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 : 124 kg

Protection degree : IP55 Moment of inertia (J) : 0.0530 kgm²

/ tititude		. 1000 III.a.	J.I.	/ \ppio/	. woigin		27 Ng	
Protection degre	е	: IP55		Momer	nt of inertia (J) : C	.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
		Ġ)	,	,	,	·	,	Ġ)
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		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		36s (cold)	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 OWELL ACTOL	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 : 78 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.

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Three Phase Induction Motor - Squirrel Cage



Customer :

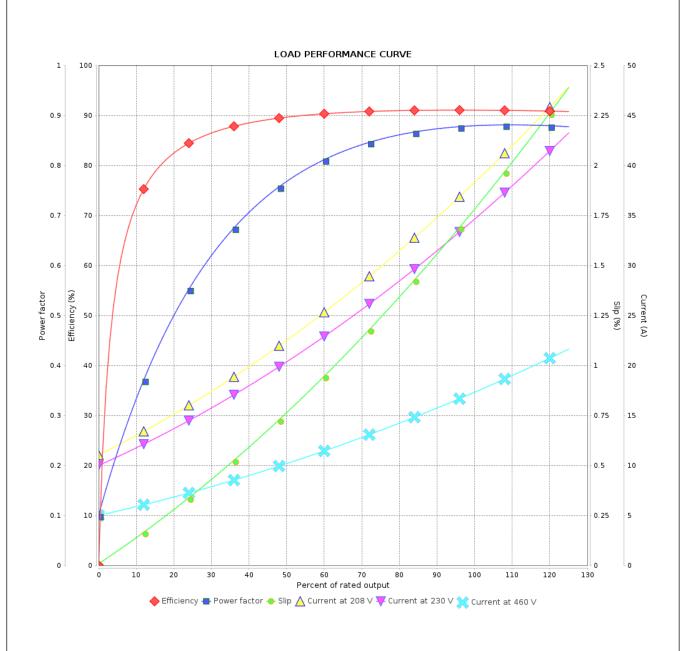
Date

04/11/2025

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 :

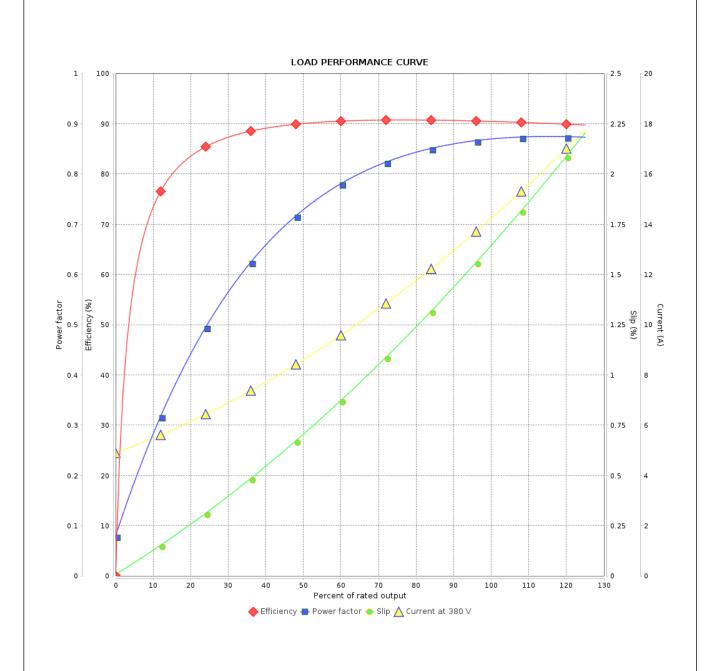
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Date

04/11/2025

Product line : W22 NEMA Premium Efficiency Product code : 12447060

Three-Phase



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0530 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

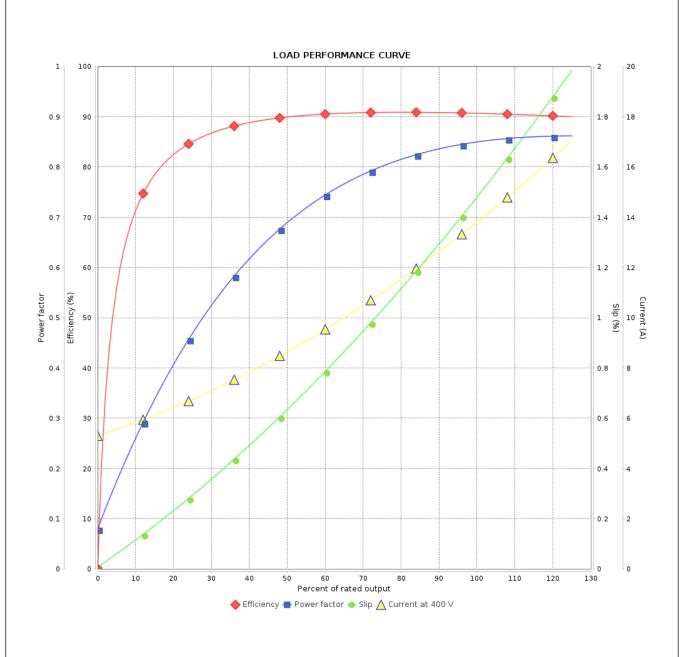


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447060



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque	: 14.0 A : 8.3 : 2.46 kgfm : 229 %	Duty cycle Insulation Service fa	class ctor	: 0.0530 kgm² : Cont.(S1) : F : 1.25	
Breakdown torque Rated speed	: 350 % : 2955 rpm	Temperati Design	ure rise	: 80 K : B	
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Date

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Customer :

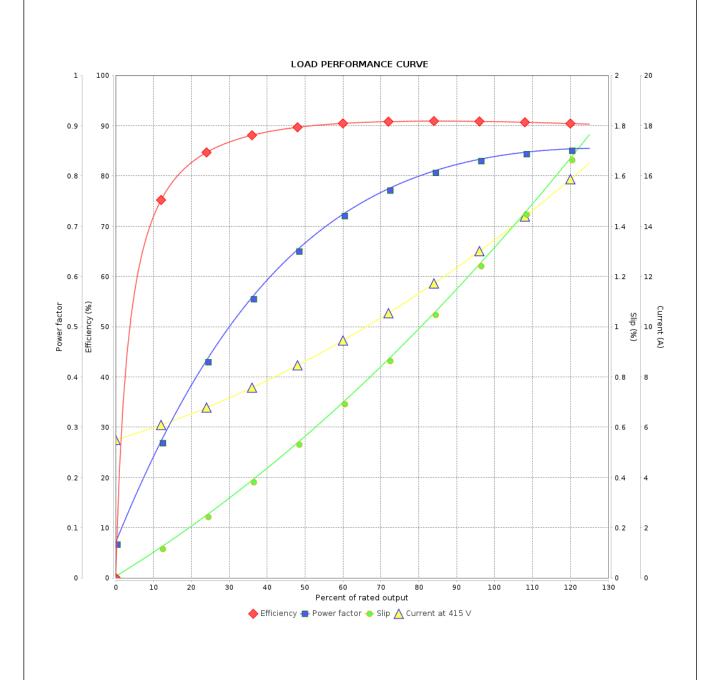
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Date

04/11/2025

Product line : W22 NEMA Premium Efficiency Product code : 12447060

Three-Phase



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Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 13.7 A	Moment of	of inertia (J)	: 0.0530 kgm²	
LRC	: 8.5	Duty cycle	e	: Cont.(S1)	
Rated torque	: 2.45 kgfm	Insulation class		: F	
Locked rotor torque	: 250 %	Service factor		: 1.25	
Breakdown torque	: 380 %	Temperature rise		: 80 K	
Rated speed	: 2960 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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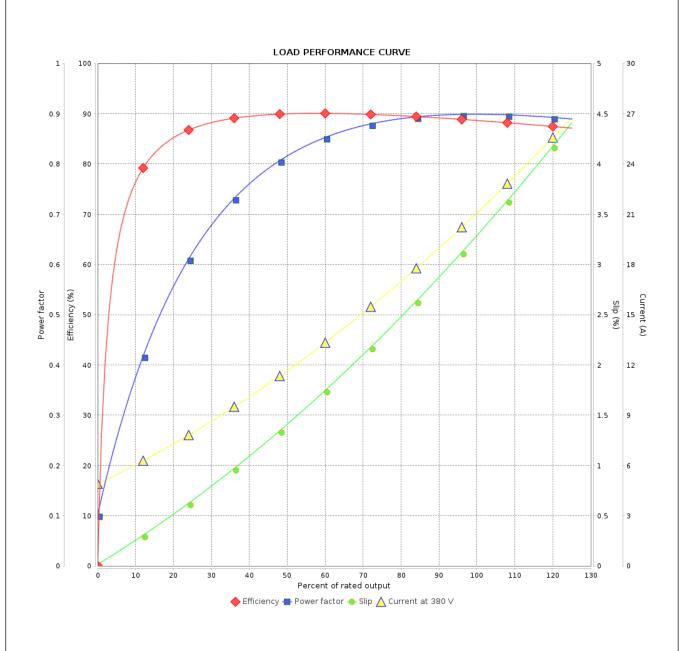
Date

04/11/2025

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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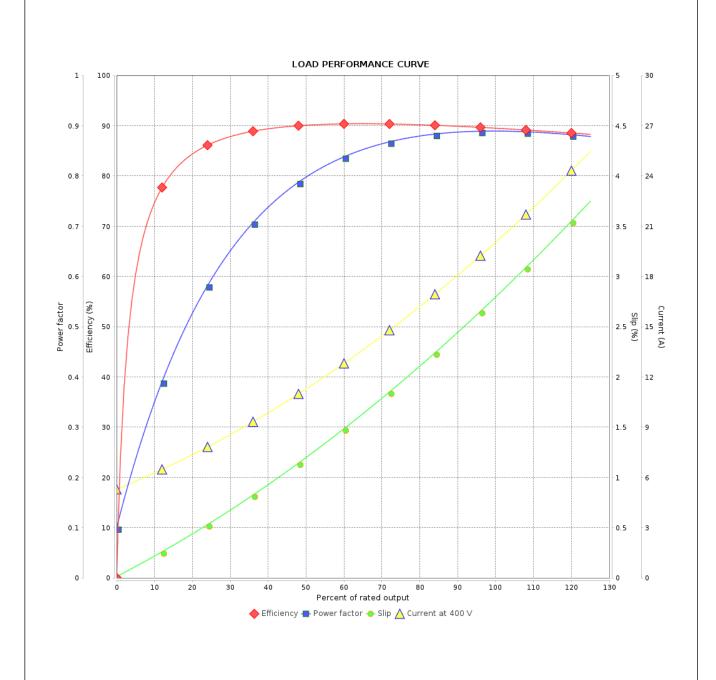
Three Phase Induction Motor - Squirrel Cage



Customer :

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 tord Breakdown torque Rated speed	•	: 19.9 A : 5.6 : 3.73 kgfm : 180 % : 229 % : 2915 rpm	Moment of Duty cycle Insulation Service for Temperat Design	ı class actor	: 0.0530 kgm : Cont.(S1) : F : 1.00 : 105 K : B	2
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Three Phase Induction Motor - Squirrel Cage

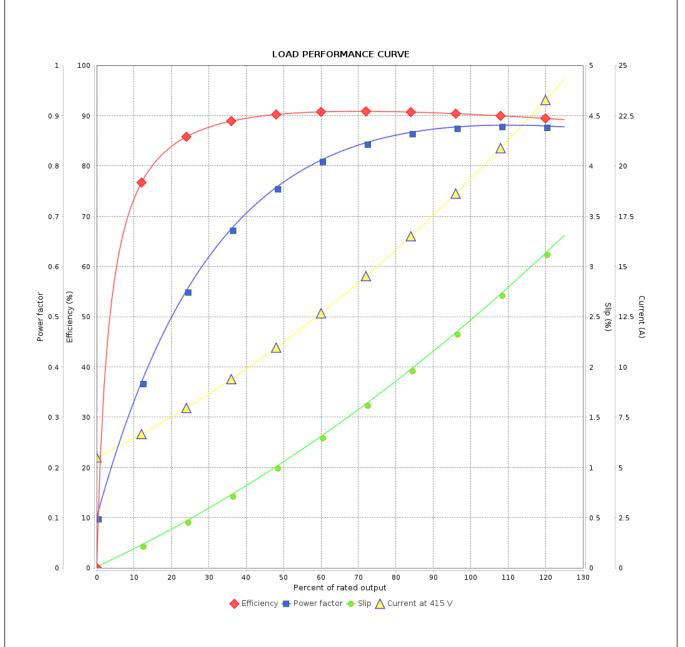


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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447060



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.3 A : 6.1 : 3.72 kgfm : 200 % : 240 % : 2925 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class	: 0.0530 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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