### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12447067 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. : 184 kg Protection degree : IP55 Moment of inertia (J) : 0.2153 kgm<sup>2</sup> Design : B Output [HP] 25 20 20 25 20 25 25 Poles 4 4 4 4 4 4 4 60 50 50 50 50 Frequency [Hz] 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 35.9 59.0/29.5 29.1 28.2 27.5 34.3 33.2 L. R. Amperes [A] 366/183 175 189 198 190 189 196 LRC [A] 6.2x(Code 6.0x(Code | 6.7x(Code H) | 7.2x(Code J) | 5.3x(Code F) | 5.5x(Code F) | 5.9x(Code G) G) G) No load current [A] 22.0/11.0 11.0 11.7 12.4 11.0 11.7 12.4 Rated speed [RPM] 1770 1470 1473 1475 1455 1460 1465 1.67 Slip [%] 2.00 1.80 1.67 3.00 2.67 2.33 Rated torque [kgfm] 10.3 9.87 9.85 9.84 12.5 12.4 12.4 Locked rotor torque [%] 240 229 250 270 180 200 220 Breakdown torque [%] 270 260 300 330 210 240 260 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 25s (cold) Locked rotor time 43s (cold) 32s (cold) 32s (cold) 32s (cold) 25s (cold) 25s (cold) 24s (hot) 18s (hot) 18s (hot) 18s (hot) 14s (hot) 14s (hot) 14s (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% 50% 92.4 91.3 91.3 91.2 92.4 92.4 92.4 Efficiency (%) 75% 93.0 92.1 92.5 92.5 91.7 92.4 92.4 100% 93.6 92.1 92.6 92.7 91.0 91.7 92.4 25% 50% 0.70 0.69 0.65 0.62 0.76 0.73 0.70 Power Factor 75% 0.80 0.80 0.78 0.75 0.84 0.82 0.80 100% 0.84 0.85 0.83 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) 5.3 5.3 5.3 5.3 5.3 5.3 5.3 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 1.0 1.0 1.0 1.0 1.0 1.0 1.0 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 369 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 552 kgf 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



Three Pha	se Induction Motor - Squirrel Cage		ШЕЦ	
Customer	:			
Notes USABLE @208\	/ 65.2A SF 1.15 SFA 75.0A			
Rev.	Changes Summary	Performed	Checked	Date

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Date	19/10/2024			2/9	

### Three Phase Induction Motor - Squirrel Cage



Customer :

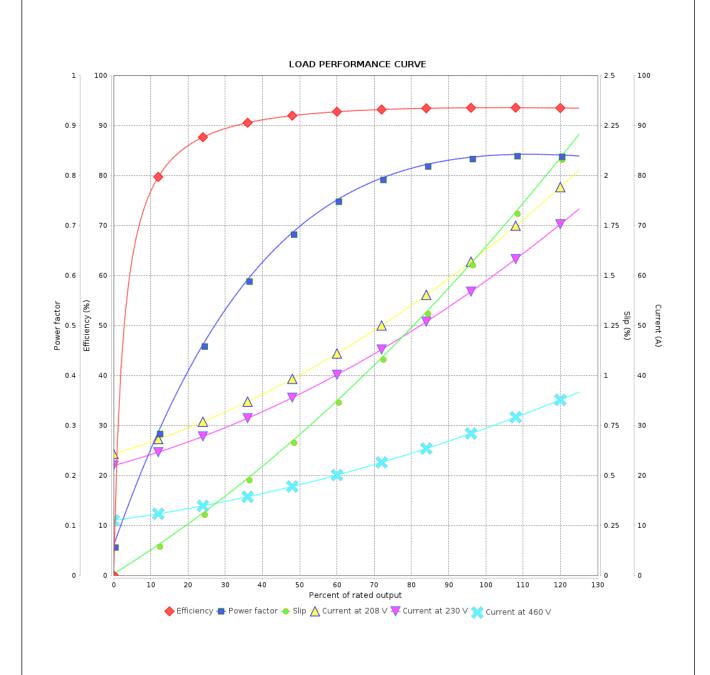
Checked by

Date

19/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 12447067

Three-Phase



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 59.0/29.5 A : 6.2 : 10.3 kgfm : 240 % : 270 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2153 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

3/9

### Three Phase Induction Motor - Squirrel Cage



Customer :

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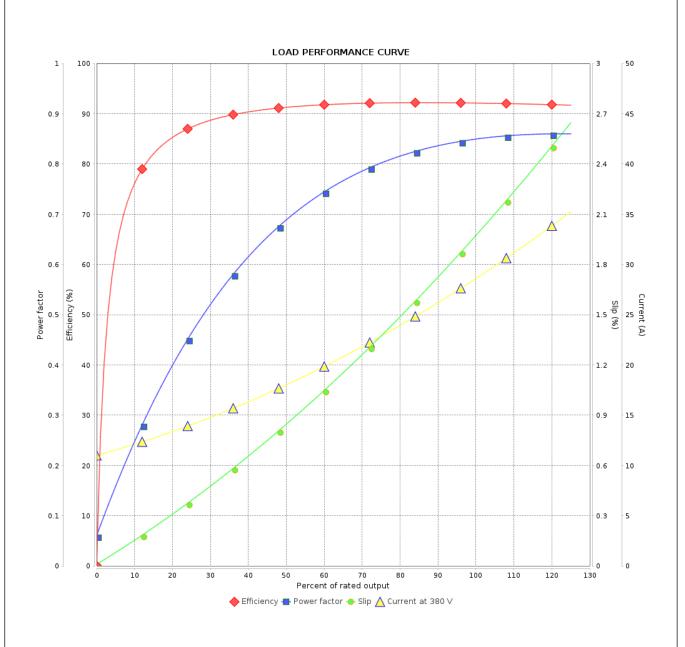
Date

19/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447067



Performance	:	380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	29.1 A 6.0 9.87 kgfm 229 % 260 % 1470 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.2153 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by					·	

Page

4/9

### Three Phase Induction Motor - Squirrel Cage



Customer :

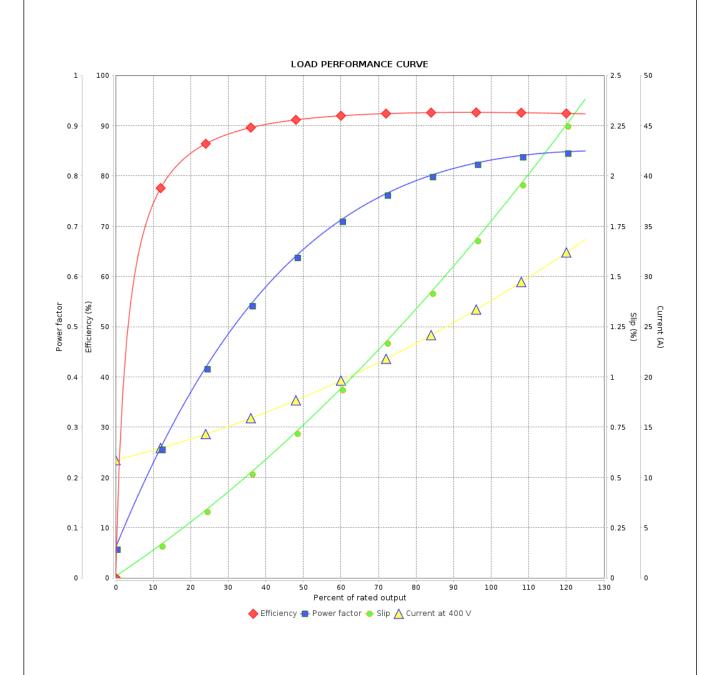
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Date

19/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 12447067

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 28.2 A		f inertia (J)	: 0.2153 kgm²	
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque : 9.85 kgfm		Insulation class		: F	
Locked rotor torque : 250 %		Service factor		: 1.00	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed : 1473 rpm Desi		Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by				,	

Page

5/9

### Three Phase Induction Motor - Squirrel Cage

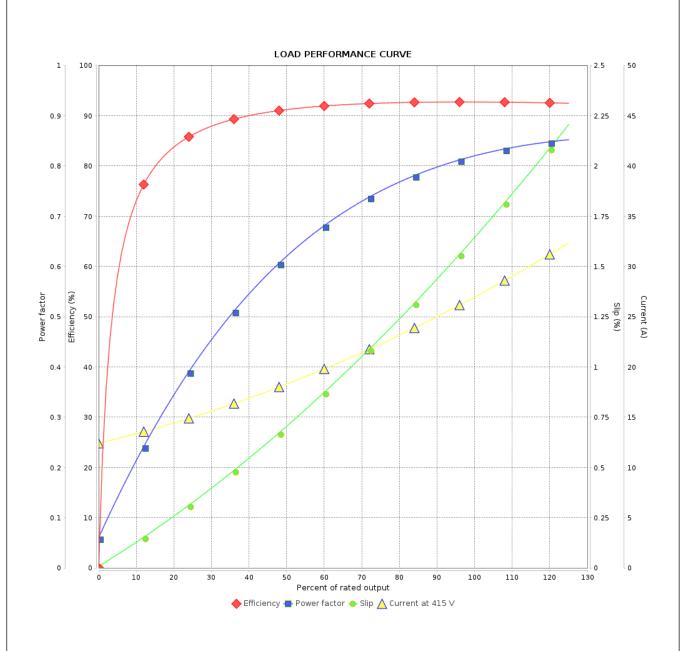


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447067



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		7.5 A .2 .84 kgfm 70 % 30 % 475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2153 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
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Checked by		-			Page	Revision

6/9

19/10/2024

Date

### Three Phase Induction Motor - Squirrel Cage



Customer :

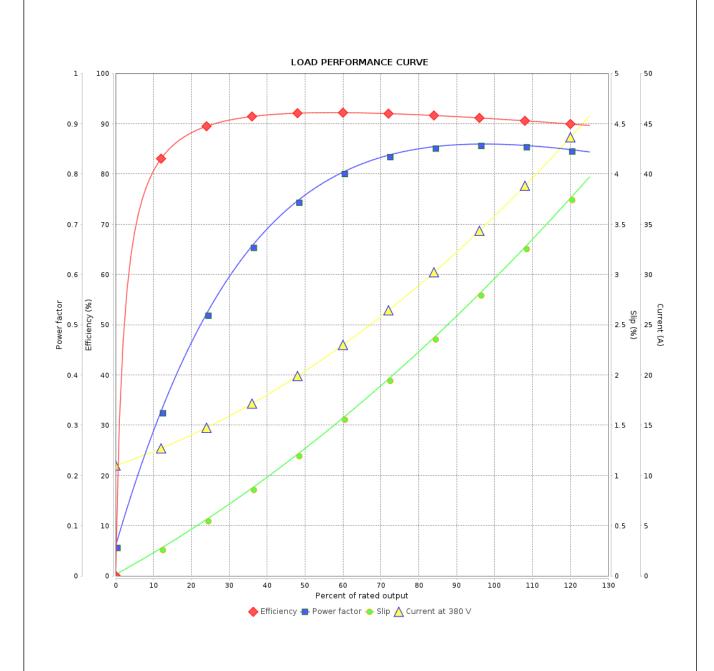
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Date

19/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 12447067

Three-Phase



Performance	:	380 V 50 Hz 4P IE	1				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: :: ::ue ::e	35.9 A 5.3 12.5 kgfm 180 % 210 % 1455 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2153 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Performed by							

Page

7/9

### Three Phase Induction Motor - Squirrel Cage



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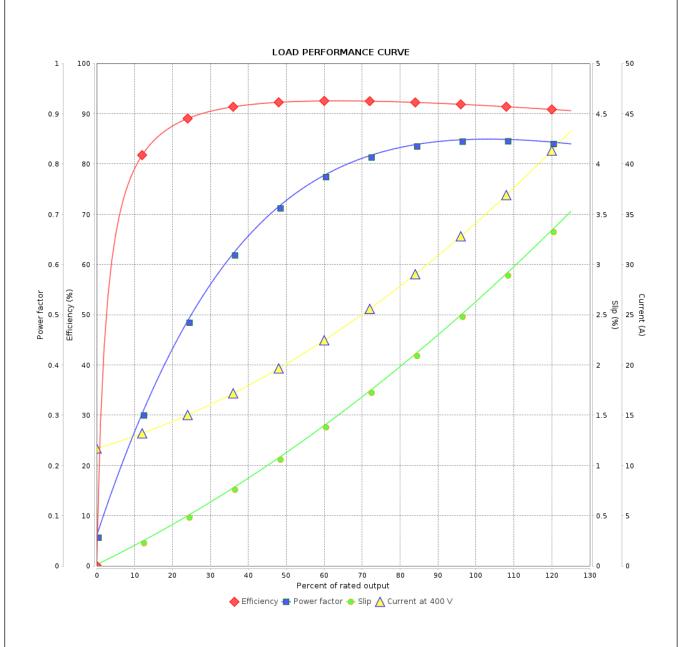
Date

19/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447067



Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 34.3 A : 5.5 : 12.4 kgfm : 200 % : 240 % : 1460 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						

Page

8/9

### Three Phase Induction Motor - Squirrel Cage



Customer :

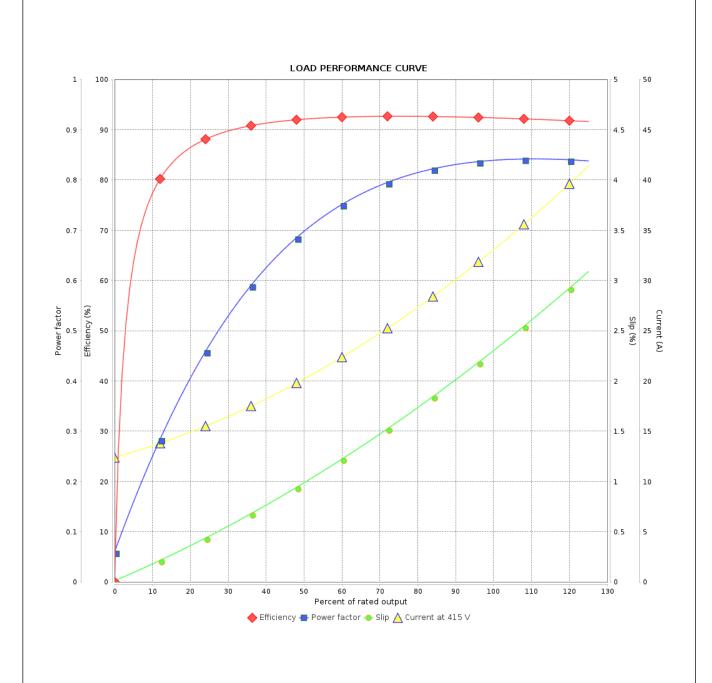
Checked by

Date

19/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 12447067

Three-Phase



Performance		: 415 V 50 Hz 4P II	Ξ2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 33.2 A : 5.9 : 12.4 kgfm : 220 % : 260 % : 1465 rpm	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2153 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							

Page

9/9

