DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11165470 Three-Phase : 364/5T 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 : 407 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.9189 kgm² Design : B Output [HP] 40 30 30 40 30 40 40 Poles 6 6 6 6 6 6 6 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 57.8 93.0/46.5 43.0 41.1 40.0 55.1 53.4 L. R. Amperes [A] 595/298 275 296 308 283 303 320 LRC [A] 6.4x(Code 6.4x(Code | 7.2x(Code H) | 7.7x(Code J) | 4.9x(Code E) | 5.5x(Code F) | 6.0x(Code G) G) G) No load current [A] 16.0 33.0/16.5 16.0 17.0 17.8 17.0 17.8 Rated speed [RPM] 1183 985 987 988 975 980 982 Slip [%] 1.42 1.50 1.30 1.20 2.50 2.00 1.80 Rated torque [kgfm] 24.5 22.1 22.1 22.0 29.8 29.6 29.6 Locked rotor torque [%] 200 210 240 270 160 180 200 Breakdown torque [%] 240 250 280 310 190 210 229 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 32s (cold) 32s (cold) 32s (cold) Locked rotor time 37s (cold) 32s (cold) 32s (cold) 32s (cold) 21s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) Noise level² 66.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 93.6 92.4 92.3 91.9 93.0 93.0 93.0 Efficiency (%) 75% 93.6 92.8 93.1 93.0 92.4 93.0 93.0 100% 94.1 92.5 93.0 93.2 91.7 92.4 93.0 25% 50% 0.73 0.68 0.66 0.63 0.78 0.76 0.73 Power Factor 75% 0.82 0.80 0.79 0.76 0.84 0.83 0.82 100% 0.86 0.84 0.83 0.82 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.1 6.1 6.1 6.1 6.1 6.1 6.1 P2 (0,5;1,0) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 P3 (0,25;1,0) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 1.1 1.1 1.1 P7 8.0 8.0 0.8 0.8 8.0 8.0 8.0 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 560 kgf Max. traction Sealing WSeal WSeal Max. compression : 967 kgf Lubrication interval 17000 h 17000 h Lubricant amount 27 g 27 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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Date

21/10/2024



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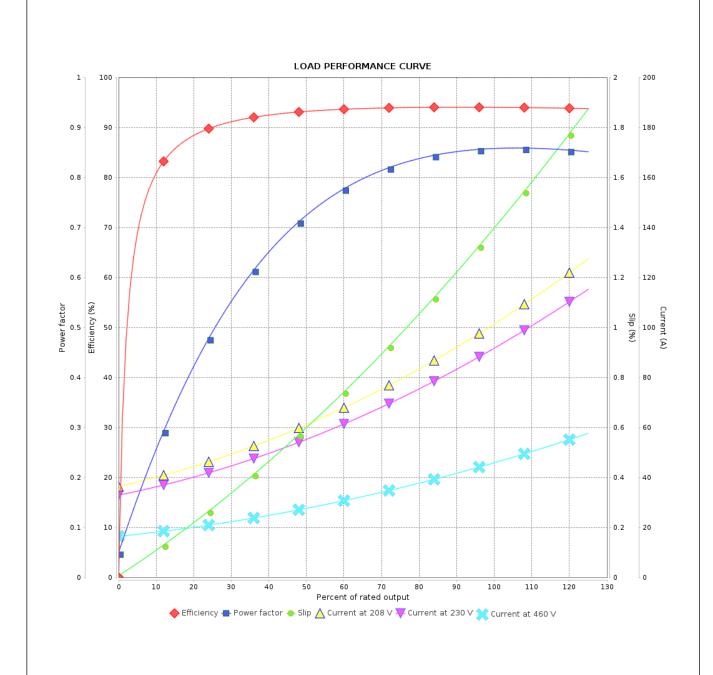
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11165470

Three-Phase



Performance	: 23	30/460 V 60 Hz 6P				
Rated current : 9		3.0/46.5 A	Moment of	Moment of inertia (J)		!
LRC	: 6	.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 24	4.5 kgfm	Insulation class		: F	
Locked rotor torqu	ue : 20	00 %	Service fa	Service factor		
Breakdown torque	e : 24	40 %	Temperature rise		: 80 K	
Rated speed	: 1	183 rpm	Design		: B	
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Product line : W22 NEMA Premium Efficiency

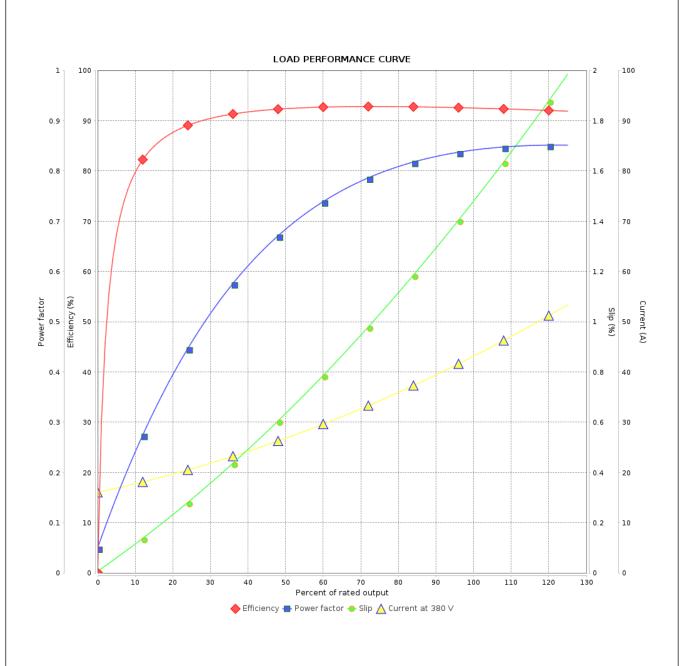
Three-Phase

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Performance	: 3	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 jue : 2	3.0 A 6.4 2.1 kgfm 110 % 150 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.9189 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



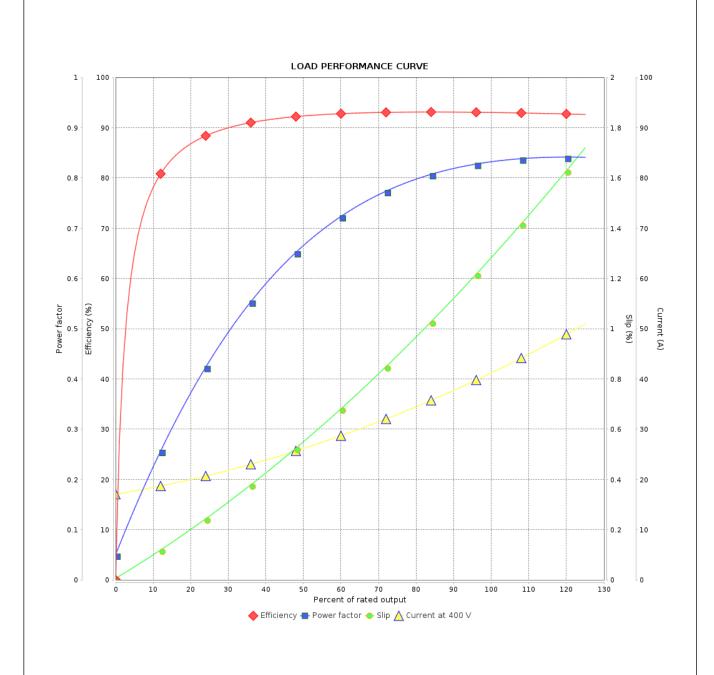
Customer :

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Product line : W22 NEMA Premium Efficiency Product code : 11165470

Three-Phase



Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 41.1 A	Moment of inertia (J)		: 0.9189 kgm²	
LRC	: 7.2	Duty cycle		: Cont.(S1)	
Rated torque	: 22.1 kgfm	Insulation class		:F	
Locked rotor torque	: 240 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 987 rpm	Design		: B	
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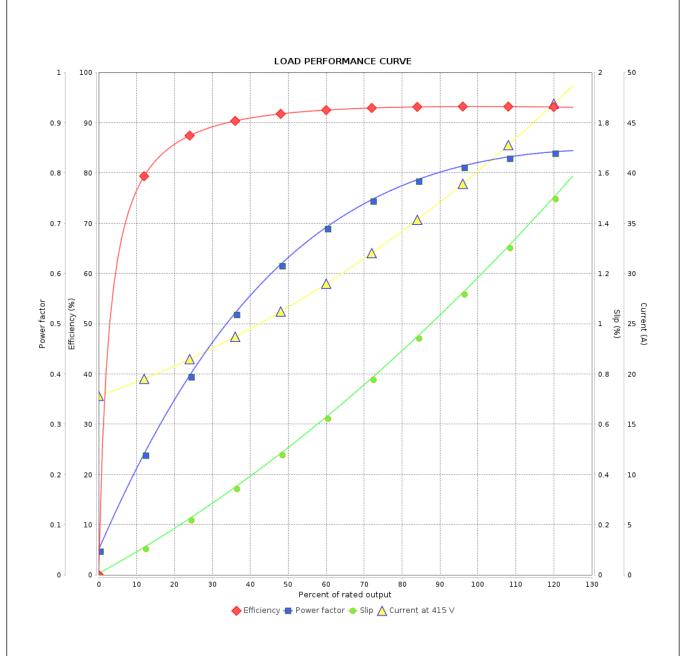
Three-Phase

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Performance	: 4	415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ::	40.0 A 7.7 22.0 kgfm 270 % 310 % 988 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.9189 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

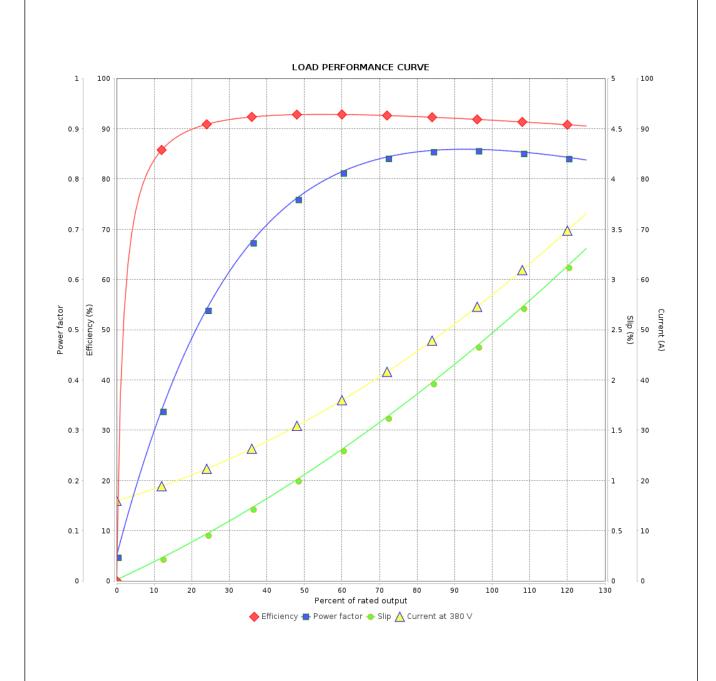


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Three-Phase



Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.8 A : 4.9 : 29.8 kgfm : 160 % : 190 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9189 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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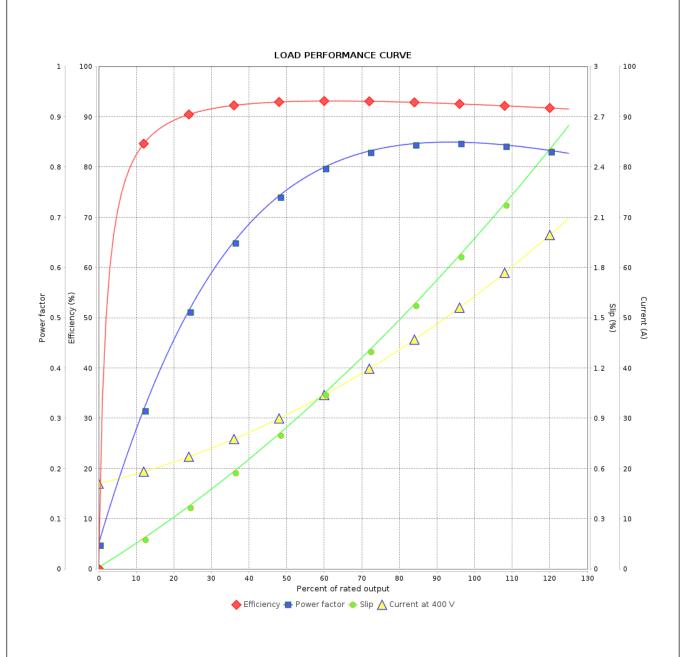


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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165470



							
Performance	: 400 V 50 Hz 6P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 55.1 A : 5.5 : 29.6 kgfm : 180 % : 210 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.9189 kgm² : Cont.(S1) : F : 1.00 : 80 K : B				
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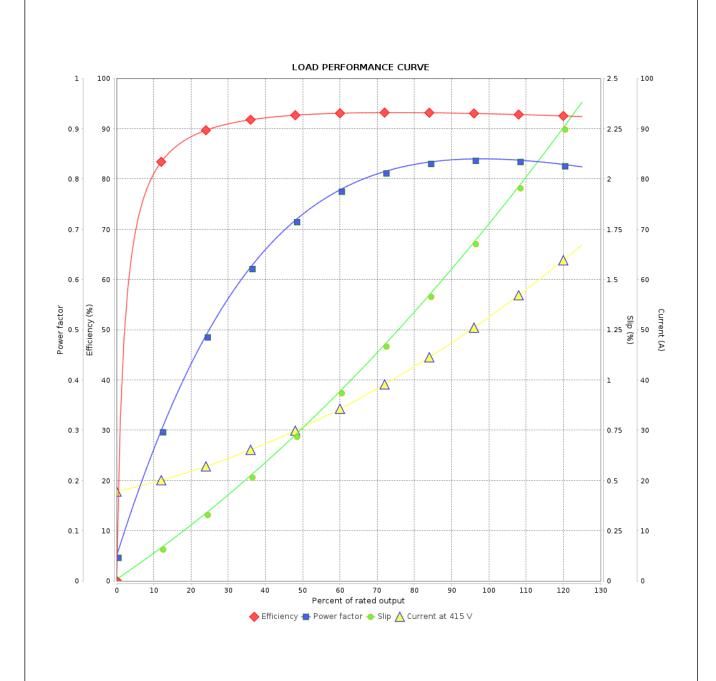
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Three-Phase



Performance	: 41	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 6.0 : 29 que : 20 ue : 22	3.4 A 0 0.6 kgfm 00 % 29 % 32 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.9189 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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