DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11432088 Cooling method Frame : 254/6T : 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. : 156 kg Protection degree : IP56 Moment of inertia (J) : 0.1305 kgm² Design : B Output [HP] 20 15 20 15 15 20 20 Poles 4 4 4 4 4 4 4 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 460 380 400 415 400 415 29.4 Rated current [A] 24.1 21.8 21.2 20.6 28.0 27.1 L. R. Amperes [A] 157 161 167 173 168 174 179 LRC [A] 6.5x(Code | 7.4x(Code H) | 7.9x(Code J) | 8.4x(Code K) | 5.7x(Code F) | 6.2x(Code | 6.6x(Code H) G) G) No load current [A] 8.80 8.60 9.10 9.60 8.60 9.10 9.60 Rated speed [RPM] 1770 1475 1477 1479 1455 1460 1465 Slip [%] 1.67 1.67 1.53 1.40 3.00 2.67 2.33 Rated torque [kgfm] 8.20 7.38 7.37 7.36 9.98 9.94 9.91 Locked rotor torque [%] 240 250 280 300 190 210 229 Breakdown torque [%] 260 290 320 340 210 229 260 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 Locked rotor time 41s (cold) 41s (cold) 39s (cold) 37s (cold) 21s (cold) 23s (cold) 23s (cold) 23s (hot) 23s (hot) 22s (hot) 21s (hot) 12s (hot) 13s (hot) 13s (hot) 64.0 dB(A) 61.0 dB(A) 61.0 dB(A) Noise level² 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 91.0 90.9 89.2 89.2 92.3 90.8 90.8 50% 91.7 91.0 89.8 89.8 91.7 91.0 91.0 Efficiency (%) 75% 92.4 91.5 91.0 91.3 91.0 91.0 91.7 100% 93.0 91.4 91.4 91.7 90.2 91.0 91.7 25% 0.44 0.42 0.39 0.37 0.51 0.48 0.46 50% 0.65 0.62 0.60 0.75 0.72 0.70 0.68 Power Factor 75% 0.79 0.78 0.75 0.73 0.83 0.81 0.80 100% 0.84 0.84 0.82 0.81 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.5 7.5 7.5 7.5 7.5 7.5 7.5 P2 (0,5;1,0) 6.4 6.4 6.4 6.4 6.4 6.4 6.4 P3 (0,25;1,0) 5.9 5.9 5.9 5.9 5.9 5.9 5.9 P4 (0,9;0,5) 3.5 3.5 3.5 3.5 3.5 3.5 3.5 Losses (%) P5 (0,5;0,5) 2.5 2.5 2.5 2.5 2.5 2.5 2.5 P6 (0,5;0,25) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 P7 1.1 1.1 1.1 1.1 1.1 1.1 1.1 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3 : 327 kgf Max. traction Inpro/Seal Inpro/Seal Sealing Max. compression : 483 kgf Lubrication interval 20000 h 20000 h 9 g Lubricant amount 13 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

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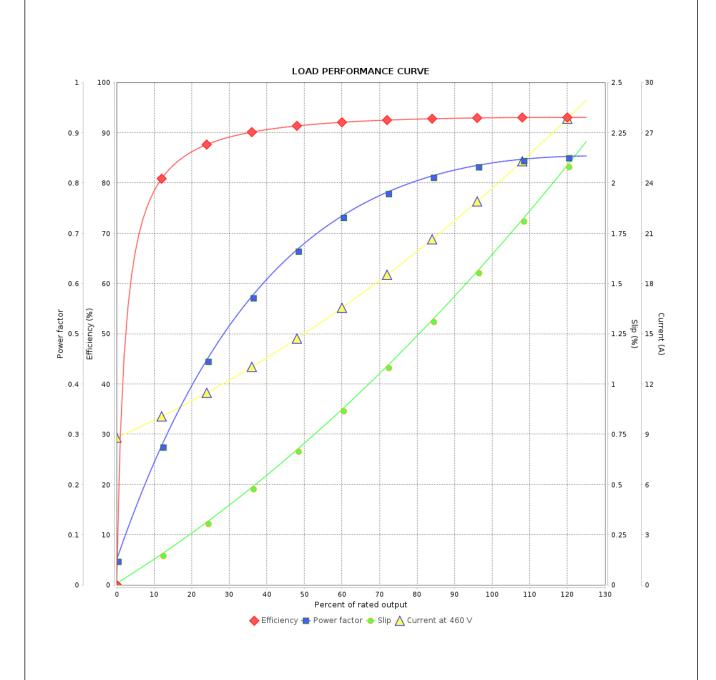
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11432088

Three-Phase



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 24.1 A : 6.5 : 8.20 kgfm : 240 % : 260 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1305 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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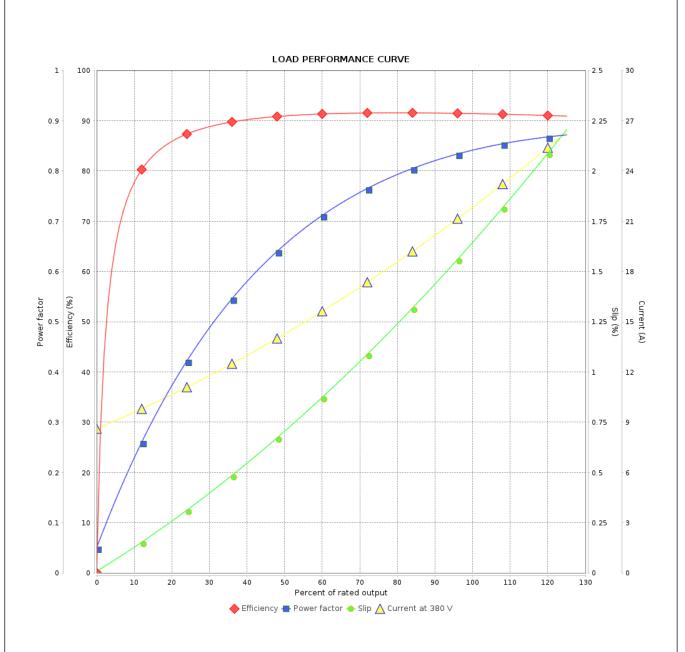
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three Phase

Product code:

11432088

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.8 A : 7.4 : 7.38 kgfm : 250 % : 290 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1305 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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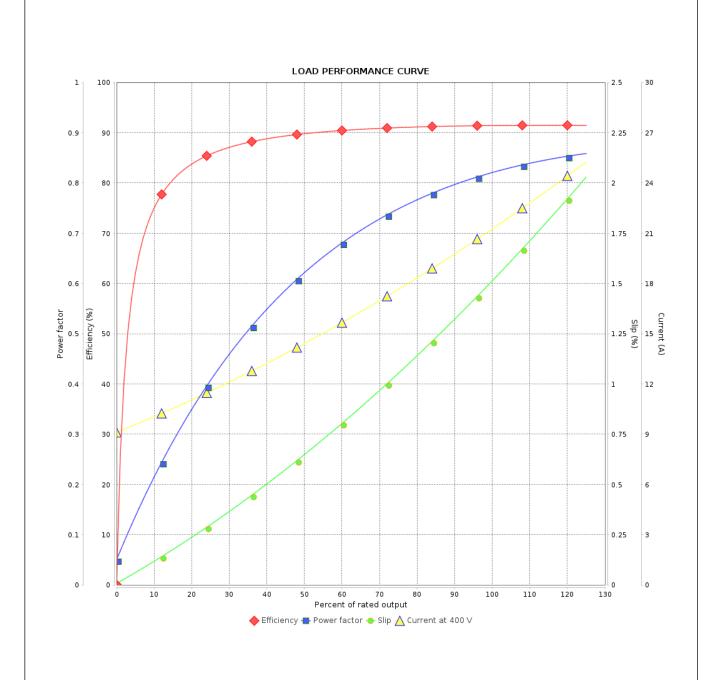
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11432088

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Moment of inertia (J) : 0.1305 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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Three Phase Induction Motor - Squirrel Cage



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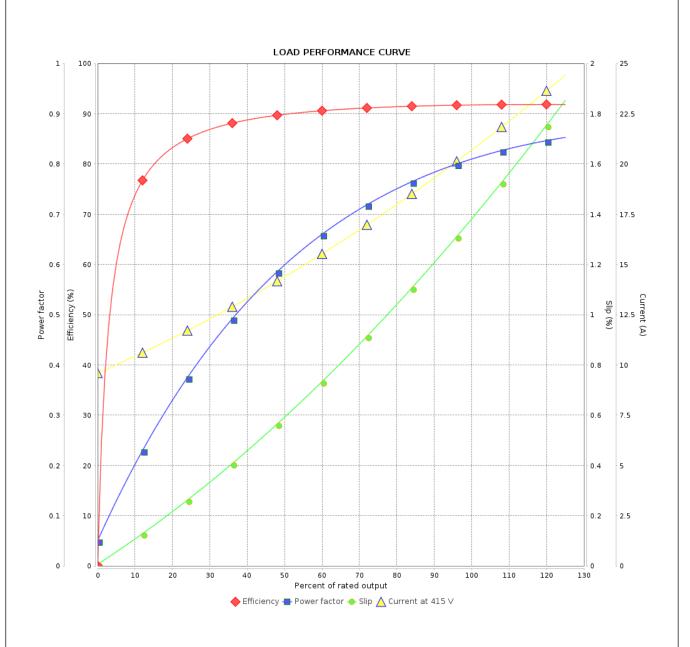
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 11432088



Performance : 415 V 50 Hz 4P IE3 : 0.1305 kgm² Rated current : 20.6 A Moment of inertia (J) **LRC** : 8.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.36 kgfm : F Locked rotor torque : 300 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1479 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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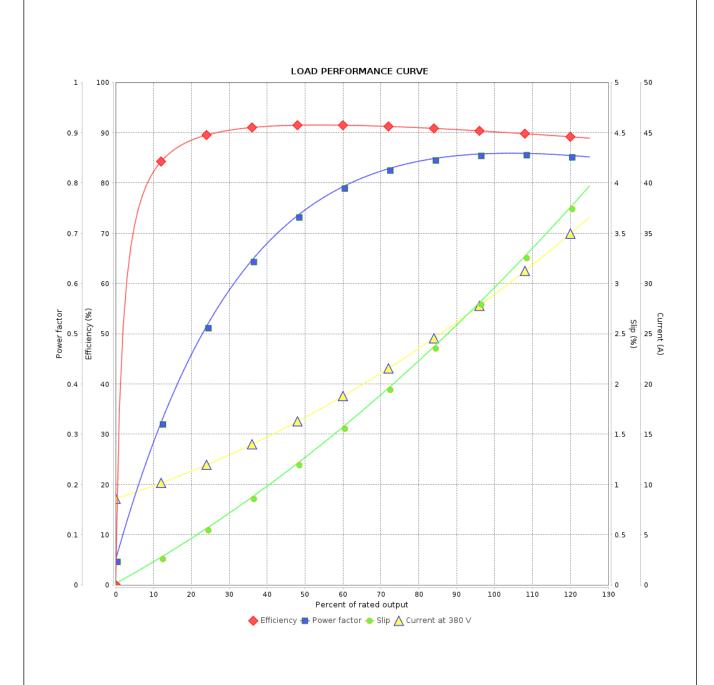
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11432088

Three-Phase



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.4 A : 5.7 : 9.98 kgfm : 190 % : 210 % : 1455 rpm	Moment of inertia (J) : 0.1305 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B			
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Three Phase Induction Motor - Squirrel Cage



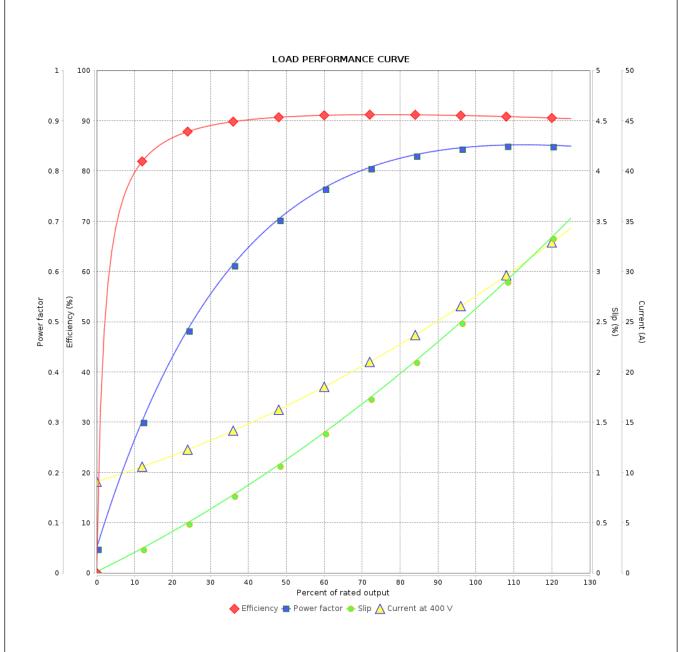
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Product line : W22 IEEE 841 NEMA Premium Efficiency

11432088

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Product code:



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 28.0 A : 6.2 : 9.94 kgfm : 210 % : 229 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1305 kgm² : Cont.(S1) : F : 1.00 : 105 K	
Rated speed	: 1460 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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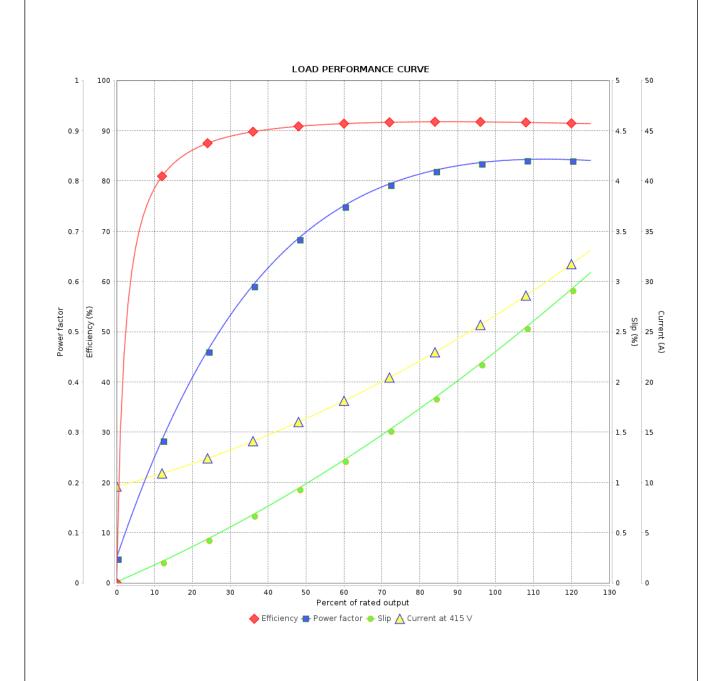
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11432088

Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC	: 27.1 A : 6.6	Moment of inertia (J) Duty cycle		: 0.1305 kgm² : Cont.(S1)	
Rated torque Locked rotor torque	: 9.91 kgfm : 229 %	Insulation class Service factor		: F : 1.00	
Breakdown torque Rated speed	: 260 % : 1465 rpm	Temperature rise Design		: 105 K : B	
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