## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12373795 Efficiency Three-Phase Frame : 182/4T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 44.8 kg Altitude Protection degree : IP56 Moment of inertia (J) : 0.0143 kgm<sup>2</sup> Design : B Output [HP] 3 3 3 3 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 3.91 4.78 4.54 4.43 L. R. Amperes [A] 31.7 30.1 32.2 33.7 LRC [A] 8.1x(Code K) 6.3x(Code H) 7.1x(Code J) 7.6x(Code K) No load current [A] 2.00 2.00 2.10 2.25 Rated speed [RPM] 1760 1445 1450 1455 Slip [%] 2.22 3.67 3.33 3.00 Rated torque [kgfm] 1.24 1.51 1.50 1.50 Locked rotor torque [%] 220 220 220 240 Breakdown torque [%] 330 250 290 320 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Locked rotor time 41s (cold) 23s (hot) Noise level<sup>2</sup> 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 87.5 87.5 87.5 87.5 Efficiency (%) 75% 88.5 87.5 87.5 87.5 100% 89.5 87.5 87.5 87.5 25% 50% 0.61 0.68 0.64 0.61 Power Factor 75% 0.71 0.77 0.75 0.73 0.79 0.80 0.80 0.79 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.4 13.4 11.0 13.4 P2 (0,5;1,0) 10.8 10.8 8.9 10.8 P3 (0,25;1,0) 10.7 8.8 10.7 10.7 P4 (0,9;0,5) 7.4 7.4 Losses (%) 6.1 7.4 P5 (0,5;0,5) 4.9 4.9 4.9 4.0 P6 (0,5;0,25) 3.0 3.6 3.6 3.6 P7 (0,25;0,25) 2.1 2.6 2.6 2.6 Non drive end Foundation loads Drive end Bearing type 6207 C3 6206 C3 Max. traction : 78 kaf Sealing Inpro/Seal Inpro/Seal Max. compression : 122 kgf 20000 h 20000 h Lubrication interval Lubricant amount 7 g 5 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 MG-1. (1) Looking the motor from the shaft end. (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 Checked by Page Revision

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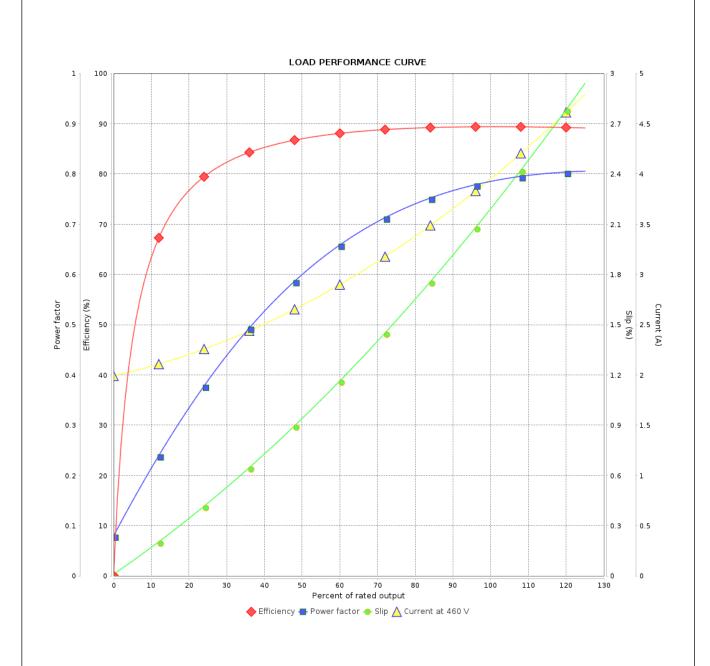
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Product line : W22 IEEE 841 NEMA Premium Product code : 12373795

Efficiency Three-Phase



Performance	: 460 V 60 Hz 4P				
Fellolillalice	. 400 V 00 112 4F				
Rated current	: 3.91 A	Moment of inertia (J)		: 0.0143 kgm²	
LRC	: 8.1	Duty cycle		: Cont.(S1)	
Rated torque	: 1.24 kgfm	Insulation class		: F ` ´	
Locked rotor torque	: 220 %	Service factor		: 1.25	
Breakdown torque	: 330 %	Temperature rise		: 80 K	
Rated speed	: 1760 rpm	Design		: B	
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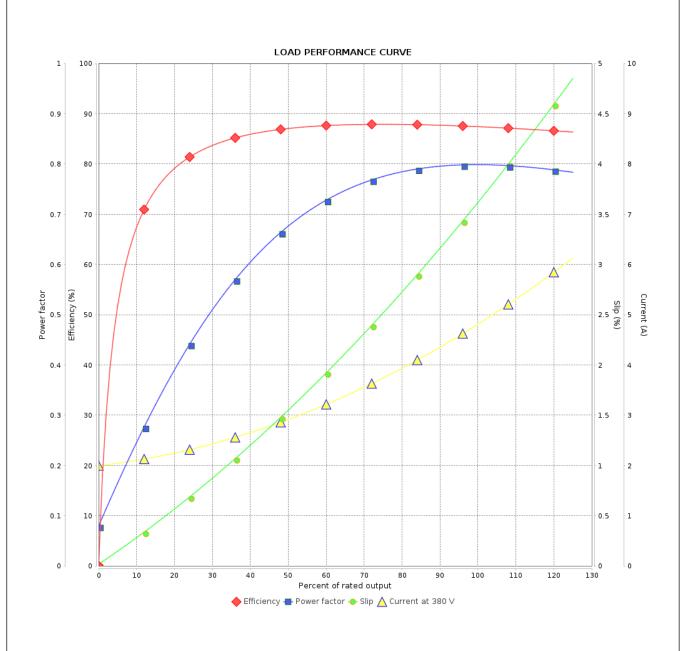


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12373795



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.78 A : 6.3 : 1.51 kgfm : 220 % : 250 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0143 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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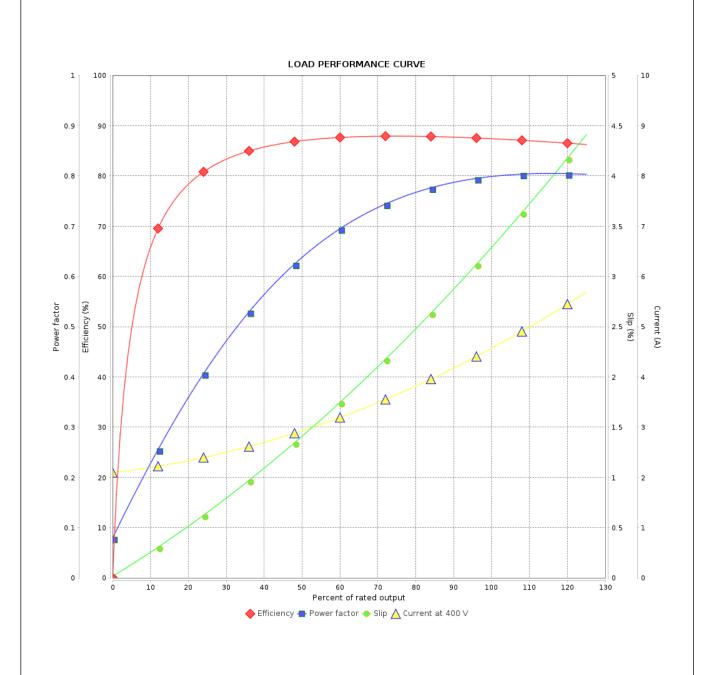
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 400 V 50 Hz 4P I	E3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 4.54 A : 7.1 : 1.50 kgfm : 220 % : 290 % : 1450 rpm	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0143 kgm² : Cont.(S1) : F : 1.25 : 80 K : B		
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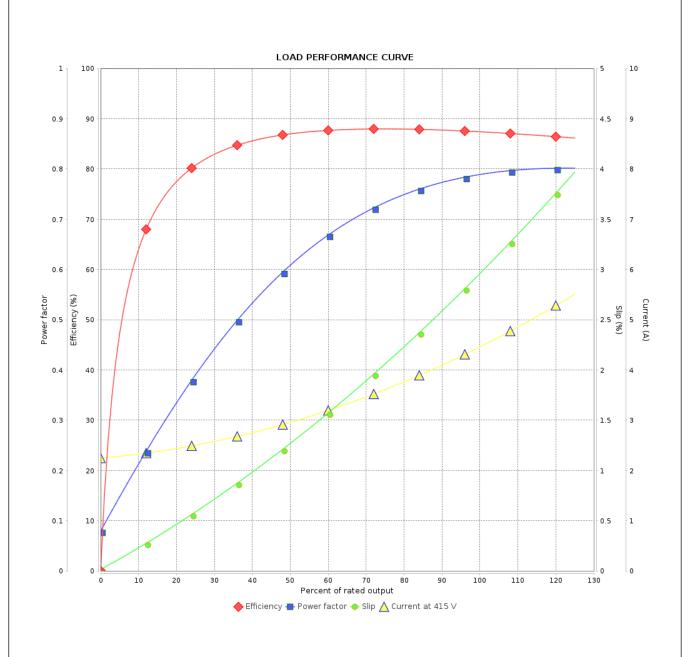


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12373795



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 4.43 A : 7.6 : 1.50 kgfm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0143 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor torque Breakdown torque Rated speed	: 240 % : 320 % : 1455 rpm				
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