DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11783909 Three-Phase : 143/5T 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 : 24.7 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0026 kgm² Design : B Output [HP] 3 2 2 2 3 3 3 Poles 2 2 2 2 2 2 2 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 4.44 7.42/3.71 3.24 3.17 3.15 4.26 4.13 27.1 L. R. Amperes [A] 60.1/30.1 27.9 29.2 29.9 28.5 29.3 LRC [A] 8.1x(Code J) 8.6x(Code L) 9.2x(Code 9.5x(Code 6.1x(Code | 6.7x(Code H) | 7.1x(Code H) M) M) G) No load current [A] 2.60/1.30 1.28 1.43 1.55 1.28 1.43 1.55 Rated speed [RPM] 3460 2890 2905 2910 2820 2840 2850 Slip [%] 3.89 3.67 3.17 3.00 6.00 5.33 5.00 Rated torque [kgfm] 0.629 0.502 0.500 0.499 0.772 0.767 0.764 Locked rotor torque [%] 330 400 459 490 260 300 320 Breakdown torque [%] 360 400 459 509 260 300 330 1.25 Service factor 1.25 1.25 1.00 1.00 1.00 1.00 Temperature rise 80 K 23s (cold) 23s (cold) Locked rotor time 25s (cold) 25s (cold) 23s (cold) 23s (cold) 25s (cold) 14s (hot) 14s (hot) 13s (hot) 13s (hot) 14s (hot) 13s (hot) 13s (hot) Noise level² 68.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 50% 85.5 81.9 82.0 82.2 84.0 84.5 85.0 Efficiency (%) 75% 86.5 84.0 84.4 84.8 85.0 85.5 86.0 100% 86.5 84.8 85.3 85.9 84.6 85.6 86.2 25% 50% 0.70 0.63 0.58 0.55 0.76 0.72 0.69 Power Factor 75% 0.81 0.76 0.72 0.69 0.85 0.82 0.80 0.86 100% 0.83 0.80 0.77 0.89 0.87 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.8 14.8 14.8 14.8 14.8 14.8 14.8 P2 (0,5;1,0) 12.3 12.3 12.3 12.3 12.3 12.3 12.3 P3 (0,25;1,0) 11.7 11.7 11.7 11.7 11.7 11.7 11.7 P4 (0,9;0,5) 6.8 6.8 6.8 6.8 6.8 6.8 6.8 Losses (%) P5 (0,5;0,5) 4.3 4.3 4.3 4.3 4.3 4.3 4.3 P6 (0,5;0,25) 2.6 2.6 2.6 2.6 2.6 2.6 2.6 P7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6205 ZZ 6204 ZZ : 59 kgf Max. traction Sealing V'Ring V'Ring : 84 kgf Max. compression Lubrication interval Lubricant amount 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 20/10/2024 1/9 Date

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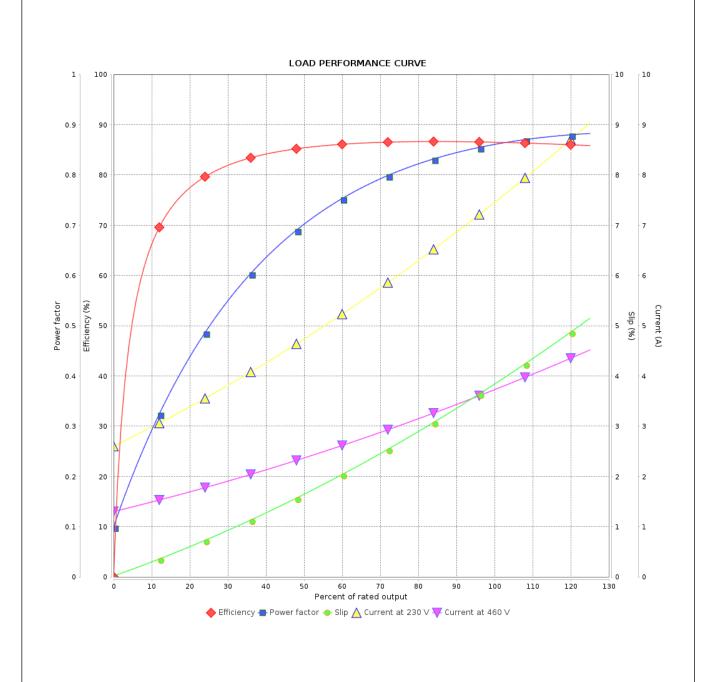
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11783909

Three-Phase



Performance : 230/460 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.42/3.71 A : 8.1 : 0.629 kgfm : 330 % : 360 % : 3460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0026 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

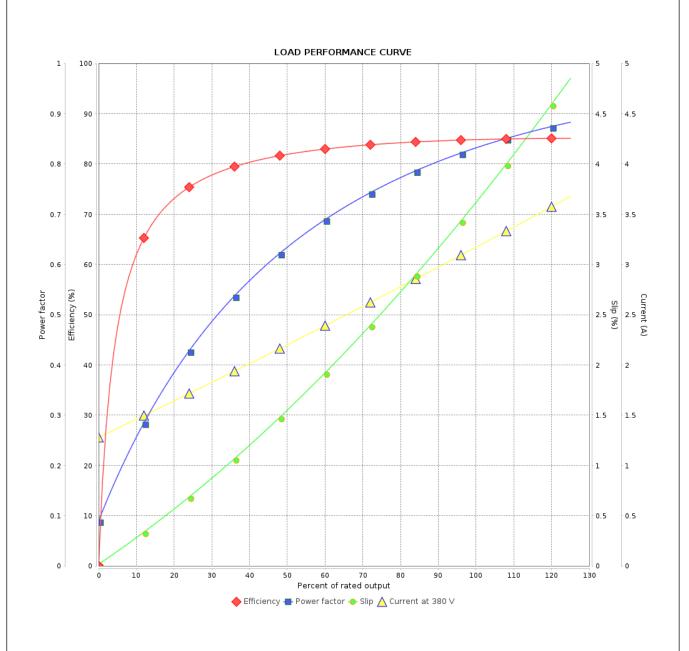


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11783909



Performance	: 38	: 380 V 50 Hz 2P IE3							
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8. : 0. que : 40	24 A 6 502 kgfm 00 % 00 % 390 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0026 kgm² : Cont.(S1) : F : 1.25 : 80 K : B				
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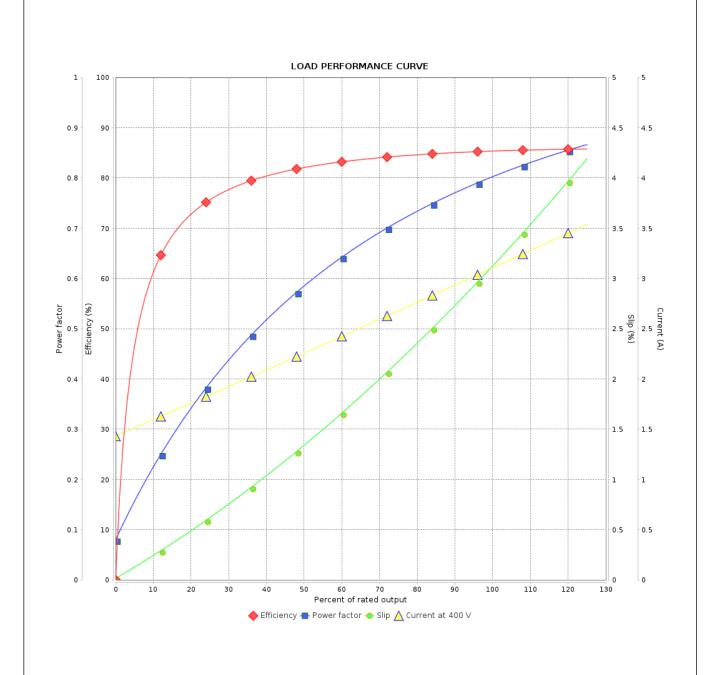
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Product code: 11783909

Three-Phase



Performance	:	: 400 V 50 Hz 2P IE3					
Rated current		3.17 A	A Moment of inertia (J)		: 0.0026 kgm²		
LRC :		9.2	Duty cycle)	: Cont.(S1)		
Rated torque Locked rotor torque		0.500 kgfm			:F `´		
		459 %	Service fa	Service factor : 1.00			
Breakdown torqu	ue :	459 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	2905 rpm	Design		: B		
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Three Phase Induction Motor - Squirrel Cage

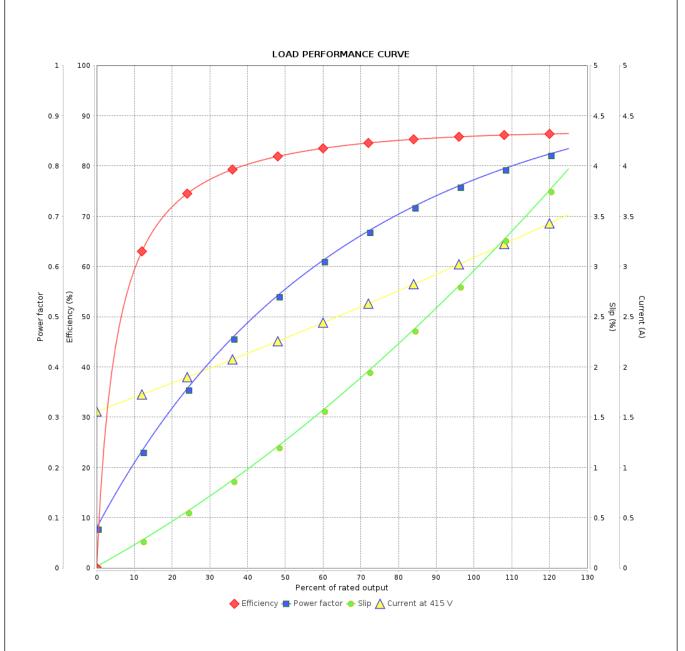


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11783909



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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.15 A : 9.5 : 0.499 kgfm : 490 % : 509 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0026 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	
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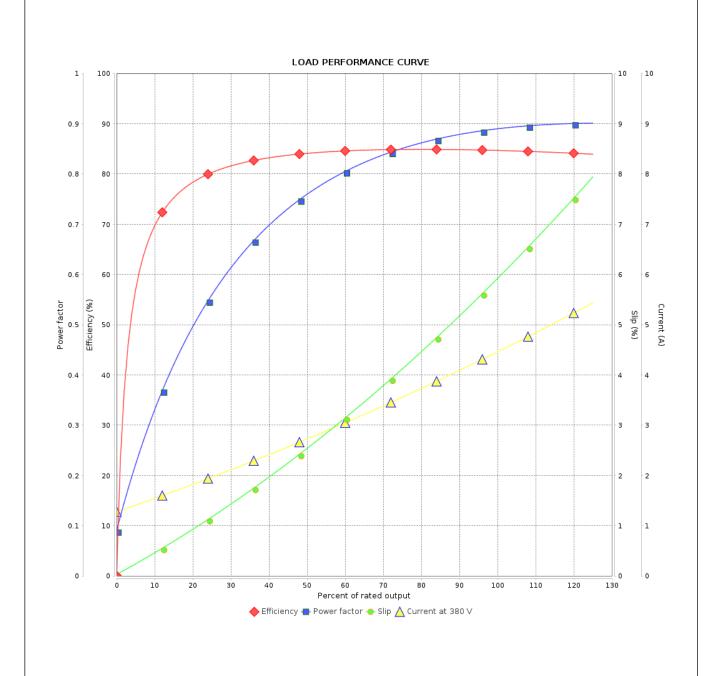
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11783909

Three-Phase



Doufousson		. 200 \ / 50 - 20 52					
Performance		: 380 V 50 Hz 2P IE2					
Rated current		: 4.44 A	Moment of inertia (J)		: 0.0026 kgm²		
LRC		: 6.1	Duty cycle	Duty cycle			
Rated torque		: 0.772 kgfm	Insulation	Insulation class		: F	
Locked rotor torque		: 260 %	Service fa	Service factor			
Breakdown torque		: 260 %	Temperat	Temperature rise			
Rated speed : 2820 rpm		Design	Design				
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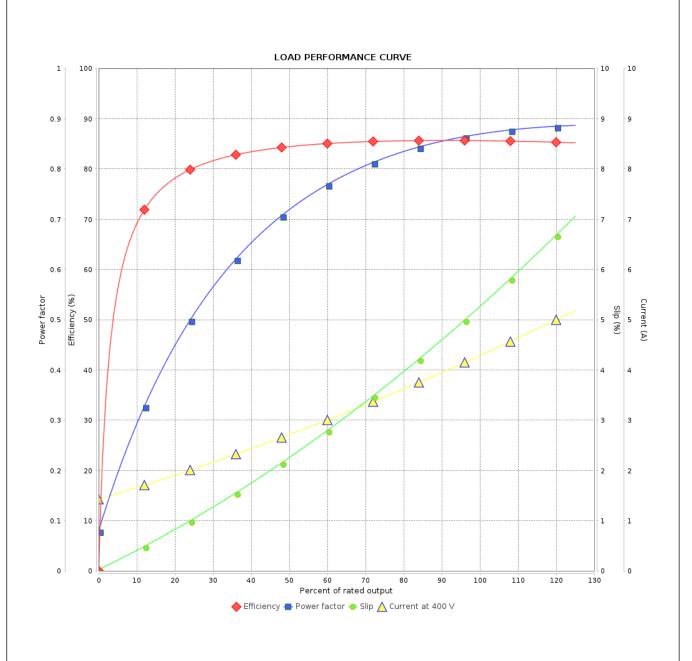
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

11783909



Performance	: 4	: 400 V 50 Hz 2P IE2				
Rated current	: 4	I.26 A	Moment of	of inertia (J)	: 0.0026 kgm²	
LRC		6.7	Duty cycle	e	: Cont.(S1)	
Rated torque	: C).767 kgfm	Insulation class		:F ´	
Locked rotor torque		800 %	Service fa	Service factor		
Breakdown torque	: 3	800 %	Temperat	Temperature rise		
Rated speed	: 2	2840 rpm	Design		: B	
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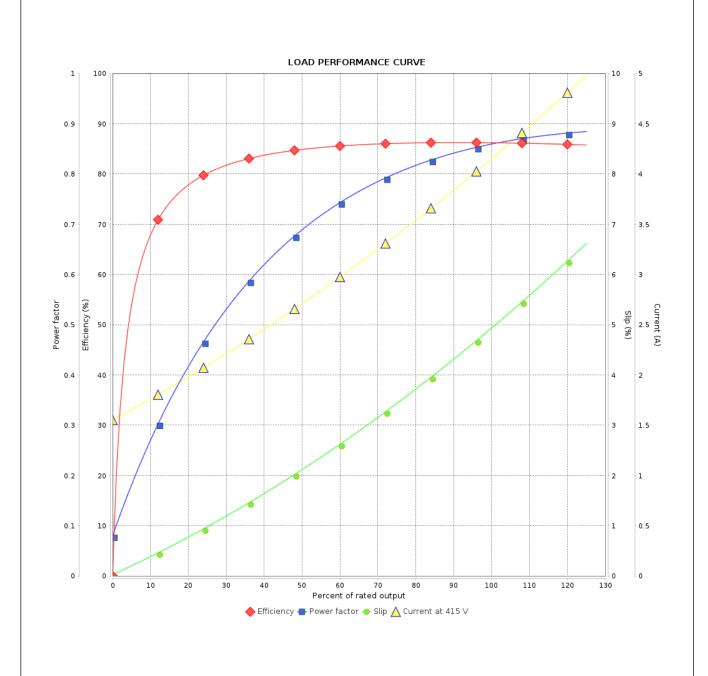
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Product line : W22 NEMA Premium Efficiency Product code : 11783909

Three-Phase



Performance		: 415 V 50 Hz 2P II	E3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que	: 4.13 A : 7.1 : 0.764 kgfm : 320 % : 330 % : 2850 rpm	D Ir S To	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0026 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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