## DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12378662 Three-Phase : 182/4T 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> : 34.7 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0080 kgm<sup>2</sup> Design : B Output [HP] 3 2 2 2 3 3 3 Poles 2 2 2 2 2 2 2 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 4.44 7.52/3.76 3.28 3.24 3.24 4.32 4.26 L. R. Amperes [A] 64.7/32.3 31.8 35.0 36.0 31.1 32.8 35.4 LRC [A] 8.6x(Code K) 9.7x(Code 10.8x(Code 11.1x(Code 7.0x(Code H) 7.6x(Code J) 8.3x(Code K) M) N) P) No load current [A] 3.20/1.60 1.50 1.65 1.80 1.50 1.70 1.80 Rated speed [RPM] 3515 2935 2940 2945 2890 2900 2910 Slip [%] 2.36 2.17 2.00 1.83 3.67 3.33 3.00 Rated torque [kgfm] 0.619 0.495 0.494 0.493 0.753 0.751 0.748 Locked rotor torque [%] 250 280 320 350 190 210 229 Breakdown torque [%] 380 420 470 509 270 300 330 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 43s (cold) 34s (cold) Locked rotor time 46s (cold) 52s (cold) 43s (cold) 48s (cold) 41s (cold) 26s (hot) 29s (hot) 24s (hot) 27s (hot) 23s (hot) 24s (hot) 19s (hot) Noise level<sup>2</sup> 66.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 50% 82.0 81.0 80.6 79.7 84.0 84.0 84.0 Efficiency (%) 75% 86.0 84.5 84.5 84.1 85.5 85.5 85.5 100% 86.5 85.8 85.8 85.9 85.5 85.5 85.5 25% 50% 0.70 0.63 0.58 0.55 0.76 0.71 0.68 Power Factor 75% 0.80 0.75 0.71 0.67 0.84 0.81 0.79 100% 0.85 0.81 0.78 0.75 0.88 0.86 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.6 14.6 14.6 14.6 14.6 14.6 14.6 P2 (0,5;1,0) 10.7 10.7 10.7 10.7 10.7 10.7 10.7 P3 (0,25;1,0) 9.4 9.4 9.4 9.4 9.4 9.4 9.4 P4 (0,9;0,5) 8.3 8.3 8.3 8.3 8.3 8.3 8.3 Losses (%) P5 (0,5;0,5) 4.5 4.5 4.5 4.5 4.5 4.5 4.5 P6 (0,5;0,25) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 P7 1.8 1.8 1.8 1.8 1.8 1.8 1.8 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ : 34 kgf Max. traction Sealing V'Ring V'Ring : 69 kgf Max. compression Lubrication interval Lubricant amount 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 20/10/2024 1/9 Date

# DATA SHEET



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Customer	:			
Notes	: / 8.01A SF 1.15 SFA 9.21A			
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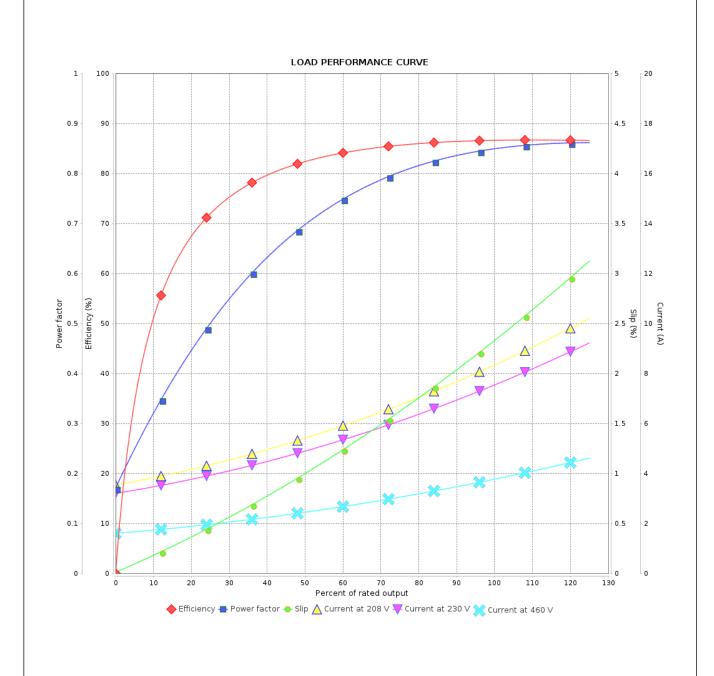
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12378662

Three-Phase



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.52/3.76 A : 8.6 : 0.619 kgfm : 250 % : 380 % : 3515 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 0.0080 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
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## Three Phase Induction Motor - Squirrel Cage



Customer :

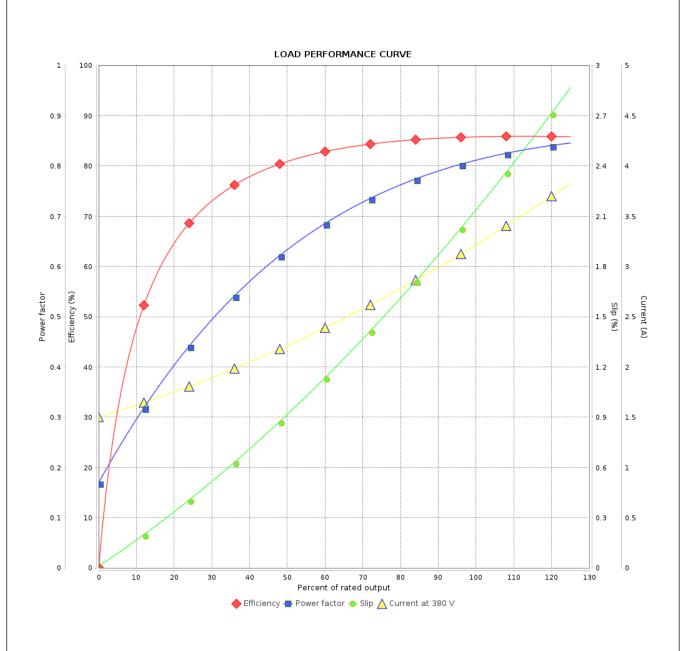
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code :

12378662

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Performance	: 380 V 50 Hz 2P IE3				
Rated current	: 3.28 A	Moment of inertia (J)		: 0.0080 kgm²	
LRC	: 9.7	Duty cycle		: Cont.(S1)	
Rated torque	: 0.495 kgfm	Insulation cla		: <b>F</b>	
Locked rotor torque	: 280 %	Service factor Temperature rise		: 1.25 : 80 K	
Breakdown torque	: 420 %				
Rated speed	: 2935 rpm	Design		: B	
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Date

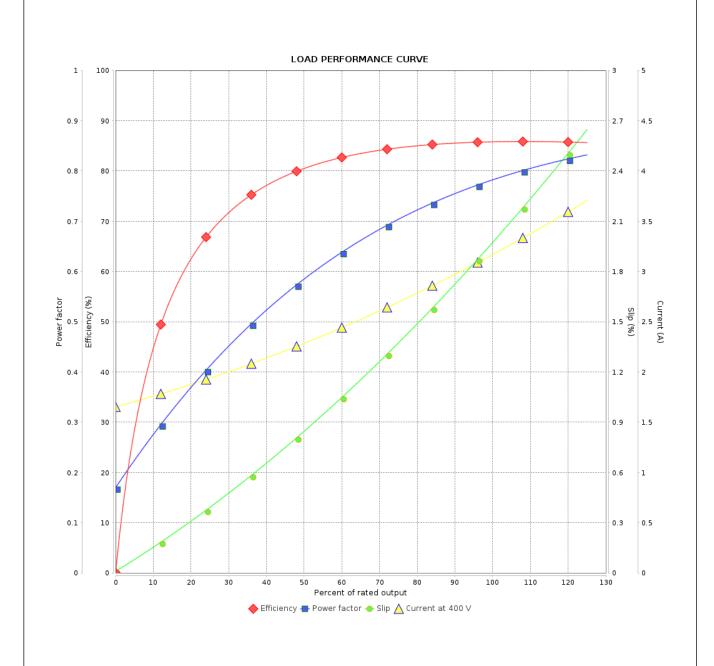
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12378662

Three-Phase



Performance	: 40	00 V 50 Hz 2P IE3					
Rated current : 3.2 LRC : 10		24 A 0.8	Moment of inertia (J) Duty cycle		: 0.0080 kgm² : Cont.(S1)		
Rated torque : 0.		.494 kgfm 20 %	Insulation class Service factor		Insulation class : F		
Breakdown torque Rated speed		70 % 940 rpm	Temperature rise : 80 K				
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### Three Phase Induction Motor - Squirrel Cage



Customer :

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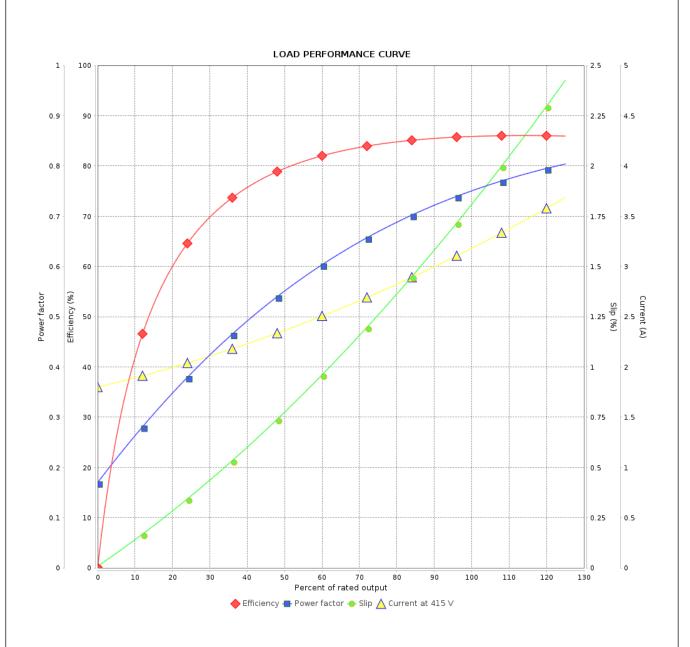
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

12378662

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Performance : 415 V 50 Hz 2P IE3 : 0.0080 kgm<sup>2</sup> Rated current : 3.24 A Moment of inertia (J) **LRC** : 11.1 Duty cycle : Cont.(S1) : 0.493 kgfm Insulation class Rated torque : F Locked rotor torque : 350 % Service factor : 1.25 Breakdown torque : 509 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

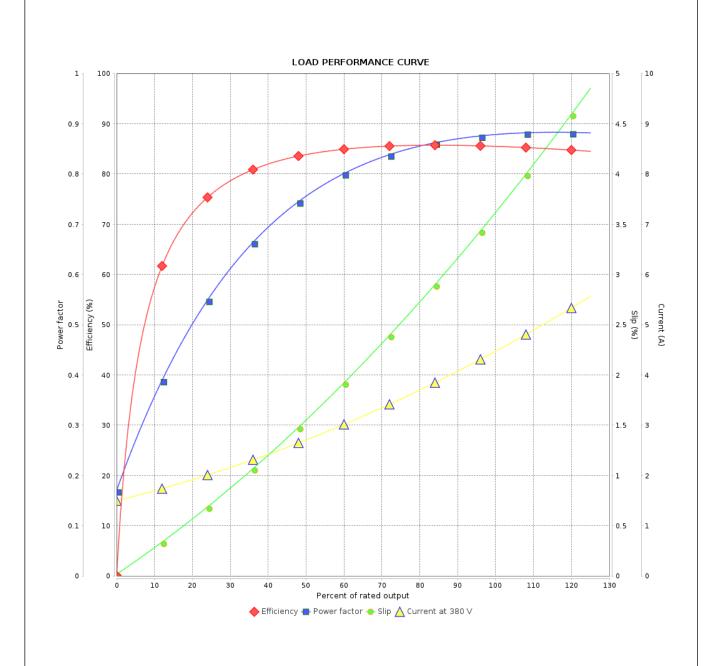
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12378662

Three-Phase



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Rated speed	: 2890 rpm	Design	: B		
Breakdown torque	: 270 %	Temperature rise	: 80 K		
Locked rotor torqu	ie : 190 %	Service factor	: 1.25		
Rated torque	: 0.753 kgfm	Insulation class	: F		
LRC	: 7.0	Duty cycle	: Cont.(S1)		
Rated current	: 4.44 A	Moment of inertia (J)	: 0.0080 kgm	: 0.0080 kgm²	
Performance	: 380 V 50 Hz 2P IE	2			

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### Three Phase Induction Motor - Squirrel Cage



Customer :

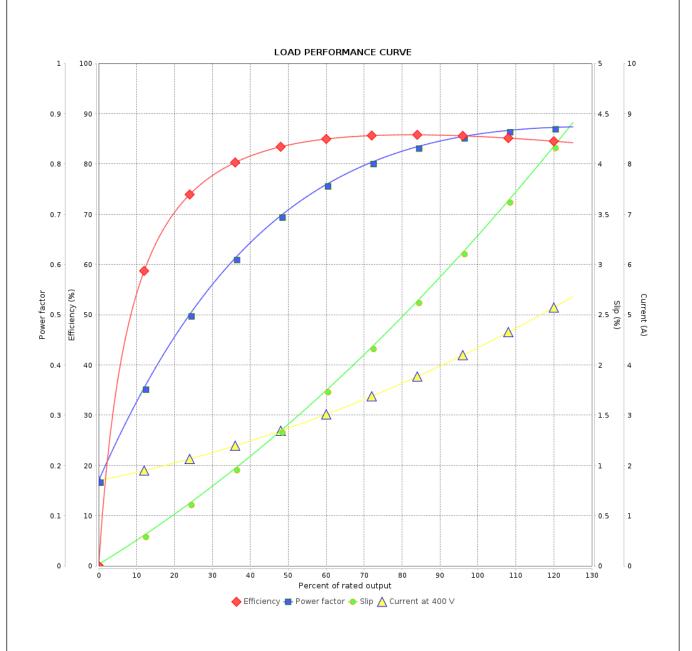
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12378662



Performance : 400 V 50 Hz 2P IE2 : 0.0080 kgm<sup>2</sup> Rated current : 4.32 A Moment of inertia (J) **LRC** : 7.6 Duty cycle : Cont.(S1) : 0.751 kgfm Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2900 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



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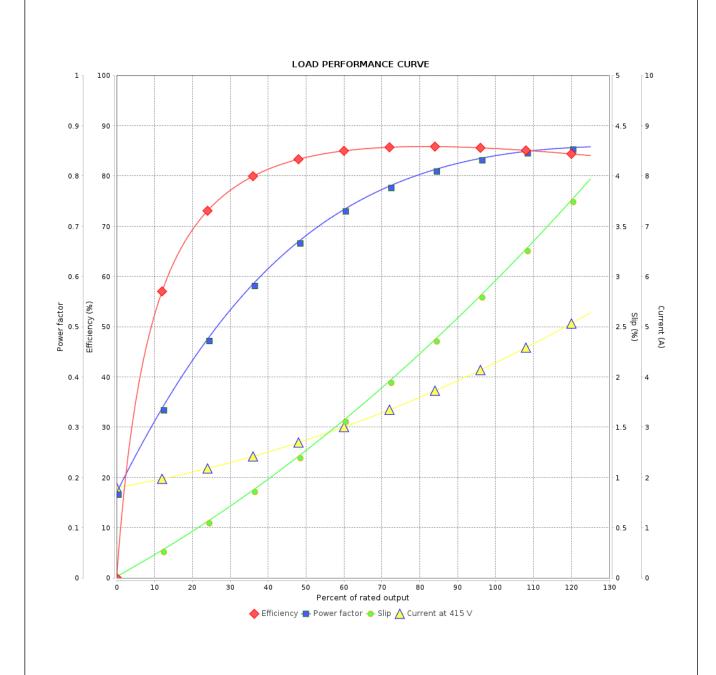
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Product line : W22 NEMA Premium Efficiency Product code : 12378662

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.26 A : 8.3 : 0.748 kgfm : 229 % : 330 % : 2910 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) : 0.0080 kgm²  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.25  Temperature rise : 80 K  Design : B		
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