DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11441757 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 : 42.4 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0094 kgm² Design : B Output [HP] 5 4 4 4 5 5 5 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] 7.14 11.8/5.90 5.85 5.57 5.43 6.78 6.61 42.8 L. R. Amperes [A] 89.7/44.8 44.5 46.8 50.5 46.1 49.6 LRC [A] 7.6x(Code J) 7.6x(Code J) 8.4x(Code K) 9.3x(Code L) 6.0x(Code 6.8x(Code H) 7.5x(Code J) G) No load current [A] 4.00/2.00 1.90 2.00 2.10 1.90 2.00 2.10 Rated speed [RPM] 3500 2900 2915 2920 2860 2880 2895 Slip [%] 2.78 3.33 2.83 2.67 4.67 4.00 3.50 Rated torque [kgfm] 1.04 1.00 0.996 0.994 1.27 1.26 1.25 Locked rotor torque [%] 229 220 250 270 180 200 220 Breakdown torque [%] 350 310 350 380 240 270 300 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 25s (cold) 23s (cold) Locked rotor time 30s (cold) 32s (cold) 32s (cold) 28s (cold) 23s (cold) 17s (hot) 18s (hot) 18s (hot) 16s (hot) 13s (hot) 14s (hot) 13s (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% 0.000 0.000 50% 86.5 86.3 86.3 86.1 87.5 87.5 87.5 Efficiency (%) 75% 88.3 87.7 88.2 88.2 87.5 88.5 88.5 100% 88.5 87.5 88.3 88.3 86.5 87.5 87.5 25% 0.00 0.00 50% 0.76 0.74 0.71 0.68 0.81 0.78 0.76 Power Factor 75% 0.85 0.83 0.81 0.88 0.87 0.85 0.85 100% 0.89 0.89 0.88 0.87 0.91 0.90 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 12.4 13.7 12.7 13.7 13.7 12.7 14.9 P2 (0,5;1,0) 10.3 11.3 10.5 10.5 12.3 11.3 11.3 P3 (0,25;1,0) 9.8 10.8 10.0 10.0 11.8 10.8 10.8 P4 (0,9;0,5) 6.2 6.8 6.3 6.3 7.5 6.8 6.8 Losses (%) P5 (0,5;0,5) 3.9 4.3 4.0 4.0 4.7 4.3 4.3 P6 (0,5;0,25) 2.5 2.7 2.5 2.5 3.0 2.7 2.7 P7 1.8 1.6 1.8 1.6 1.6 1.9 1.8 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ : 57 kgf Max. traction Sealing V'Ring V'Ring : 100 kgf Max. compression Lubrication interval Lubricant amount 88000 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 18/10/2025 1/9 Date

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Three Pha	se Induction Motor - Squirrel Cage			шец
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Three Phase Induction Motor - Squirrel Cage



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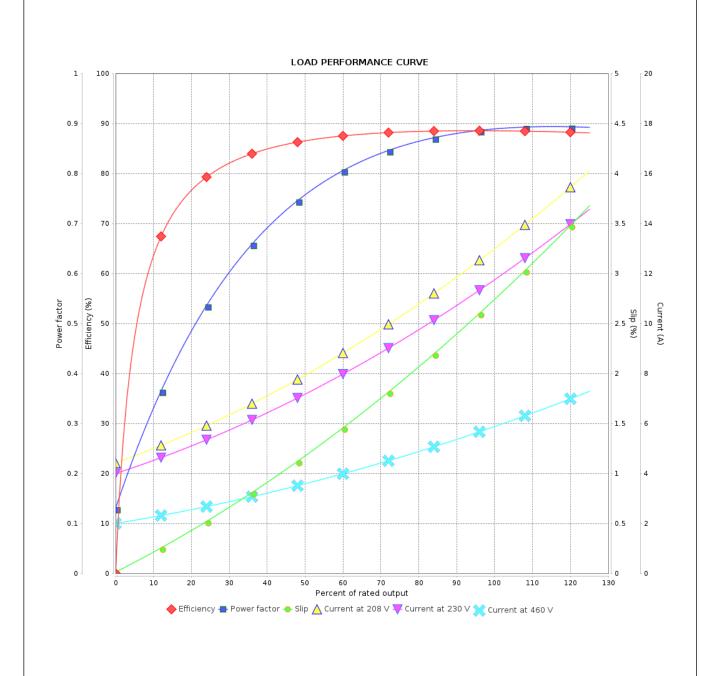
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Date

18/10/2025

Product line : W22 NEMA Premium Efficiency Product code : 11441757

Three-Phase



	<u> </u>				
Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.8/5.90 A : 7.6 : 1.04 kgfm : 229 % : 350 % : 3500 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0094 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

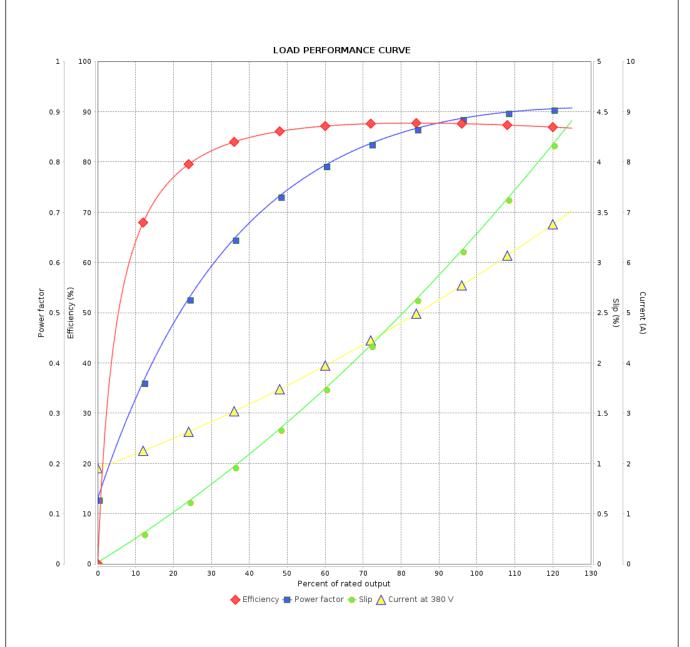


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441757



Performance : 380 V 50 Hz 2P IE3 : 0.0094 kgm² Rated current : 5.85 A Moment of inertia (J) **LRC** : 7.6 Duty cycle : Cont.(S1) : 1.00 kgfm Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev Changes Summary Performed Checked Date

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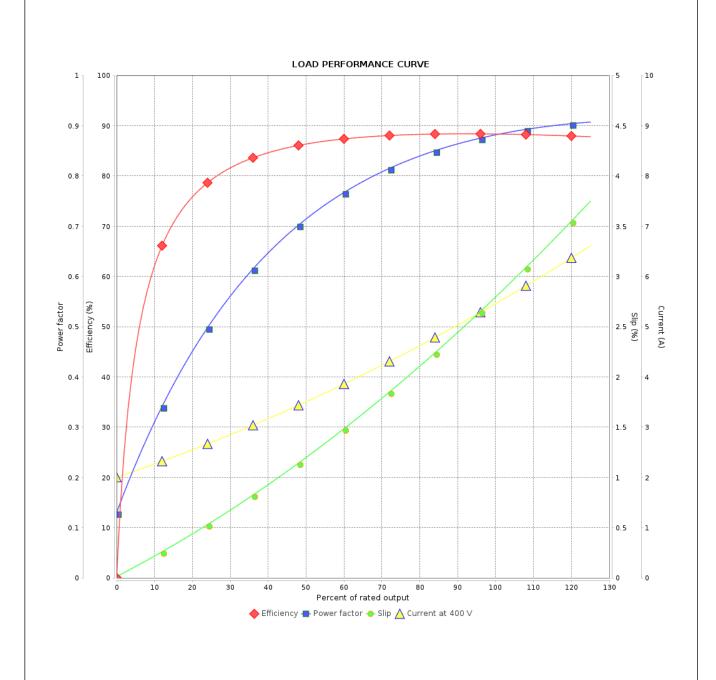
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441757

Three-Phase



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Rated speed	: 2915 rpm	Design		: B		
Breakdown torque	: 350 %	Temperatu	Temperature rise			
Locked rotor torque	: 250 %	Service fac	Service factor		: 1.25	
Rated torque	: 0.996 kgfm	Insulation	Insulation class		: F	
LRC	: 8.4	Duty cycle	Duty cycle		: Cont.(S1)	
Rated current	: 5.57 A	Moment of	f inertia (J)	: 0.0094 kgm ²	2	
Performance	: 400 V 50 Hz 2P IE3					

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Three Phase Induction Motor - Squirrel Cage



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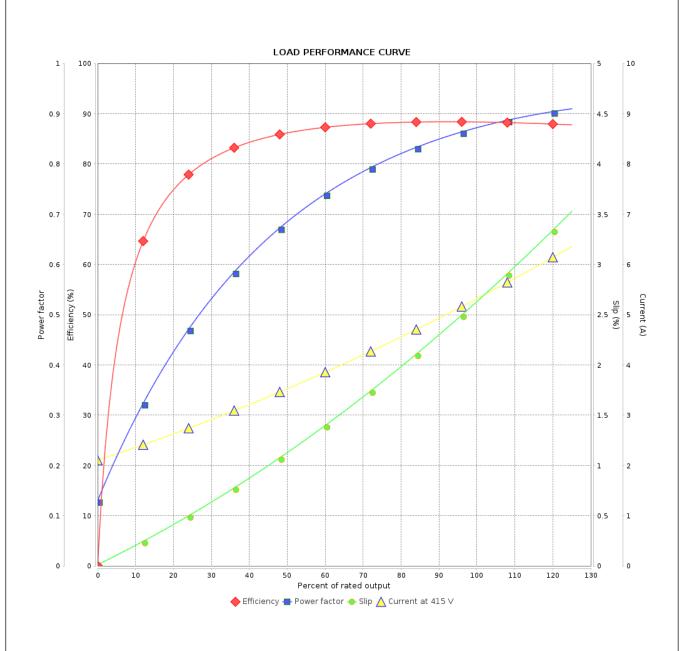
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441757



Performance : 415 V 50 Hz 2P IE3 : 0.0094 kgm² Rated current : 5.43 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 9.3 : 0.994 kgfm Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2920 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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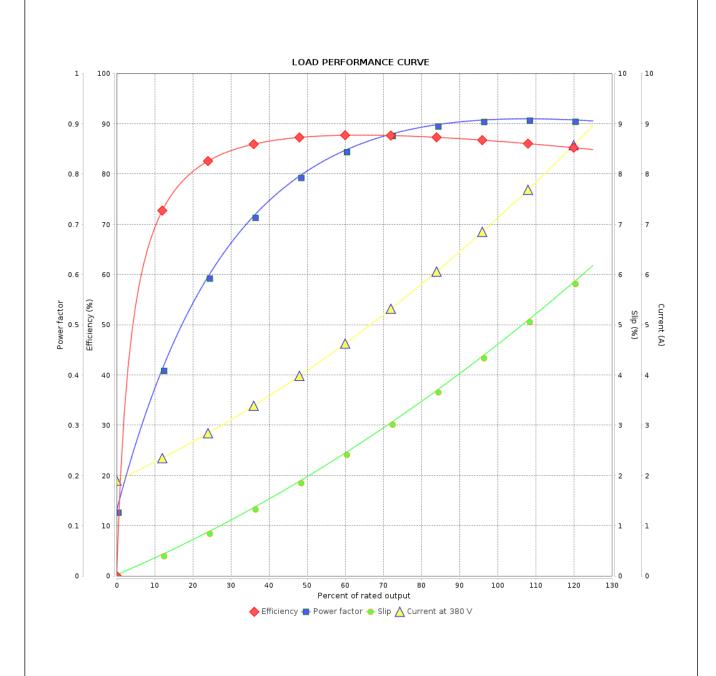
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441757

Three-Phase



					
Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 7.14 A	Moment of inertia (J)		: 0.0094 kgm²	
LRC	: 6.0	Duty cycle		: Cont.(S1)	
Rated torque	: 1.27 kgfm	Insulation class		: F	
Locked rotor torque	: 180 %	Service factor		: 1.25	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 2860 rpm	Design		: B	
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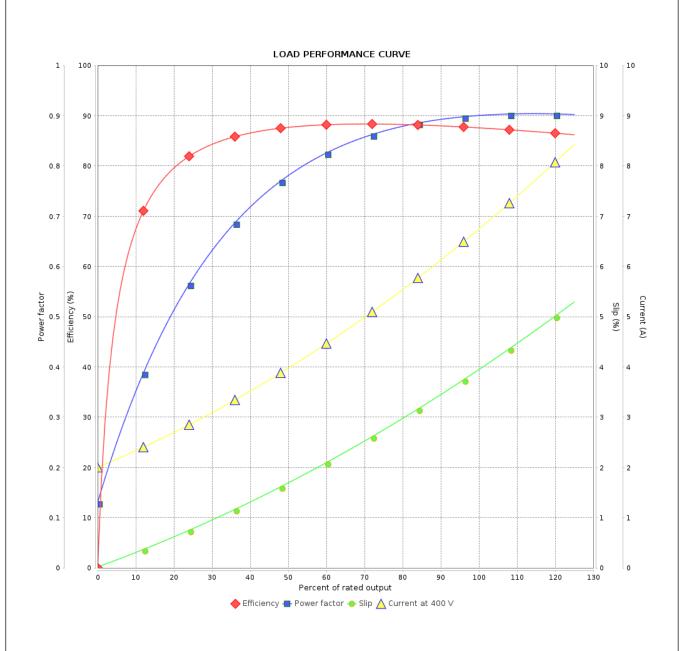
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441757



Performance : 400 V 50 Hz 2P IE2 : 0.0094 kgm² Rated current : 6.78 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 1.26 kgfm : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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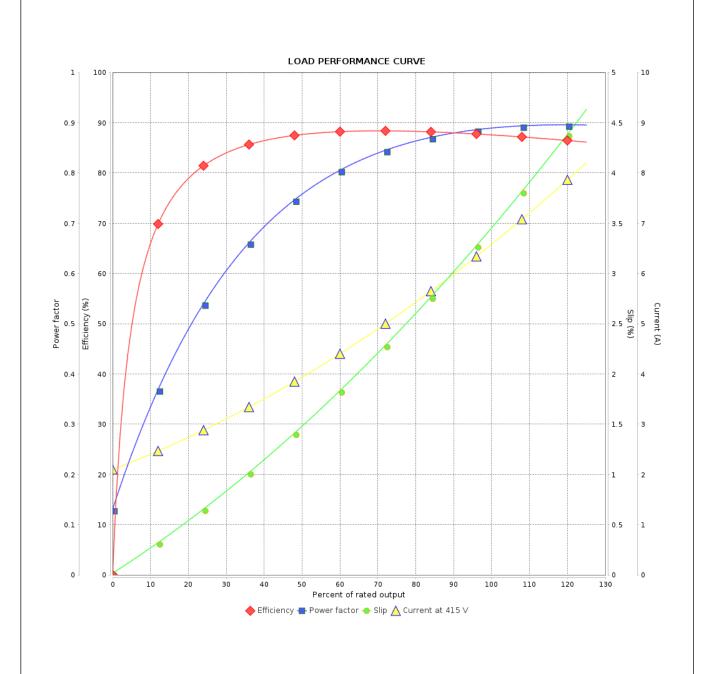
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441757

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current	: 6.61 A	Moment o	f inertia (J)	: 0.0094 kgm²	
LRC	: 7.5	Duty cycle		: Cont.(S1)	
Rated torque	: 1.25 kgfm	Insulation	class	: F	
Locked rotor torque	: 220 %	Service factor		: 1.25	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 2895 rpm	Design		: B	
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