DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11611349 Cooling method Frame : 504/5T : IC411 - TEFC Insulation class Mounting : F-1 : F 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. : 1090 kg Protection degree : IP55 Moment of inertia (J) : 5.63 kgm² Design : B Output [HP] 150 125 125 125 150 150 150 Poles 6 6 6 6 6 6 6 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 209 352/176 176 170 168 201 196 L. R. Amperes [A] 1045 2182/1091 1041 1103 1173 1106 1176 LRC [A] 6.2x(Code 5.9x(Code F) 6.5x(Code 7.0x(Code H)5.0x(Code E)5.5x(Code F) 6.0x(Code G) G) G) No load current [A] 74.0 74.0 150/75.0 80.0 85.2 80.0 85.2 Rated speed [RPM] 1190 985 990 990 985 990 990 Slip [%] 0.83 1.50 1.00 1.00 1.50 1.00 1.00 Rated torque [kgfm] 91.5 92.1 91.6 91.6 111 110 110 Locked rotor torque [%] 229 220 240 260 180 200 220 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 Locked rotor time 39s (cold) 52s (cold) 39s (cold) 39s (cold) 39s (cold) 39s (cold) 39s (cold) 29s (hot) 22s (hot) 22s (hot) 22s (hot) 22s (hot) 22s (hot) 22s (hot) Noise level² 70.0 dB(A) 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% 50% 94.5 94.4 93.9 93.9 95.0 94.5 94.5 Efficiency (%) 75% 95.4 95.1 94.9 94.9 95.0 95.0 95.0 100% 95.8 95.1 95.1 95.1 95.0 95.0 95.0 25% 50% 0.67 0.67 0.63 0.60 0.73 0.69 0.66 Power Factor 75% 0.78 0.79 0.76 0.73 0.82 0.80 0.78 100% 0.82 0.83 0.82 0.80 0.84 0.83 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.1 5.5 5.5 5.5 6.1 6.1 6.1 P2 (0,5;1,0) 4.3 3.8 4.3 4.3 4.8 4.8 4.8 P3 (0,25;1,0) 3.8 3.8 3.4 3.8 4.3 4.3 4.3 P4 (0,9;0,5) 2.9 3.1 3.1 3.1 3.4 3.4 3.4 Losses (%) P5 (0,5;0,5) 1.9 2.0 2.0 2.0 2.3 2.3 2.3 P6 (0,5;0,25) 1.4 1.5 1.5 1.7 1.7 1.7 1.5 P7 8.0 0.9 0.9 0.9 1.0 1.0 1.0 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6319 C3 6316 C3 : 1533 kgf Max. traction WSeal WSeal Sealing Max. compression : 2622 kgf Lubrication interval 13000 h 16000 h Lubricant amount 45 q 34 q Lubricant type Mobil Polyrex EM 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

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Three Phase Induction Motor - Squirrel Cage



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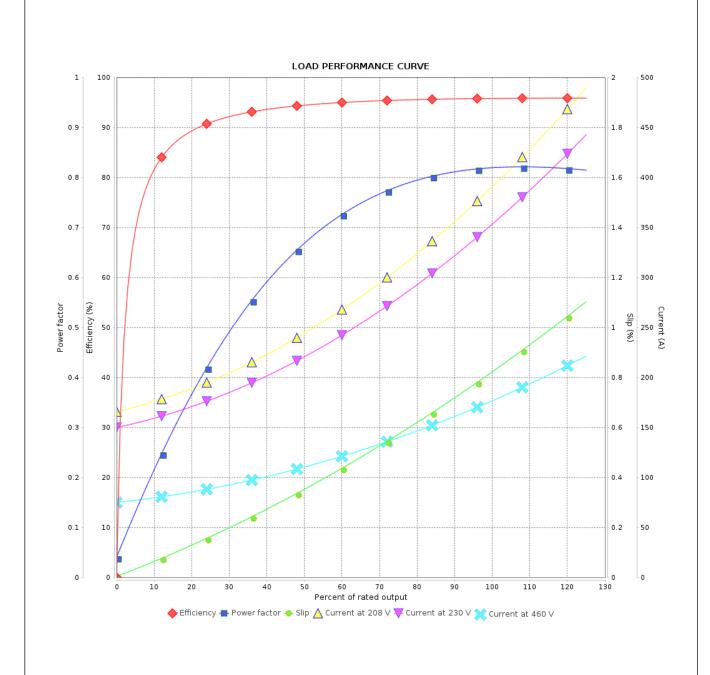
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Customer :

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

Phase

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Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 352/176 A : 6.2 : 91.5 kgfm : 229 % : 250 % : 1190 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.63 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

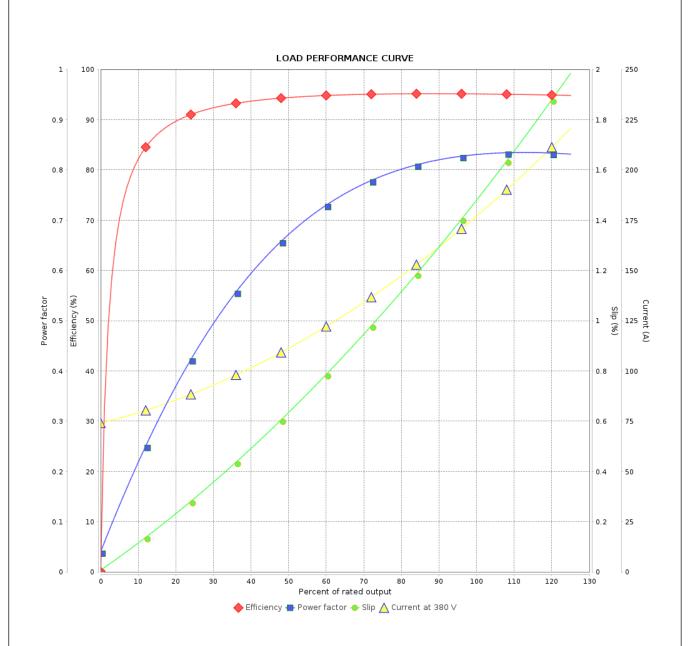
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 176 A : 5.9 : 92.1 kgfm : 220 % : 240 % : 985 rpm	5.9 Duty cycle 92.1 kgfm Insulation cla 220 % Service facto 240 % Temperature		e : Cont.(S1) n class : F actor : 1.00	
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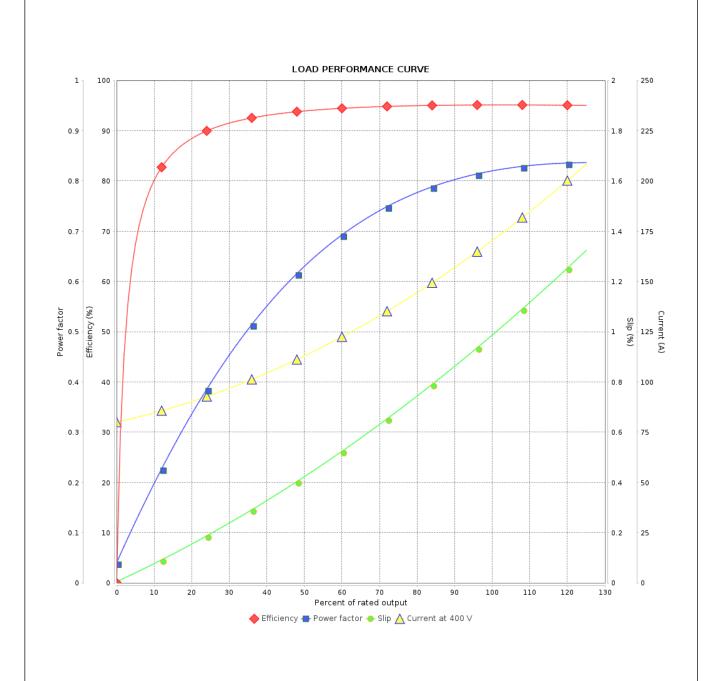
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Product line : W22 NEMA Premium Efficiency Three- Product code : 11611349

Phase



Performance	: 400 V 50 Hz 6P IE3				
Rated current : 170 A LRC : 6.5 Rated torque : 91.6 kgfm Locked rotor torque : 240 % Breakdown torque : 260 % Rated speed : 990 rpm		Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 5.63 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Customer :

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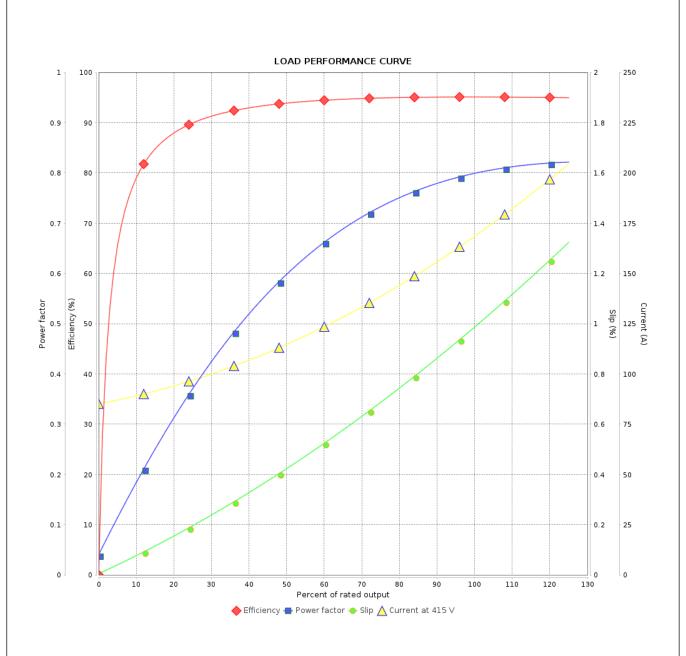
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Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 168 A	Moment of inertia (J)		: 5.63 kgm²	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 91.6 kgfm	Insulation of	class	: F	
Locked rotor torque	: 260 %	Service factor		: 1.00	
Breakdown torque	: 290 %	Temperature rise		: 80 K	
Rated speed	: 990 rpm	Design		: B	
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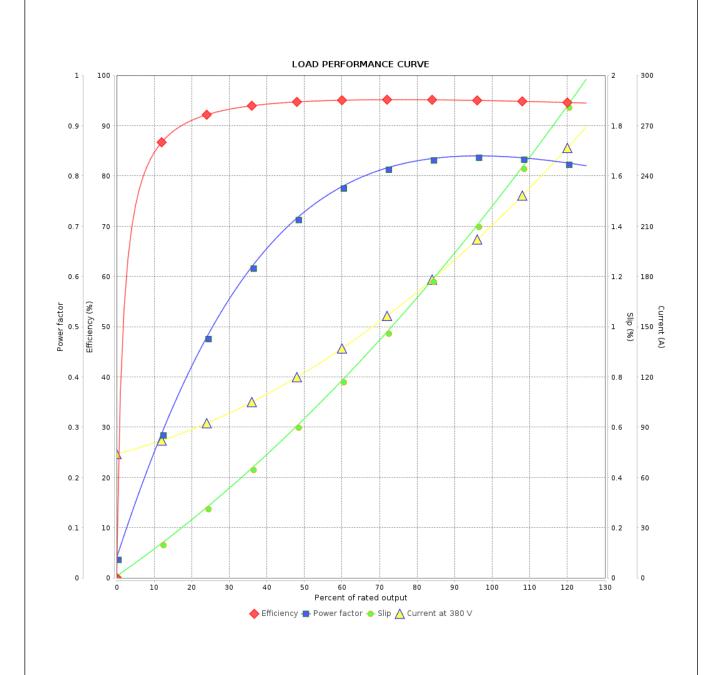


Customer :

Product line : W22 NEMA Premium Efficiency Three-

Phase

Product code: 11611349



Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 209 A : 5.0 : 111 kgfm : 180 % : 200 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.63 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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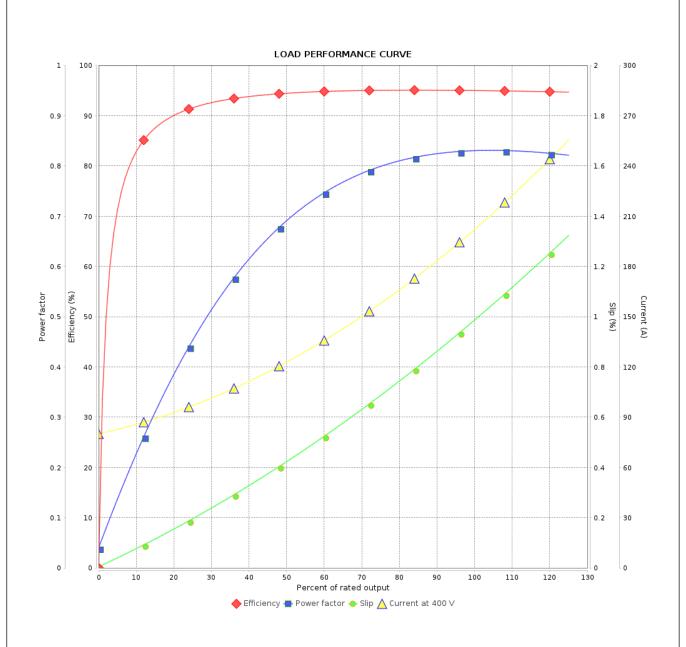
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Performance	: 400 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 201 A : 5.5 : 110 kgfm : 200 % : 220 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.63 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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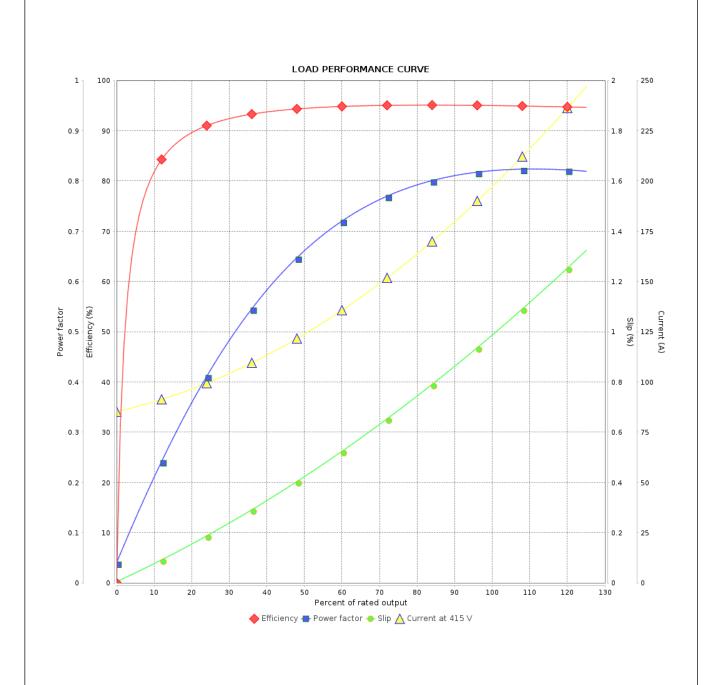


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Customer :

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

Phase



Performance	: 4	15 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed			Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 5.63 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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