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

DATA SHEET

Checked by

Date

21/10/2024



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Customer	:				
Notes USABLE @208\	V 103A SF 1.10 SF	A 113A			
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Revision

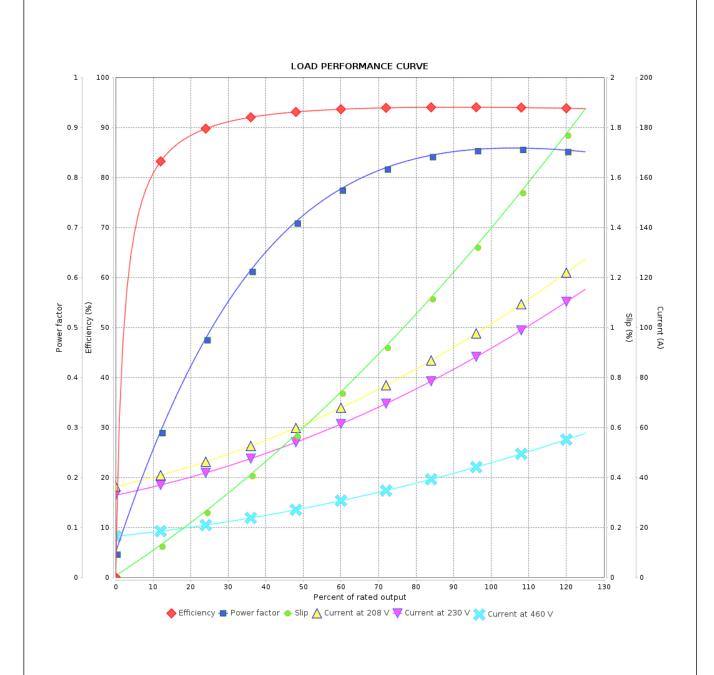
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Product code: 11165470

Three-Phase



Performance : 230/460 V 60 Hz 6P						
Rated current		93.0/46.5 A	Moment o	f inertia (J)	: 0.9189 kgm²	
LRC : 6		6.4	Duty cycle	;	: Cont.(S1)	
Rated torque :		24.5 kgfm	Insulation	Insulation class		
Locked rotor torque : 200 % Service		Service fa	ctor	: 1.25		
Breakdown torque	e : 2	240 %	Temperati	Temperature rise		
Rated speed	: 1	: 1183 rpm			: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : W22 NEMA Premium Efficiency

Three-Phase

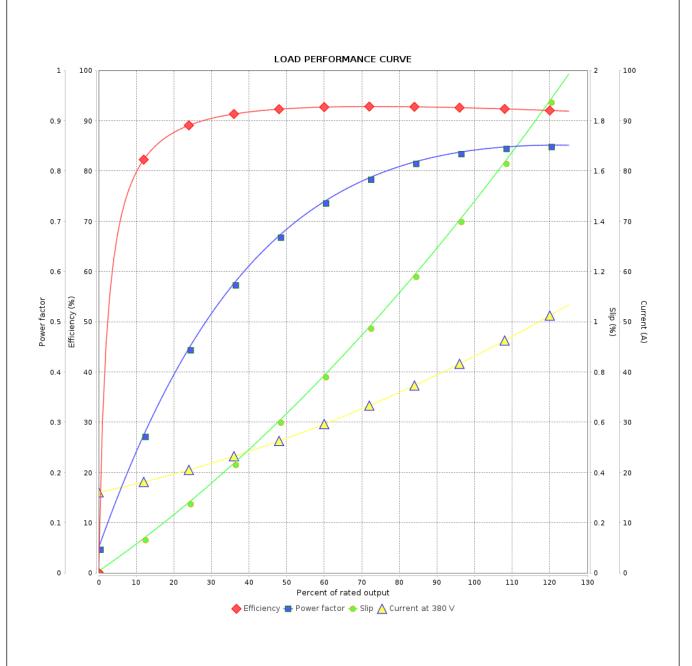
Product code:

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.0 A : 6.4 : 22.1 kgfm : 210 % : 250 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.9189 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	
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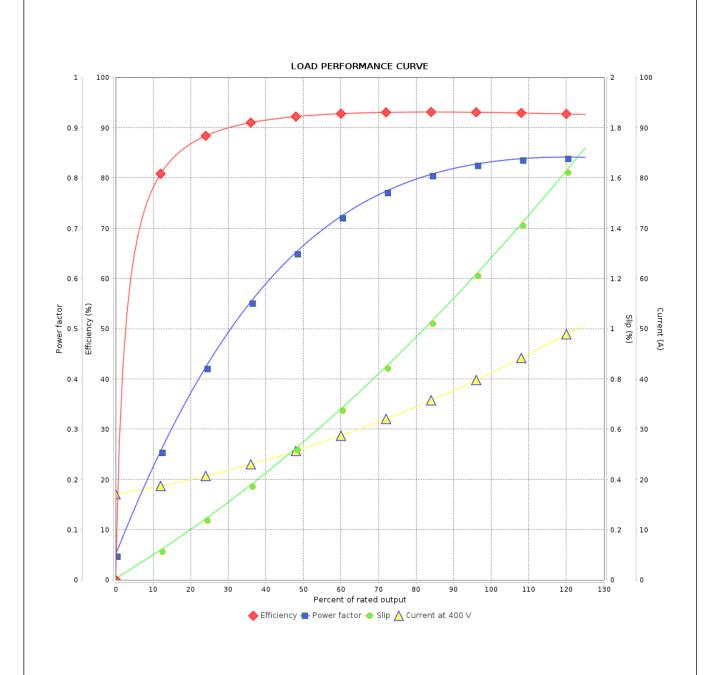
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11165470

Three-Phase



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 7.2 : 22.1 kgfm : 240 % : 280 % : 987 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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Three Phase Induction Motor - Squirrel Cage



Customer :

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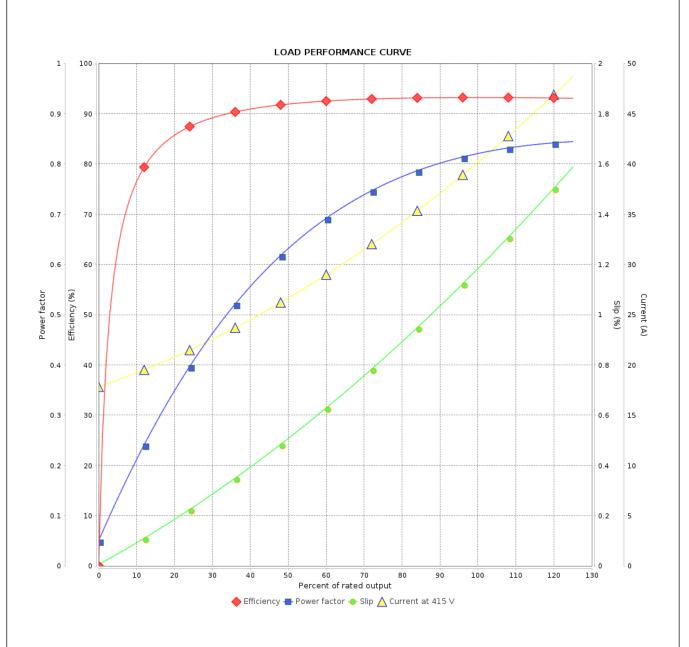
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165470



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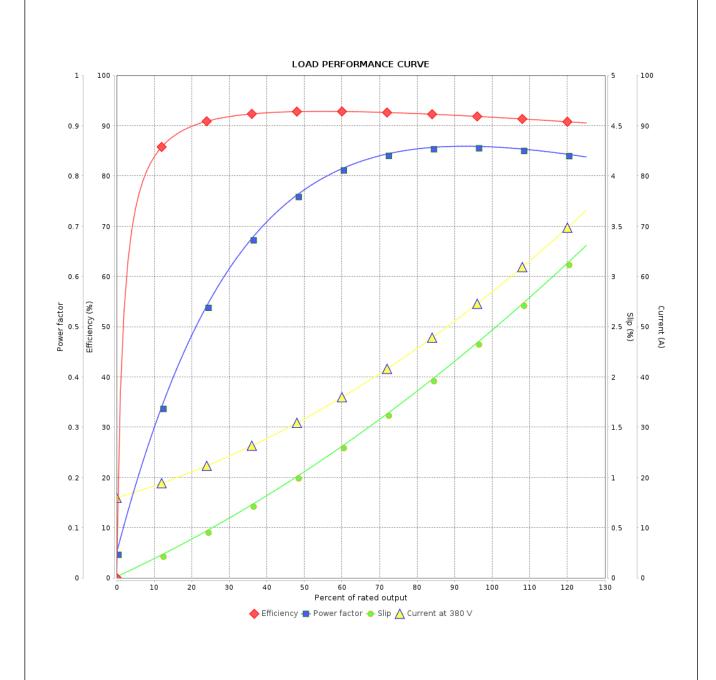
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11165470

Three-Phase



Performance	: 380 V 50 Hz 6P IE	- 2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9189 kgm : Cont.(S1) : F : 1.00 : 80 K : B	2
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Three Phase Induction Motor - Squirrel Cage

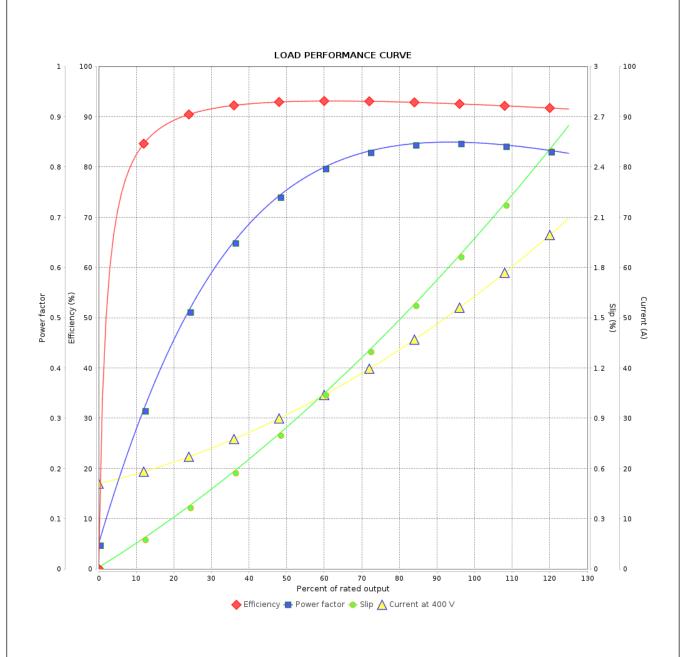


Customer :

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	: 55.1 A : 5.5 : 29.6 kgfm : 180 % : 210 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.9189 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 980 rpm	Design	: B	
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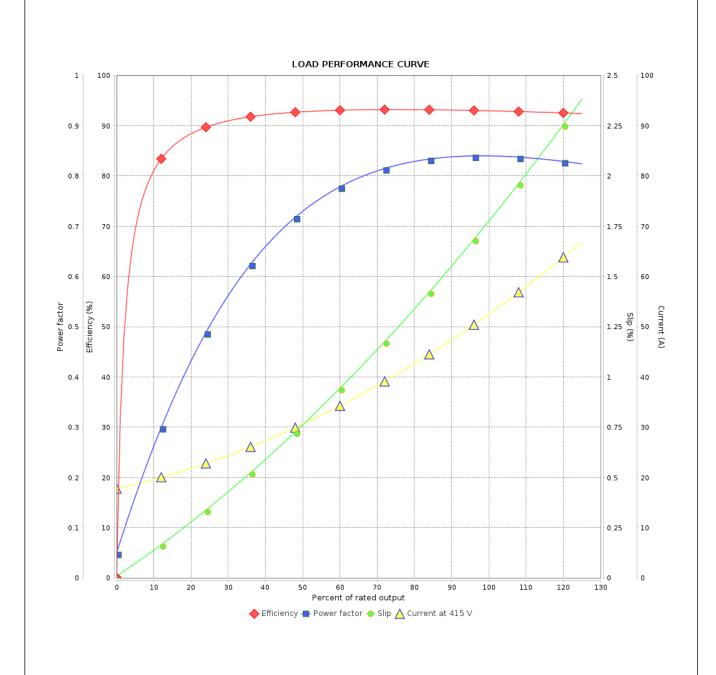
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11165470

Three-Phase



Rev.	Changes Summa	ry Performed	Checked	Date	
Rated speed : 982 rpm		Design	: B		
Breakdown torque	: 229 %	Temperature rise	: 80 K		
Locked rotor torque	: 200 %	Service factor	: 1.00		
Rated torque	: 29.6 kgfm	Insulation class	: F		
LRC	: 6.0	Duty cycle	: Cont.(S1)	: Cont.(S1)	
Rated current	: 53.4 A	Moment of inertia (J)	: 0.9189 kgm²		
Performance	: 415 V 50 Hz 6P IE3				

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