DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12264594 Three-Phase : 182/4TD 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. : 47.5 kg Protection degree : IP55 Moment of inertia (J) : 0.0169 kgm² Design : B Output [HP] 5 4 4 4 5 5 5 Poles 4 4 4 4 4 4 4 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 7.74 Rated current [A] 13.0/6.49 6.42 6.21 6.23 7.44 7.35 44.9 L. R. Amperes [A] 97.4/48.7 44.9 47.8 51.1 47.6 50.7 LRC [A] 7.5x(Code J) 7.0x(Code J) 7.7x(Code K) 8.2x(Code L) 5.8x(Code | 6.4x(Code H) 6.9x(Code J) G) No load current [A] 5.80/2.90 2.80 3.10 3.30 2.80 3.10 3.30 Rated speed [RPM] 1750 1455 1455 1460 1430 1440 1445 Slip [%] 2.78 3.00 3.00 2.67 4.67 4.00 3.67 Rated torque [kgfm] 2.07 2.00 2.00 1.99 2.54 2.52 2.51 Locked rotor torque [%] 229 229 260 290 185 210 229 Breakdown torque [%] 290 300 320 350 225 250 270 Service factor 1.25 1.15 1.15 1.15 1.15 1.15 1.15 Temperature rise 80 K 21s (cold) Locked rotor time 27s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 12s (hot) 15s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) Noise level² 56.0 dB(A) 25% 0.000 0.000 50% 88.5 87.5 86.7 86.5 88.5 87.5 87.5 Efficiency (%) 75% 89.5 88.2 88.2 88.2 87.5 88.5 88.5 100% 89.5 87.7 88.2 88.2 86.5 87.5 87.5 25% 0.00 0.00 50% 0.61 0.57 0.53 0.65 0.61 0.62 0.69 Power Factor 75% 0.74 0.75 0.71 0.67 0.80 0.77 0.74 100% 0.80 0.81 0.79 0.76 0.84 0.82 0.80 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.2 13.4 13.6 13.6 12.8 12.8 14.9 P2 (0,5;1,0) 9.4 11.2 10.7 10.7 12.5 11.4 11.4 P3 (0,25;1,0) 8.7 10.3 9.9 9.9 11.5 10.5 10.5 P4 (0,9;0,5) 5.3 6.4 6.1 6.1 7.1 6.5 6.5 Losses (%) P5 (0,5;0,5) 3.7 4.4 4.2 4.2 4.9 4.4 4.4 P6 (0,5;0,25) 2.4 2.9 2.7 2.7 3.2 2.9 2.9 P7 1.7 2.0 2.3 2.1 2.1 2.0 2.1 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ : 118 kgf Max. traction Sealing V'Ring V'Ring : 166 kgf Max. compression Lubrication interval Lubricant amount 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 20/10/2024 1/9 Date

DATA SHEET



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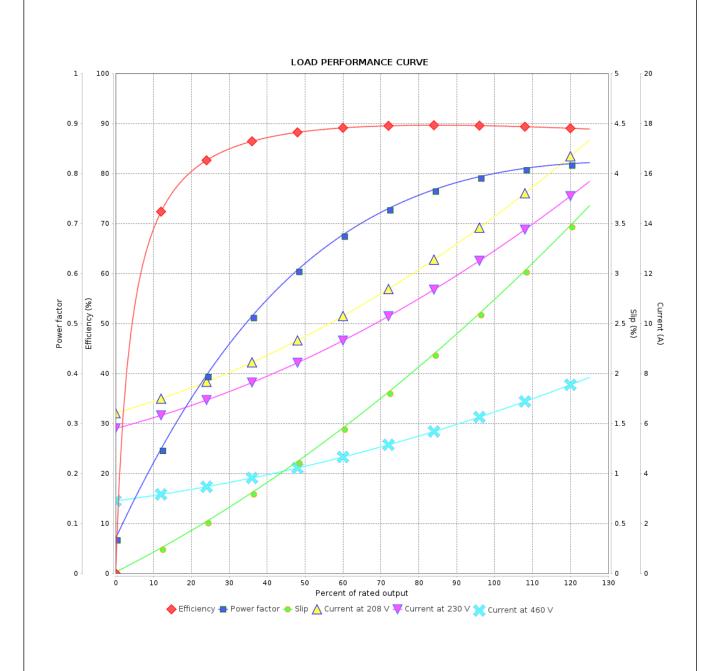
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12264594

Three-Phase



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.0/6.49 A : 7.5 : 2.07 kgfm : 229 % : 290 % : 1750 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 0.0169 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	2
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Three Phase Induction Motor - Squirrel Cage



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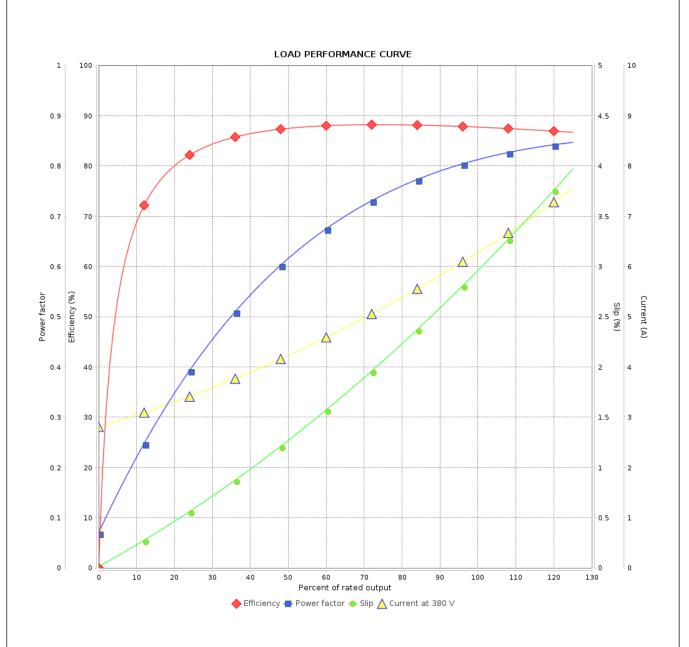
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12264594





Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.42 A : 7.0 : 2.00 kgfm : 229 % : 300 % : 1455 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0169 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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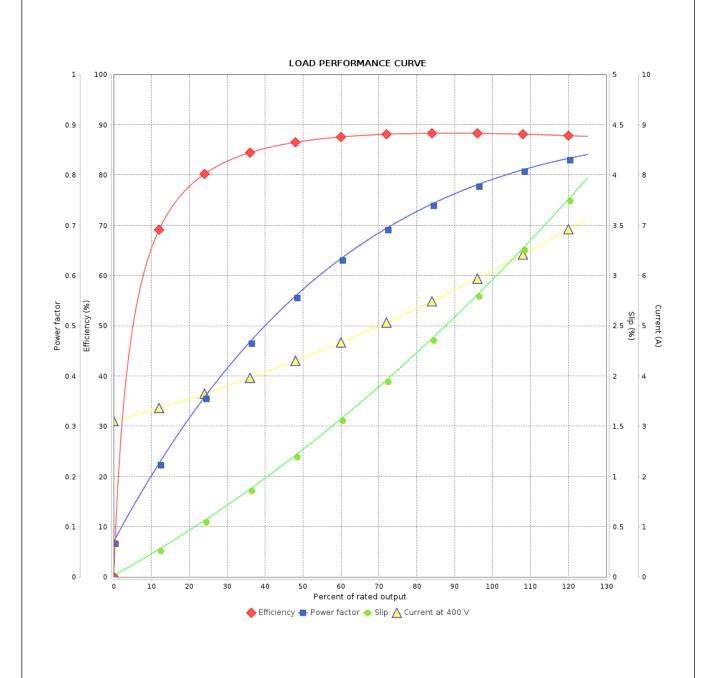
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Product line : W22 NEMA Premium Efficiency Product code : 12264594

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 6.21 A : 7.7 : 2.00 kgfm	Moment of inertia (J) Duty cycle Insulation class		: 0.0169 kgm² : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed		Service factor Temperature rise Design		: 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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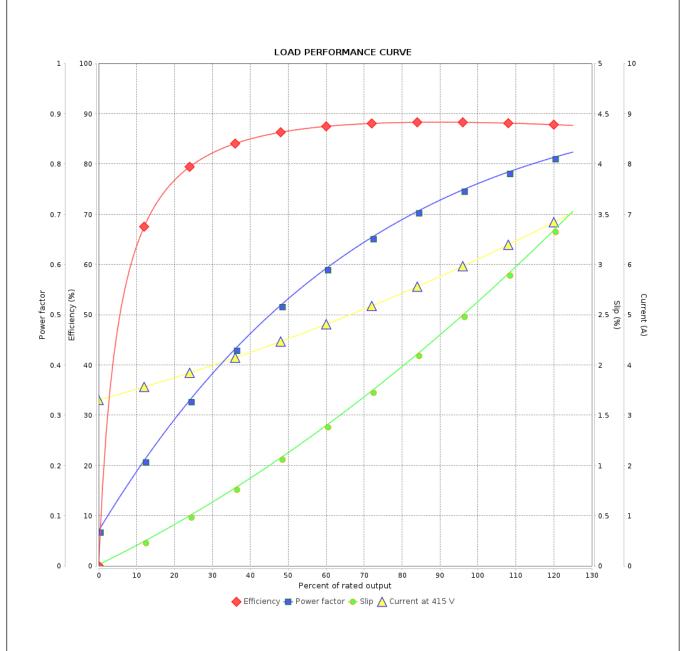
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12264594



Performance : 415 V 50 Hz 4P IE3 : 0.0169 kgm² Rated current : 6.23 A Moment of inertia (J) **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.99 kgfm : F Locked rotor torque : 290 % Service factor : 1.15 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 6/9

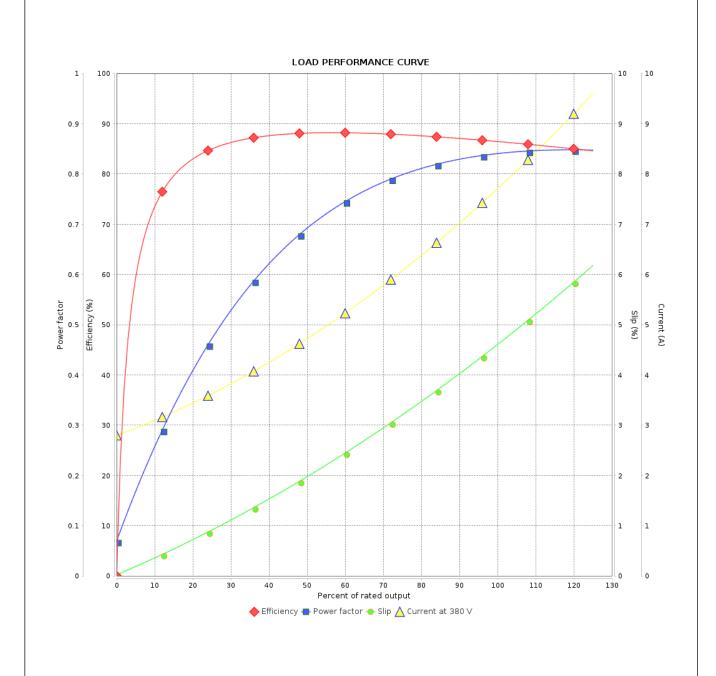
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12264594

Three-Phase



Performance	: 380 V 50 Hz 4P IE2				
Rated current	: 7.74 A	Moment of inertia (J)		: 0.0169 kgm	2
LRC	: 5.8	Duty cycle		: Cont.(S1)	
Rated torque	: 2.54 kgfm	Insulation class		: F	
Locked rotor torque	: 185 %	Service factor		: 1.15	
Breakdown torque	: 225 %	Temperature rise		: 80 K	
Rated speed	: 1430 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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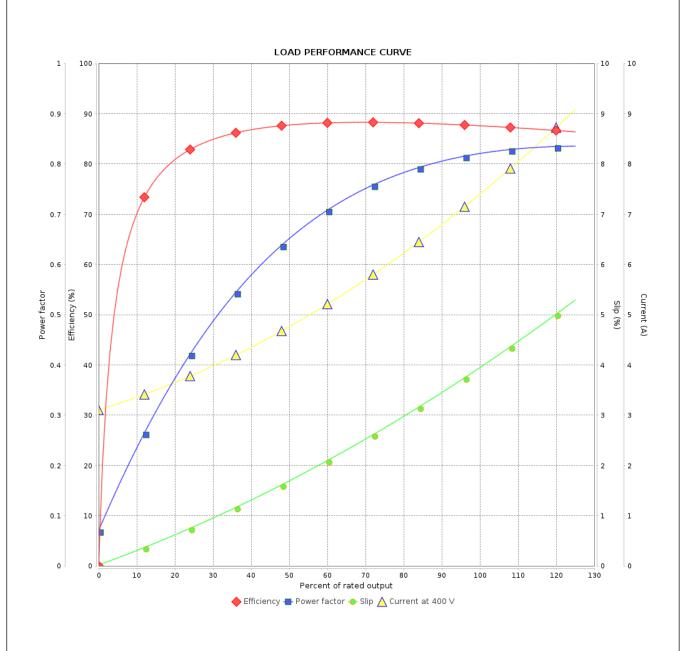
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12264594



Performance : 400 V 50 Hz 4P IE2 : 7.44 A : 0.0169 kgm² Rated current Moment of inertia (J) **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.52 kgfm : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage



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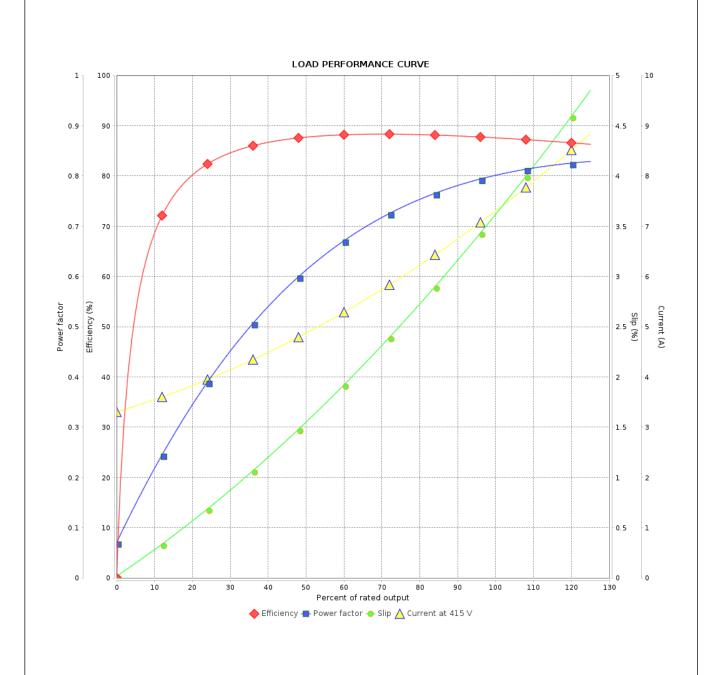
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Date

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Product line : W22 NEMA Premium Efficiency Product code : 12264594

Three-Phase



Performance	: 415 V 50 I	Hz 4P IE2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	•	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
Rated speed	: 1445 rpm	ļ ·	· ·		
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