DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11166657 Cooling method Frame : 364/5T : 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. : 418 kg Protection degree : IP55 Moment of inertia (J) : 0.9798 kgm² Design : B Output [HP] 75 60 60 60 75 75 75 Poles 4 4 4 4 4 4 4 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 174/87.2 88.5 84.9 82.7 106 102 98.7 L. R. Amperes [A] 541 1116/558 620 637 662 571 602 LRC [A] 6.4x(Code | 7.0x(Code H) | 7.5x(Code J) | 8.0x(Code J) | 5.1x(Code E) | 5.6x(Code F) | 6.1x(Code G) G) No load current [A] 38.0 66.0/33.0 33.0 35.0 33.0 35.0 38.0 Rated speed [RPM] 1780 1480 1480 1485 1470 1475 1480 Slip [%] 1.11 1.33 1.33 1.00 2.00 1.67 1.33 Rated torque [kgfm] 30.6 29.4 29.4 29.3 37.0 36.9 36.8 Locked rotor torque [%] 240 210 240 260 170 200 210 Breakdown torque [%] 260 250 280 310 200 220 240 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 18s (cold) Locked rotor time 25s (cold) 18s (cold) 18s (cold) 18s (cold) 18s (cold) 18s (cold) 14s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) 67.0 dB(A) Noise level² 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% 0.000 0.000 50% 94.5 93.7 93.6 93.5 94.5 94.5 94.1 Efficiency (%) 75% 95.0 94.2 94.2 94.2 94.1 94.5 94.5 100% 95.4 94.2 94.4 94.6 93.6 94.1 94.5 25% 0.00 0.00 50% 0.68 0.64 0.61 0.75 0.70 0.67 0.68 Power Factor 75% 0.78 0.78 0.75 0.73 0.82 0.80 0.78 100% 0.83 0.82 0.81 0.80 0.84 0.83 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P2 (0,5;1,0) 3.8 3.8 3.8 3.8 3.8 3.8 3.8 P3 (0,25;1,0) 3.5 3.5 3.5 3.5 3.5 3.5 3.5 P4 (0,9;0,5) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 Losses (%) P5 (0,5;0,5) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 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 6314 C3 6314 C3 : 782 kgf Max. traction Sealing WSeal WSeal Max. compression : 1200 kgf Lubrication interval 12000 h 12000 h Lubricant amount 27 q 27 g 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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13/01/2024

DATA SHEET

Checked by

Date

13/01/2024



Three Pha	se Inductio	n Motor - Squi	rrel Cage			шец
Customer	:					
Notes USABLE @208\	V 186A SF 1.10 S	FA 205A				
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Revision

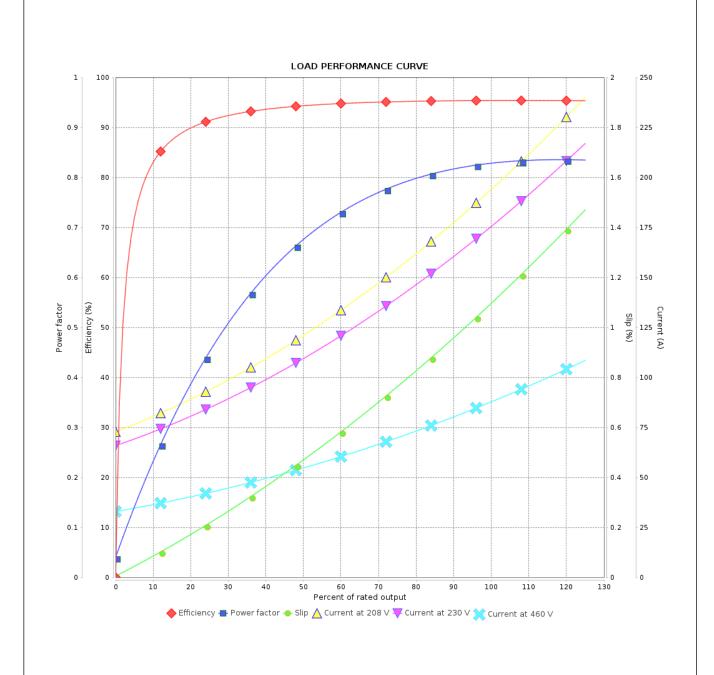
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 11166657

Phase



Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq	: 6 : 3 jue : 2	74/87.2 A 6.4 60.6 kgfm 640 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		2
Breakdown torque Rated speed		: 260 % Ter : 1780 rpm De:		ure rise	: 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

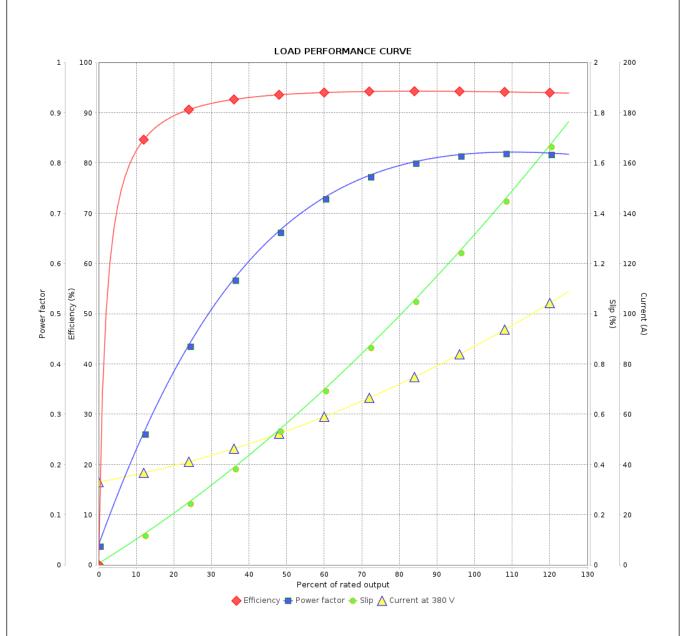
Product code:

11166657

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Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 88.5 A : 7.0 : 29.4 kgfm : 210 % : 250 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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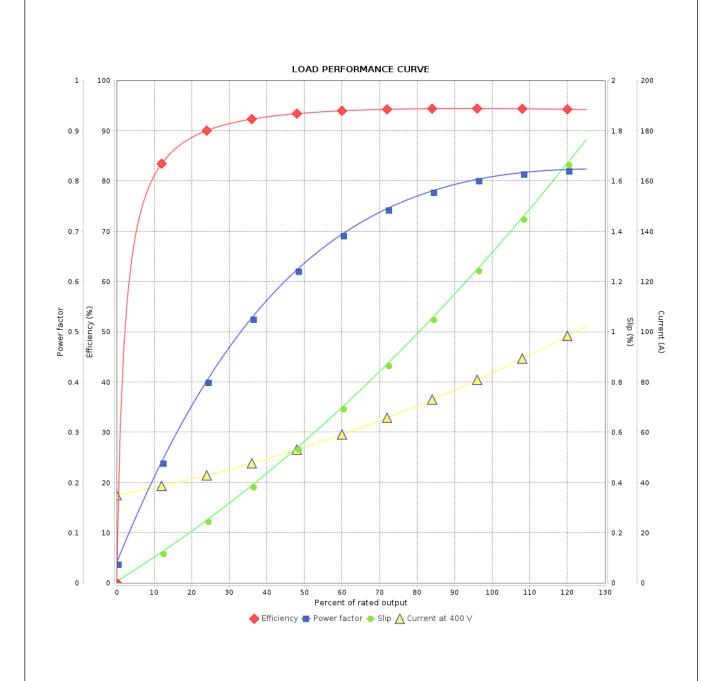
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 11166657

Phase



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque	: 7. : 29	4.9 A 5 9.4 kgfm 40 % 30 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		2
Rated speed		1480 rpm Design		: B		
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Three Phase Induction Motor - Squirrel Cage



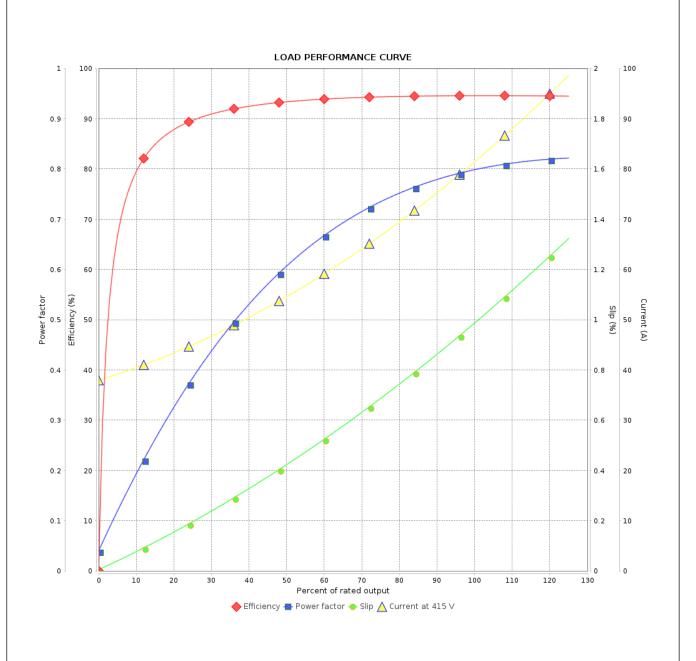
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Dhose

Product code:

11166657



Performance	: 4	15 V 50 Hz 4P IE3					
Rated current		2.7 A	Moment of	Moment of inertia (J)		2	
LRC : 8.0		.0	Duty cycle	Duty cycle			
Rated torque : 2		9.3 kgfm	Insulation class		: Cont.(S1) : F		
•		60 %	Service factor		: 1.00		
Breakdown torqu	ie : 3	10 %	Temperat	Temperature rise		: 80 K	
Rated speed	: 1	485 rpm	Design		: B		
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Three Phase Induction Motor - Squirrel Cage



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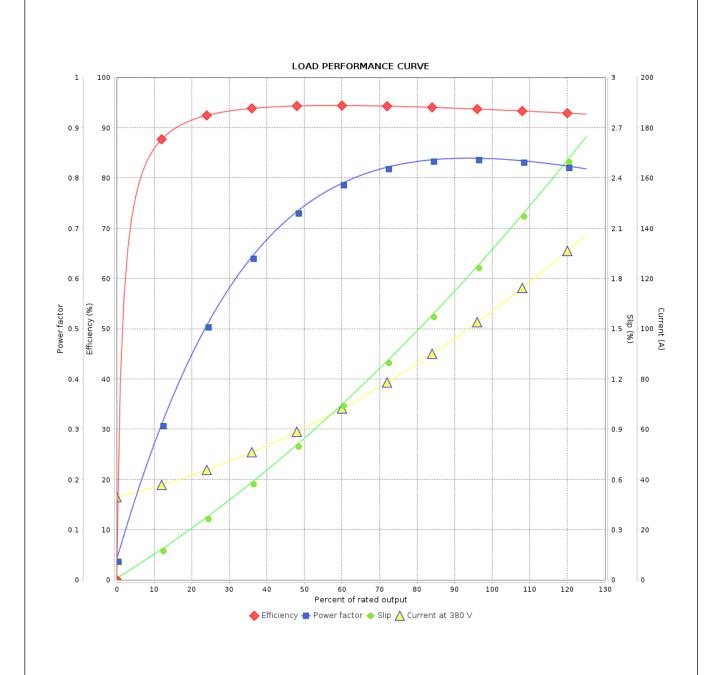
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Customer :

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

Phase

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Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 106 A : 5.1 : 37.0 kgfm : 170 % : 200 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

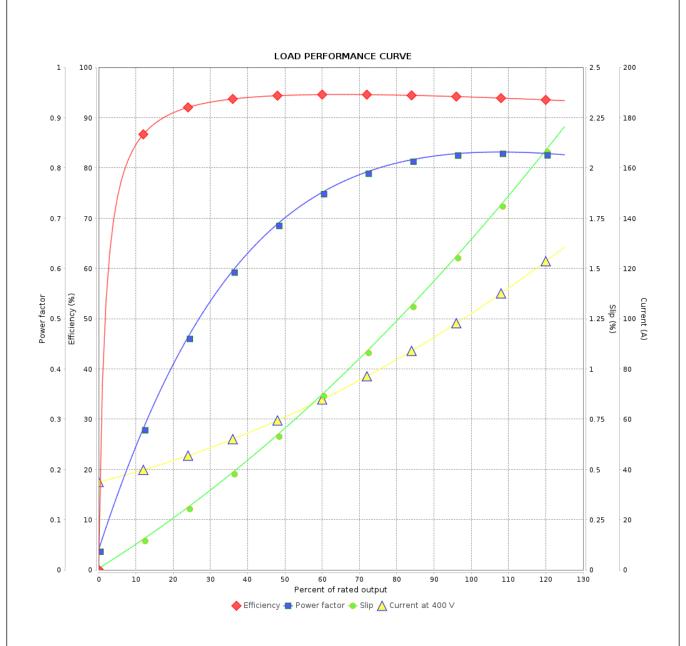
Product code:

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Date



Performance	: 400 V 50 Hz 4P IE2	: 400 V 50 Hz 4P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 102 A : 5.6 : 36.9 kgfm : 200 % : 220 %	Moment of Duty cycle Insulation Service fa	class ctor	: 0.9798 kgm ² : Cont.(S1) : F : 1.00 : 105 K				
Rated speed	: 1475 rpm	Design		: B				
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Three Phase Induction Motor - Squirrel Cage



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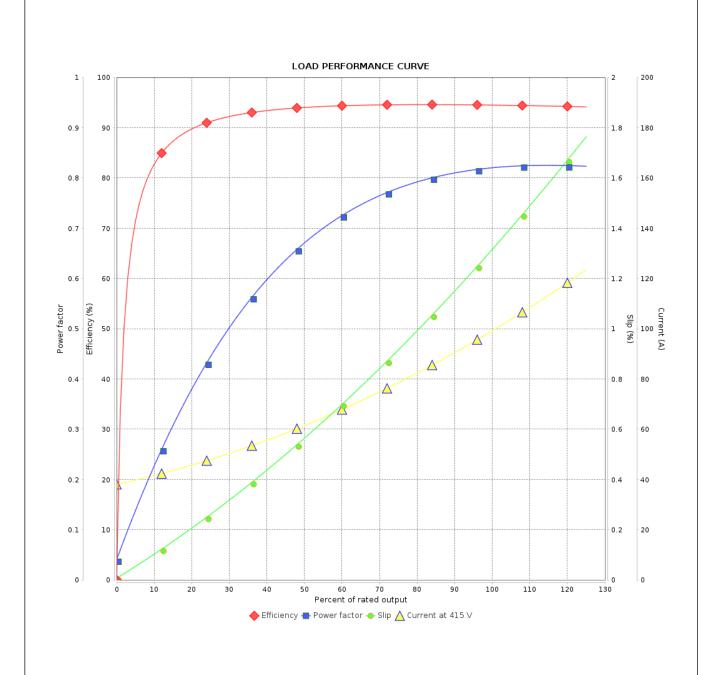
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Customer :

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

Phase

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Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 98.7 A : 6.1 : 36.8 kgfm : 210 % : 240 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
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