DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11431667 Three-Phase Frame : 284/6T 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 : 201 kg Protection degree : IP56 Moment of inertia (J) : 0.2467 kgm² Design : B Output [HP] 30 30 30 30 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 35.1 43.1 41.1 39.7 L. R. Amperes [A] 214 228 247 238 LRC [A] 6.1x(Code G) 5.3x(Code F) 6.0x(Code G) 6.0x(Code G) No load current [A] 12.3 12.2 13.1 13.8 Rated speed [RPM] 1770 1455 1460 1465 Slip [%] 1.67 3.00 2.67 2.33 Rated torque [kgfm] 12.3 15.0 14.9 14.9 Locked rotor torque [%] 240 170 190 220 Breakdown torque [%] 240 200 220 250 Service factor 1.25 1.00 1.00 1.00 80 K 105 K 105 K 105 K Temperature rise Locked rotor time 36s (cold) 20s (hot) 23s (cold) 13s (hot) 23s (cold) 13s (hot) 21s (cold) 12s (hot) Noise level² 63.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 92.3 89.8 90.3 91.0 50% 93.0 90.0 90.5 91.2 Efficiency (%) 75% 93.0 90.2 91.0 91.7 100% 93.6 90.2 91.0 91.7 25% 0.46 0.50 0.46 0.53 50% 0.70 0.76 0.73 0.70 Power Factor 75% 0.80 0.83 0.82 0.80 0.85 0.84 100% 0.84 0.86

Losses at normative operating points (speed;torque), in percentage of rated output power

	P1 (0,9;1,0)	6.8	6.8	6.8	6.8
	P2 (0,5;1,0)	5.8	5.8	5.8	5.8
	P3 (0,25;1,0)	5.2	5.2	5.2	5.2
Losses (%)	P4 (0,9;0,5)	3.1	3.1	3.1	3.1
	P5 (0,5;0,5)	2.2	2.2	2.2	2.2
	P6 (0,5;0,25)	1.4	1.4	1.4	1.4
	P7 (0,25;0,25)	0.9	0.9	0.9	0.9

Drive end Non drive end Foundation loads

Bearing type 6311 C3 6211 C3 Max. traction : 431 kaf Sealing Inpro/Seal Inpro/Seal Max. compression : 632 kgf

20000 h Lubrication interval 20000 h Lubricant amount 18 g 11 g Mobil Polyrex EM Lubricant type

This revision replaces and cancel the previous one, which must be eliminated.

- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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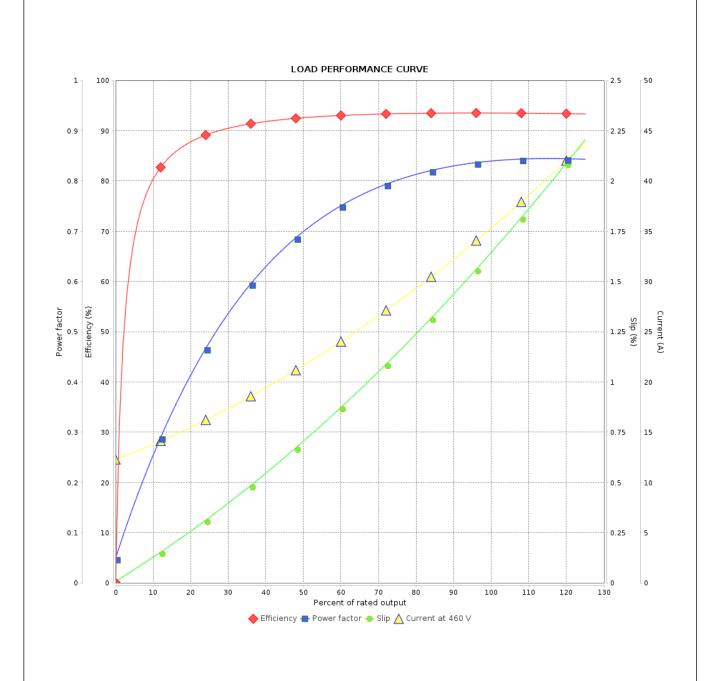
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11431667

Three-Phase



Performance	: 460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.1 A : 6.1 : 12.3 kgfm : 240 % : 240 % : 1770 rpm	: 6.1 : 12.3 kgfm : 240 % : 240 % : 240 % Duty cycle Insulation class Service factor Temperature rise		: 0.2467 kgm² : Cont.(S1) : F : 1.25 : 80 K : B		
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Three Phase Induction Motor - Squirrel Cage



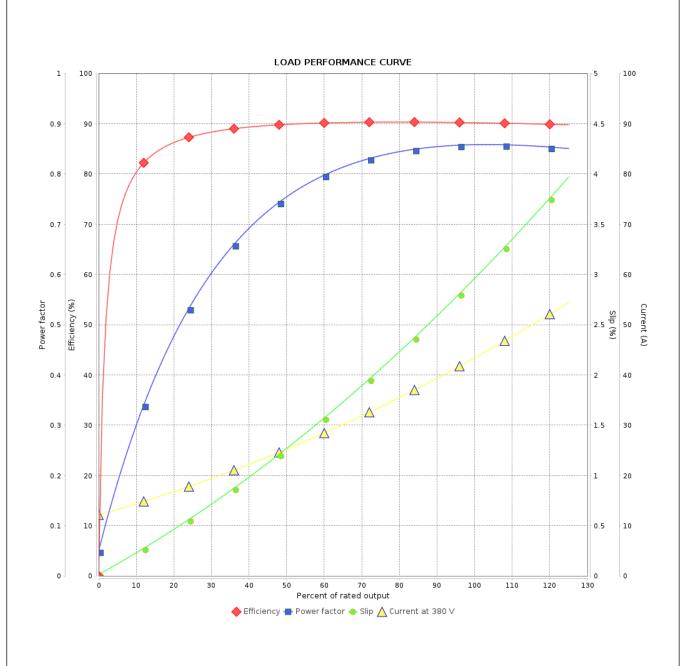
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

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Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.1 A : 5.3 : 15.0 kgfm : 170 % : 200 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm ² : Cont.(S1) : F : 1.00 : 105 K : B	
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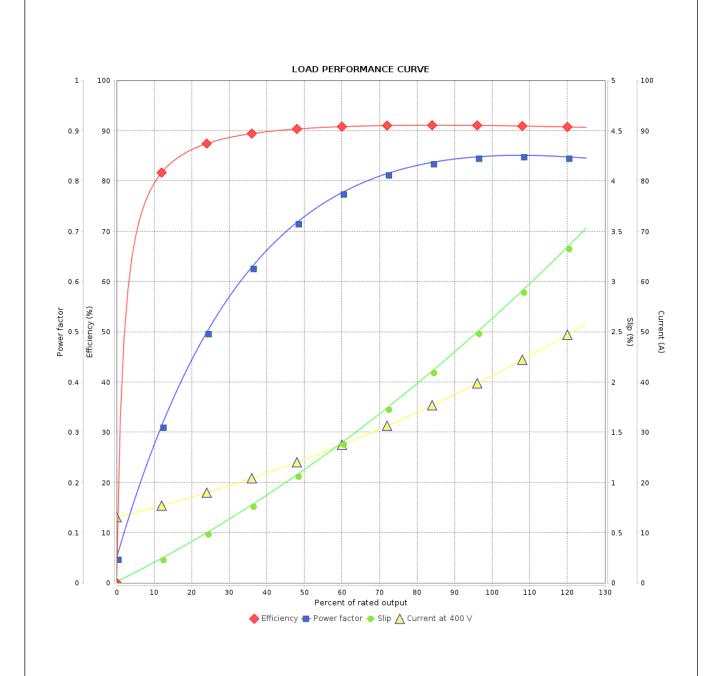
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11431667

Three-Phase



Performance	: 400 V 50 Hz 4P I	E1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 41.1 A : 6.0 : 14.9 kgfm : 190 % : 220 % : 1460 rpm		Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	2
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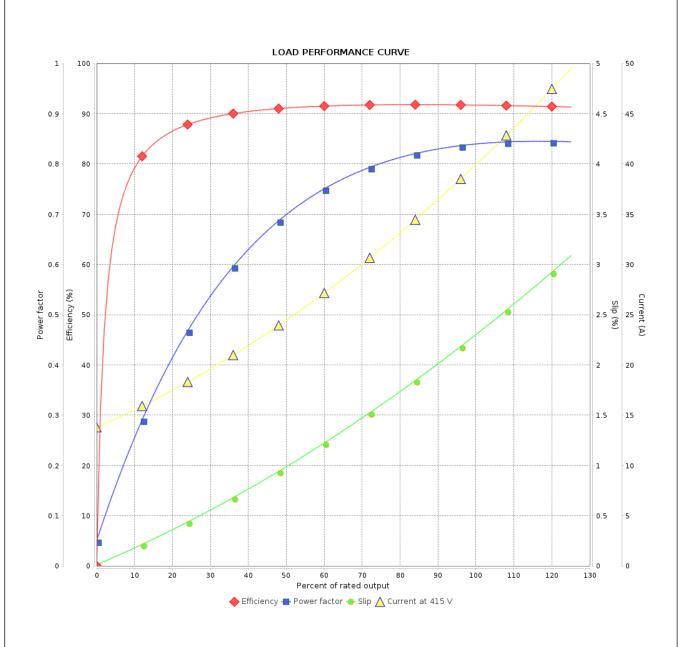


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 11431667



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 39.7 A : 6.0 : 14.9 kgfm : 220 % : 250 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.2467 kgm ² : Cont.(S1) : F : 1.00 : 105 K : B	2
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