DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11413120 Three-Phase : 284/6TS 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. : 174 kg Protection degree : IP55 Moment of inertia (J) : 0.1419 kgm² Design : B Output [HP] 30 25 25 30 25 30 30 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] 34.2 42.0 68.4/34.2 32.8 32.0 39.6 38.2 L. R. Amperes [A] 206 431/216 202 220 231 218 229 LRC [A] 6.3x(Code | 5.9x(Code F) | 6.7x(Code | 7.2x(Code H) | 4.9x(Code E) | 5.5x(Code F) | 6.0x(Code F) G) G) 9.00 No load current [A] 18.2/9.10 10.0 10.5 9.00 10.0 10.5 Rated speed [RPM] 3545 2940 2950 2955 2910 2930 2935 Slip [%] 1.53 2.00 1.67 1.50 3.00 2.33 2.17 Rated torque [kgfm] 6.14 6.17 6.15 6.14 7.48 7.43 7.42 Locked rotor torque [%] 200 190 220 229 160 180 190 Breakdown torque [%] 250 229 270 290 200 220 240 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 105 K 80 K 80 K 105 K 105 K 105 K 21s (cold) 21s (cold) Locked rotor time 27s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 15s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 72.0 dB(A) Noise level² 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 0.000 0.000 50% 91.7 91.0 91.1 91.2 91.7 91.7 91.7 Efficiency (%) 75% 91.7 91.5 91.5 91.8 90.2 91.0 91.7 100% 91.7 92.4 92.4 92.4 89.5 90.2 91.0 25% 0.00 0.00 50% 0.80 0.78 0.76 0.84 0.82 0.80 0.80 Power Factor 75% 0.86 0.87 0.85 0.84 0.88 0.87 0.86 100% 0.88 0.89 0.88 0.87 0.89 0.89 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.6 7.8 7.8 7.8 10.3 9.4 11.2 P2 (0,5;1,0) 6.7 6.1 6.1 6.1 8.7 8.1 7.4 P3 (0,25;1,0) 5.9 5.3 5.3 5.3 7.6 7.0 6.4 P4 (0,9;0,5) 4.2 3.8 3.8 3.8 5.4 5.0 4.6 Losses (%) P5 (0,5;0,5) 2.5 2.3 2.3 2.3 3.2 3.0 2.7 P6 (0,5;0,25) 1.5 1.4 1.4 1.4 2.0 1.8 1.7 P7 0.9 8.0 8.0 1.2 1.0 8.0 1.1 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 167 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 341 kgf Lubrication interval 14000 h 17000 h 11 g Lubricant amount 18 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 21/10/2024 1/9 Date

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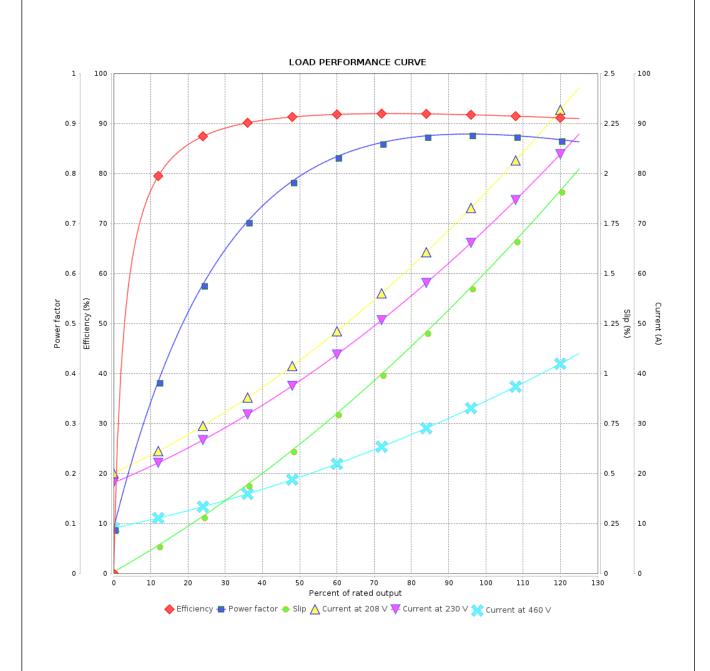
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11413120

Three-Phase



Performance	: 230/460 V 60 Hz 2P					
Rated current	: 68.4/34.2 A	Moment of	of inertia (J)	: 0.1419 kgm²		
LRC	: 6.3	Duty cycle		` ,		
Rated torque	: 6.14 kgfm	Insulation class		: F		
Locked rotor torque	: 200 %	Service factor		: 1.25		
Breakdown torque	: 250 %	Temperature rise		: 80 K		
Rated speed : 3545 rpm		Design		: B		
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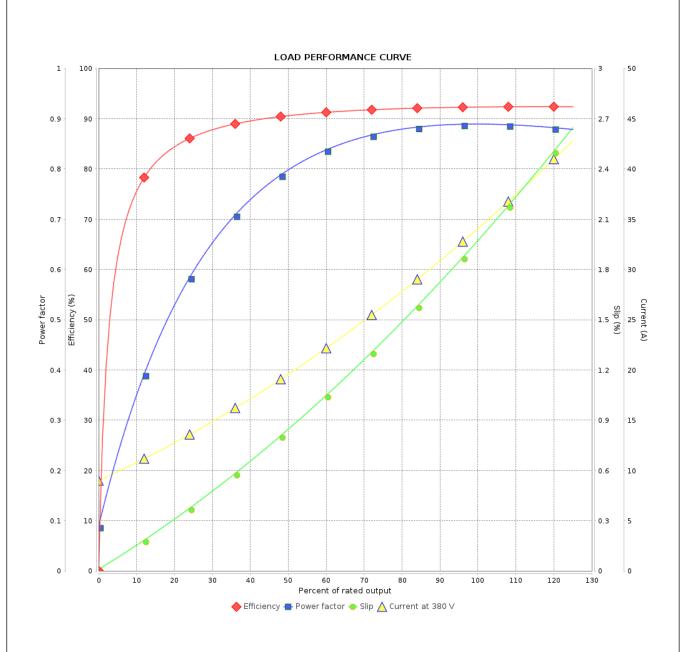


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11413120



				
Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.2 A : 5.9 : 6.17 kgfm : 190 % : 229 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1419 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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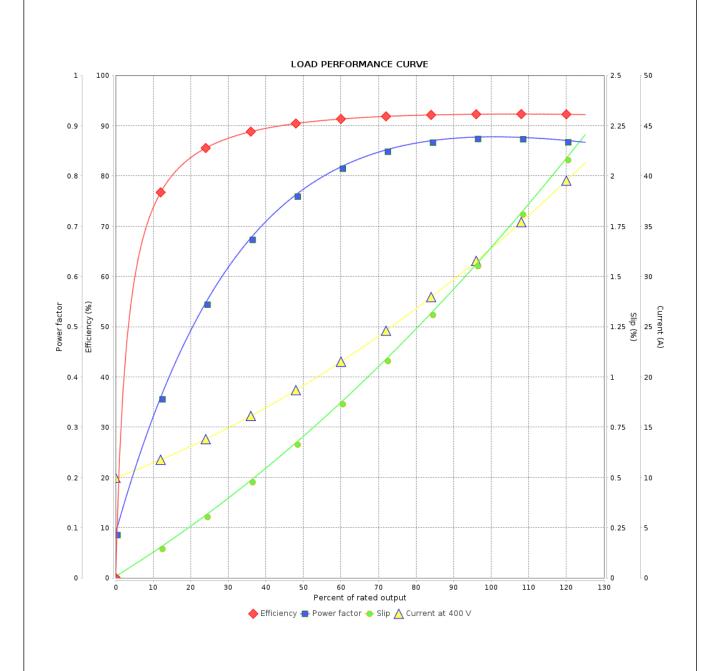


Customer

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Product line : W22 NEMA Premium Efficiency Product code: 11413120

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 32.8 A : 6.7 : 6.15 kgfm : 220 % : 270 % : 2950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1419 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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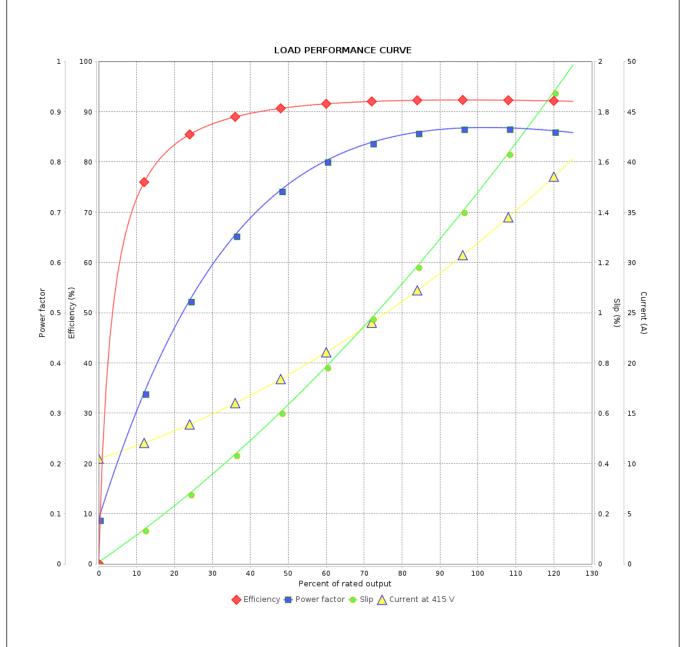


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11413120



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1419 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 2955 rpm	Design		: B	
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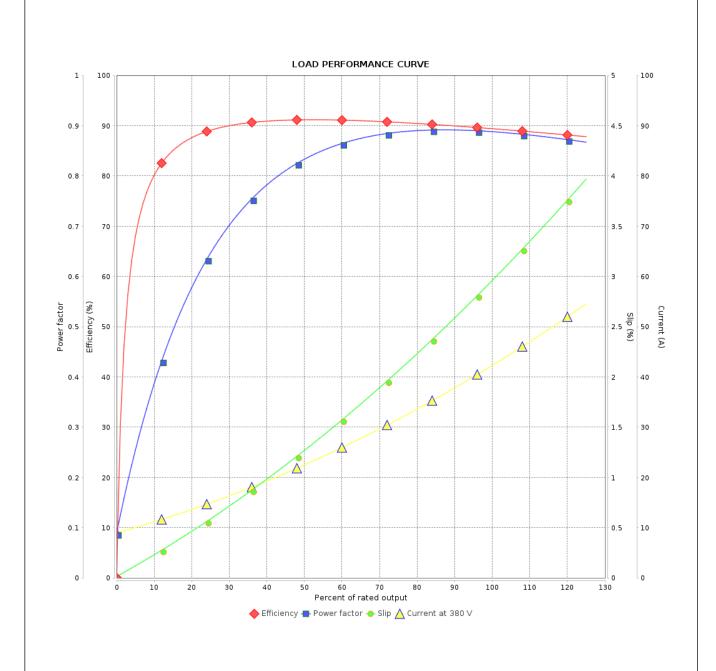


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Three-Phase



Performance	: 380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque	: 42.0 A : 4.9 : 7.48 kgfm : 160 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.1419 kgm² : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 200 % : 2910 rpm	Temperature rise Design		: 105 K : B	
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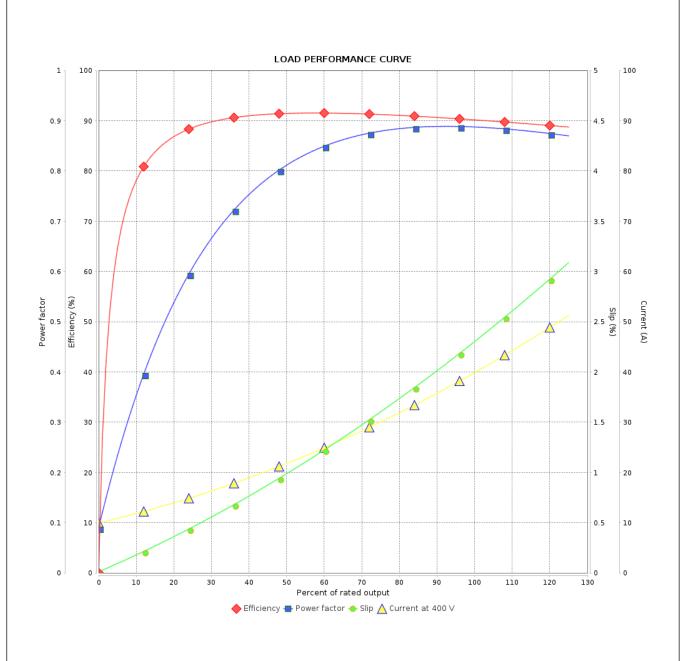
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Three-Phase

Product code: 11

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Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 39.6 A : 5.5 : 7.43 kgfm : 180 % : 220 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1419 kgm² : Cont.(S1) : F : 1.00 : 105 K	
Rated speed Rev.	: 2930 rpm Changes Summary	Design	Performed	: B Checked	Date
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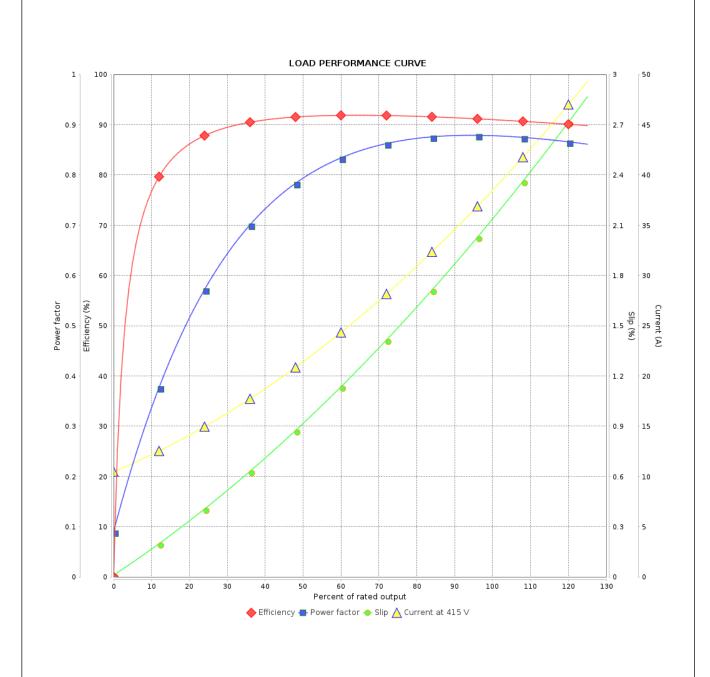
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Product line : W22 NEMA Premium Efficiency Product code : 11413120

Three-Phase



Performance	: 415 V 50 Hz 2P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 38.2 A : 6.0 : 7.42 kgfm : 190 % : 240 % : 2935 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1419 kgm² : Cont.(S1) : F : 1.00 : 105 K : B		
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