### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12744764 Three-Phase Frame : 284/6TC Cooling method : 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 : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 195 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.3448 kgm<sup>2</sup> Design : B Output [HP] 15 15 15 15 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 40.1/20.0 23.9 23.0 22.4 L. R. Amperes [A] 220/110 103 110 114 LRC [A] 5.5x(Code G) 4.3x(Code E) 4.8x(Code F) 5.1x(Code F) No load current [A] 20.0/10.0 9.80 10.5 11.5 Rated speed [RPM] 880 720 725 725 3.33 Slip [%] 2.22 4.00 3.33 Rated torque [kgfm] 12.4 15.1 15.0 15.0 Locked rotor torque [%] 220 150 170 190 Breakdown torque [%] 229 200 200 220 Service factor 1.25 1.00 1.00 1.15 105 K Temperature rise 80 K 105 K 105 K Locked rotor time 39s (cold) 22s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) Noise level<sup>2</sup> 54.0 dB(A) 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 25% 50% 85.5 88.0 88.0 88.0 Efficiency (%) 75% 90.0 88.5 88.5 88.5 100% 89.5 88.6 88.6 88.6 25% 50% 0.61 0.66 0.62 0.59 Power Factor 75% 0.71 0.75 0.73 0.70 0.77 0.79 0.78 0.77 100% Losses at normative operating points (speed;torque), in percentage of rated output power 12.5 P1 (0,9;1,0) 12.5 11.4 12.5 P2 (0,5;1,0) 9.9 10.8 10.8 10.8 P3 (0,25;1,0) 10.2 9.3 10.2 10.2 P4 (0,9;0,5) 6.2 6.2 6.2 Losses (%) 5.6 P5 (0,5;0,5) 4.4 4.4 4.4 4.1 P6 (0,5;0,25) 2.8 3.1 3.1 3.1 P7 (0,25;0,25) 2.1 2.3 2.3 2.3 Non drive end Foundation loads Drive end Bearing type 6311 C3 6211 C3 Max. traction : 375 kgf Sealing V'Ring V'Ring Max. compression : 570 kgf 20000 h Lubrication interval 20000 h Lubricant amount 18 q 11 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA MG-1. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

1/6

13/07/2025

Date

# DATA SHEET



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Date	13/07/2025			2/6	

### Three Phase Induction Motor - Squirrel Cage



Customer :

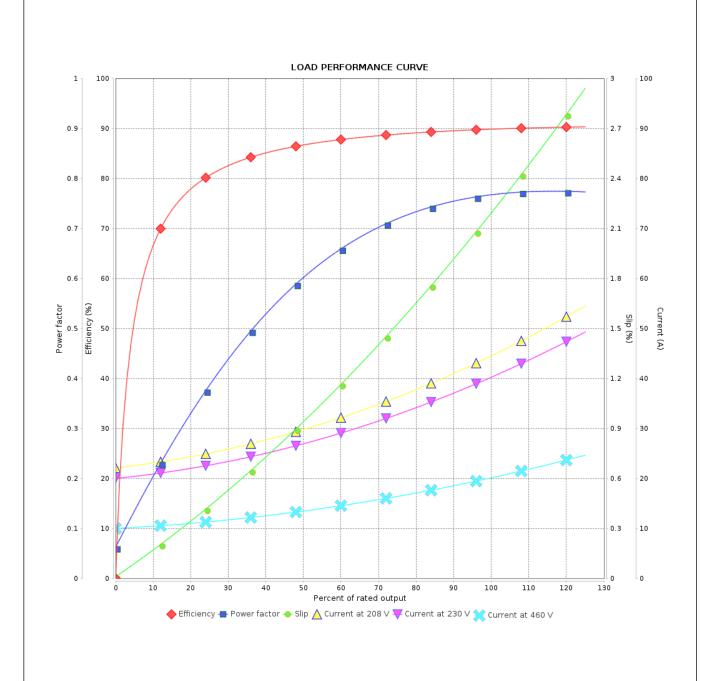
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Date

13/07/2025

Product line : W22 NEMA Premium Efficiency Product code : 12744764

Three-Phase



Performance	: 230/460 V 60 Hz 8P				
Rated current	: 40.1/20.0 A	Moment of inertia (J)		: 0.3448 kgm²	
LRC	: 5.5	Duty cycle		: Cont.(S1)	
Rated torque	: 12.4 kgfm	Insulation class		: F	
Locked rotor torque	: 220 %	Service factor		: 1.25	
Breakdown torque	: 229 %	Temperature rise		: 80 K	
Rated speed	: 880 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by				· · · · · · · · · · · · · · · · · · ·	

Page

3/6

Revision

#### Three Phase Induction Motor - Squirrel Cage



Customer :

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13/07/2025

Product line : W22 NEMA Premium Efficiency

Three-Phase

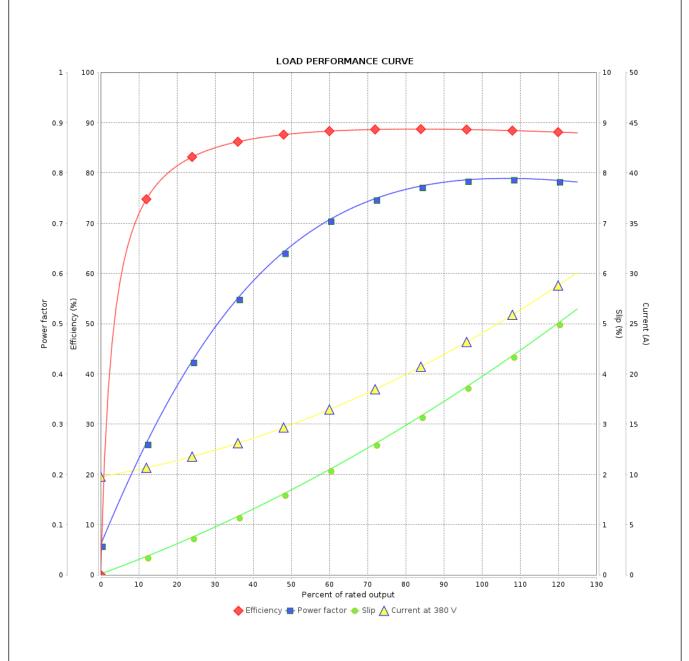
Product code:

12744764

Page

4/6

Revision



Performance : 380 V 50 Hz 8P IE3 : 0.3448 kgm<sup>2</sup> Rated current : 23.9 A Moment of inertia (J) **LRC** : 4.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 15.1 kgfm : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 720 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

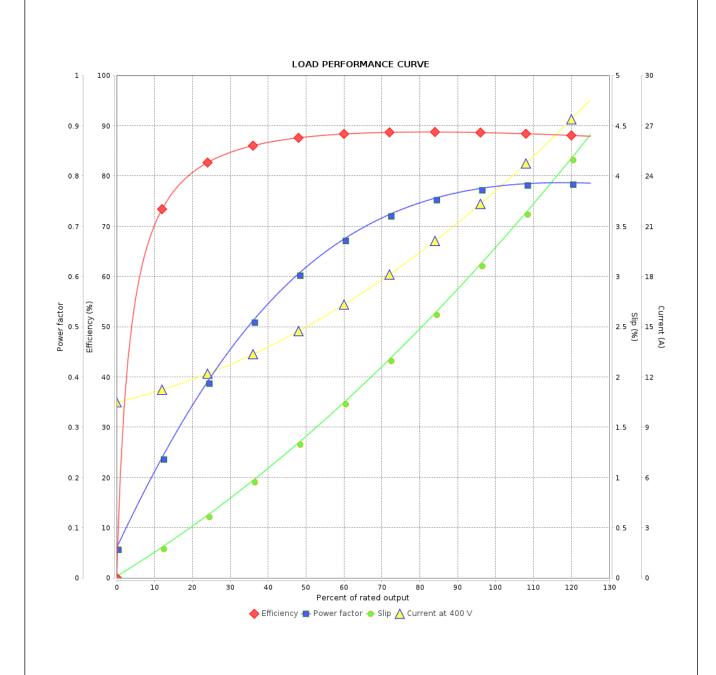
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12744764

Three-Phase



Performance		: 400 V 50 Hz 8P	IE3				
Rated current		: 23.0 A	Mome	Moment of inertia (J)		: 0.3448 kgm²	
LRC		: 4.8	Duty c	Duty cycle		: Cont.(S1)	
Rated torque		: 15.0 kgfm	Insulat	Insulation class		:F	
Locked rotor torque		: 170 %	Servic	Service factor		: 1.00	
Breakdown torque		: 200 %	Tempe	Temperature rise		: 105 K	
Rated speed		: 725 rpm	Design	Design		: B	
Rev.	7. Changes Summary		nmary		Performed	Checked	Date

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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/07/2025			5/6	

### Three Phase Induction Motor - Squirrel Cage



Customer :

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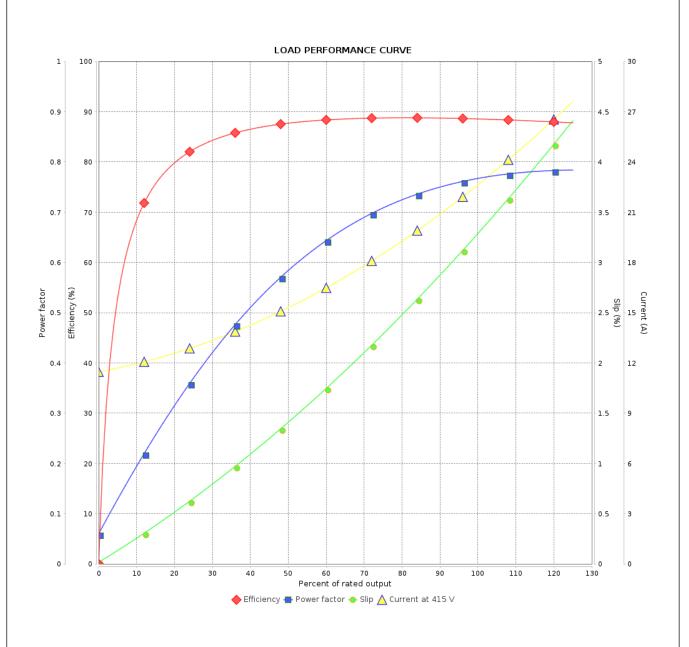
Date

13/07/2025

Product line : W22 NEMA Premium Efficiency Product

Three-Phase

Product code: 12744764



Performance	: 4	415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: { : { : / !ue : / !e : /	22.4 A 5.1 15.0 kgfm 190 % 220 % 725 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3448 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
Rev.	Changes Summary		· ·	Performed	Checked	Date
Performed by					·	

Page

6/6

Revision