DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12447102 Three-Phase : 284/6TS 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 : 164 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.1135 kgm² Design : B Output [HP] 25 20 20 25 20 25 25 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 35.3 57.5/28.8 28.2 27.1 26.4 33.6 32.1 L. R. Amperes [A] 363/181 175 187 198 173 185 199 LRC [A] 6.3x(Code 6.2x(Code | 6.9x(Code H) | 7.5x(Code J) | 4.9x(Code E) | 5.5x(Code F) | 6.2x(Code G) G) G) No load current [A] 14.5/7.27 6.87 7.38 7.81 6.87 7.38 7.81 Rated speed [RPM] 3545 2945 2951 2956 2915 2930 2940 Slip [%] 1.53 1.83 1.63 1.47 2.83 2.33 2.00 Rated torque [kgfm] 5.11 4.93 4.91 4.90 6.20 6.19 6.17 Locked rotor torque [%] 200 200 229 240 160 180 190 170 Breakdown torque [%] 229 220 240 260 190 210 1.00 Service factor 1.25 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 25s (cold) Locked rotor time 30s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 17s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) Noise level² 72.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 50% 91.0 90.2 90.3 89.8 91.0 91.0 91.0 Efficiency (%) 75% 91.7 90.7 91.1 91.1 90.2 91.0 91.0 100% 91.7 91.9 91.9 91.9 89.5 90.2 91.0 25% 50% 0.78 0.79 0.76 0.73 0.83 0.81 0.79 Power Factor 75% 0.85 0.86 0.84 0.82 0.88 0.87 0.85 100% 0.88 0.88 0.87 0.86 0.89 0.88 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.6 8.3 8.3 8.3 10.3 9.4 11.1 P2 (0,5;1,0) 6.5 6.3 6.3 6.3 8.4 7.8 7.1 P3 (0,25;1,0) 5.6 5.5 5.5 5.5 7.3 6.7 6.1 P4 (0,9;0,5) 4.4 4.3 4.3 4.3 5.8 5.3 4.9 Losses (%) P5 (0,5;0,5) 2.5 2.5 2.5 2.5 3.3 3.0 2.8 P6 (0,5;0,25) 1.6 1.6 1.6 2.1 1.9 1.6 1.8 P7 0.9 0.9 0.9 1.2 0.9 1.1 1.0 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 103 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 267 kgf Lubrication interval 14000 h 17000 h 11 g Lubricant amount 18 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		<u> ШЕЦ</u>	
Customer	:			
Notes USABLE @208\	/ 63.0A SF 1.10 SFA 69.3A			
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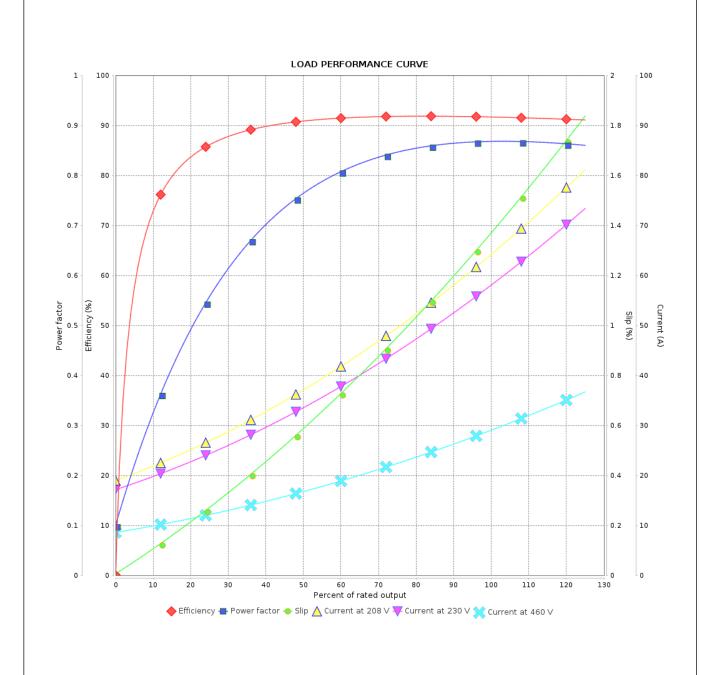
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12447102

Three-Phase



Performance	: 230/460 V 60 Hz 2P	30/460 V 60 Hz 2P				
Rated current	: 57.5/28.8 A	: 57.5/28.8 A Moment of inertia (J)		: 0.1135 kgm²		
LRC	: 6.3	Duty cycle		: Cont.(S1)		
Rated torque	: 5.11 kgfm	Insulation cla	ass	:F		
Locked rotor torque	: 200 %	Service factor		: 1.25		
Breakdown torque	: 229 %	Temperature rise		: 80 K		
Rated speed	: 3545 rpm	Design		: B		
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Three Phase Induction Motor - Squirrel Cage

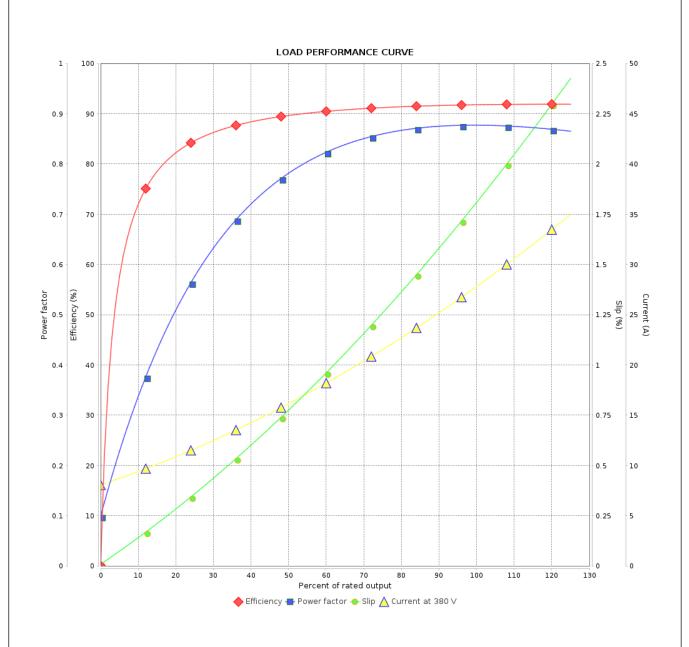


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447102



Performance : 380 V 50 Hz 2P IE3 : 28.2 A Rated current Moment of inertia (J) : 0.1135 kgm² **LRC** Duty cycle : Cont.(S1) : 6.2 : 4.93 kgfm Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage

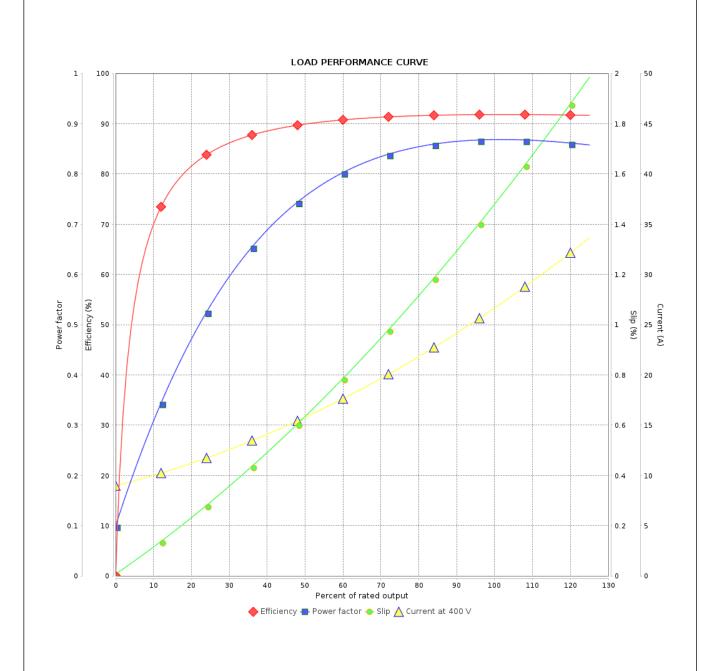


Customer

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Product line : W22 NEMA Premium Efficiency Product code: 12447102

Three-Phase



Performance		: 400 V 50 Hz 2P	IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 27.1 A : 6.9 : 4.91 kgfm : 229 % : 240 % : 2951 rpm	Duty cy Insulati Service Temper	Moment of inertia (J) : 0.113 Duty cycle : Cont Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		2
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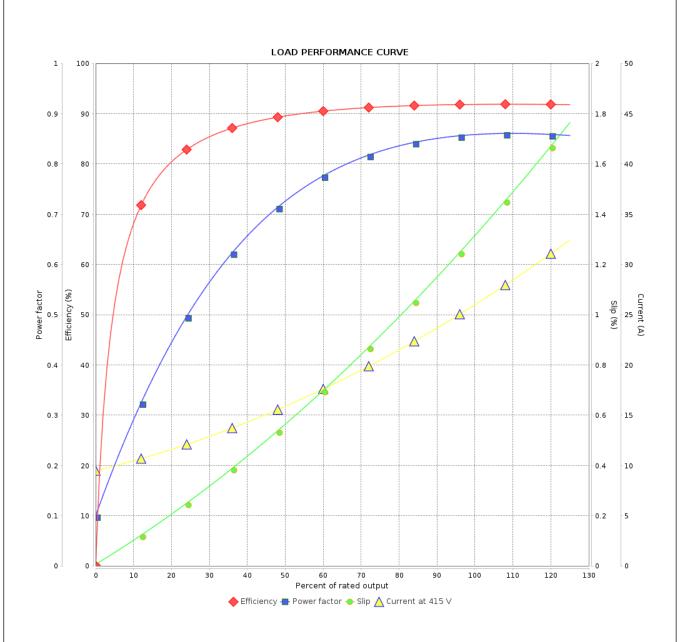


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447102



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 26.4 A : 7.5 : 4.90 kgfm : 240 % : 260 % : 2956 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1135 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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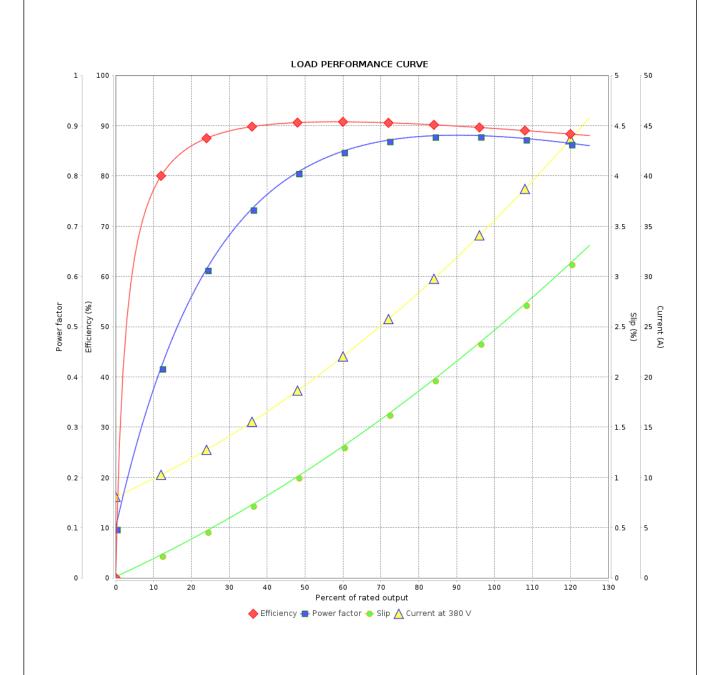
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Product line : W22 NEMA Premium Efficiency Product code : 12447102

Three-Phase



Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.3 A : 4.9 : 6.20 kgfm : 160 % : 170 % : 2915 rpm	Duty cycle : Cont.(Insulation class : F Service factor : 1.00		: 1.00 : 105 K	
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Three Phase Induction Motor - Squirrel Cage



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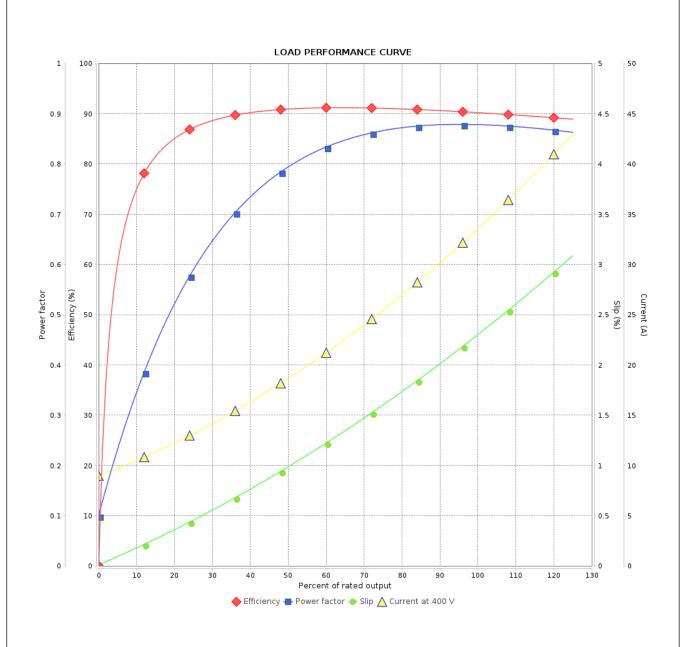
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447102



Performance : 400 V 50 Hz 2P IE1						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	33.6 A 5.5 6.19 kgfm 180 % 190 % 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1135 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



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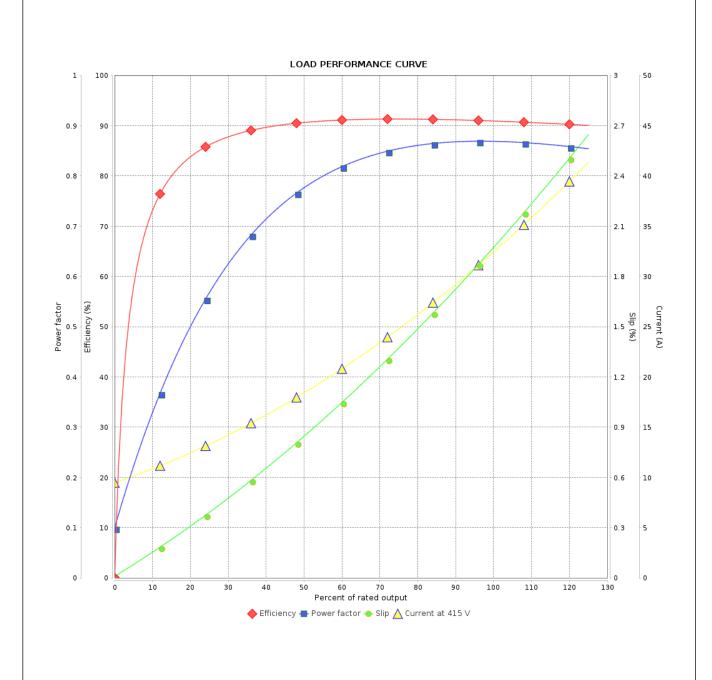
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Product line : W22 NEMA Premium Efficiency Product code : 12447102

Three-Phase



Performance		: 415 V 50 Hz 2P I	E2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 32.1 A : 6.2 : 6.17 kgfm : 190 % : 210 % : 2940 rpm	Duty cyc Insulation Service f	Moment of inertia (J) : Duty cycle : Insulation class : Service factor : Temperature rise : Design :		
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