DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 14874120 Frame : 588/9T 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 : 2551 kg Altitude : 14.1 kgm² Protection degree : IP55 Moment of inertia (J) 700 600 600 Output [HP] 600 Poles 4 4 4 4 50 50 50 Frequency [Hz] 60 Rated voltage [V] 460 380 400 415 Rated current [A] 788 815 783 764 L. R. Amperes [A] 5122 4890 5324 5654 LRC [A] 6.5x(Code G) 6.0x(Code F) 6.8x(Code G) 7.4x(Code H) No load current [A] 240 240 260 280 Rated speed [RPM] 1790 1490 1490 1490 Slip [%] 0.56 0.67 0.67 0.67 Rated torque [kgfm] 292 284 292 292 Locked rotor torque [%] 250 229 250 280 Breakdown torque [%] 220 210 229 260 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 41s (cold) 23s (hot) 41s (cold) 23s (hot) 41s (cold) 23s (hot) 41s (cold) 23s (hot) Noise level² 81.0 dB(A) 76.0 dB(A) 76.0 dB(A) 76.0 dB(A) 25% 50% 96.2 96.2 96.2 95.8 Efficiency (%) 75% 96.5 96.5 96.5 96.2 100% 96.6 96.5 96.5 96.5 25% 0.76 0.77 0.73 0.71 50% Power Factor 75% 0.81 0.82 0.79 0.77 100% 0.85 0.85 0.84 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power 4.2 P1 (0,9;1,0) 4.2 4.2 4.2 P2 (0,5;1,0) 3.2 3.2 3.2 3.2 P3 (0,25;1,0) 2.5 2.5 2.5 2.5 Losses (%) P4 (0,9;0,5) 2.6 2.6 2.6 2.6 P5 (0,5;0,5) 1.8 1.8 1.8 1.8 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 P7 (0,25;0,25) 8.0 8.0 8.0 8.0 Drive end Non drive end Foundation loads Bearing type 6322 C3 6319 C3 Max. traction : 3927 kgf Sealing Taconite **Taconite** : 6477 kaf Max. compression Labyrinth Labyrinth 8000 h Lubrication interval 6000 h Lubricant amount 60 g 45 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.

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Three Phase Induction Motor - Squirrel Cage



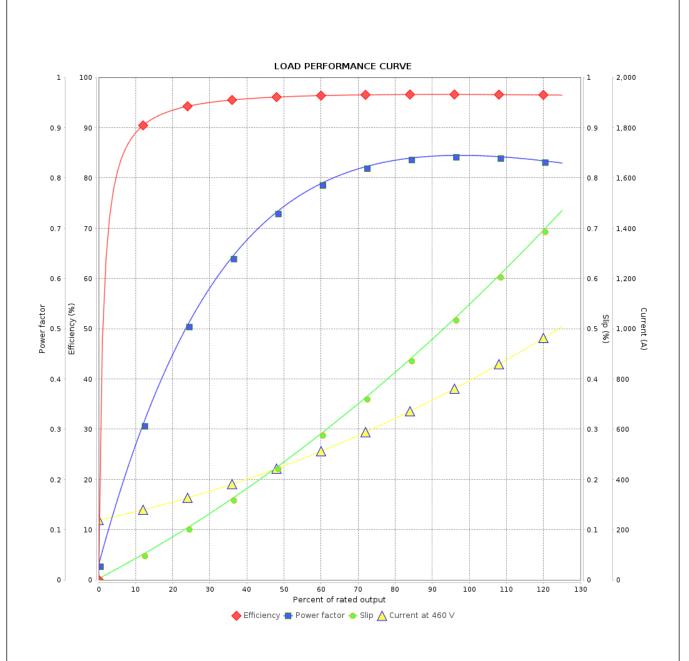
Customer

Product line : W22 NEMA Premium Efficiency Three-

Product code:

14874120

Phase



Performance : 460 V 60 Hz 4P : 788 A Moment of inertia (J) : 14.1 kgm² Rated current **LRC** : Cont.(S1) : 6.5 Duty cycle : 284 kgfm Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1790 rpm

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Three Phase Induction Motor - Squirrel Cage



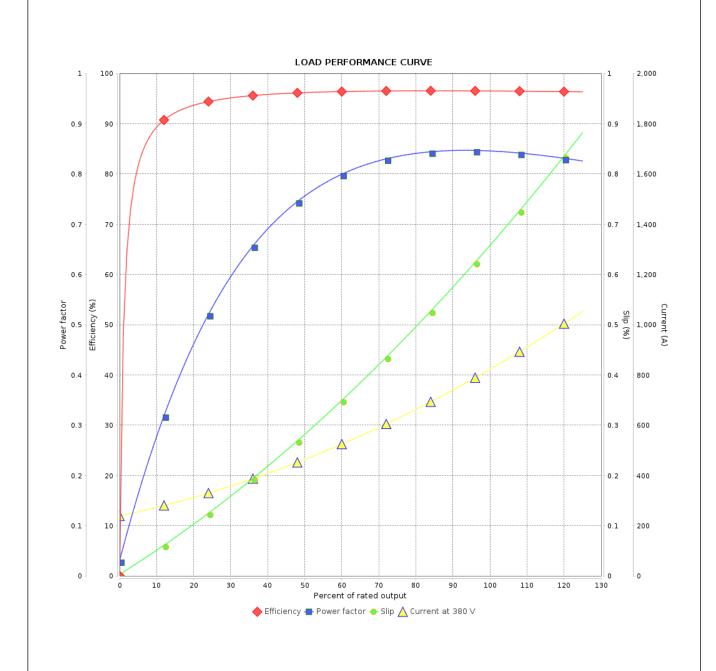
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Product line : W22 NEMA Premium Efficiency Three-

Product code:

14874120





 Performance
 : 380 V 50 Hz 4P IE3

 Rated current
 : 815 A
 Moment of inertia (J)
 : 14.1 kgm²

 LRC
 : 6.0
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 292 kgfm
 Insulation class
 : F

Locked rotor torque : 229 % Service factor : 1.00
Breakdown torque : 210 % Temperature rise : 80 K
Rated speed : 1490 rpm

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Three Phase Induction Motor - Squirrel Cage



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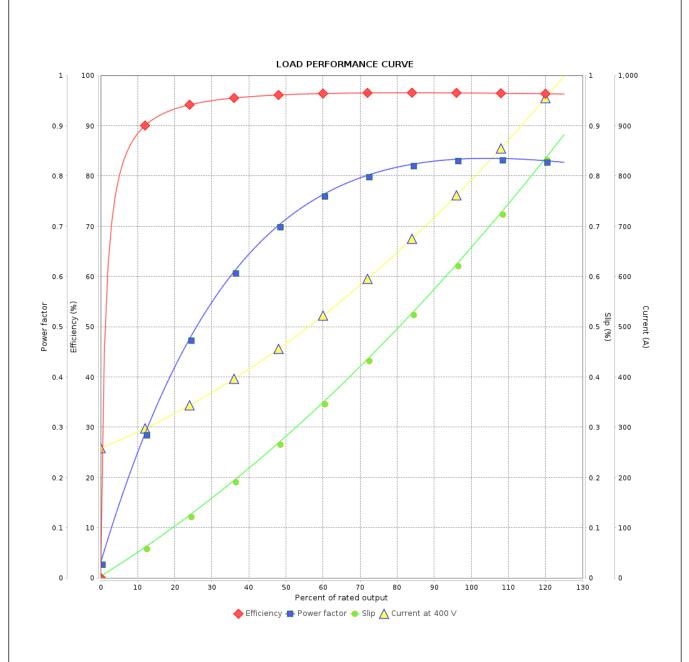
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Revision

Phase



Performance : 400 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 783 A : 6.8 : 292 kgfm : 250 % : 229 % : 1490 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 14.1 kgm² : Cont.(S1) : F : 1.00 : 80 K	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : W22 NEMA Premium Efficiency Three-

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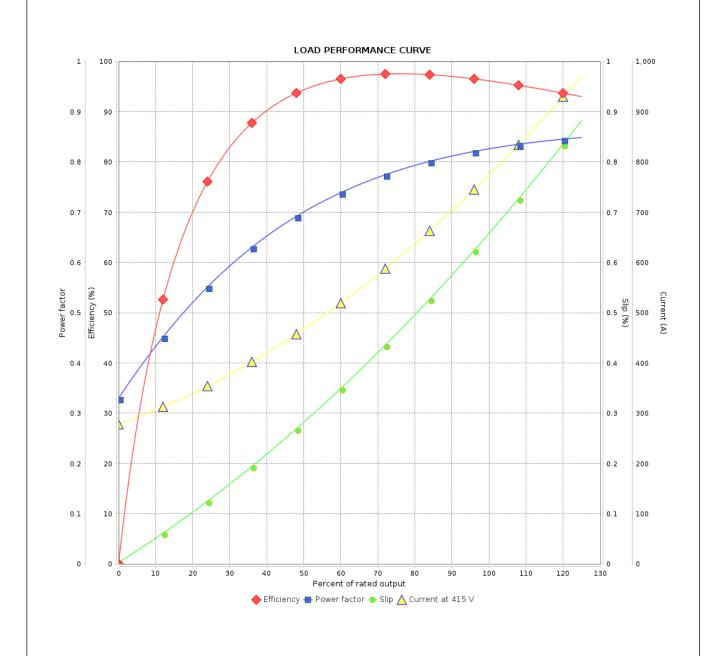
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Revision





Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 764 A : 7.4 : 292 kgfm : 280 % : 260 % : 1490 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 14.1 kgm² : Cont.(S1) : F : 1.00 : 80 K	
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