### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11457085 Three-Phase : 284/6TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 203 kg Protection degree : IP55 Moment of inertia (J) : 0.2467 kgm<sup>2</sup> Design : B Output [HP] 30 25 25 30 25 30 30 Poles 4 4 4 4 4 4 4 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 43.1 70.2/35.1 35.7 34.3 33.9 41.1 39.7 L. R. Amperes [A] 428/214 214 230 247 228 247 238 LRC [A] 6.1x(Code 6.0x(Code | 6.7x(Code H) | 7.3x(Code J) | 5.3x(Code F) | 6.0x(Code 6.0x(Code G) G) G) G) No load current [A] 24.6/12.3 12.2 13.1 13.8 12.2 13.1 13.8 Rated speed [RPM] 1770 1465 1470 1475 1455 1460 1465 1.67 Slip [%] 2.33 2.00 1.67 3.00 2.67 2.33 Rated torque [kgfm] 12.3 12.4 12.3 12.3 15.0 14.9 14.9 Locked rotor torque [%] 240 200 229 260 170 190 220 Breakdown torque [%] 240 229 260 280 200 220 240 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 27s (cold) 21s (cold) Locked rotor time 36s (cold) 27s (cold) 27s (cold) 23s (cold) 23s (cold) 20s (hot) 15s (hot) 15s (hot) 15s (hot) 13s (hot) 13s (hot) 12s (hot) Noise level<sup>2</sup> 63.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 0.000 0.000 50% 93.0 92.1 92.1 91.6 90.0 90.5 91.2 Efficiency (%) 75% 93.0 92.5 92.8 92.5 90.2 91.0 91.7 100% 93.6 92.6 92.7 92.6 90.2 91.0 91.7 25% 0.00 0.00 50% 0.70 0.70 0.67 0.64 0.76 0.73 0.70 Power Factor 75% 0.80 0.81 0.79 0.76 0.83 0.82 0.80 100% 0.84 0.85 0.84 0.82 0.86 0.85 0.84 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 6.8 6.8 6.8 P2 (0,5;1,0) 5.8 5.8 5.8 5.8 5.8 5.8 5.8 P3 (0,25;1,0) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 P4 (0,9;0,5) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 Losses (%) P5 (0,5;0,5) 2.2 2.2 2.2 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 1.4 1.4 1.4 P7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 409 kgf Max. traction Sealing V'Ring V'Ring : 611 kgf Max. compression Lubrication interval 20000 h 20000 h 11 g Lubricant amount 18 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 19/10/2024 1/9 Date

# DATA SHEET



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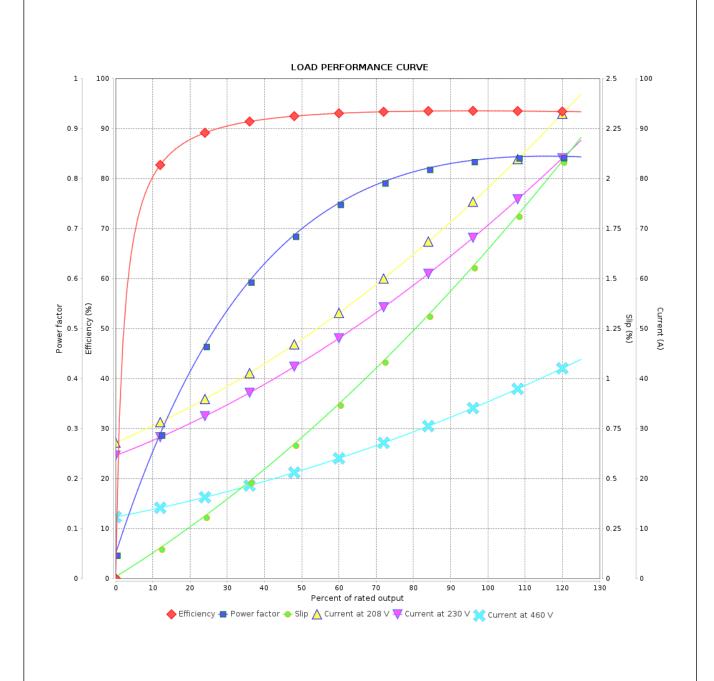
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11457085

Three-Phase



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 70.2/35.1 A : 6.1 : 12.3 kgfm : 240 % : 240 % : 1770 rpm	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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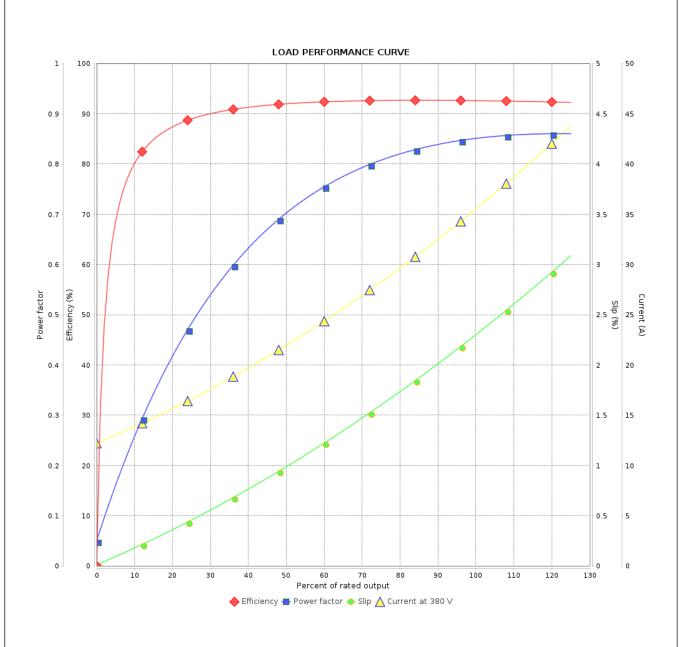
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11457085



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.7 A : 6.0 : 12.4 kgfm : 200 % : 229 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.2467 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

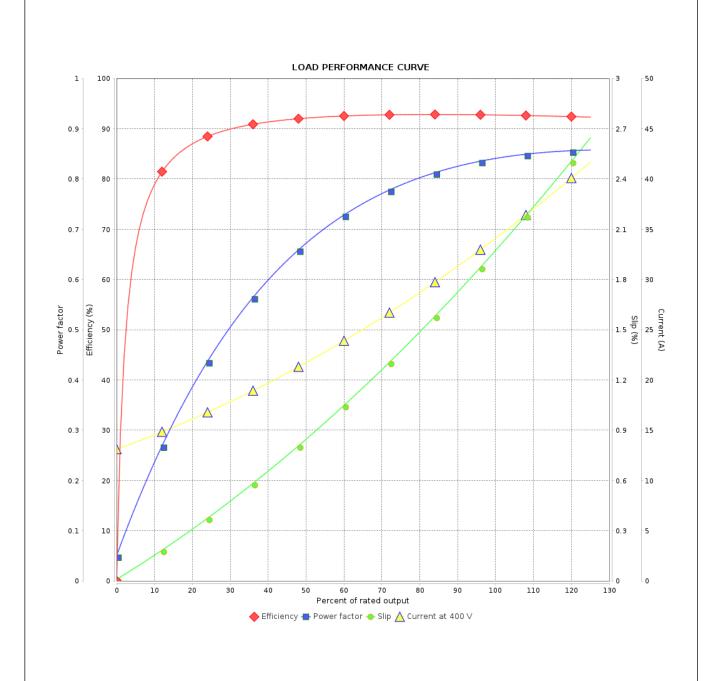
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Product line : W22 NEMA Premium Efficiency Product code : 11457085

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 34.3 A	Moment of inertia (J)		: 0.2467 kgm²	
LRC : 6.7		Duty cycle		: Cont.(S1)	
Rated torque	: 12.3 kgfm	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage

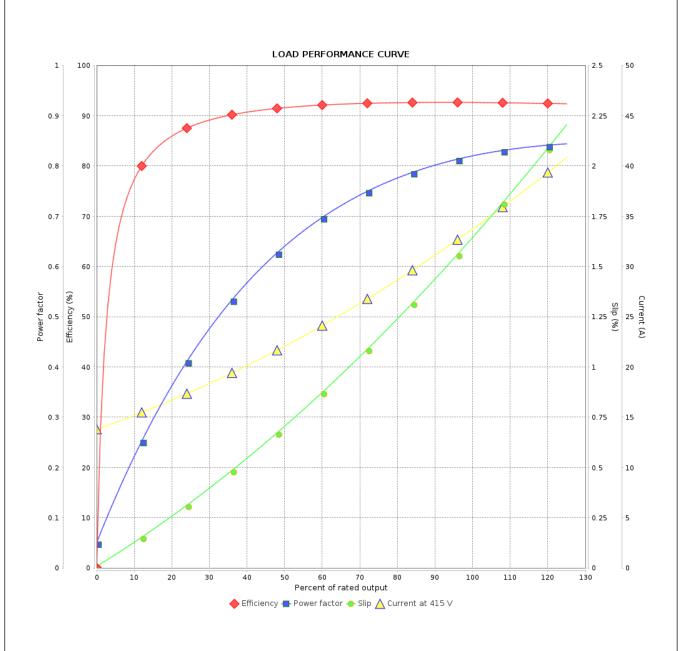


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11457085



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.9 A : 7.3 : 12.3 kgfm : 260 % : 280 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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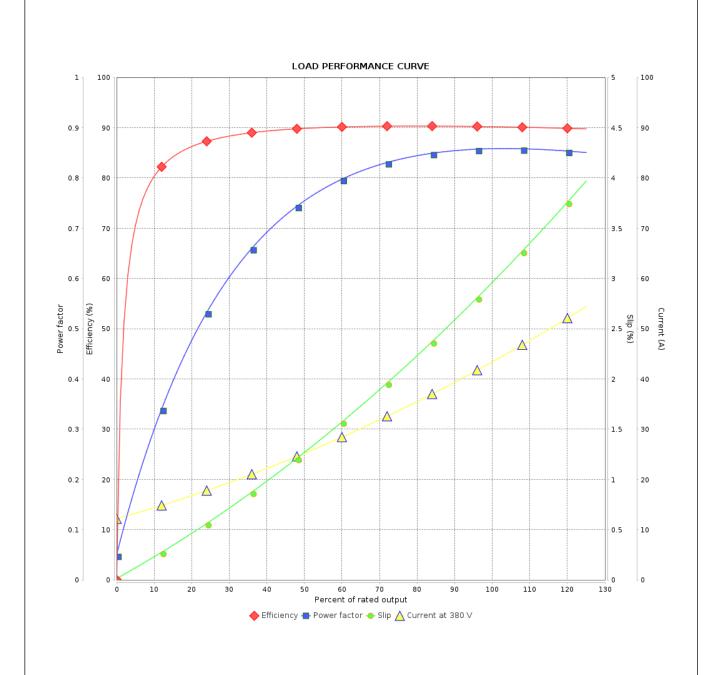
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Product line : W22 NEMA Premium Efficiency Product code : 11457085

Three-Phase



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 Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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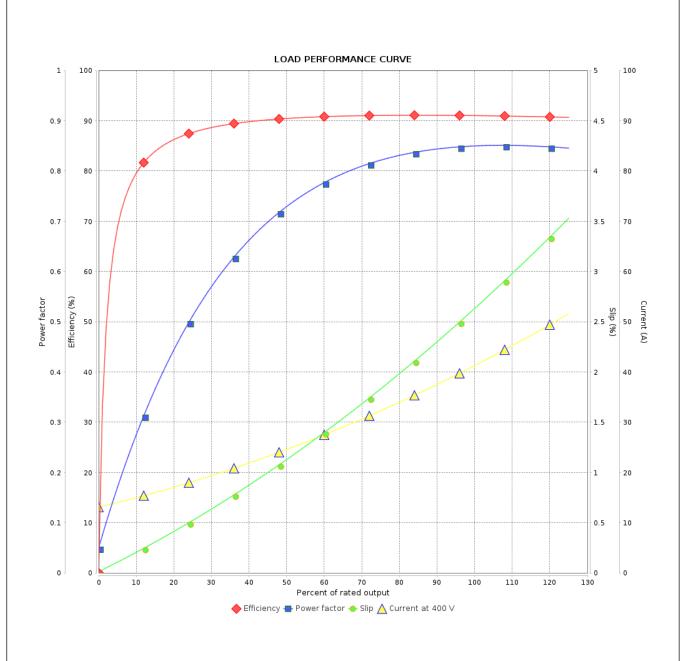
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

11457085

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Performance	: 400 V 50 Hz 4P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 6.0 : 14.9 kgfm : 190 % : 220 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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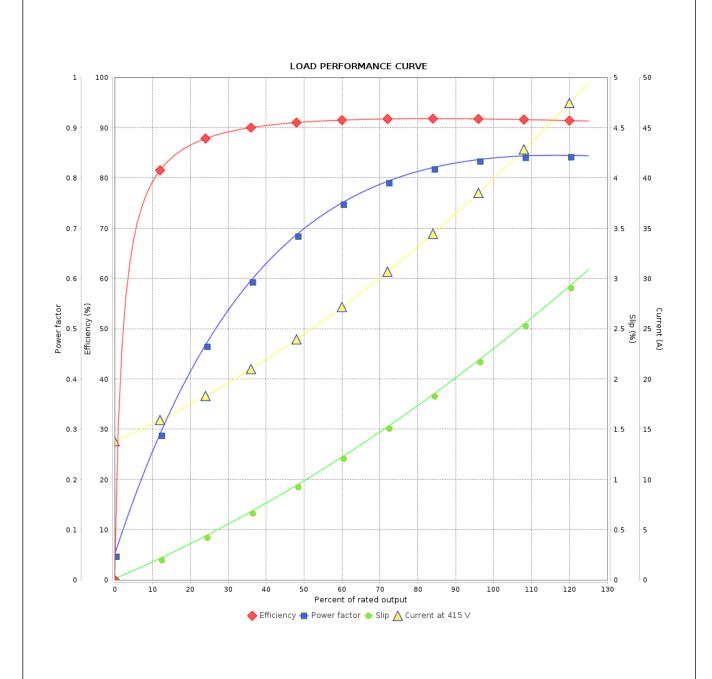
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Product line : W22 NEMA Premium Efficiency Product code : 11457085

Three-Phase



Performance		: 415 V 50 Hz 4P II	Ξ2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 39.7 A : 6.0 : 14.9 kgfm : 220 % : 240 % : 1465 rpm	I   !   -	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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