DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11529716 Three-Phase : 364/5TS 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. : 389 kg Protection degree : IP55 Moment of inertia (J) : 0.5023 kgm² Design : B Output [HP] 75 60 60 60 75 75 75 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 100 164/81.9 80.8 78.5 75.7 94.8 91.4 L. R. Amperes [A] 1097/549 520 525 557 598 559 594 LRC [A] 6.7x(Code 6.5x(Code | 7.1x(Code H) | 7.9x(Code J) | 5.2x(Code E) | 5.9x(Code F) | 6.5x(Code G) G) G) No load current [A] 20.0 36.0/18.0 19.0 21.5 19.0 20.0 21.5 Rated speed [RPM] 3555 2955 2960 2965 2930 2945 2950 Slip [%] 1.25 1.50 1.33 1.17 2.33 1.83 1.67 Rated torque [kgfm] 15.3 14.7 14.7 14.7 18.6 18.5 18.5 Locked rotor torque [%] 200 210 229 250 160 175 190 Breakdown torque [%] 250 260 390 310 200 220 240 Service factor 1.25 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 12s (cold) Locked rotor time 18s (cold) 39s (cold) 39s (cold) 37s (cold) 12s (cold) 12s (cold) 7s (hot) 7s (hot) 7s (hot) 10s (hot) 22s (hot) 22s (hot) 21s (hot) Noise level² 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 25% 50% 92.4 91.2 91.5 91.8 92.4 92.4 93.0 Efficiency (%) 75% 93.6 92.5 93.0 93.1 93.0 93.0 93.6 100% 93.6 94.0 94.0 94.0 92.4 93.0 93.0 25% 50% 0.83 0.75 0.72 0.70 0.86 0.84 0.83 Power Factor 75% 0.88 0.85 0.83 0.82 0.89 0.89 0.88 100% 0.90 0.90 0.88 0.88 0.90 0.90 0.90 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.4 6.4 6.4 6.4 6.4 6.4 6.4 P2 (0,5;1,0) 4.8 4.8 4.8 4.8 4.8 4.8 4.8 P3 (0,25;1,0) 4.5 4.5 4.5 4.5 4.5 4.5 4.5 P4 (0,9;0,5) 3.2 3.2 3.2 3.2 3.2 3.2 3.2 Losses (%) P5 (0,5;0,5) 1.8 1.8 1.8 1.8 1.8 1.8 1.8 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 1.1 1.1 1.1 P7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 302 kgf Max. traction Sealing WSeal WSeal Max. compression : 692 kgf Lubrication interval 4000 h 4000 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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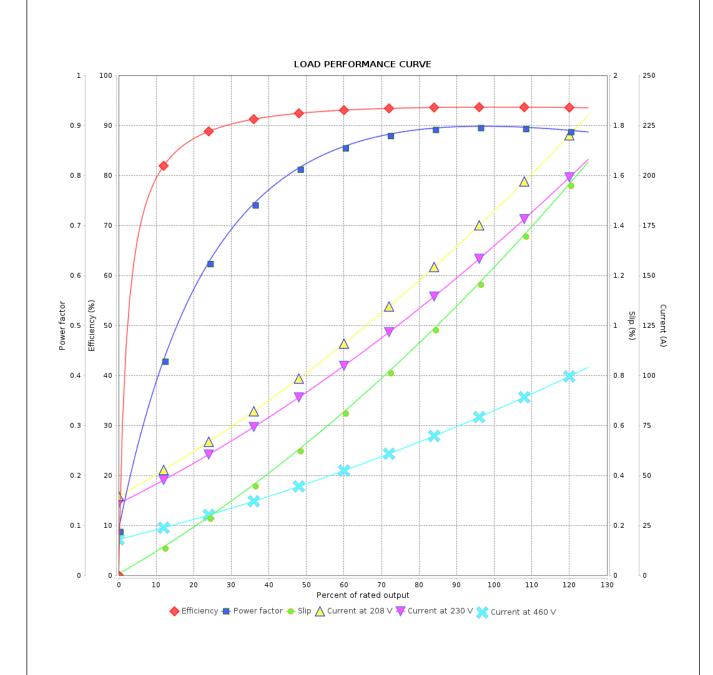
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11529716

Three-Phase



Performance	Performance : 230/460 V 60 Hz 2P					
Rated current	: '	164/81.9 A	Moment of inertia (J)		: 0.5023 kgm²	
LRC	: 6	6.7	Duty cycle		: Cont.(S1)	
Rated torque	: '	15.3 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 2	200 %	Service fa	ctor	: 1.25	
Breakdown torque	e :2	250 %	Temperati	Temperature rise		
Rated speed	: 3	3555 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

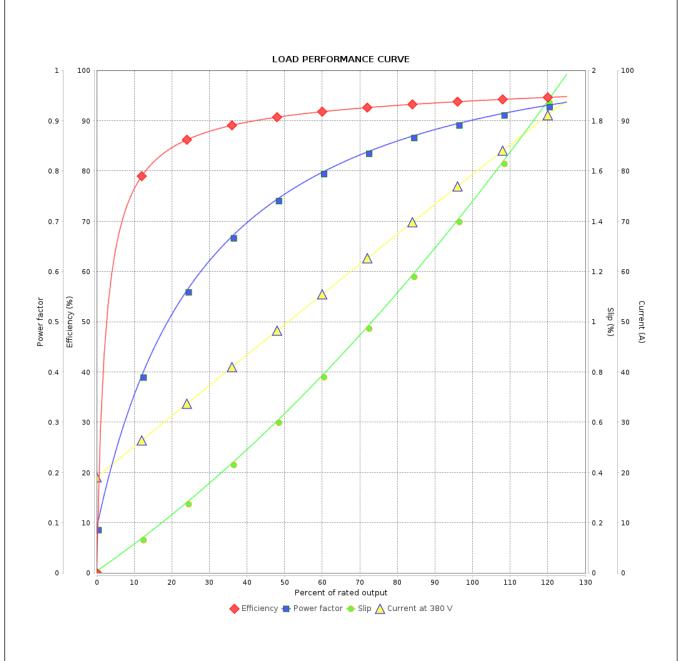


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11529716



Performance	: 380 V 50 Hz 2P IE3				
Rated current	: 80.8 A	Moment of inertia (J)		: 0.5023 kgm²	
LRC	: 6.5	Duty cycle	•	: Cont.(S1)	
Rated torque	: 14.7 kgfm	Insulation	class	:F	
Locked rotor torque	: 210 %	Service factor Temperature rise		: 1.00 : 80 K	
Breakdown torque	: 260 %				
Rated speed	: 2955 rpm	Design		: B	
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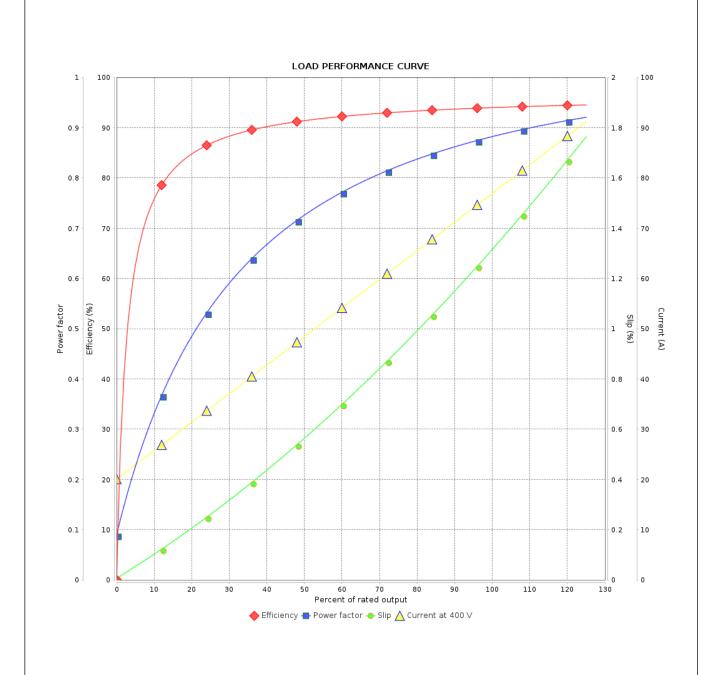
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase



Performance		: 400 V 50 Hz 2P IE	Ξ3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 78.5 A : 7.1 : 14.7 kgfm : 229 % : 390 % : 2960 rpm	1 1 5	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5023 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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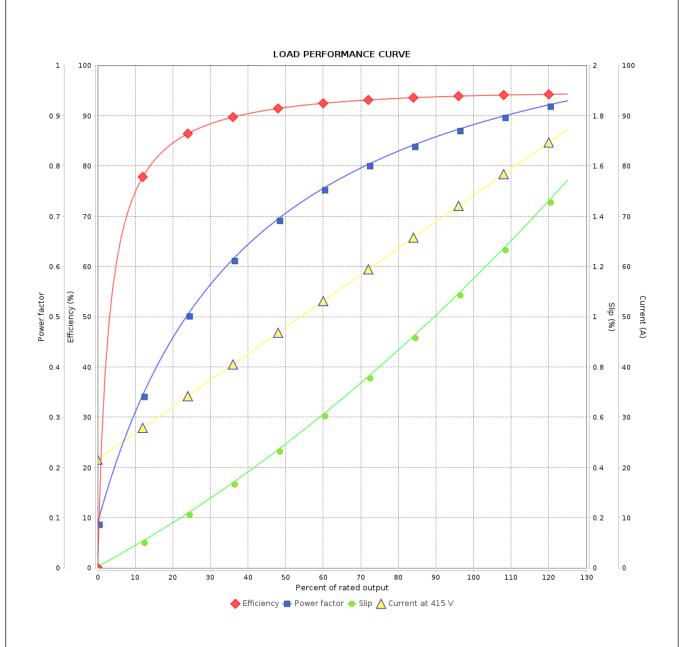
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11529716



Performance : 415 V 50 Hz 2P IE3 : 75.7 A : 0.5023 kgm² Rated current Moment of inertia (J) **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 14.7 kgfm : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2965 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



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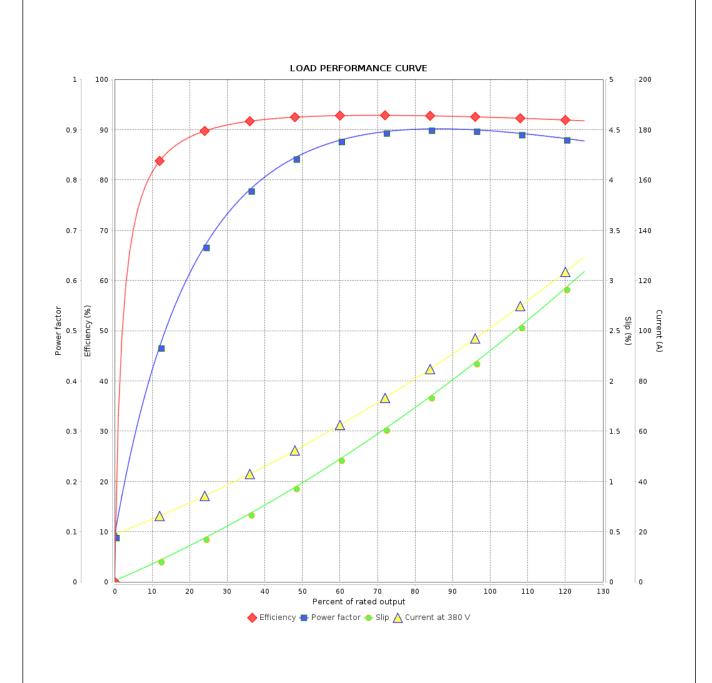
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Product line : W22 NEMA Premium Efficiency Product code : 11529716

Three-Phase



Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 100 A : 5.2 : 18.6 kgfm : 160 % : 200 % : 2930 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.5023 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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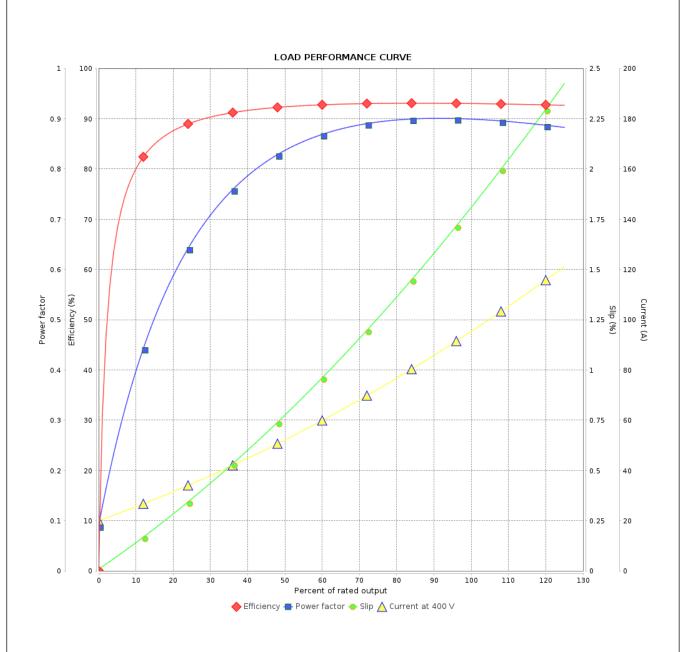
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 1

11529716



Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 94.8 A : 5.9 : 18.5 kgfm : 175 % : 220 % : 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5023 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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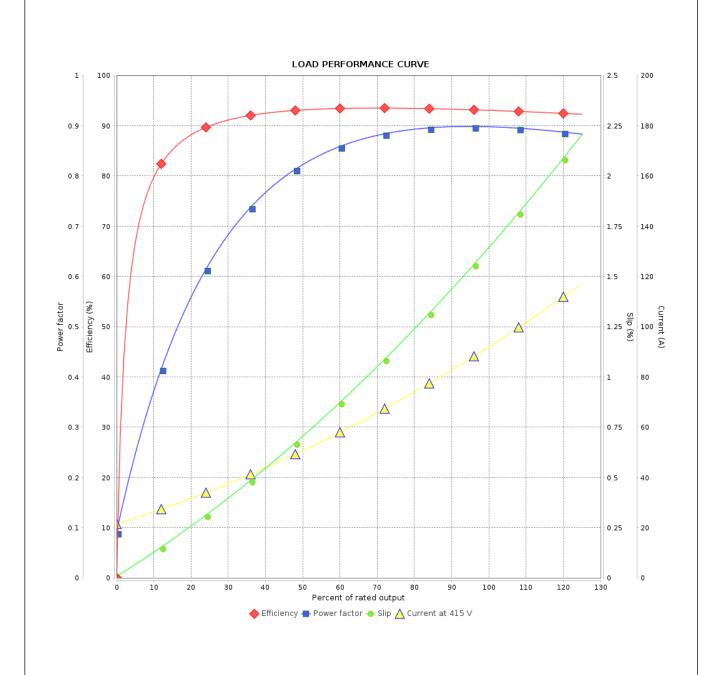
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Product line : W22 NEMA Premium Efficiency Product code : 11529716

Three-Phase



	,					
Performance	: 4	15 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1/ que : 1! ue : 2/	1.4 A .5 8.5 kgfm 90 % 40 % 950 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.5023 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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