DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12446750 Three-Phase : 284/6TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ : 182 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.3310 kgm² Design : B Output [HP] 15 10 10 10 15 15 15 Poles 6 6 6 6 6 6 6 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 22.2 35.8/17.9 15.5 15.1 15.0 20.9 20.2 L. R. Amperes [A] 233/116 112 119 124 104 111 117 LRC [A] 6.5x(Code 7.2x(Code J) 7.9x(Code K) 8.3x(Code K) 4.7x(Code E) 5.3x(Code F) 5.8x(Code G) G) No load current [A] 7.50 14.8/7.40 7.50 8.00 8.50 8.00 8.50 Rated speed [RPM] 1175 980 985 985 965 970 975 Slip [%] 2.08 2.00 1.50 1.50 3.50 3.00 2.50 Rated torque [kgfm] 9.26 7.41 7.37 7.37 11.3 11.2 11.2 Locked rotor torque [%] 229 270 300 330 170 200 220 Breakdown torque [%] 240 290 340 360 200 220 240 1.00 Service factor 1.25 1.25 1.25 1.25 1.15 1.15 Temperature rise 80 K 27s (cold) 27s (cold) Locked rotor time 36s (cold) 55s (cold) 50s (cold) 46s (cold) 27s (cold) 20s (hot) 31s (hot) 28s (hot) 26s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 59.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 91.0 89.0 89.1 89.1 91.0 90.2 90.2 Efficiency (%) 75% 91.7 89.4 89.5 89.5 90.2 90.2 91.0 100% 91.7 89.4 89.5 89.5 88.5 89.5 90.2 25% 50% 0.69 0.64 0.61 0.58 0.73 0.72 0.70 Power Factor 75% 0.80 0.76 0.73 0.71 0.82 0.81 0.80 100% 0.84 0.82 0.80 0.78 0.85 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.5 11.0 11.2 8.9 8.8 11.0 9.2 P2 (0,5;1,0) 6.8 8.8 8.8 8.9 7.3 7.1 7.0 P3 (0,25;1,0) 6.4 8.2 8.2 8.3 6.9 6.7 6.6 P4 (0,9;0,5) 5.1 6.6 6.6 6.7 5.5 5.3 5.3 Losses (%) P5 (0,5;0,5) 3.4 4.4 4.4 4.5 3.7 3.6 3.5 P6 (0,5;0,25) 2.6 3.4 3.4 3.5 2.8 2.8 2.7 P7 2.4 2.4 2.4 2.0 1.9 1.9 1.9 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6311 C3 6211 C3 : 292 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 474 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 29/10/2025 1/9 Date

DATA SHEET

Checked by

Date

29/10/2025



Three Pha	se Inductio	n Motor - Squir	rel Cage			ШЕЦ
Customer	:					<u>. </u>
Notes USABLE @208\	/ 39.6A SF 1.15 S	SFA 45.5A				
Rev.		Changes Summan		Performed	Checked	Date
Performed by		Changes Summary		renomied	Cilecked	Date

Page

2/9

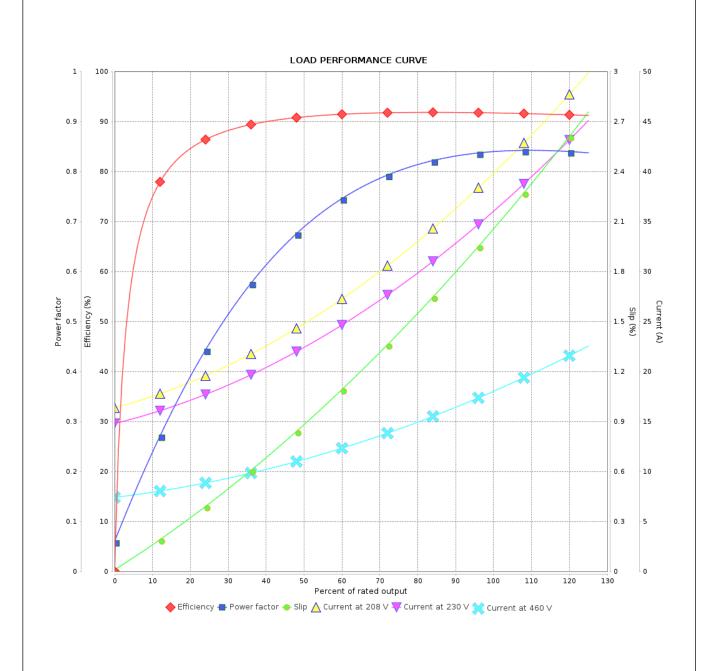
Revision

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750



Performance	: 230/460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque	: 35.8/17.9 A : 6.5 : 9.26 kgfm : 229 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 0.3310 kgm² : Cont.(S1) : F : 1.25	
Breakdown torque Rated speed	: 240 % : 1175 rpm	Temperature rise Design	: 80 K : B	
	0 1 0			

Maicu specu	. !	17516111	Design		. Б	
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by					Page	Revision
Date	29/10/2025				3/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

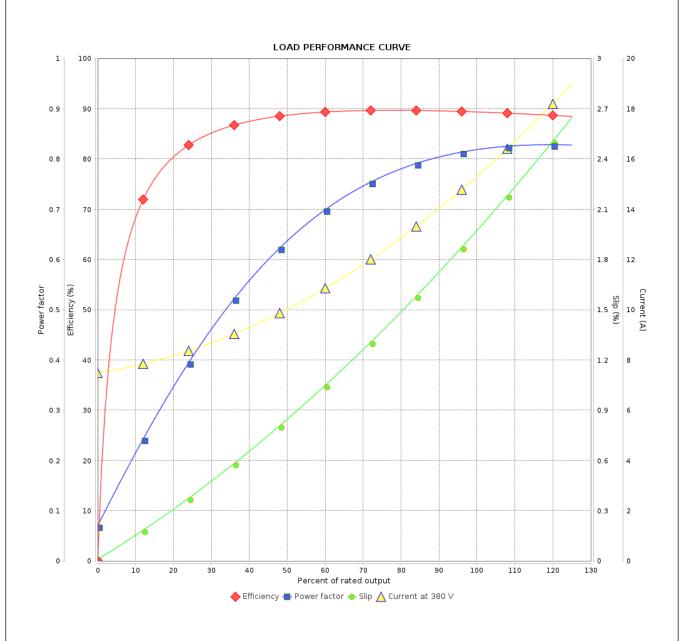
Date

29/10/2025

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance : 380 V 50 Hz 6P IE3 : 15.5 A : 0.3310 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.2 : 7.41 kgfm Insulation class : F Rated torque Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

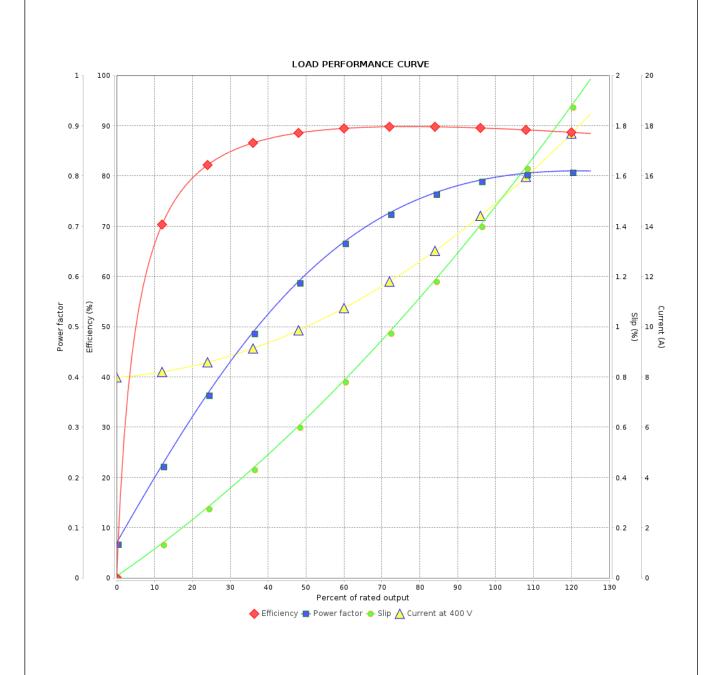
4/9

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750



Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 15.1 A	Moment of inertia (J)		: 0.3310 kgm²	
LRC		: 7.9	Duty cycle	9	: Cont.(S1)	
Rated torque		: 7.37 kgfm	Insulation class		: F	
Locked rotor tore	que	: 300 %	Service fa	octor	: 1.25	
Breakdown torqu	ue	: 340 %	Temperat	ure rise	: 80 K	
Rated speed	Rated speed : 985 rpm Design			: B		
Rev.		Changes Summary		Performed	Checked	Date

. tatou opoou						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	29/10/2025	1			5/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

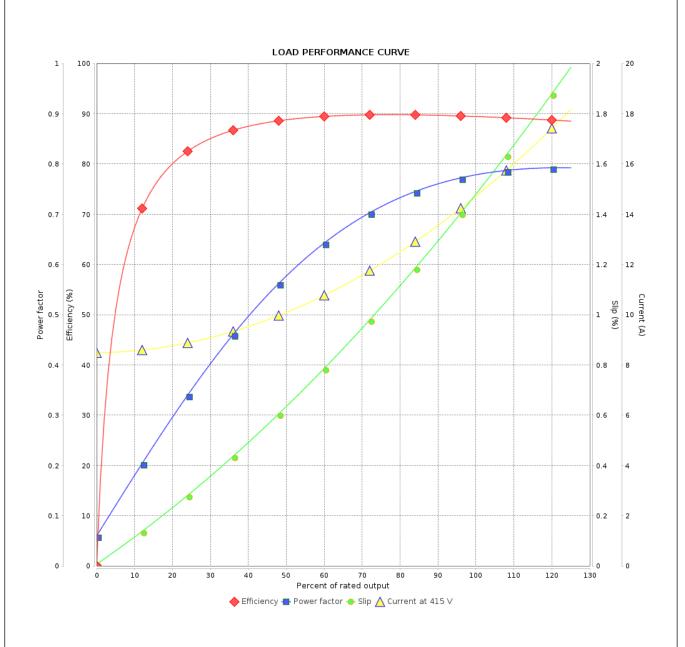
Date

29/10/2025

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.3310 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

6/9

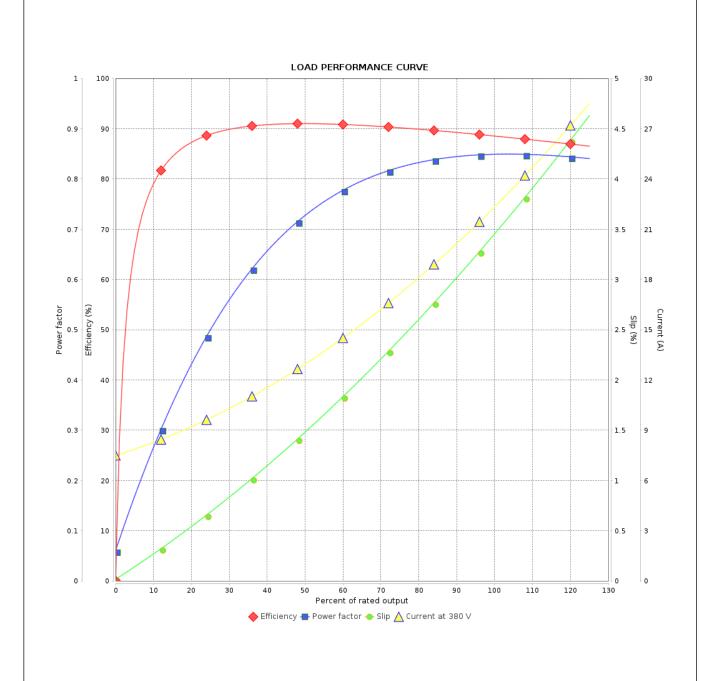
Revision

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750



Performance		: 380 V 50 Hz 6P IE1				
Rated current		: 22.2 A		of inertia (J)	()	
LRC		: 4.7	Duty cycle)	: Cont.(S1)	
Rated torque		: 11.3 kgfm	Insulation class		: F	
Locked rotor tord	que	: 170 %	Service factor		: 1.00	
Breakdown torqu	ue	: 200 %	Temperati	ure rise	: 80 K	
Rated speed		: 965 rpm	Design		: B	
Rev.		Changes Summary	,	Performed	Checked	Date

-		•	_			
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	29/10/2025				7/9	

Three Phase Induction Motor - Squirrel Cage



27

21

1.5

0.5

130

Customer :

0.3

0.2

30

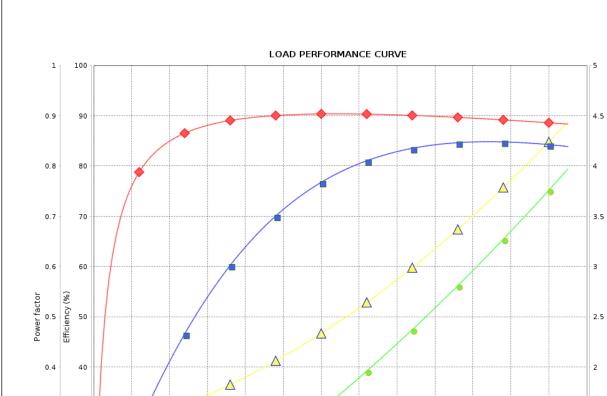
20

10

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance : 400 V 50 Hz 6P IE2 : 20.9 A : 0.3310 kgm² Rated current Moment of inertia (J) **LRC** : 5.3 Duty cycle : Cont.(S1) : 11.2 kgfm Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed · 970 rnm Design

Percent of rated output

◆ Efficiency ♣ Power factor ◆ Slip ⚠ Current at 400 ∨

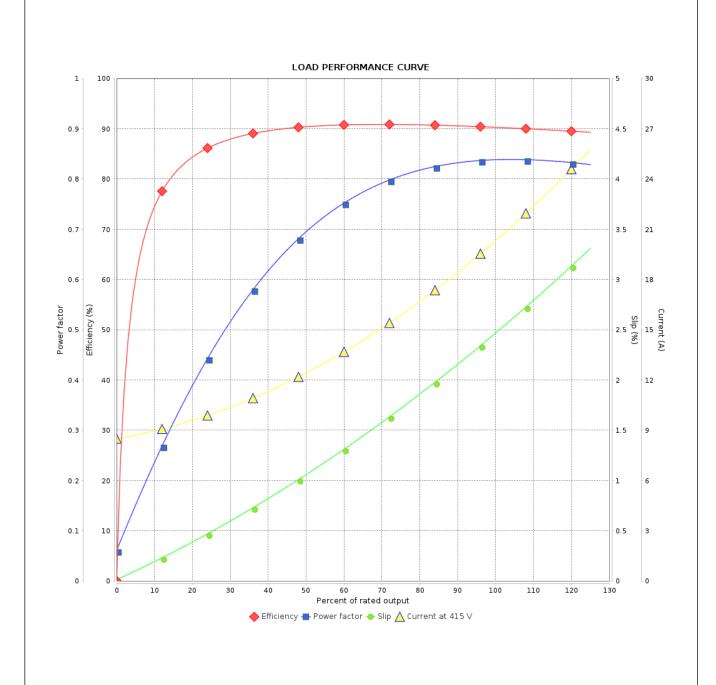
Rateu speeu	. 91	o ipili	Design		. Б	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	29/10/2025				8/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750



Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.2 A : 5.8 : 11.2 kgfm : 220 % : 240 % : 975 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.3310 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2
Rev.	Changes Summary		Performed	Checked	Date

			3		. =	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	29/10/2025				9/9	