DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12447060

Three-Phase

Frame : 254/6TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation : Both (CW and CCW)
Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 120 kg

Ailitude		. 1000 III.a.	. 1000 III.a.s.i.		Approx. weight . 120 kg				
Protection degree		: IP55		Moment of inertia (J) : 0.0530 kgm ²			.0530 kgm²		
Design		: B							
Output [HP]		15	10	10	10	15	15	15	
Poles		2	2	2	2	2	2	2	
Frequency [Hz]		60	50	50	50	50	50	50	
Rated voltage [V]		230/460	380	400	415	380	400	415	
Rated current [A]		34.5/17.2	14.5	14.0	13.7	21.0	19.9	19.3	
L. R. Amperes [A]		231/116	109	117	116	107	112	118	
LRC [A]		6.7x(Code	7.5x(Code J)	8.3x(Code K)	8.5x(Code K)	5.1x(Code E)	5.6x(Code F)	6.1x(Code	
		G)						G)	
No load current [A	.]	10.0/5.00	4.90	5.30	5.50	4.90	5.30	5.50	
Rated speed [RPN	Rated speed [RPM]		2950	2955	2960	2900	2915	2925	
Slip [%]		1.81	1.67	1.50	1.33	3.33	2.83	2.50	
Rated torque [kgfm]		3.08	2.46	2.46	2.45	3.75	3.73	3.72	
Locked rotor torque [%]		200	200	229	250	160	180	200	
Breakdown torque [%]		260	310	350	380	200	229	240	
Service factor		1.25	1.25	1.25	1.25	1.00	1.00	1.15	
Temperature rise	Temperature rise		80 K	80 K	80 K	105 K	105 K	105 K	
Locked rotor time	Locked rotor time		50s (cold)	45s (cold)	41s (cold)	25s (cold)	27s (cold)	27s (cold)	
		20s (hot)	28s (hot)	25s (hot)	23s (hot)	14s (hot)	15s (hot)	15s (hot)	
Noise level ²		72.0 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							
Efficiency (%)	50%	89.5	90.3	90.1	89.9	89.5	90.2	90.2	
Efficiency (%)	75%	91.0	90.5	90.7	90.8	90.2	90.2	91.0	
	100%	91.0	90.5	90.7	90.8	88.5	89.5	90.2	
	25%	0.00							
Power Factor	50%	0.77	0.73	0.69	0.67	0.82	0.80	0.77	
I OWEI FACIOI	75%	0.85	0.83	0.80	0.78	0.88	0.87	0.85	
	100%	0.88	0.87	0.85	0.84	0.90	0.89	0.88	

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6309 C3 6209 C3 Max. traction : 80 kgf
Sealing : V'Ring V'Ring Lubrication interval : 19000 h 20000 h

Mobil Polyrex EM

13 g

9 g

Notes

Lubricant amount

Lubricant type

USABLE @208V 38.0A SF 1.15 SFA 43.7A

This revision replaces and cancel the previous one, which must be eliminated.

- (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.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/07/2025			1/8	

Three Phase Induction Motor - Squirrel Cage



Customer :

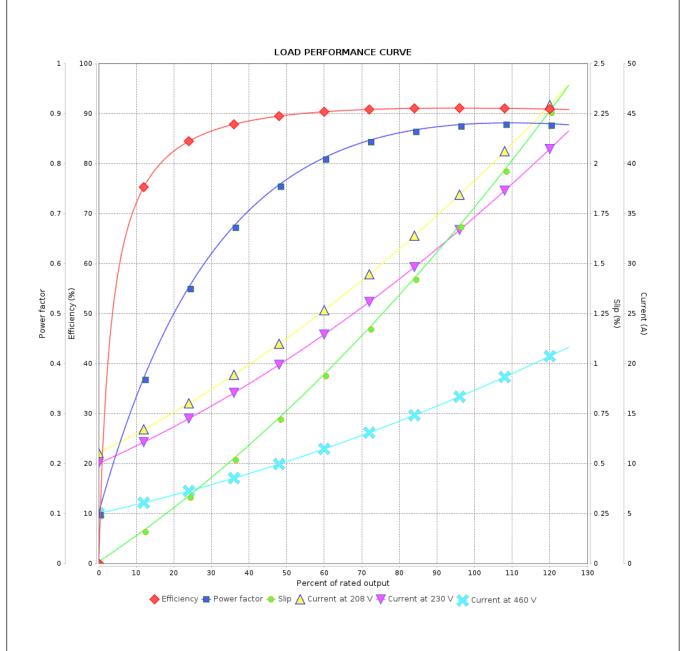
Date

14/07/2025

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447060



Performance : 230/460 V 60 Hz 2P : 0.0530 kgm² Rated current : 34.5/17.2 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.7 Insulation class : 3.08 kgfm : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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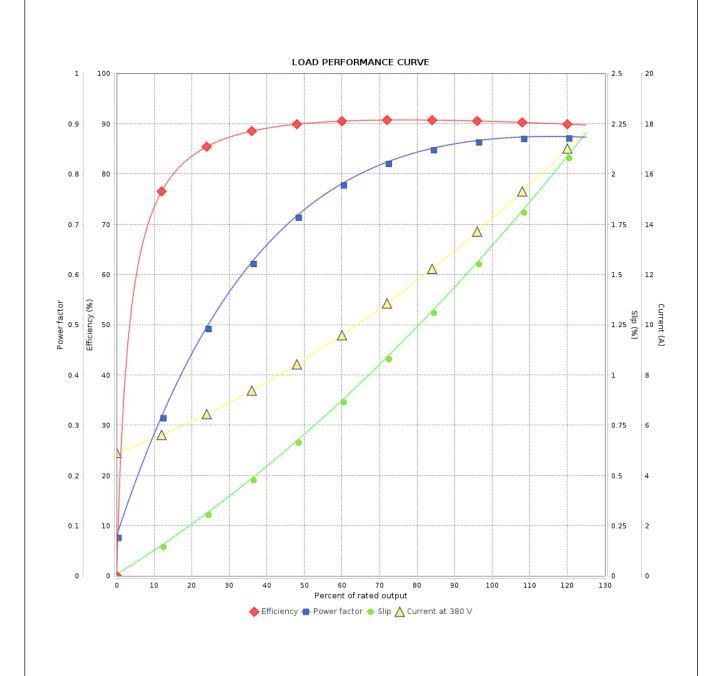
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12447060

Three-Phase



Rev.	Changes Summar	у	Performed	Checked	Date	
Rated speed	: 2950 rpm	Design		: B		
Breakdown torque	: 310 %	Temperati	Temperature rise			
Locked rotor torque	: 200 %	Service fa	Insulation class Service factor		: F : 1.25	
Rated torque	: 2.46 kgfm	Insulation				
LRC	: 7.5	Duty cycle		: Cont.(S1)		
Rated current	: 14.5 A	Moment of inertia (J)		: 0.0530 kgm²		
Performance	: 380 V 50 Hz 2P IE3					

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Three Phase Induction Motor - Squirrel Cage



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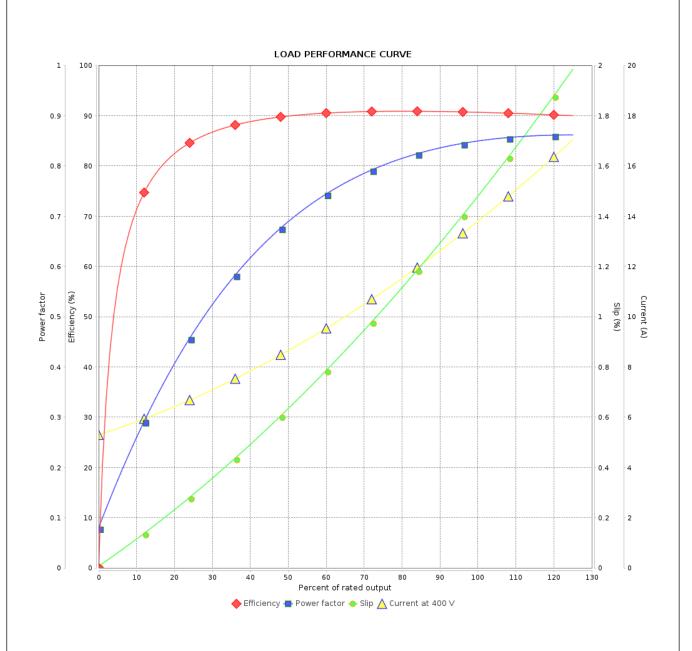
Date

14/07/2025

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447060



Performance : 400 V 50 Hz 2P IE3 : 14.0 A : 0.0530 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 8.3 Insulation class Rated torque : 2.46 kgfm : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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Three Phase Induction Motor - Squirrel Cage



Customer :

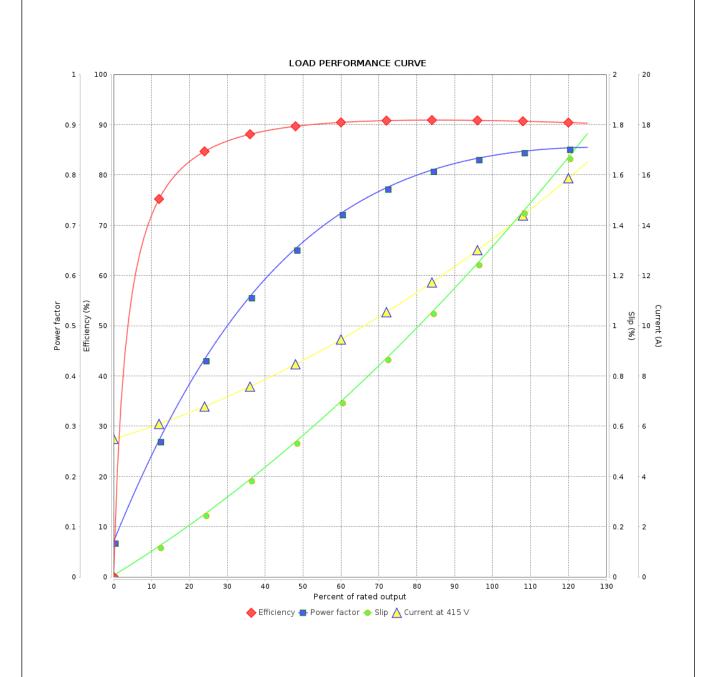
Checked by

Date

14/07/2025

Product line : W22 NEMA Premium Efficiency Product code : 12447060

Three-Phase



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 13.7 A : 8.5 : 2.45 kgfm : 250 % : 380 %	: 8.5 Duty cycle : 2.45 kgfm Insulation c : 250 % Service fact		: 0.0530 kgm² : Cont.(S1) : F : 1.25 : 80 K	
Rated speed	: 2960 rpm	Design	Danfarmand	: B	Data
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Revision

Three Phase Induction Motor - Squirrel Cage



Customer :

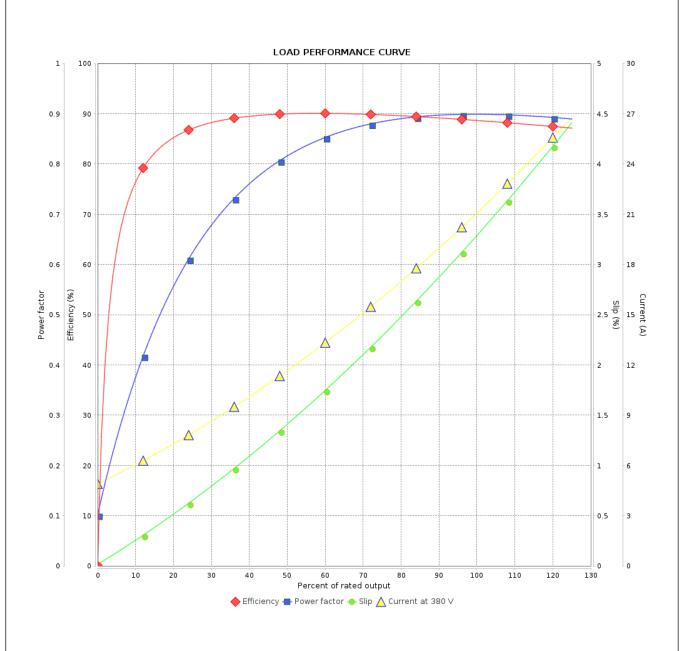
Date

14/07/2025

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447060



Performance : 380 V 50 Hz 2P IE1 : 0.0530 kgm² Rated current : 21.0 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 5.1 Insulation class Rated torque : 3.75 kgfm : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 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



Customer :

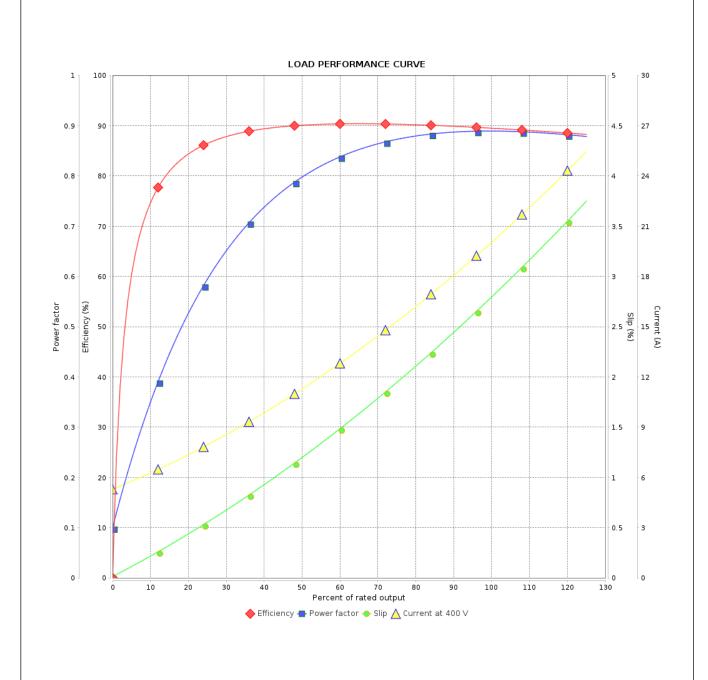
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Date

14/07/2025

Product line : W22 NEMA Premium Efficiency Product code : 12447060

Three-Phase



Performance : 400 V 50 Hz 2P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.9 A : 5.6 : 3.73 kgfm : 180 % : 229 % : 2915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0530 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	2
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Revision

Three Phase Induction Motor - Squirrel Cage

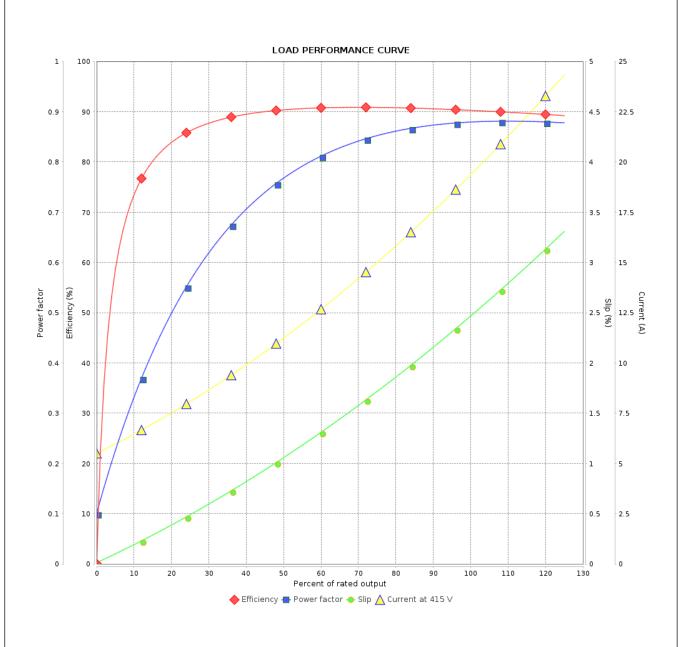


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447060



: 415 V 50 Hz 2P IE2				
: 19.3 A : 6.1 : 3.72 kgfm : 200 % : 240 % : 2925 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0530 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
Changes Summary		Performed	Checked	Date
				Revision
	: 19.3 A : 6.1 : 3.72 kgfm : 200 % : 240 % : 2925 rpm	: 19.3 A Moment o : 6.1 Duty cycle : 3.72 kgfm Insulation : 200 % Service fa : 240 % Temperatu : 2925 rpm Design	: 19.3 A : 6.1 : 3.72 kgfm : 200 % : 240 % : 2925 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 19.3 A Moment of inertia (J) : 0.0530 kgm² : 6.1 Duty cycle : Cont.(S1) : 3.72 kgfm Insulation class : F : 200 % Service factor : 1.15 : 240 % Temperature rise : 105 K : 2925 rpm Design : B

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14/07/2025

Date

