DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11166719 Cooling method Frame : 444/5T : 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. : 796 kg Protection degree : IP55 Moment of inertia (J) : 2.81 kgm² Design : B Output [HP] 150 125 125 125 150 150 150 Poles 4 4 4 4 4 4 4 60 50 50 50 50 Frequency [Hz] 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 205 Rated current [A] 340/170 170 163 159 194 189 L. R. Amperes [A] 2244/1122 1190 1127 1192 1189 1125 1191 LRC [A] 6.6x(Code 7.0x(Code 6.9x(Code | 7.5x(Code H) | 5.8x(Code F) | 5.8x(Code F) | 6.3x(Code G) G) G) G) No load current [A] 116/58.0 58.0 61.2 64.0 58.0 61.2 64.0 Rated speed [RPM] 1780 1480 1480 1480 1475 1475 1480 Slip [%] 1.11 1.33 1.33 1.33 1.67 1.67 1.33 Rated torque [kgfm] 61.2 61.3 61.3 61.3 73.8 73.8 73.6 Locked rotor torque [%] 200 190 220 229 160 180 190 Breakdown torque [%] 250 240 260 290 200 220 240 Service factor 1.15 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 32s (cold) Locked rotor time 48s (cold) 32s (cold) 32s (cold) 32s (cold) 32s (cold) 32s (cold) 27s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) Noise level² 73.0 dB(A) 69.0 dB(A) 69.0 dB(A) 69.0 dB(A) 69.0 dB(A) 69.0 dB(A) 69.0 dB(A) 25% 50% 95.4 95.1 95.1 94.8 95.4 95.4 95.4 Efficiency (%) 75% 95.8 95.5 95.5 95.5 95.4 95.4 95.4 100% 95.8 95.3 95.3 95.5 95.0 95.0 95.4 25% 50% 0.74 0.73 0.70 0.68 0.79 0.76 0.74 Power Factor 75% 0.82 0.83 0.81 0.79 0.85 0.83 0.82 100% 0.85 0.86 0.85 0.84 0.86 0.86 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.4 5.0 5.0 4.7 5.3 5.3 4.8 P2 (0,5;1,0) 3.7 3.4 3.9 3.9 4.1 4.1 3.8 P3 (0,25;1,0) 3.4 3.0 3.4 3.2 3.6 3.6 3.3 P4 (0,9;0,5) 2.7 2.4 2.7 2.5 2.8 2.8 2.6 Losses (%) P5 (0,5;0,5) 1.5 1.7 1.7 1.6 1.8 1.8 1.7 P6 (0,5;0,25) 1.1 1.2 1.2 1.1 1.2 1.3 1.3 P7 0.7 0.7 0.7 0.8 0.7 0.6 8.0 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type NU-319 C3 6316 C3 : 1146 kgf Max. traction WSeal WSeal Sealing Max. compression : 1942 kgf Lubrication interval 5000 h 10000 h Lubricant amount 45 q 34 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

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13/01/2024

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Checked by

Date

13/01/2024



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Customer	:			
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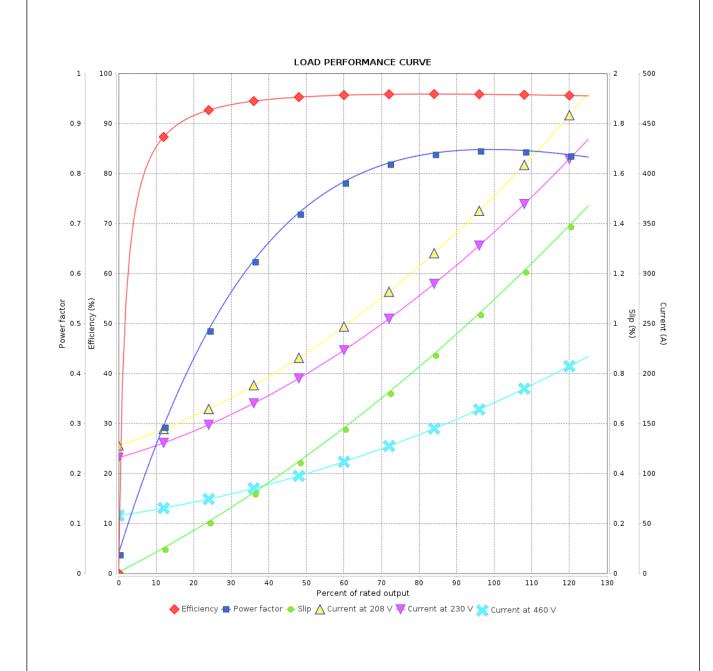


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Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

Phase



Performance	: 2	: 230/460 V 60 Hz 4P					
Rated current LRC Rated torque		340/170 A 5.6 51.2 kgfm	Duty cycle	Moment of inertia (J) Duty cycle Insulation class			
Locked rotor torque Breakdown torque Rated speed	e : 2 : 2	200 % 250 % 780 rpm	Service factor Temperature rise Design		: F : 1.15 : 80 K : B		
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Three Phase Induction Motor - Squirrel Cage



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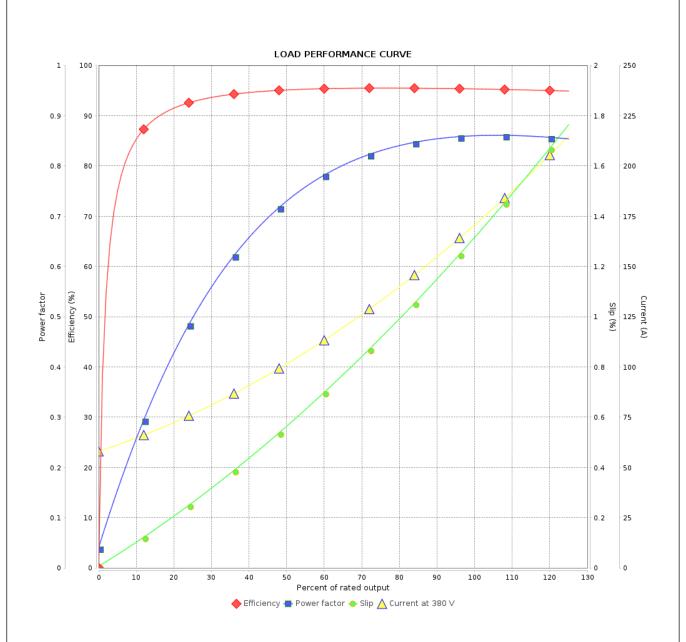
Product line : W22 NEMA Premium Efficiency Three-

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 170 A	Moment of inertia (J)		: 2.81 kgm²	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 61.3 kgfm	Insulation class		: F	
Locked rotor torque	: 190 %	Service factor		: 1.00	
Breakdown torque	: 240 %	% Temperature rise	ıre rise	: 80 K	
Rated speed	: 1480 rpm Design			: B	
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Three Phase Induction Motor - Squirrel Cage



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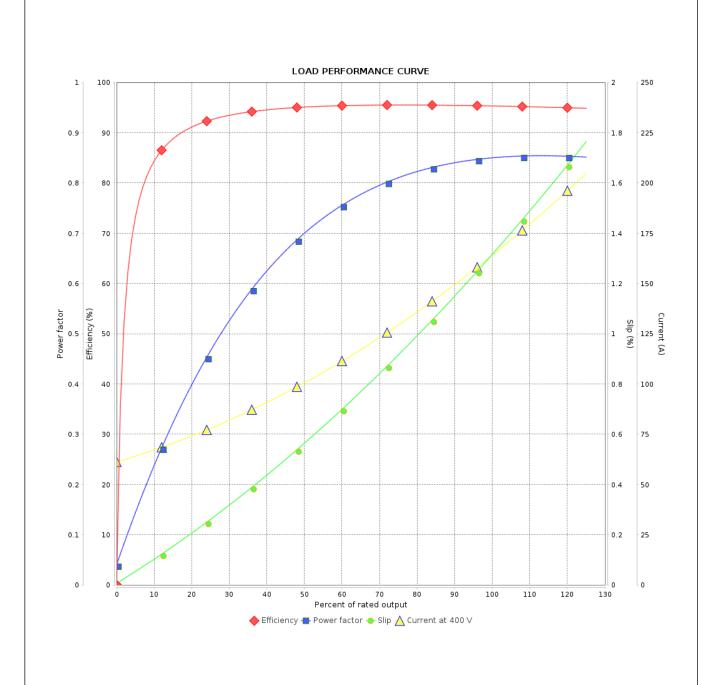
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Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 163 A : 6.9 : 61.3 kgfm : 220 % : 260 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.81 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Customer :

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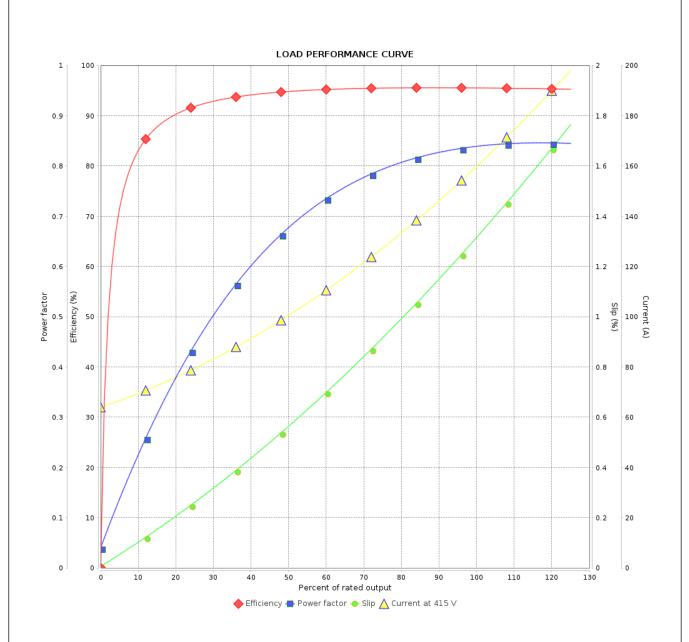
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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 159 A : 7.5 : 61.3 kgfm : 229 % : 290 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.81 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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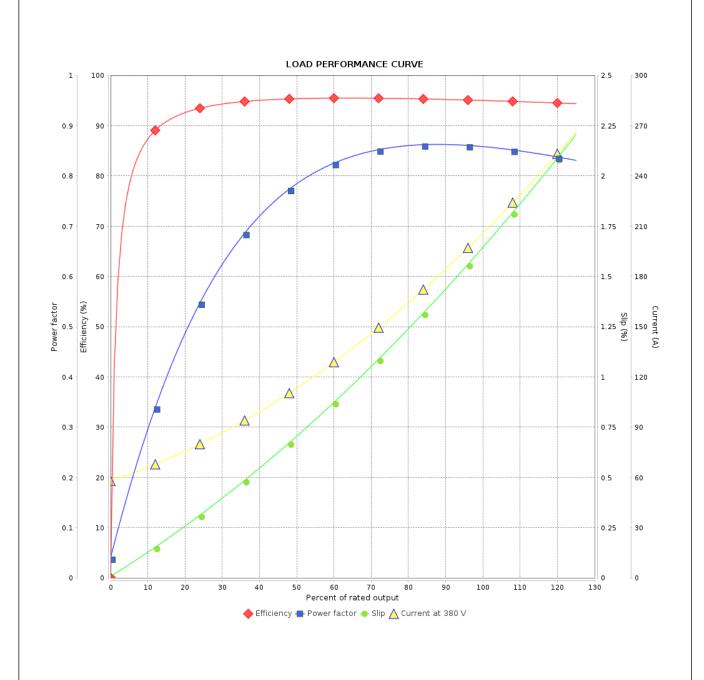
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Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

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Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 205 A : 5.8 : 73.8 kgfm : 160 % : 200 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.81 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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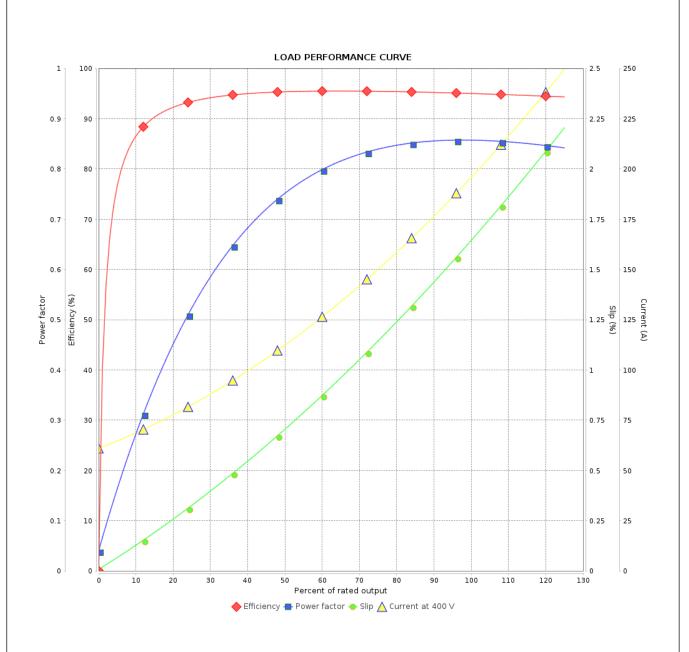


Customer :

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Phase

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Performance	: 400 V 50 Hz 4P IE2	T			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 194 A : 5.8 : 73.8 kgfm : 180 % : 220 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.81 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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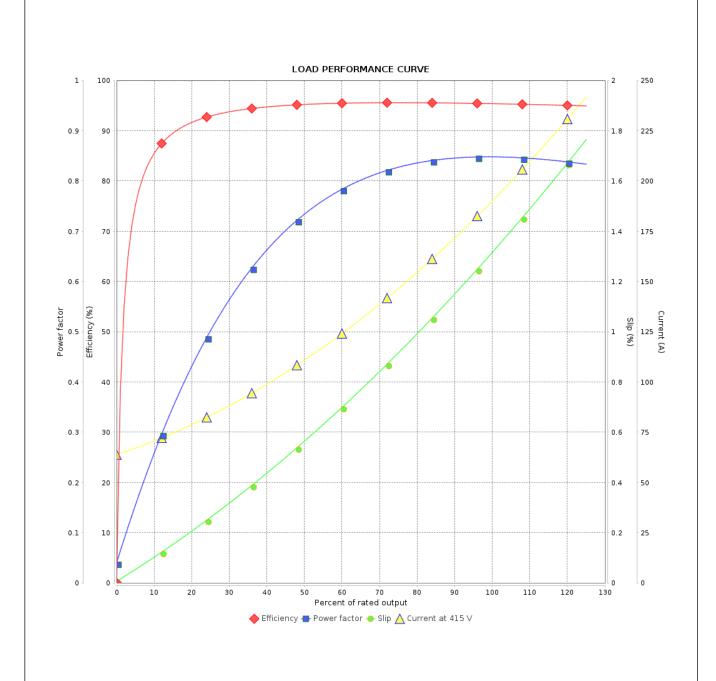
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Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 189 A : 6.3 : 73.6 kgfm : 190 % : 240 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.81 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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