DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12446945 Three-Phase : 254/6TC Cooling method Frame : 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. : 132 kg Protection degree : IP55 Moment of inertia (J) : 0.1104 kgm² Design : B Output [HP] 15 10 10 15 10 15 15 Poles 4 4 4 4 4 4 4 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 21.5 36.0/18.0 15.6 15.1 15.1 20.5 20.0 L. R. Amperes [A] 230/115 112 118 125 106 111 118 6.4x(Code LRC [A] 7.2x(Code J) 7.8x(Code K) 8.3x(Code L) 4.9x(Code E) 5.4x(Code F) 5.9x(Code G) G) No load current [A] 14.6/7.30 7.10 7.60 8.10 7.10 7.60 8.10 Rated speed [RPM] 1770 1475 1480 1480 1455 1460 1465 Slip [%] 1.67 1.67 1.33 1.33 3.00 2.67 2.33 Rated torque [kgfm] 6.15 4.92 4.90 4.90 7.48 7.46 7.43 Locked rotor torque [%] 229 229 280 300 160 190 200 Breakdown torque [%] 250 280 300 320 200 210 229 1.00 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 Temperature rise 80 K 28s (cold) Locked rotor time 37s (cold) 48s (cold) 45s (cold) 41s (cold) 27s (cold) 27s (cold) 21s (hot) 27s (hot) 25s (hot) 23s (hot) 15s (hot) 16s (hot) 15s (hot) Noise level² 64.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 0.000 50% 91.0 88.88 88.6 88.3 91.0 91.0 91.0 Efficiency (%) 75% 91.7 90.3 90.3 90.3 90.2 91.0 91.0 100% 92.4 90.4 90.6 90.8 90.2 91.0 91.0 25% 0.00 50% 0.65 0.58 0.59 0.74 0.71 0.69 0.68 Power Factor 75% 0.78 0.74 0.70 0.69 0.82 0.80 0.79 100% 0.83 0.81 0.79 0.76 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.1 10.4 10.2 9.9 10.7 9.7 9.7 P2 (0,5;1,0) 7.0 9.0 8.8 8.6 9.2 8.4 8.4 P3 (0,25;1,0) 7.9 6.5 8.4 8.3 8.1 8.6 7.9 P4 (0,9;0,5) 3.9 5.0 4.9 4.8 5.2 4.7 4.7 Losses (%) P5 (0,5;0,5) 3.4 2.8 3.6 3.5 3.6 3.3 3.3 P6 (0,5;0,25) 1.8 2.4 2.3 2.2 2.4 2.2 2.2 P7 1.3 1.7 1.7 1.7 1.6 1.6 1.6 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6309 C3 6209 C3 : 203 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 334 kgf Lubrication interval 20000 h 20000 h Lubricant amount 13 q 9 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 08/05/2025 1/9 Date

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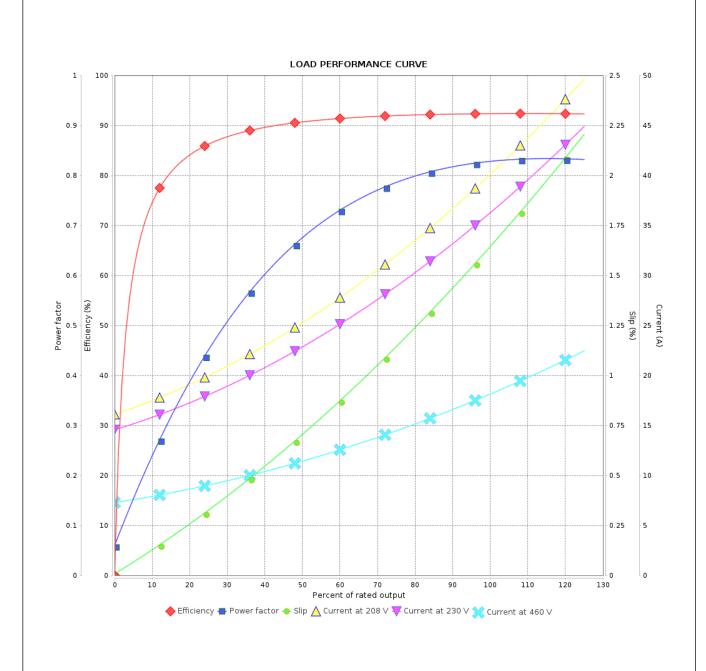
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446945

Three-Phase



Performance		: 230/460 V 60 Hz 4P						
Rated current		: 36.0/18.0 A	Moment of inertia (J)		(-)		: 0.1104 kgm	2
LRC		: 6.4	Duty cycle	9	: Cont.(S1)			
Rated torque		: 6.15 kgfm	Insulation	class	: F			
Locked rotor torq	μe	: 229 %	Service factor		: 1.25			
Breakdown torqu	ie	: 250 %	Temperature rise		: 80 K			
Rated speed		: 1770 rpm	Design		: B			
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Three Phase Induction Motor - Squirrel Cage



Customer :

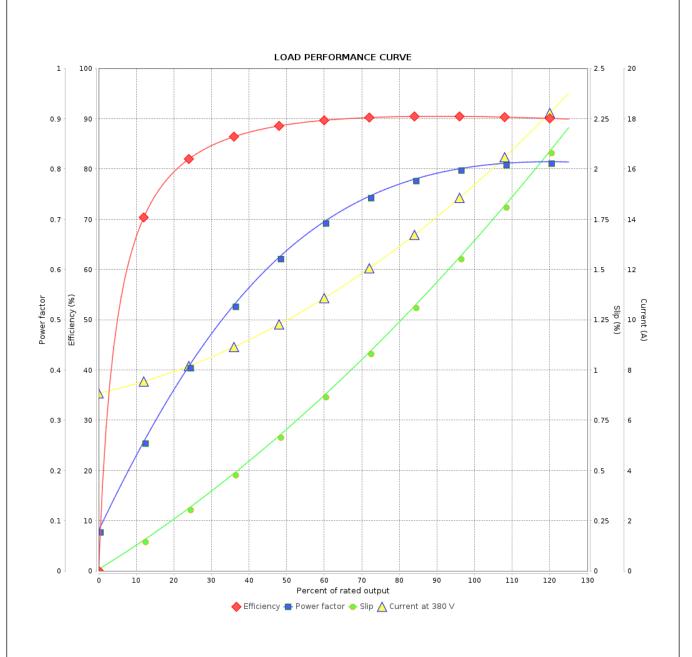
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

12446945

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.6 A : 7.2 : 4.92 kgfm : 229 % : 280 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1104 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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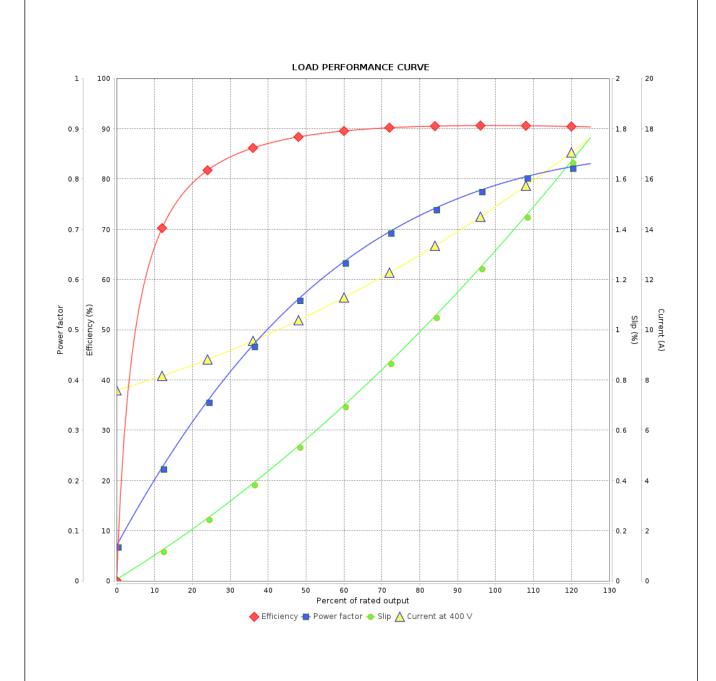
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446945

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.1 A : 7.8 : 4.90 kgfm : 280 % : 300 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		le : Cont.(S1) n class : F actor : 1.25	
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Three Phase Induction Motor - Squirrel Cage

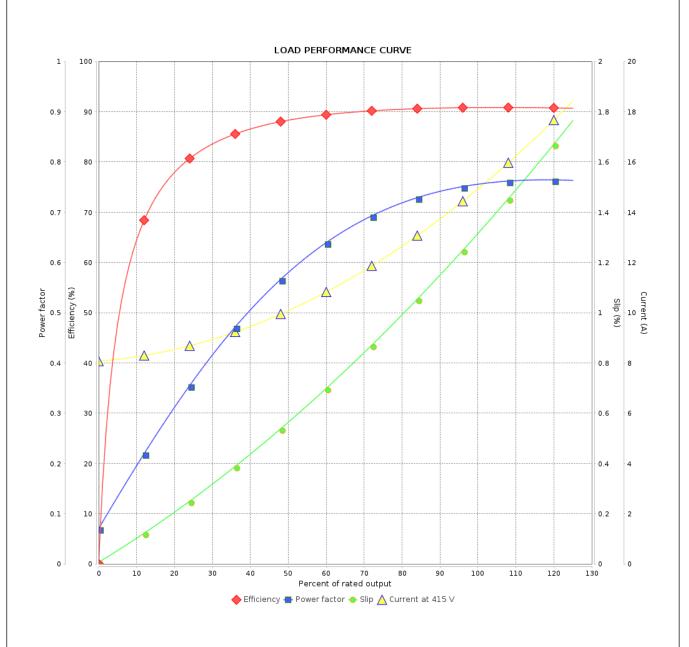


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Three-Phase

Product code: 12446945



Performance	: 4	15 V 50 Hz 4P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 4 que : 3 ue : 3	5.1 A .3 .90 kgfm 00 % 20 % 480 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		2
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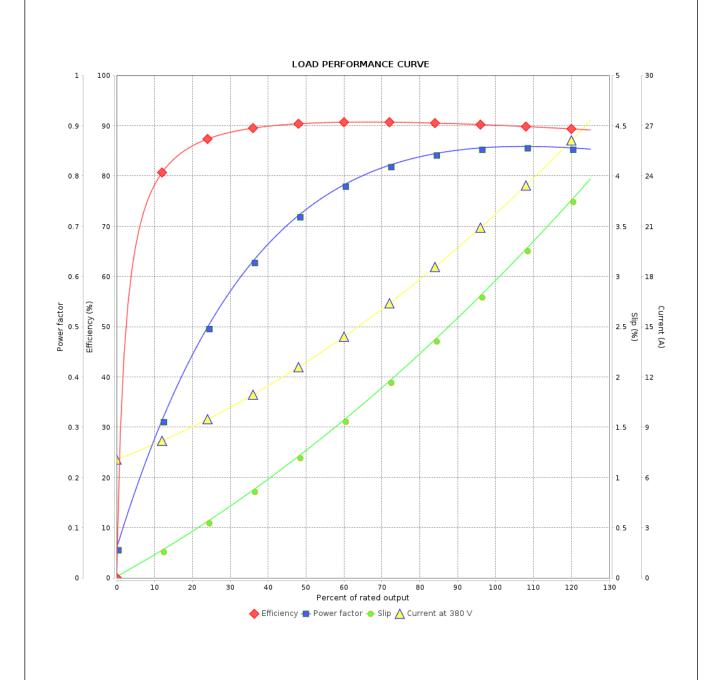
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446945

Three-Phase



Performance	: 380 V 50 Hz 4P IE2	2			
Rated current LRC Rated torque Locked rotor torqu	: 21.5 A : 4.9 : 7.48 kgfm ue : 160 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.1104 kgm² : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	e : 200 % : 1455 rpm	Temperature rise Design		: 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

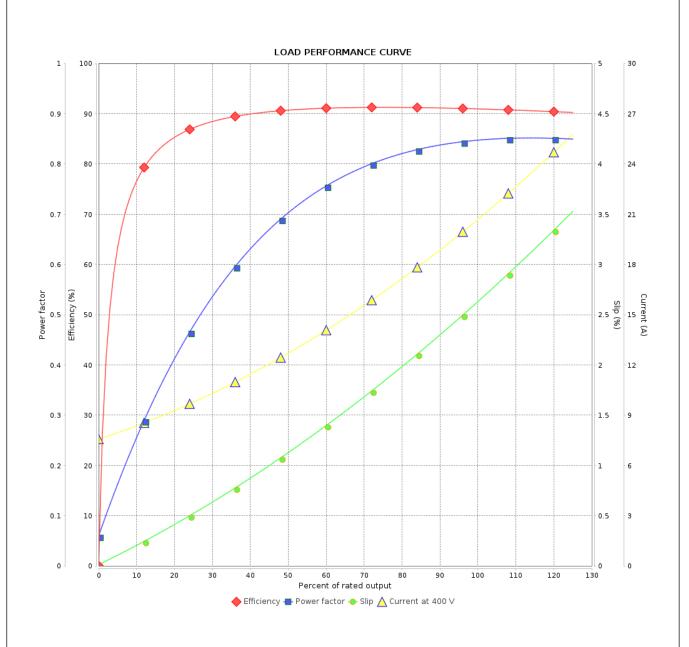


Customer :

Product line : W22 NEMA Premium Efficiency Product

Three-Phase

Product code: 12446945



Performance		: 400 V 50 Hz 4P IE	2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 20.5 A : 5.4 : 7.46 kgfm : 190 % : 210 % : 1460 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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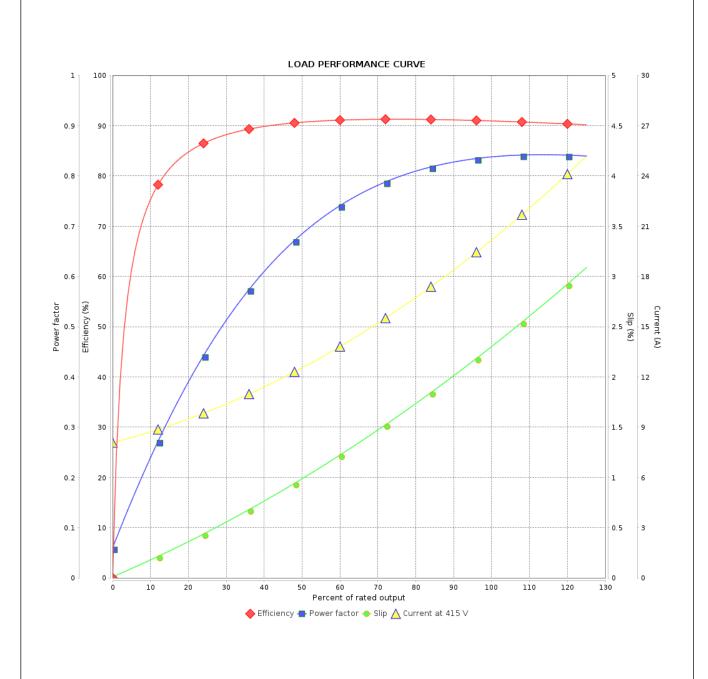
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Product line : W22 NEMA Premium Efficiency Product code : 12446945

Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.0 A : 5.9 : 7.43 kgfm : 200 % : 229 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1104 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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