DATA SHEET

Checked by

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 13869844 Efficiency Three-Phase Frame : 404/5T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ Altitude : 553 kg : 1.26 kgm² Protection degree : IP56 Moment of inertia (J) Design : B Output [HP] 100 100 100 100 Poles 4 4 4 4 50 50 50 Frequency [Hz] 60 Rated voltage [V] 460 380 400 415 Rated current [A] 131 116 142 135 L. R. Amperes [A] 837 719 795 865 LRC [A] 6.2x(Code G) 5.6x(Code F) 6.2x(Code G) 6.6x(Code G) No load current [A] 32.0 31.7 33.7 35.0 Rated speed [RPM] 1775 1465 1470 1475 Slip [%] 1.39 2.33 2.00 1.67 Rated torque [kgfm] 40.9 49.5 49.4 49.2 Locked rotor torque [%] 240 190 210 220 Breakdown torque [%] 220 170 190 210 Service factor 1.25 1.00 1.00 1.00 105 K 105 K Temperature rise 80 K 105 K Locked rotor time 23s (cold) 13s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) Noise level² 68.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 25% 50% 95.0 94.5 94.5 94.5 Efficiency (%) 75% 95.0 94.1 94.5 94.5 100% 95.4 93.6 94.1 94.5 25% 50% 0.77 0.82 0.79 0.77 Power Factor 75% 0.84 0.86 0.85 0.84 0.85 0.86 0.85 0.84 100% Losses at normative operating points (speed;torque), in percentage of rated output power 4.6 P1 (0,9;1,0) 4.6 4.6 4.6 P2 (0,5;1,0) 3.8 3.8 3.8 3.8 P3 (0,25;1,0) 3.7 3.7 3.7 3.7 P4 (0,9;0,5) 2.0 2.0 2.0 Losses (%) 2.0 P5 (0,5;0,5) 1.4 1.4 1.4 1.4 P6 (0,5;0,25) 0.8 0.8 0.8 0.8 P7 (0,25;0,25) 0.5 0.5 0.5 0.5 Drive end Non drive end Foundation loads Bearing type 6316 C3 6314 C3 Max. traction : 741 kaf Sealing Inpro/Seal Inpro/Seal Max. compression : 1294 kgf 10000 h 12000 h Lubrication interval Lubricant amount 34 g 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 must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. Performed Checked Rev. **Changes Summary** Date Performed by

Date	23/10/2024		1/6	
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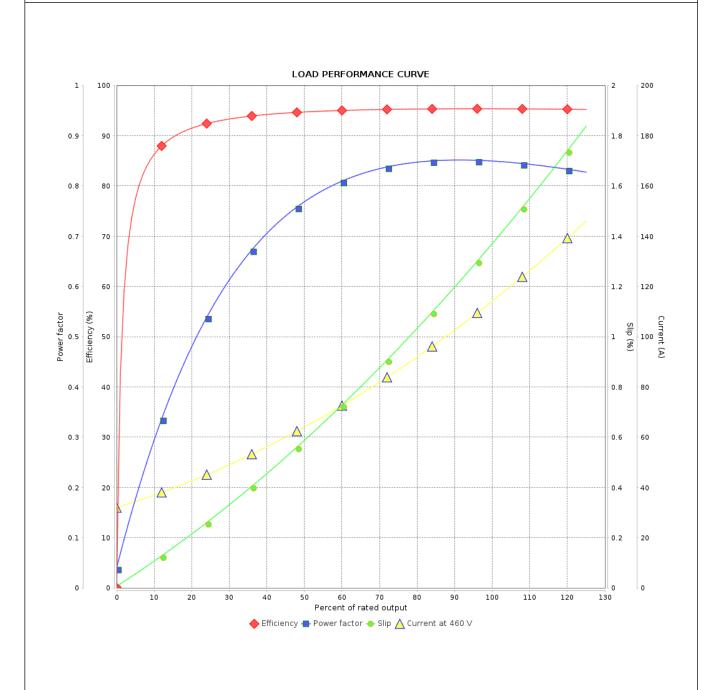
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23/10/2024

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 4P				
Rated current	: 116 A	1	of inertia (J)	: 1.26 kgm²	
LRC	: 6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 40.9 kgfm	Insulation	class	: F	
Locked rotor torque	: 240 %	Service fa	ector	: 1.25	
Breakdown torque	: 220 %	Temperat	ure rise	: 80 K	
Rated speed	: 1775 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

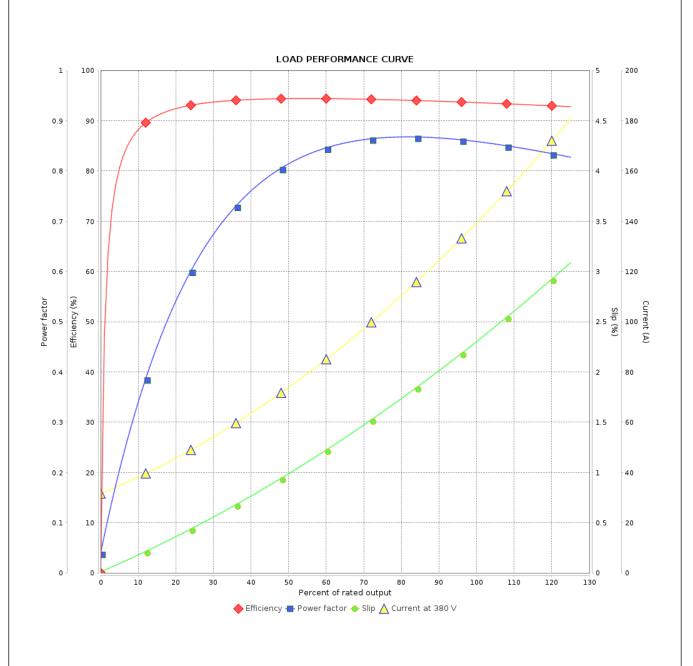


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13869844



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 142 A : 5.6 : 49.5 kgfm : 190 % : 170 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.26 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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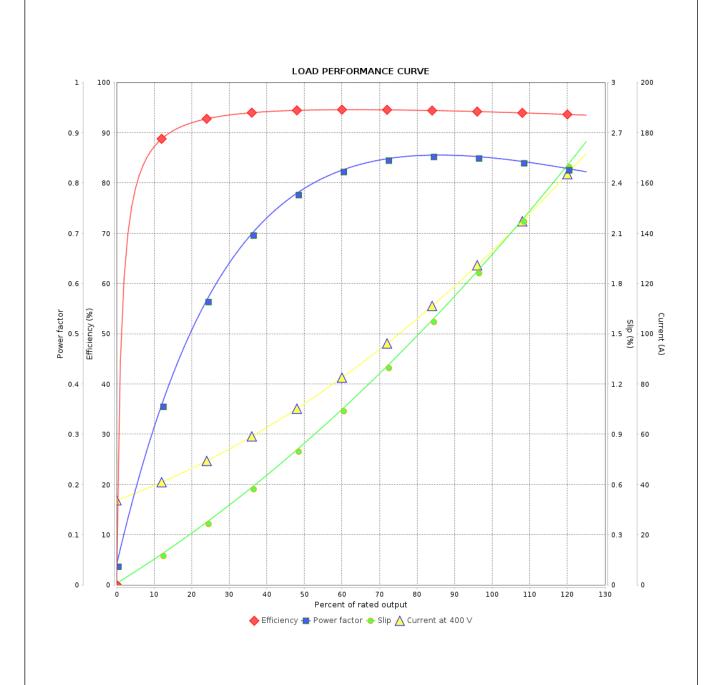
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 135 A : 6.2 : 49.4 kgfm : 210 % : 190 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.26 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage

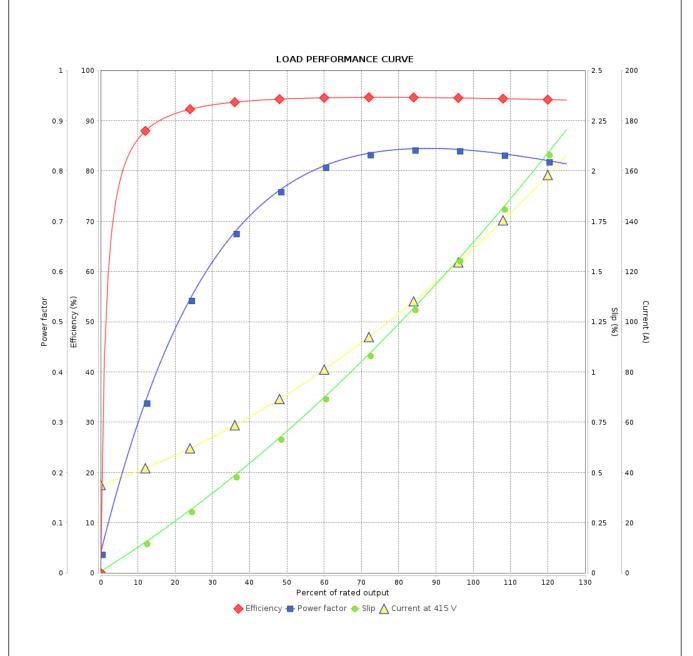


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13869844



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 131 A : 6.6 : 49.2 kgfm : 220 % : 210 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.26 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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