DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 13014332 Three-Phase : 213/5TD Cooling method Frame : IC411 - TEFC Insulation class Mounting : 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. : 80.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0268 kgm² Design : B Output [HP] 10 10 7.5 7.5 7.5 10 10 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 14.2 23.2/11.6 10.5 10.1 9.91 13.6 13.1 L. R. Amperes [A] 167/83.5 82.9 87.7 90.2 79.2 87.0 90.4 LRC [A] 7.2x(Code H) 7.9x(Code J) 8.7x(Code K) 9.1x(Code K) 5.6x(Code F) 6.4x(Code 6.9x(Code H) G) No load current [A] 7.00/3.50 3.50 3.70 3.90 3.50 3.70 3.90 Rated speed [RPM] 3530 2935 2945 2945 2910 2920 2925 Slip [%] 1.94 2.17 1.83 1.83 3.00 2.67 2.50 Rated torque [kgfm] 2.06 1.85 1.85 1.85 2.49 2.49 2.48 Locked rotor torque [%] 220 220 240 260 170 180 200 Breakdown torque [%] 290 300 340 360 220 250 270 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 19s (cold) Locked rotor time 27s (cold) 30s (cold) 25s (cold) 27s (cold) 21s (cold) 19s (cold) 15s (hot) 17s (hot) 14s (hot) 15s (hot) 12s (hot) 11s (hot) 11s (hot) Noise level² 68.0 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% 89.5 88.6 88.4 87.7 89.5 89.5 89.5 Efficiency (%) 75% 90.2 89.6 89.6 89.5 89.5 89.5 89.5 100% 90.2 89.5 89.5 89.8 88.5 88.5 88.5 25% 50% 0.79 0.75 0.72 0.70 0.83 0.81 0.79 Power Factor 75% 0.87 0.86 0.83 0.82 0.90 0.88 0.87 100% 0.90 0.89 0.88 0.86 0.91 0.90 0.90 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.6 11.5 12.7 12.7 11.5 11.1 12.7 P2 (0,5;1,0) 8.9 9.6 9.6 9.3 10.6 10.6 10.6 P3 (0,25;1,0) 8.2 8.8 8.8 8.5 9.8 9.8 9.8 P4 (0,9;0,5) 5.1 5.5 5.5 5.3 6.1 6.1 6.1 Losses (%) P5 (0,5;0,5) 3.3 3.5 3.5 3.4 3.9 3.9 3.9 P6 (0,5;0,25) 2.0 2.2 2.2 2.1 2.4 2.4 2.4 P7 1.4 1.4 1.3 1.5 1.5 1.3 1.5 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ : 84 kgf Max. traction Sealing V'Ring : 164 kgf V'Ring Max. compression Lubrication interval Lubricant amount 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 20/10/2024 1/9 Date

DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			ШЕЦ
Customer	:			
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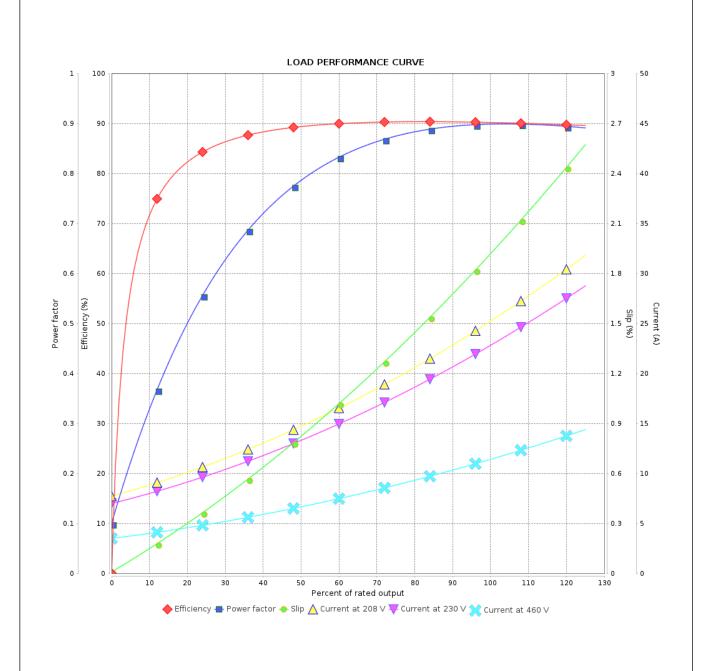
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 13014332

Three-Phase



Performance		: 230/460 V 60 Hz 2P				
Rated current		: 23.2/11.6 A	Moment of inertia (J)		: 0.0268 kgm²	
LRC		: 7.2	Duty cycle		: Cont.(S1)	
Rated torque		: 2.06 kgfm	Insulation	class	: F	
Locked rotor tord	que	: 220 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie	: 290 %	Temperat	ure rise	: 80 K	
Rated speed		: 3530 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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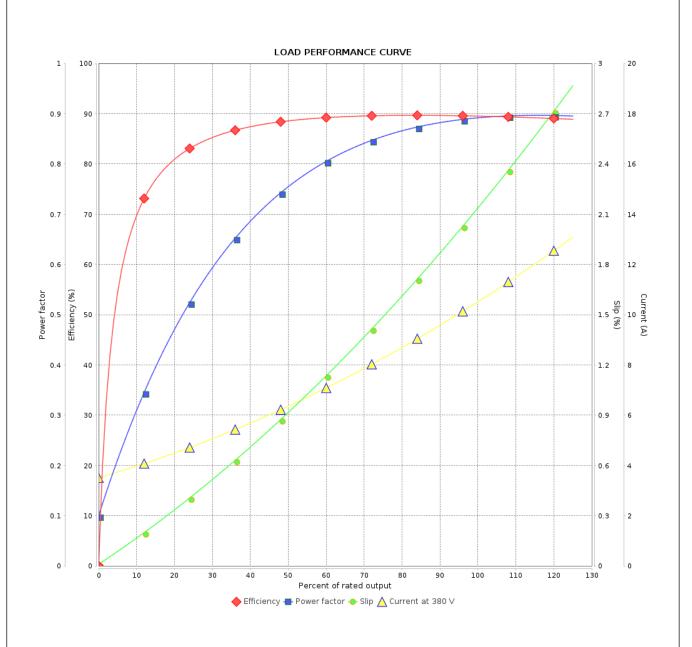
Date

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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 13014332



Performance : 380 V 50 Hz 2P IE3 : 10.5 A : 0.0268 kgm² Rated current Moment of inertia (J) **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.85 kgfm : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2935 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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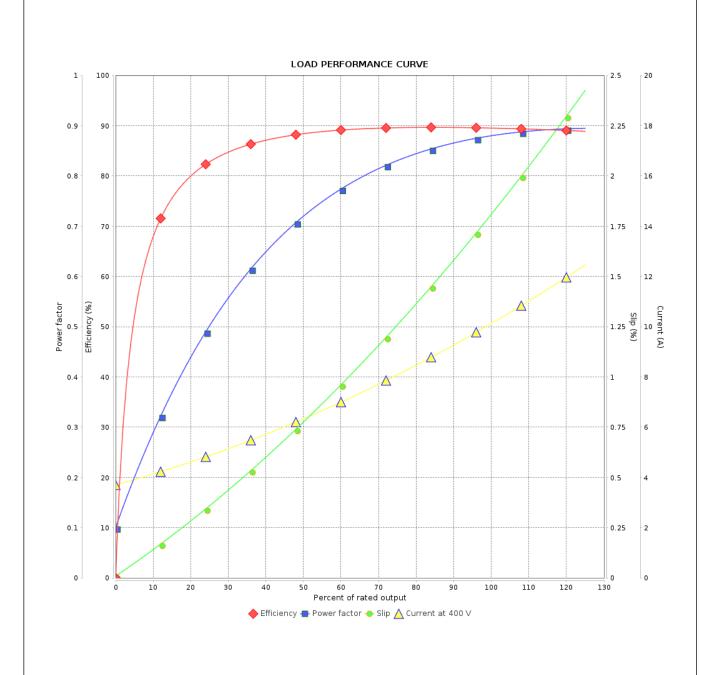
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Date

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Product line : W22 NEMA Premium Efficiency Product code : 13014332

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.1 A : 8.7 : 1.85 kgfm : 240 % : 340 % : 2945 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0268 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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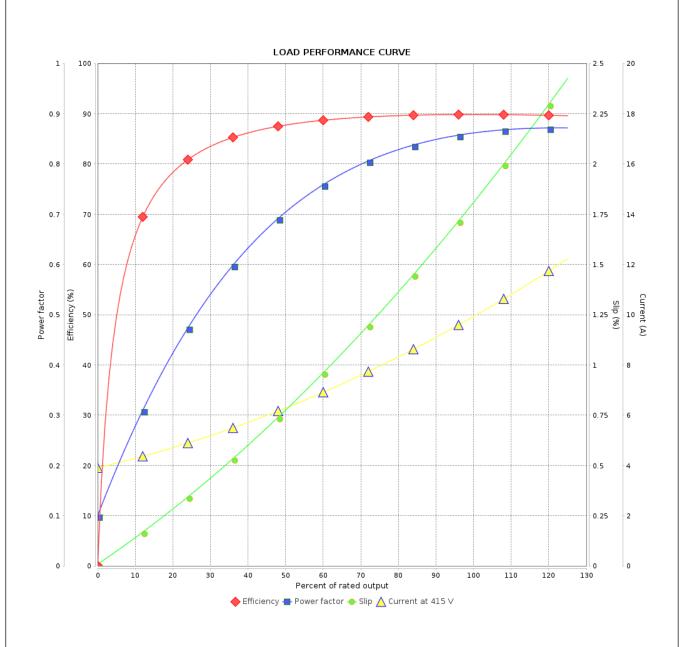
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 13014332



Performance : 415 V 50 Hz 2P IE3 : 0.0268 kgm² Rated current : 9.91 A Moment of inertia (J) **LRC** : 9.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.85 kgfm : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2945 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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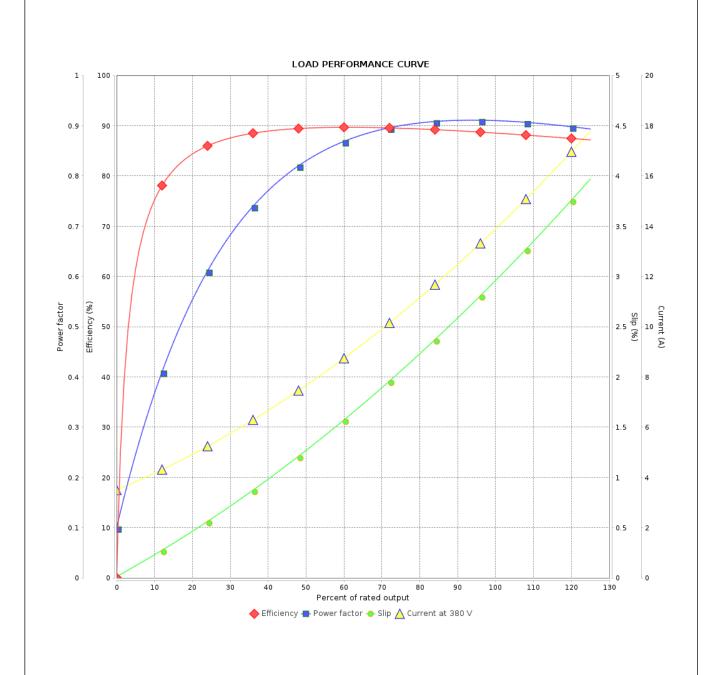
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Product line : W22 NEMA Premium Efficiency Product code : 13014332

Three-Phase



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.2 A : 5.6 : 2.49 kgfm : 170 % : 220 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



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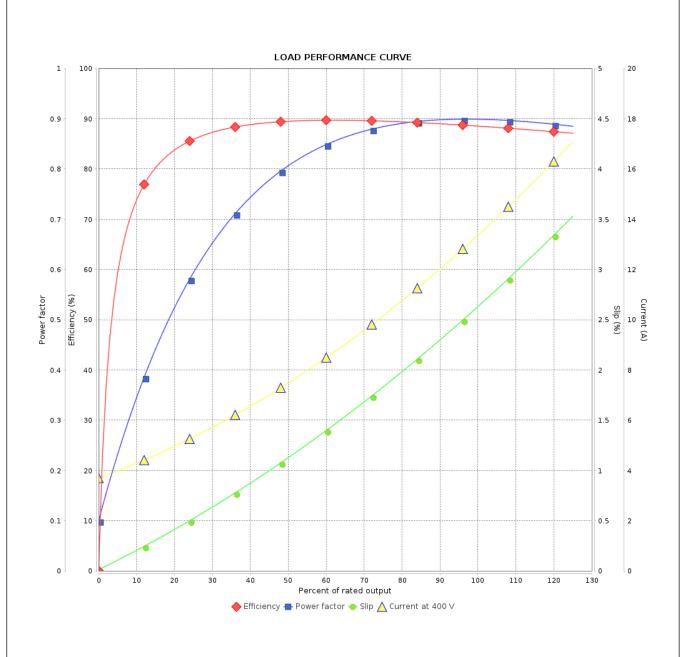
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 13

13014332

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.6 A : 6.4 : 2.49 kgfm : 180 % : 250 % : 2920 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



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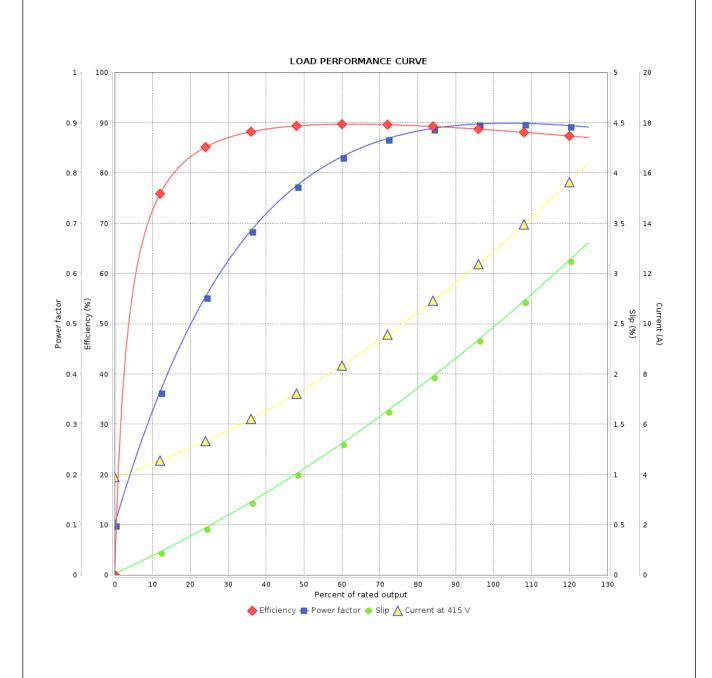
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Product line : W22 NEMA Premium Efficiency Product code : 13014332

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.1 A : 6.9 : 2.48 kgfm : 200 % : 270 % : 2925 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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