DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 13014332 Cooling method Frame : 213/5TD : 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. : 83.3 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 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 23.2/11.6 10.4 10.1 9.91 14.1 13.4 13.1 82.2 L. R. Amperes [A] 167/83.5 87.9 90.2 79.0 85.8 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] 7.20/3.60 3.50 3.70 3.90 3.50 3.70 3.90 Rated speed [RPM] 3530 2940 2945 2950 2900 2915 2925 Slip [%] 1.94 2.00 1.83 1.67 3.33 2.83 2.50 Rated torque [kgfm] 2.06 1.85 1.85 1.85 2.50 2.49 2.48 Locked rotor torque [%] 220 240 270 290 170 200 220 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 21s (cold) Locked rotor time 32s (cold) 32s (cold) 32s (cold) 32s (cold) 21s (cold) 21s (cold) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 12s (hot) 12s (hot) 12s (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 0.87 0.88 100% 0.90 0.90 0.88 0.86 0.91 0.91 0.90 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.7 10.7 10.7 10.7 10.7 10.7 10.7 P2 (0,5;1,0) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 P3 (0,25;1,0) 7.8 7.8 7.8 7.8 7.8 7.8 7.8 P4 (0,9;0,5) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 Losses (%) P5 (0,5;0,5) 3.3 3.3 3.3 3.3 3.3 3.3 3.3 P6 (0,5;0,25) 2.1 2.1 2.1 2.1 2.1 2.1 2.1 P7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ : 82 kgf Max. traction V'Ring V'Ring Sealing Max. compression : 165 kgf 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

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06/02/2024

DATA SHEET



Three Phase In		ШЕЦ		
Customer	:			
Notes	SE 1 15 SEA 20 5A			
USABLE @208V 25.7A	SF 1.15 SFA 29.5A			
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Three Phase Induction Motor - Squirrel Cage

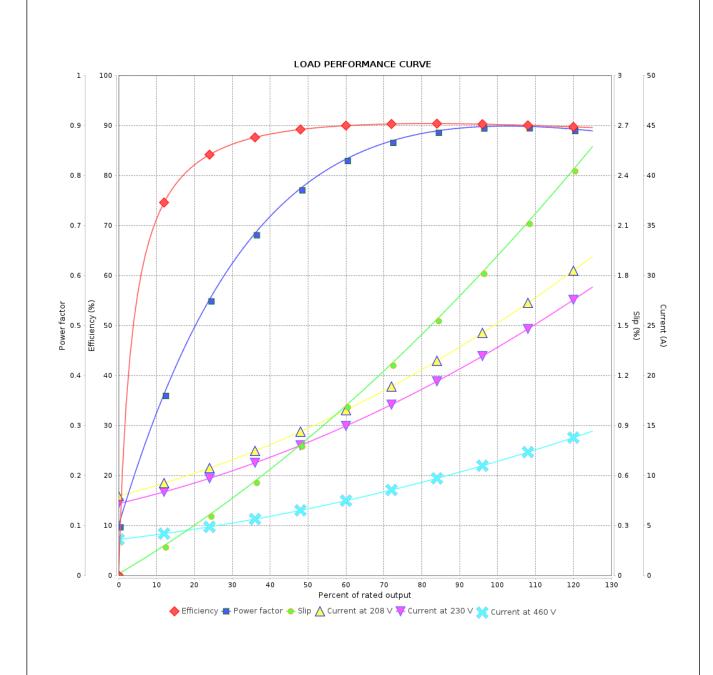


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Customer :

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

Phase



Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 2:	: 23.2/11.6 A Moment of inertia		f inertia (J)	: 0.0268 kgm²	
LRC	: 7	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	.06 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 2:	20 %	Service fa	ctor	: 1.25	
Breakdown torque	: 29	90 %	0 % Temperature rise		: 80 K	
Rated speed	: 3	530 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

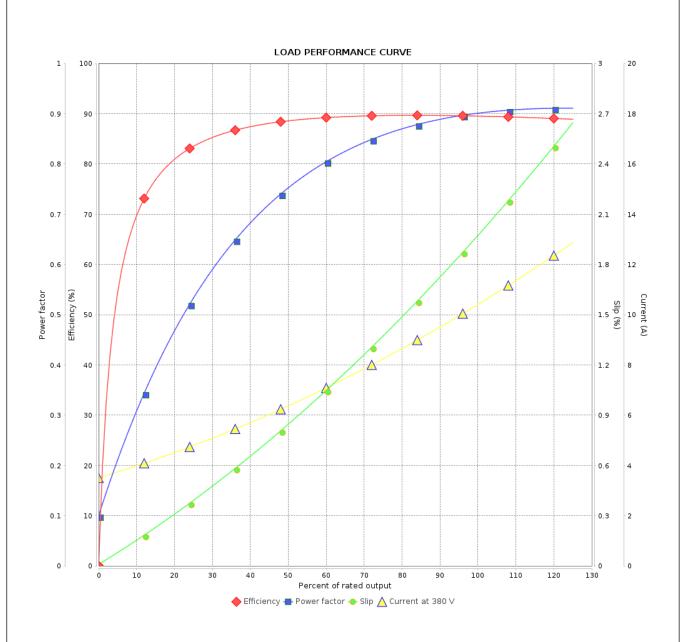
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Performance	: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	ted current : 10.4 A Moment of inertia (J) CC : 7.9 Duty cycle ated torque : 1.85 kgfm Insulation class cked rotor torque : 240 % Service factor eakdown torque : 300 % Temperature rise		: 7.9 Duty cycle brque : 1.85 kgfm Insulation class rotor torque : 240 % Service factor wn torque : 300 % Temperature r		class ctor	: 0.0268 kgm² : Cont.(S1) : F : 1.25 : 80 K	2
Rated speed Rev.	: 2940 rpm Changes Summary	Design	Performed	: B Checked	Date		
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Three Phase Induction Motor - Squirrel Cage



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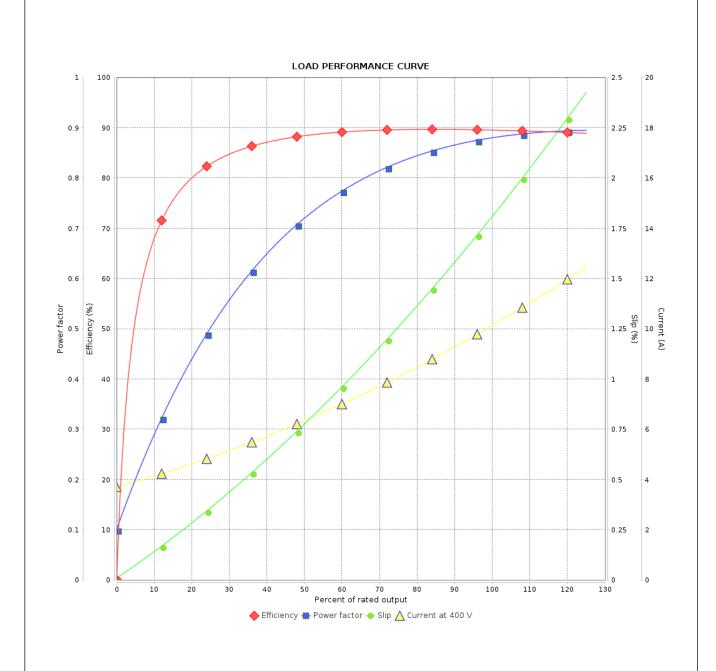
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Customer :

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

Phase

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Performance	ormance : 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 : 270 % : 340 % : 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0268 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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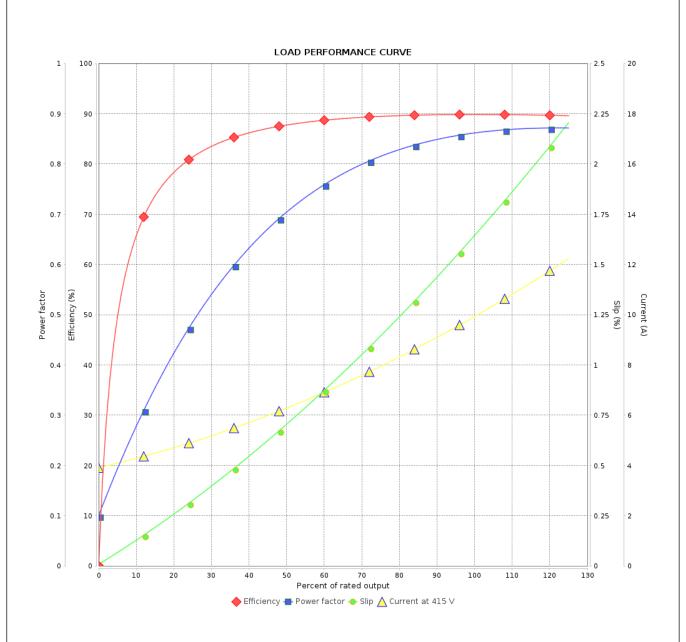
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 9	: 9.91 A Moment of		Moment of inertia (J) : 0.0268 kg		2
LRC	: 9	.1	Duty cycle	e	: Cont.(S1)	
Rated torque	: 1	.85 kgfm	Insulation	class	: F	
Locked rotor torc	μe : 2	90 %	Service fa	actor	: 1.25	
Breakdown torqu	ie : 3	60 %	Temperature rise		: 80 K	
Rated speed	: 2	950 rpm	Design		: B	
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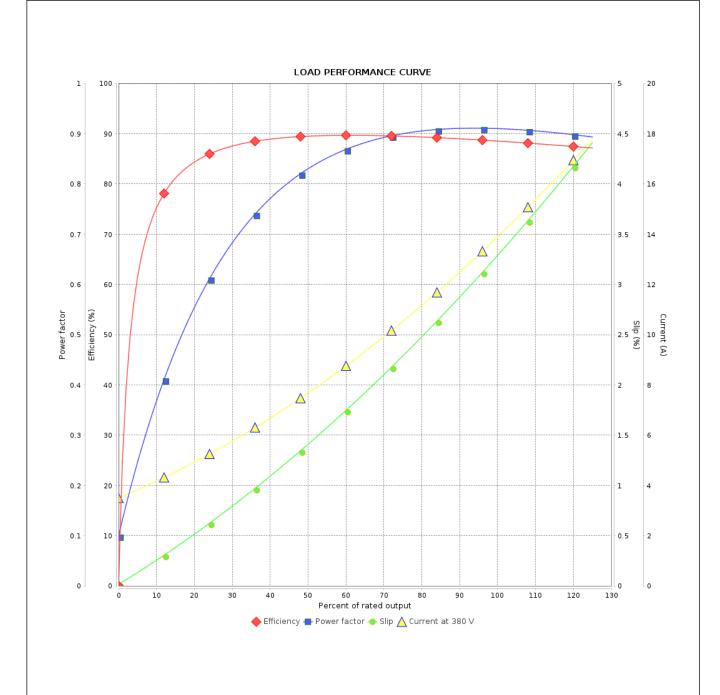
Customer :

Product line : W22 NEMA Premium Efficiency Three-

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Product code:

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Performance	: 38	30 V 50 Hz 2P IE2				
Rated current	: 14.1 A Mom		Moment of inertia (J)		: 0.0268 kgm²	
LRC	: 5.	6	Duty cycle	, ,	: Cont.(S1)	
Rated torque	: 2.	50 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 17	70 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 22	20 %	0 % Temperature rise		: 105 K	
Rated speed	: 29	900 rpm	Design		: B	
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Customer

Product line : W22 NEMA Premium Efficiency Three-

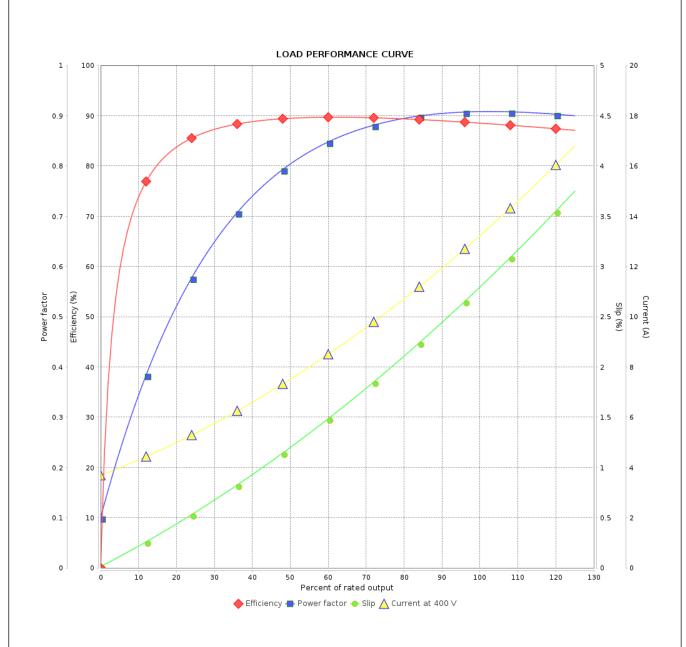
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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.4 A Moment of inertia (J) : 6.4 Duty cycle : 2.49 kgfm Insulation class : 200 % Service factor : 250 % Temperature rise : 2915 rpm Design		: 0.0268 kgm ² : Cont.(S1) : F : 1.00 : 105 K : B	2	
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Product line : W22 NEMA Premium Efficiency Three-

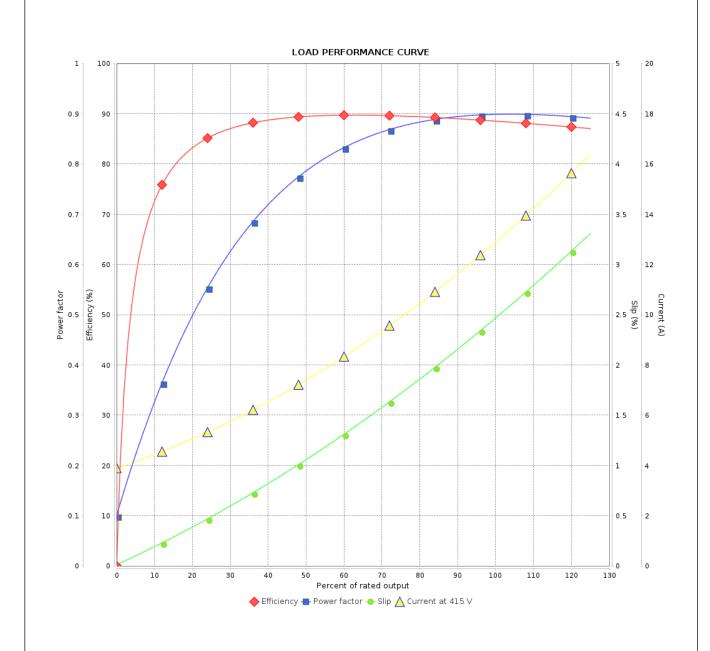
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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.1 A : 6.9 : 2.48 kgfm : 220 % : 270 % : 2925 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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