### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11438075 Three-Phase : 324/6TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : 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. : 278 kg Protection degree : IP55 Moment of inertia (J) : 0.3861 kgm<sup>2</sup> Design : B Output [HP] 50 40 40 50 40 50 50 Poles 4 4 4 4 4 4 4 60 50 50 50 Frequency [Hz] 50 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 71.6 118/59.2 58.7 57.1 56.4 68.4 66.3 L. R. Amperes [A] 734/367 376 400 417 372 397 411 LRC [A] 6.2x(Code 6.4x(Code | 7.0x(Code H) | 7.4x(Code J) | 5.2x(Code E) | 5.8x(Code F) | 6.2x(Code G) G) G) No load current [A] 47.0/23.5 23.0 24.0 25.0 23.0 24.0 25.0 Rated speed [RPM] 1775 1475 1477 1478 1460 1465 1470 Slip [%] 1.39 1.67 1.53 1.47 2.67 2.33 2.00 Rated torque [kgfm] 20.4 19.7 19.7 19.6 24.9 24.8 24.7 Locked rotor torque [%] 229 229 250 260 180 200 210 Breakdown torque [%] 270 260 300 330 200 240 260 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 19s (cold) 19s (cold) Locked rotor time 27s (cold) 19s (cold) 19s (cold) 19s (cold) 19s (cold) 15s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) Noise level<sup>2</sup> 70.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 0.000 50% 93.0 92.5 91.5 91.5 93.0 92.4 92.4 Efficiency (%) 75% 94.1 93.1 92.8 93.0 93.0 93.0 93.0 100% 94.5 93.6 93.6 93.6 92.4 93.0 93.5 25% 0.00 50% 0.64 0.60 0.57 0.72 0.68 0.65 0.66 Power Factor 75% 0.77 0.77 0.73 0.70 0.81 0.79 0.76 100% 0.83 0.83 0.81 0.79 0.85 0.84 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.7 5.7 5.7 5.7 5.7 5.7 5.7 P2 (0,5;1,0) 4.9 4.9 4.9 4.9 4.9 4.9 4.9 P3 (0,25;1,0) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P4 (0,9;0,5) 2.7 2.7 2.7 2.7 2.7 2.7 2.7 Losses (%) P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.2 1.2 1.2 1.2 1.2 1.2 1.2 P7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6312 C3 6212 C3 : 669 kgf Max. traction Sealing V'Ring V'Ring : 947 kgf Max. compression Lubrication interval 20000 h 20000 h 13 g Lubricant amount 21 g 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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Customer	:			
Notes USABLE @208\	/ 131A SF 1.15 SFA 151A			
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### Three Phase Induction Motor - Squirrel Cage



Customer :

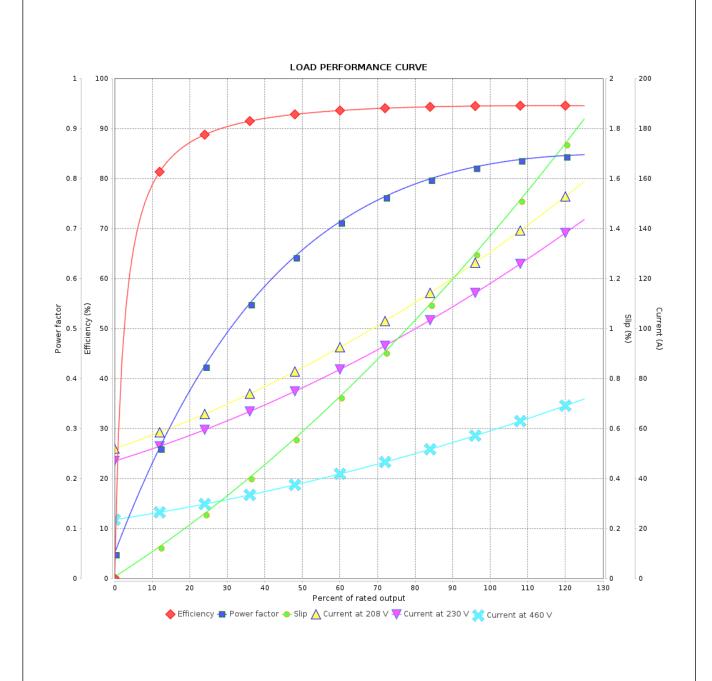
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Date

19/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11438075

Three-Phase



Performance		: 230/460 V 60 H	z 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 118/59.2 A : 6.2 : 20.4 kgfm : 229 % : 270 % : 1775 rpm	, ,		: 1.25 : 80 K	1 <sup>2</sup>	
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#### Three Phase Induction Motor - Squirrel Cage



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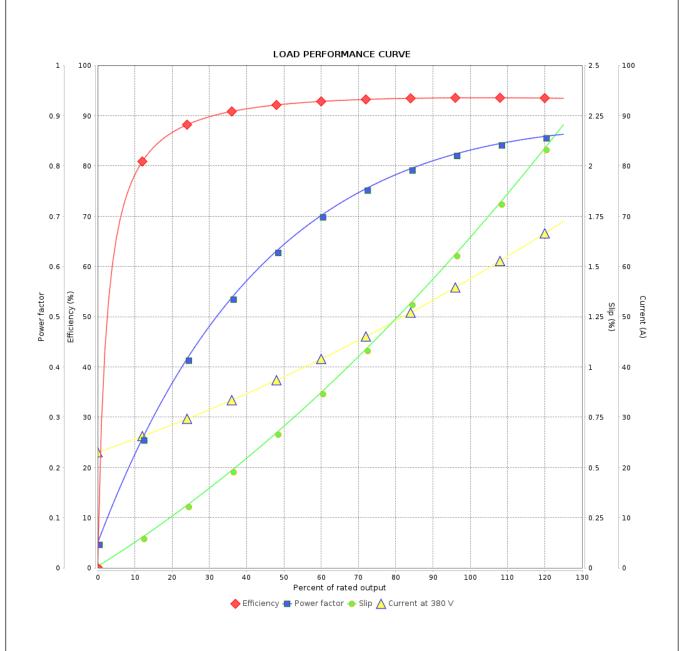
Date

19/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438075



Performance : 380 V 50 Hz 4P IE3 : 0.3861 kgm<sup>2</sup> Rated current : 58.7 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class Rated torque : 19.7 kgfm : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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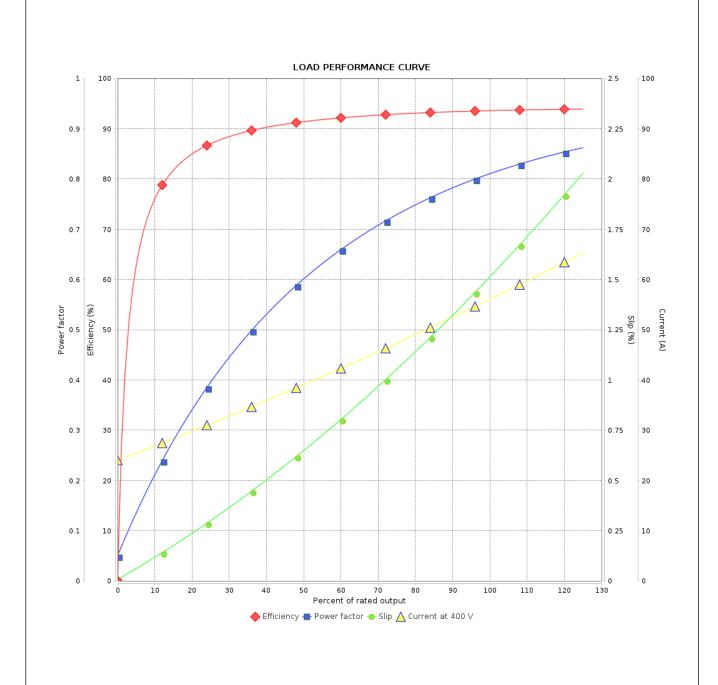
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11438075

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.1 A : 7.0 : 19.7 kgfm : 250 % : 300 % : 1477 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3861 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

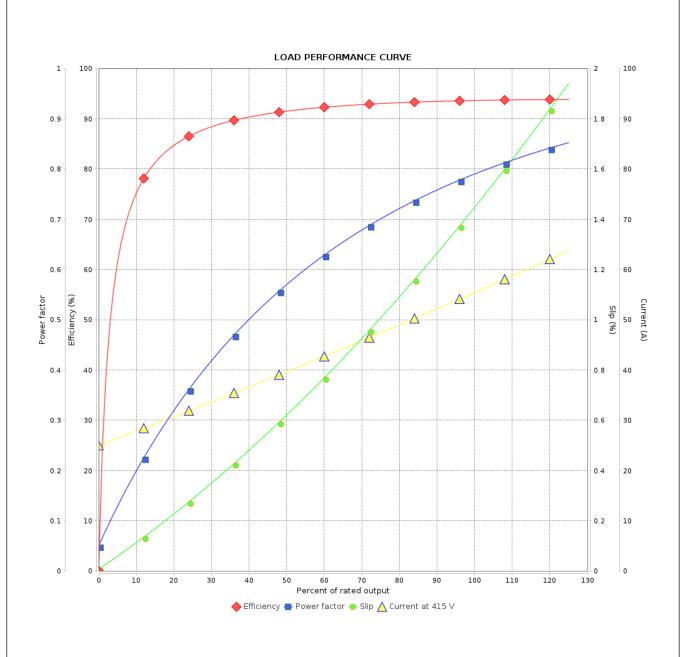
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code :

11438075

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Performance	: 415 V 50 Hz 4P IE3			
renormance	. 413 V 30 112 4F 1E3			
Rated current	: 56.4 A	Moment of inertia (J)	: 0.3861 kgm² : Cont.(S1) : F : 1.00	
LRC	: 7.4	Duty cycle		
Rated torque	: 19.6 kgfm	Insulation class		
Locked rotor torque	: 260 %	Service factor		
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 1478 rpm	Design	: B	
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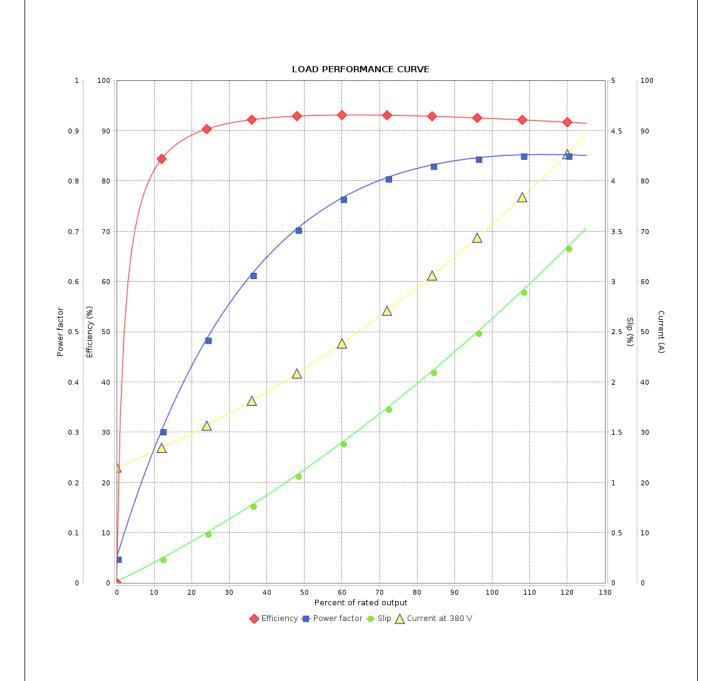
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11438075

Three-Phase



Performance	: 380 V 50 Hz 4P II	E1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 71.6 A : 5.2 : 24.9 kgfm : 180 % : 200 % : 1460 rpm	Duty cycl Insulation Service fa	Duty cycle Insulation class Service factor Temperature rise		2
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#### Three Phase Induction Motor - Squirrel Cage



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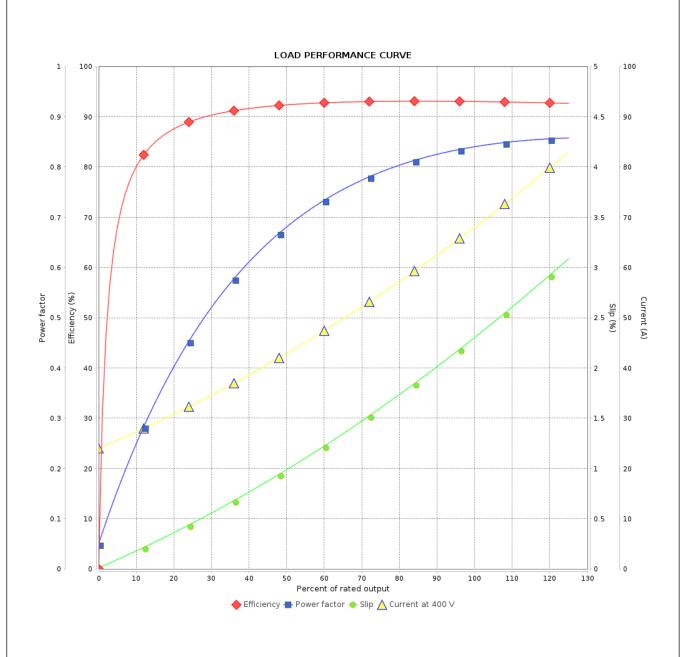
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438075



Performance : 400 V 50 Hz 4P IE2 : 0.3861 kgm<sup>2</sup> Rated current : 68.4 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class Rated torque : 24.8 kgfm : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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### Three Phase Induction Motor - Squirrel Cage

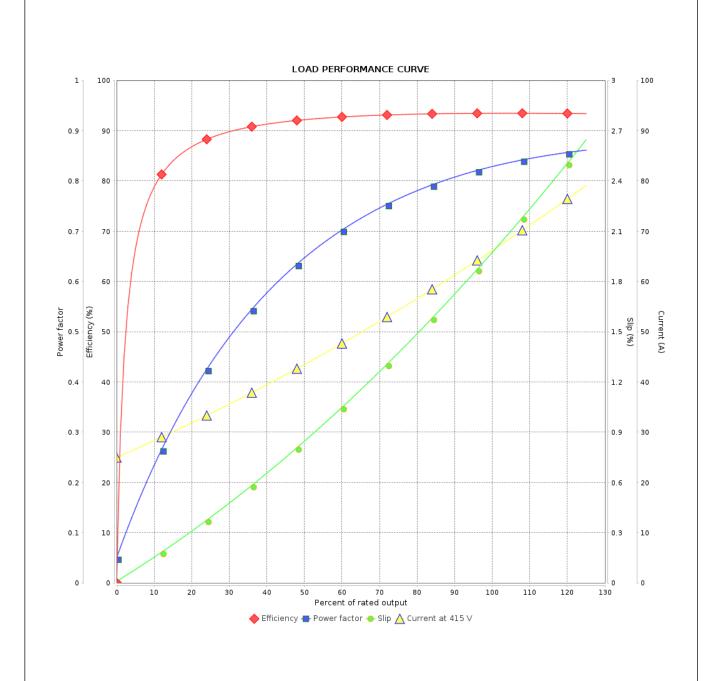


Customer

Checked by

Product line : W22 NEMA Premium Efficiency Product code: 11438075

Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.3 A : 6.2 : 24.7 kgfm : 210 % : 260 % : 1470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3861 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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