DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11991851 Three-Phase : 182/4TC 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. : 46.6 kg Protection degree : IP55 Moment of inertia (J) : 0.0095 kgm² Design : A Output [HP] 7.5 5.5 5.5 5.5 7.5 7.5 7.5 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 17.5/8.76 7.84 7.62 7.47 10.9 10.3 10.0 L. R. Amperes [A] 144/71.8 65.1 69.3 71.7 68.7 72.1 74.0 LRC [A] 8.2x(Code J) 8.3x(Code J) 9.1x(Code K) 9.6x(Code L) 6.3x(Code 7.0x(Code H) 7.4x(Code H) G) No load current [A] 5.80/2.90 2.70 3.00 3.20 2.70 3.00 3.20 Rated speed [RPM] 3485 2900 2910 2915 2810 2840 2860 Slip [%] 3.19 3.33 3.00 2.83 6.33 5.33 4.67 Rated torque [kgfm] 1.56 1.38 1.37 1.37 1.94 1.92 1.90 Locked rotor torque [%] 270 310 350 370 220 250 270 Breakdown torque [%] 330 360 390 430 260 280 310 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 27s (cold) Locked rotor time 30s (cold) 28s (cold) 27s (cold) 27s (cold) 28s (cold) 27s (cold) 17s (hot) 16s (hot) 15s (hot) 15s (hot) 16s (hot) 15s (hot) 15s (hot) Noise level² 66.0 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% 88.5 85.5 85.9 86.2 87.0 87.5 88.0 Efficiency (%) 75% 89.5 87.0 87.6 88.1 87.0 88.0 88.5 100% 89.5 88.1 88.1 88.7 84.5 86.0 87.0 25% 50% 0.75 0.70 0.66 0.63 0.80 0.77 0.74 Power Factor 75% 0.84 0.82 0.79 0.77 0.88 0.86 0.84 100% 0.88 0.88 0.86 0.84 0.91 0.90 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.4 11.4 11.4 11.4 11.4 11.4 11.4 P2 (0,5;1,0) 9.4 9.4 9.4 9.4 9.4 9.4 9.4 P3 (0,25;1,0) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 P4 (0,9;0,5) 5.3 5.3 5.3 5.3 5.3 5.3 5.3 Losses (%) P5 (0,5;0,5) 3.4 3.4 3.4 3.4 3.4 3.4 3.4 P6 (0,5;0,25) 2.1 2.1 2.1 2.1 2.1 2.1 2.1 P7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ : 100 kgf Max. traction Sealing V'Ring V'Ring : 147 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 13/07/2025 1/9 Date

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Three Phase Induction Motor - Squirrel Cage



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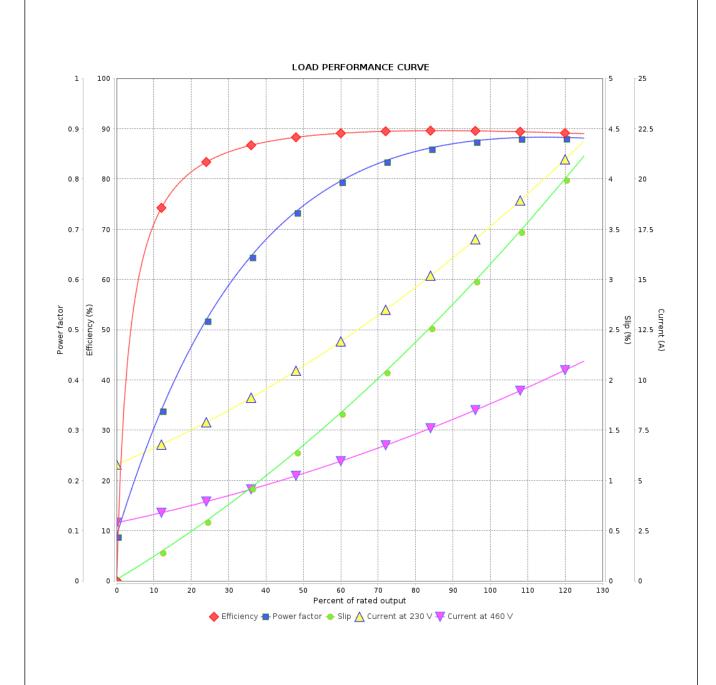
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Date

13/07/2025

Product line : W22 NEMA Premium Efficiency Product code : 11991851

Three-Phase



Performance	:	230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : que :	17.5/8.76 A 8.2 1.56 kgfm 270 % 330 % 3485 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.0095 kgm² : Cont.(S1) : F : 1.25 : 80 K : A	
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Three Phase Induction Motor - Squirrel Cage

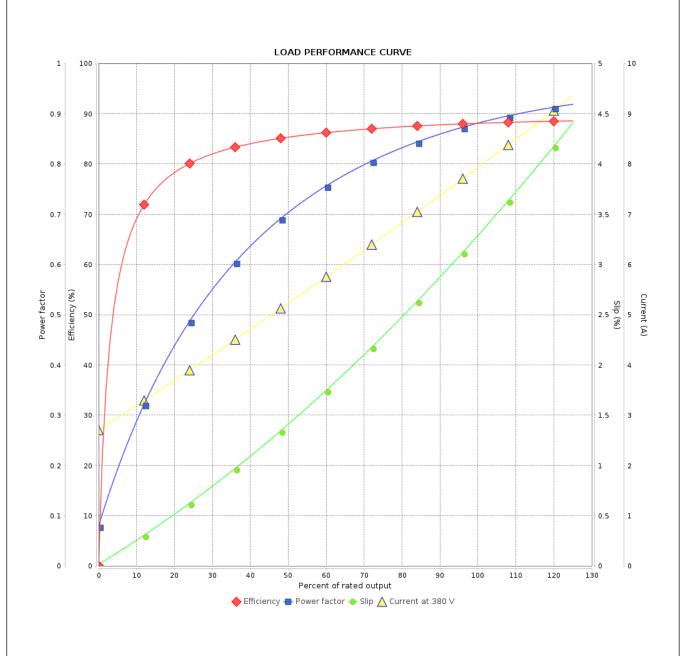


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11991851



Performance	: 380 V 50 Hz 2P IE3	: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0095 kgm² : Cont.(S1) : F : 1.00 : 80 K : A				
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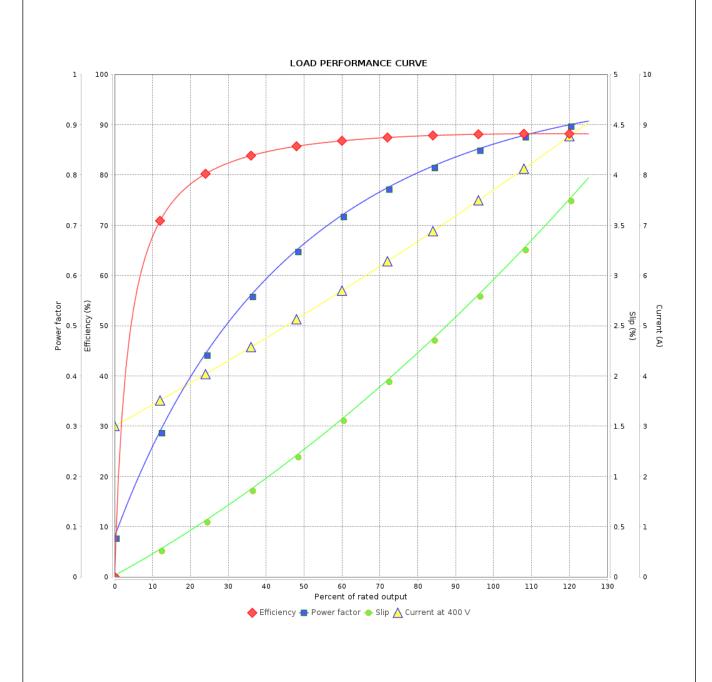
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11991851

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.62 A : 9.1 : 1.37 kgfm : 350 % : 390 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0095 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
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Three Phase Induction Motor - Squirrel Cage

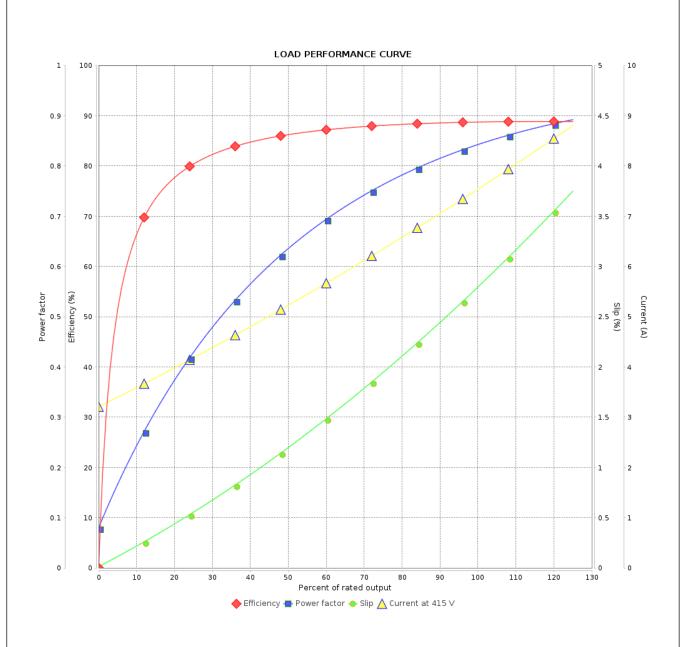


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11991851



Performance	: 415 V 50 Hz 2P IE3						
Rated current	: 7.47 A	Moment of inertia (J)		: 0.0095 kgm²			
LRC	: 9.6	Duty cycle	•	: Cont.(S1)			
Rated torque	: 1.37 kgfm	Insulation class		: F			
Locked rotor torque	e : 370 %	Service factor		: 1.00			
Breakdown torque	: 430 %	Temperature rise		: 80 K			
Rated speed	: 2915 rpm	Design		: A			
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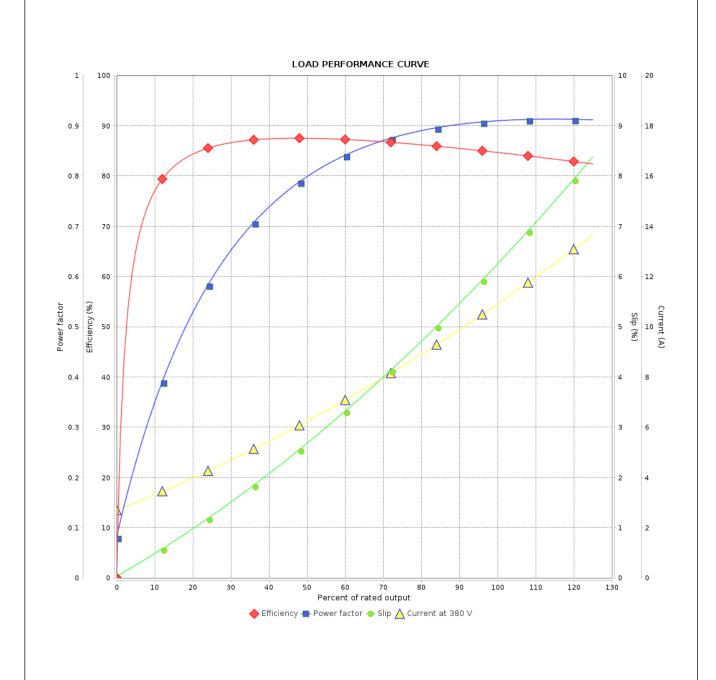
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11991851

Three-Phase



Performance	: 380 V 50 Hz 2P								
Rated current	: 10.9 A	Moment of inertia (J)		Moment of inertia (J)		: 10.9 A Moment of inertia (J) : 0.00		: 0.0095 kgm	2
LRC	: 6.3 Duty cycle : Cont.		` '						
Rated torque	: 1.94 kgfm	Insulation class		: F					
Locked rotor torque	: 220 %	Service factor		: 1.00					
Breakdown torque	: 260 %	Temperature rise		: 80 K					
Rated speed	: 2810 rpm	Design		: A					
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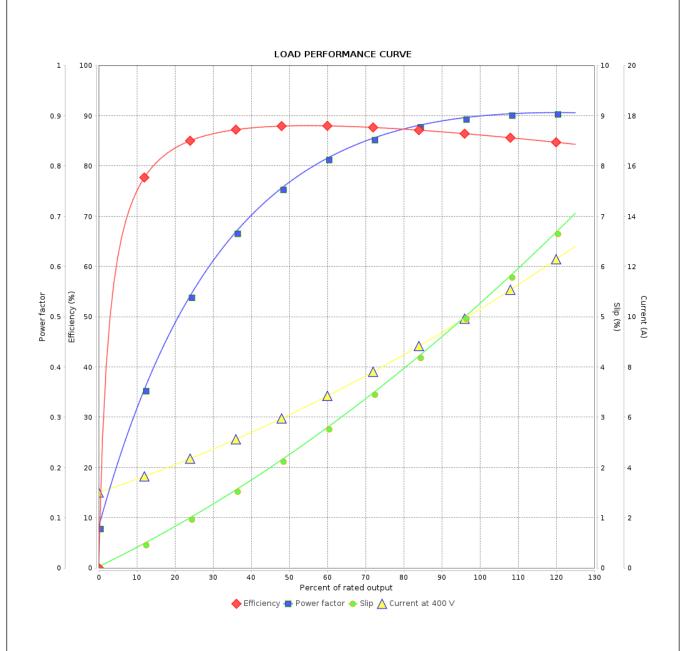


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11991851



Performance	: 400 V 50 Hz 2P IE1	,		,	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.3 A : 7.0 : 1.92 kgfm : 250 % : 280 % : 2840 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0095 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
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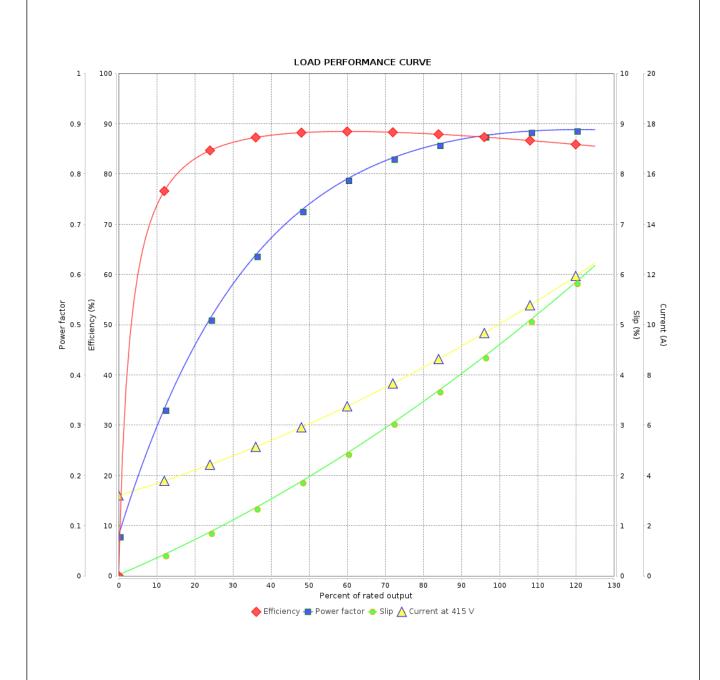
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11991851

Three-Phase



Performance	: 4	15 V 50 Hz 2P IE2				
		0.0 A		Moment of inertia (J)		2
LRC	: 7.	•	Duty cycle		: Cont.(S1)	
Rated torque	: 1.	.90 kgfm	Insulation	class	: F	
Locked rotor tord	que : 27	70 %	Service fa	ctor	: 1.00	
Breakdown torque :		10 %	Temperati	Temperature rise		
Rated speed	: 28	B60 rpm Design		: A		
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