 15 15 Poles 4 4 4 4 4 4 4 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 21.5 18.0 15.2 14.8 14.5 20.5 20.0 L. R. Amperes [A] 115 109 115 120 105 111 118 LRC [A] 6.4x(Code | 7.2x(Code J) | 7.8x(Code J) | 8.3x(Code K) | 4.9x(Code E) | 5.4x(Code F) | 5.9x(Code G) G) No load current [A] 7.40 7.10 7.00 6.70 7.10 7.60 7.40 Rated speed [RPM] 1768 1475 1480 1480 1455 1460 1465 Slip [%] 1.78 1.67 1.33 1.33 3.00 2.67 2.33 Rated torque [kgfm] 6.16 4.92 4.90 4.90 7.48 7.46 7.43 Locked rotor torque [%] 240 250 280 310 160 200 210 Breakdown torque [%] 260 300 340 370 200 220 240 1.00 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 Temperature rise 80 K 41s (cold) 37s (cold) Locked rotor time 55s (cold) 72s (cold) 63s (cold) 57s (cold) 41s (cold) 31s (hot) 40s (hot) 35s (hot) 32s (hot) 23s (hot) 23s (hot) 21s (hot) Noise level² 64.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 50% 91.0 88.88 88.6 88.3 91.0 91.0 91.0 Efficiency (%) 75% 91.7 90.3 90.3 90.3 90.2 91.0 91.0 100% 92.4 90.4 90.6 90.8 90.2 91.0 91.0 25% 50% 0.68 0.65 0.62 0.59 0.74 0.71 0.69 Power Factor 75% 0.78 0.77 0.74 0.72 0.82 0.80 0.79 100% 0.83 0.83 0.81 0.79 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.1 8.1 8.1 8.1 8.1 8.1 8.1 P2 (0,5;1,0) 6.8 6.8 6.8 6.8 6.8 6.8 6.8 P3 (0,25;1,0) 6.3 6.3 6.3 6.3 6.3 6.3 6.3 P4 (0,9;0,5) 3.9 3.9 3.9 3.9 3.9 3.9 3.9 Losses (%) P5 (0,5;0,5) 2.7 2.7 2.7 2.7 2.7 2.7 2.7 P6 (0,5;0,25) 1.8 1.8 1.8 1.8 1.8 1.8 1.8 P7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3 : 214 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 346 kgf Lubrication interval 20000 h 20000 h 9 g Lubricant amount 13 q 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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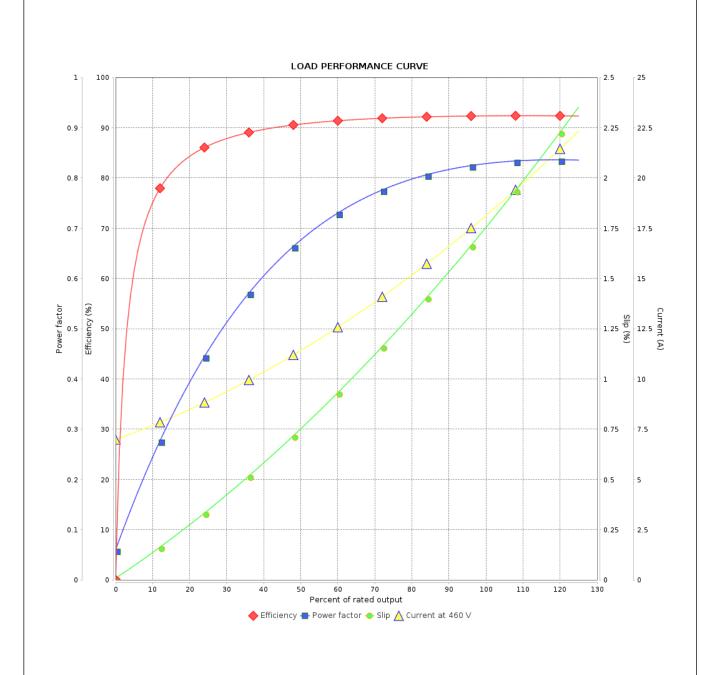
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 12385114

Efficiency Three-Phase



Performance		: 460 V 60 Hz 4P				
Rated current		: 18.0 A	Moment of	of inertia (J)	: 0.1104 kgm²	2
LRC		: 6.4	Duty cycl	е	: Cont.(S1)	
Rated torque		: 6.16 kgfm	Insulation	class	: F	
Locked rotor torq	ue	: 240 %	Service fa	actor	: 1.25	
Breakdown torqu	е	: 260 %	Temperat	ure rise	: 80 K	
Rated speed		: 1768 rpm	Design	Design		
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Three Phase Induction Motor - Squirrel Cage

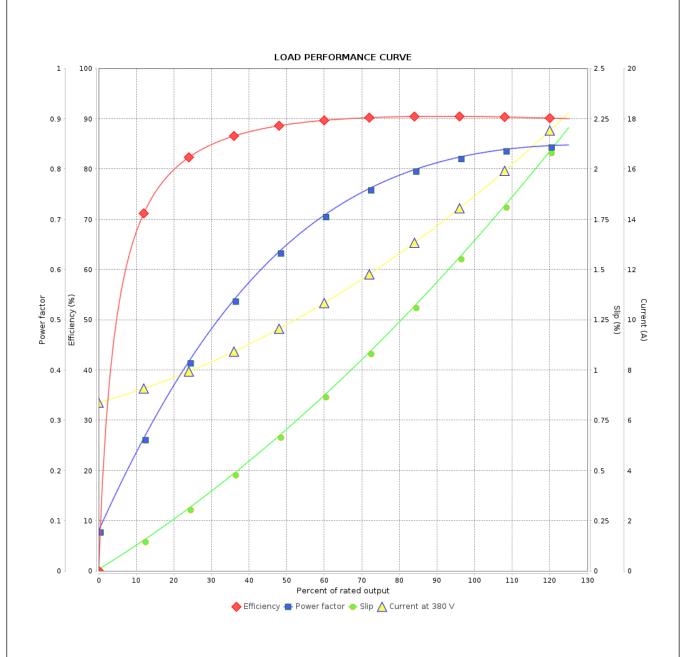


Customer :

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Efficiency Three-Phase

Product code: 12385114



Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.2 A : 7.2 : 4.92 kgfm : 250 % : 300 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1104 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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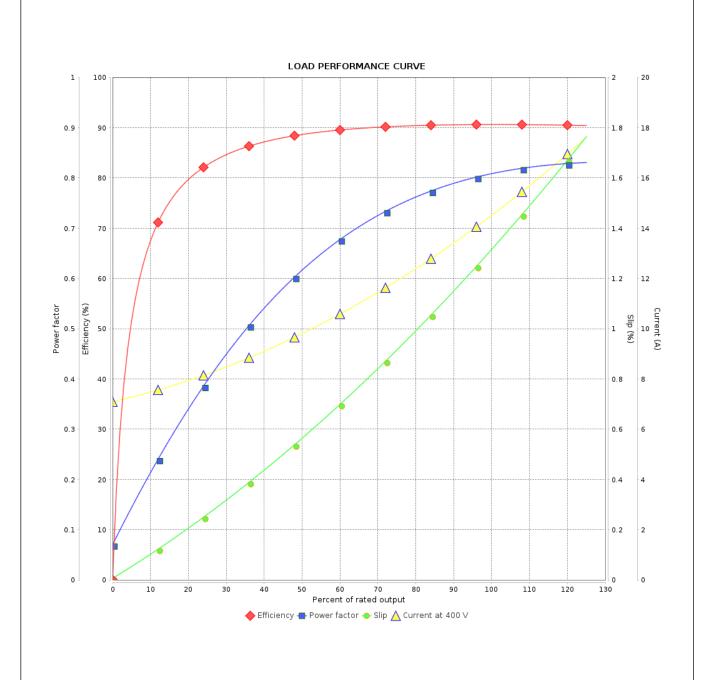
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 12385114

Efficiency Three-Phase



Performance	:	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	; que ;	14.8 A 7.8 4.90 kgfm 280 % 340 % 1480 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.1104 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	2
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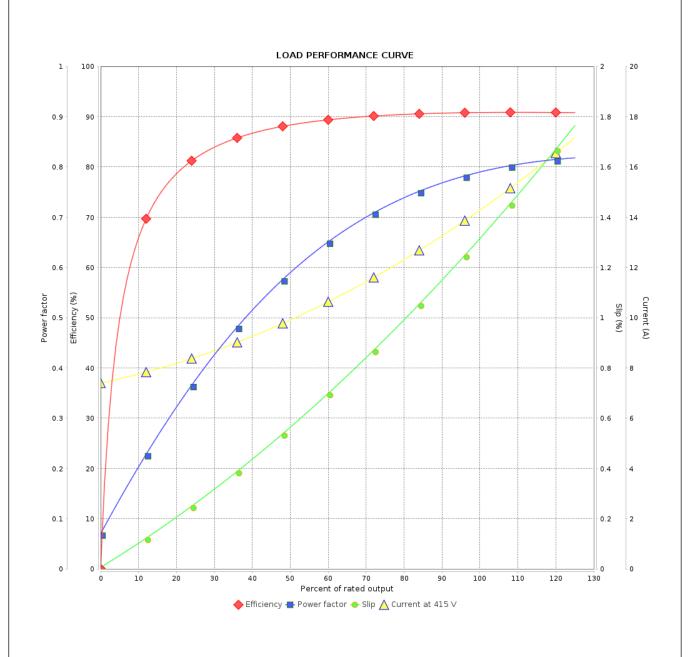


Customer

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Product code: 12385114



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 1	4.5 A	4.5 A Moment of inertia		: 0.1104 kgm²	2
LRC	: 8	.3	Duty cycle	e	: Cont.(S1)	
Rated torque	: 4	.90 kgfm	Insulation	class	: F	
Locked rotor torc	que : 3	10 %	Service fa	ctor	: 1.25	
Breakdown torque		70 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	m Design		: B	
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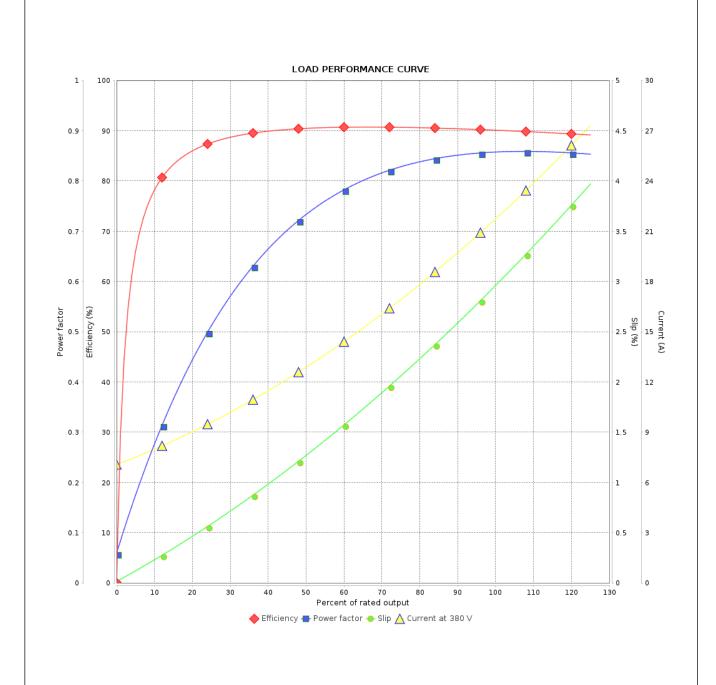


12385114

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.5 A : 4.9 : 7.48 kgfm : 160 % : 200 % : 1455 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.1104 kgm : Cont.(S1) : F : 1.00 : 80 K : B	2
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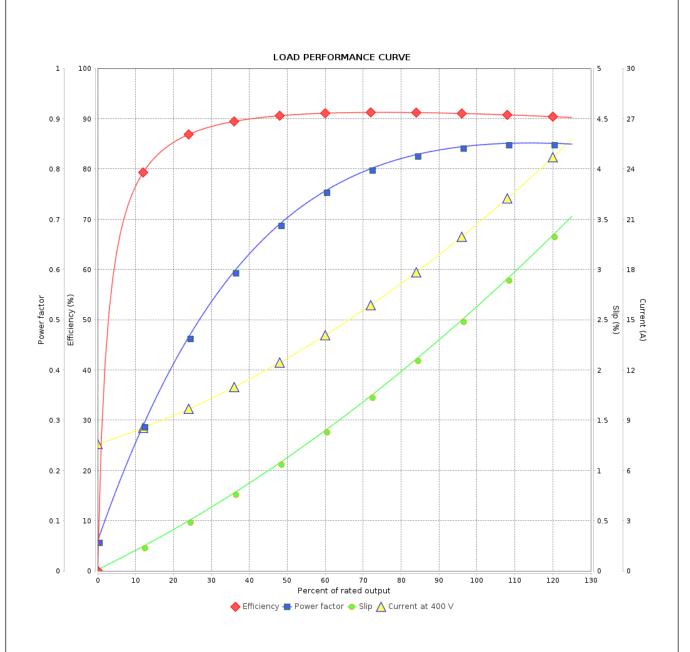


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12385114



					
Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 20.5 A : 5.4 : 7.46 kgfm : 200 % : 220 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1104 kgm ² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 1460 rpm	Design		: B	
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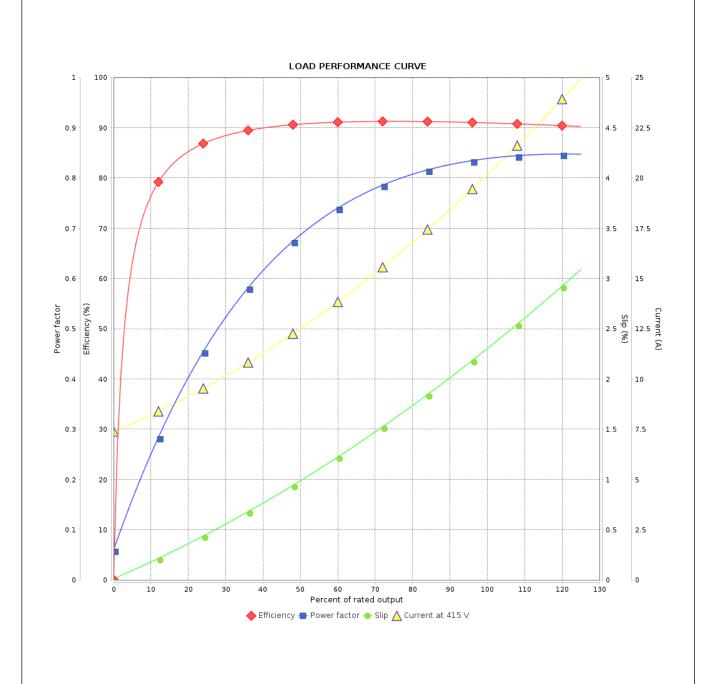
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 12385114

Efficiency Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.0 A : 5.9 : 7.43 kgfm : 210 % : 240 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1104 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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