DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11355046 Three-Phase : 404/5T 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 Altitude : 1000 m.a.s.l. : 523 kg Protection degree : IP55 Moment of inertia (J) : 1.55 kgm² Design : B Output [HP] 60 50 60 50 50 60 60 Poles 6 6 6 6 6 6 6 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 85.1 139/69.5 69.3 66.5 64.8 80.3 78.3 L. R. Amperes [A] 987/493 457 485 505 477 498 525 LRC [A] 7.1x(Code H) 6.6x(Code | 7.3x(Code H) | 7.8x(Code J) | 5.6x(Code F) | 6.2x(Code 6.7x(Code G) G) G) No load current [A] 50.0/25.0 26.4 27.7 24.7 24.7 26.4 27.7 Rated speed [RPM] 1185 985 985 985 980 980 985 Slip [%] 1.25 1.50 1.50 1.50 2.00 2.00 1.50 Rated torque [kgfm] 36.7 36.8 36.8 36.8 44.4 44.4 44.2 Locked rotor torque [%] 200 180 220 229 150 180 190 Breakdown torque [%] 229 220 240 260 180 200 220 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 28s (cold) Locked rotor time 36s (cold) 28s (cold) 28s (cold) 28s (cold) 28s (cold) 28s (cold) 16s (hot) 20s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) Noise level² 68.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 25% 50% 94.1 93.3 93.3 93.3 93.6 93.6 93.6 Efficiency (%) 75% 94.5 93.4 93.7 93.7 93.0 93.6 93.6 100% 94.5 93.3 93.4 93.4 92.4 93.0 93.0 25% 50% 0.74 0.73 0.70 0.67 0.79 0.77 0.74 Power Factor 75% 0.82 0.83 0.82 0.79 0.85 0.84 0.82 100% 0.86 0.87 0.86 0.85 0.87 0.87 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.6 5.6 5.6 5.6 5.6 5.6 5.6 P2 (0,5;1,0) 4.6 4.6 4.6 4.6 4.6 4.6 4.6 P3 (0,25;1,0) 4.3 4.3 4.3 4.3 4.3 4.3 4.3 P4 (0,9;0,5) 2.6 2.6 2.6 2.6 2.6 2.6 2.6 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 0.7 0.7 0.7 0.7 0.7 0.7 0.7 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6316 C3 6314 C3 : 696 kgf Max. traction Sealing WSeal WSeal Max. compression : 1219 kgf Lubrication interval 16000 h 17000 h Lubricant amount 34 q 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



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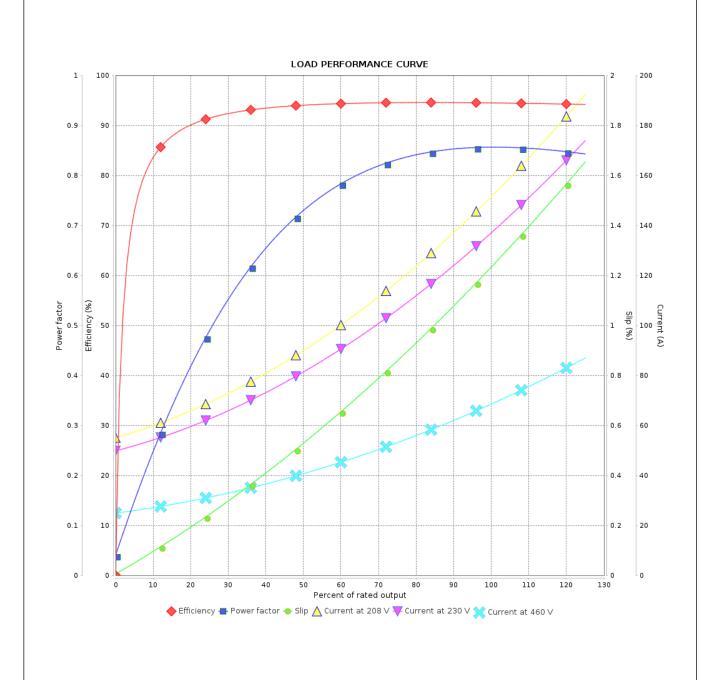
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11355046

Three-Phase



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 139/69.5 A : 7.1 : 36.7 kgfm : 200 % : 229 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.55 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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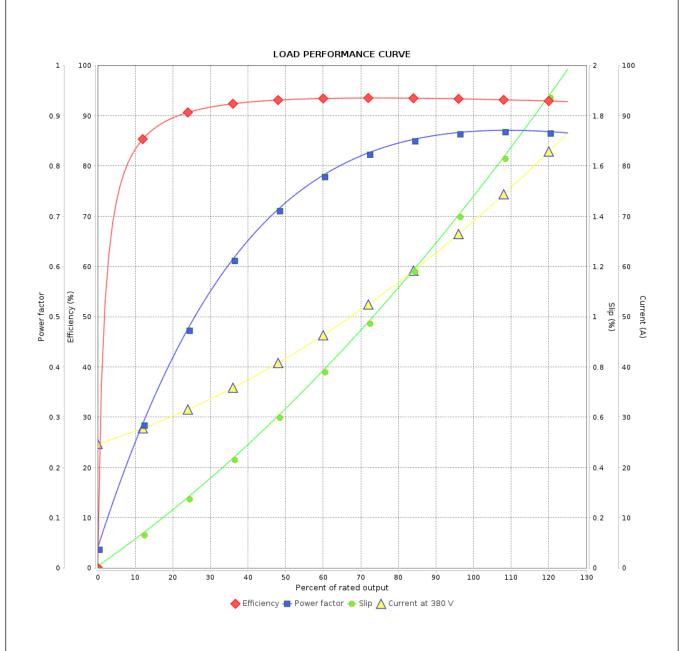
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11355046



Performance : 380 V 50 Hz 6P IE3 Rated current : 69.3 A Moment of inertia (J) : 1.55 kgm² **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 36.8 kgfm : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

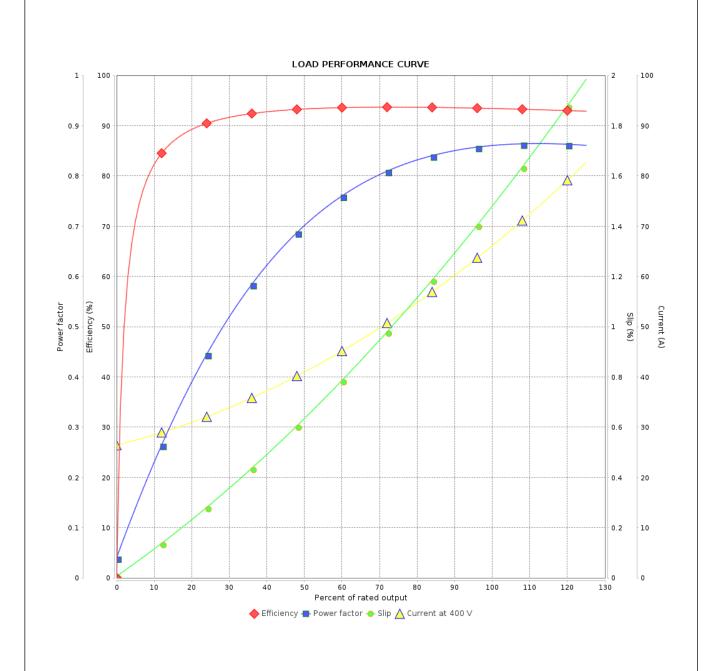
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11355046

Three-Phase



Day	Changes Cumment		Dorformed	Chaalaad	Doto
Rated speed	: 985 rpm	Design		: B	
Breakdown torque	: 240 %	Temperate	ure rise	: 80 K	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.00	
Rated torque	: 36.8 kgfm	Insulation	class	: F	
LRC	: 7.3	Duty cycle	9	: Cont.(S1)	
Rated current	: 66.5 A	Moment of	f inertia (J)	: 1.55 kgm²	
Performance	: 400 V 50 Hz 6P IE3				

Nateu speeu	. 30	oo ipiii	Design		. Б	
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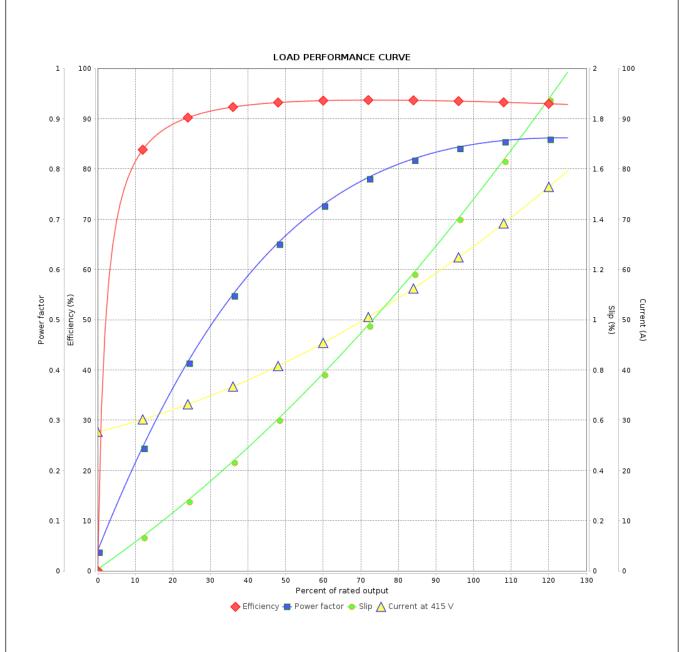
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11355046



Performance : 415 V 50 Hz 6P IE3 Rated current : 64.8 A Moment of inertia (J) : 1.55 kgm² **LRC** Duty cycle : Cont.(S1) : 7.8 Insulation class Rated torque : 36.8 kgfm : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

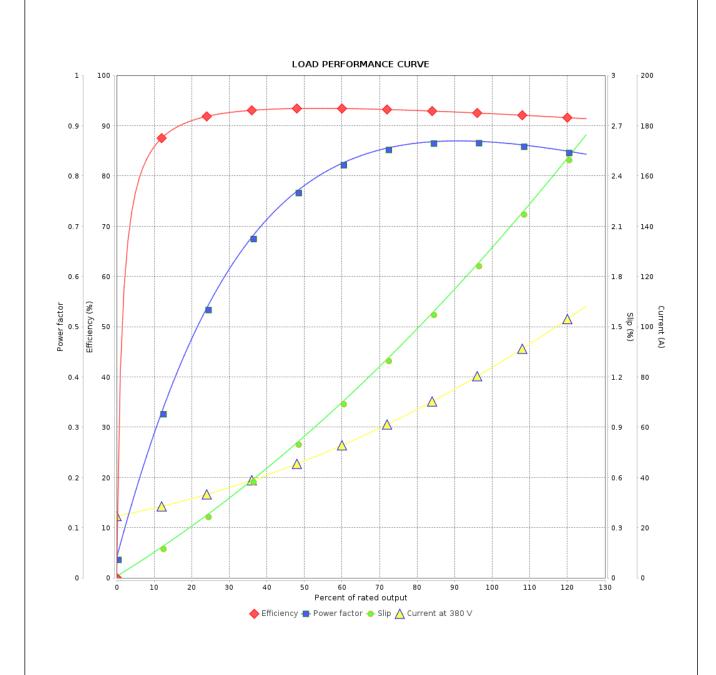
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11355046

Three-Phase



			,			
Performance		: 380 V 50 Hz 6P IE1				
Rated current		: 85.1 A	Moment of inertia (J)		: 1.55 kgm²	
LRC		: 5.6	Duty cycle		: Cont.(S1)	
Rated torque		: 44.4 kgfm	Insulation class		: F	
Locked rotor torque		: 150 %	Service factor		: 1.00	
Breakdown torque		: 180 %	Temperature rise		: 105 K	
Rated speed		: 980 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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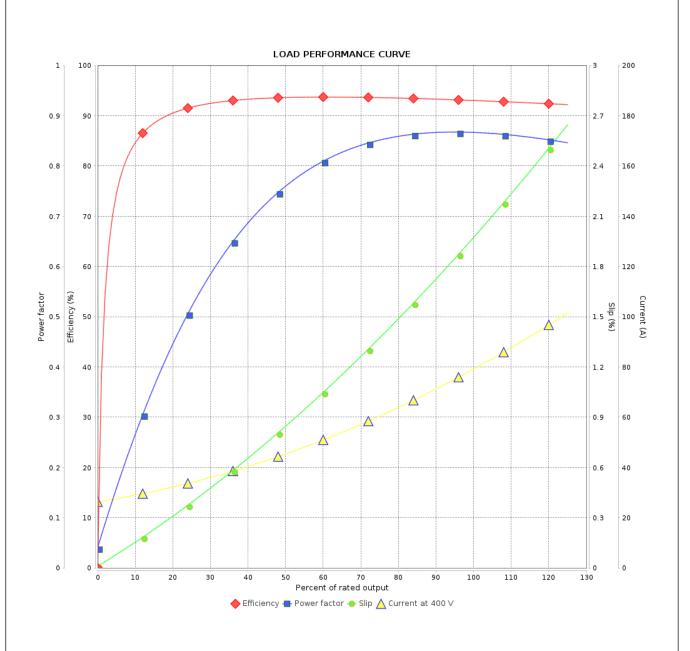
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11355046



Performance		: 400 V 50 Hz 6P IE2					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 44 jue : 18 ie : 20	0.3 A .2 4.4 kgfm 80 % 00 % 80 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 1.55 kgm² : Cont.(S1) : F : 1.00 : 105 K : B		
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Three Phase Induction Motor - Squirrel Cage



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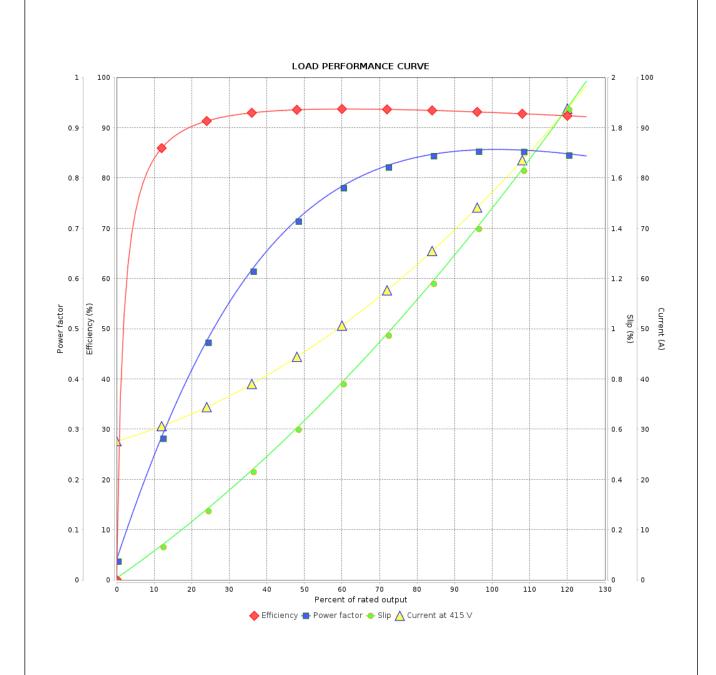
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Product line : W22 NEMA Premium Efficiency Product code : 11355046

Three-Phase



Rev.	Changes Summary		Performed	Checked	Date
Rated speed	: 985 rpm	Design		: B	
Breakdown torque	: 220 %	Temperat	Temperature rise		
Locked rotor torque	: 190 %	Service fa	Service factor		
Rated torque	: 44.2 kgfm	Insulation class		: F	
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated current	: 78.3 A	Moment of inertia (J)		: 1.55 kgm²	
Performance	: 415 V 50 Hz 6P IE2				

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