DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 10372266

Frame : 256T Cooling method : IC01 - ODP Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 109 kg
Protection degree : IP23 Moment of inertia (J) : 0.0778 kgm²

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Protection degree		: IP23	Moment of inertia (J) : 0.0778 kg		78 kgm²	
Design		: B				
Output [HP]		20	20	20	20	
Poles		4	4	4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		51.0/25.5	31.0	31.7	30.6	
L. R. Amperes [A]		286/143	115	130	138	
LRC [A]		5.6x(Code G)	3.7x(Code C)	4.1x(Code E)	4.5x(Code E)	
No load current [A]	21.8/10.9	11.1	12.4	13.7	
Rated speed [RPM]		1765	1440	1450	1455	
Slip [%]		1.94	4.00	3.33	3.00	
Rated torque [kgfm]		8.22	10.1	10.0	9.98	
Locked rotor torque [%]		229	160	180	200	
Breakdown torque [%]		250	160	180	200	
Service factor	Service factor		1.00	1.00	1.00	
Temperature rise	Temperature rise		105 K	105 K	105 K	
Locked rotor time		21s (cold) 12s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	
Noise level ²		60.0 dB(A)				
	25%	90.0	88.0	88.1	87.2	
Efficiency (%)	50%	90.2	87.5	87.5	87.5	
Efficiency (%)	75%	91.0	88.5	88.5	88.5	
	100%	91.0	87.5	87.5	88.5	
Power Factor	25%	0.40	0.47	0.40	0.39	
	50%	0.64	0.72	0.62	0.64	
I OWEI FACIOI	75%	0.75	0.81	0.74	0.76	
	100%	0.81	0.84	0.78	0.81	

Drive end Non drive end Foundation loads

Bearing type : 6309 Z C3 6209 Z C3 Max. traction : 259 kgf
Sealing : Without Without Max. compression : 368 kgf

Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h

Lubricant amount : 13 g 9 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 56.4A SF 1.15 SFA 64.9A

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	05/02/2024			1/5	

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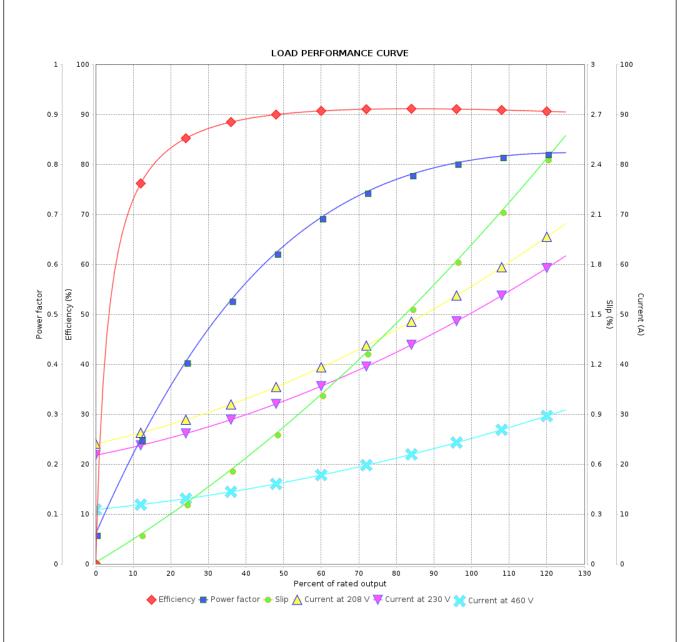
Customer :

Checked by

Date

05/02/2024

Product line : ODP High Efficiency Three-Phase Product code : 10372266



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0778 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
Rev.	Changes Summary	Changes Summary		Checked	Date
Performed by					

Page

2/5

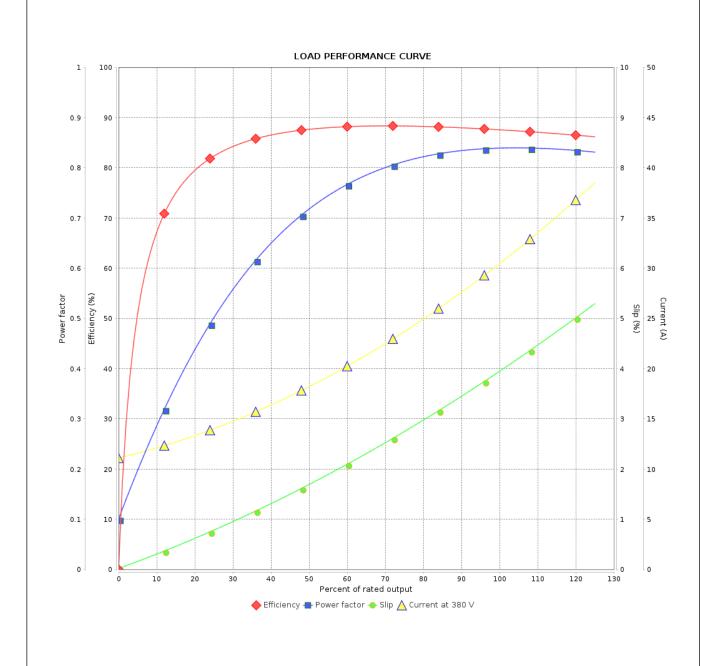
Revision

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 10372266



Performance	: 380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 31.0 A : 3.7 : 10.1 kgfm : 160 % : 160 % : 1440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0778 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

3/5

05/02/2024

Date

Three Phase Induction Motor - Squirrel Cage



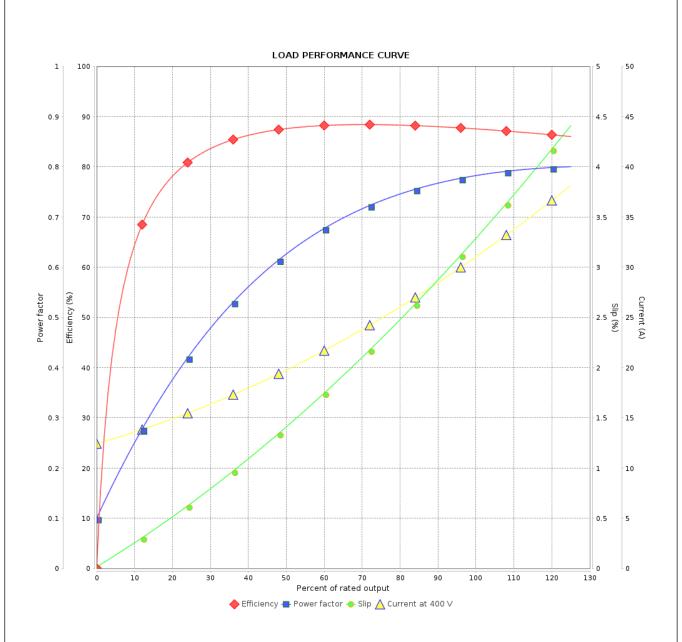
Customer :

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05/02/2024

Product line : ODP High Efficiency Three-Phase Product code : 10372266



Performance	: 400 V 50 Hz 4P				
Rated current	: 31.7 A	Moment of inertia (J)		: 0.0778 kgm²	
LRC	: 4.1	Duty cycle		: Cont.(S1)	
Rated torque	: 10.0 kgfm	Insulation class		: F	
Locked rotor torque	: 180 %	Service factor		: 1.00	
Breakdown torque	: 180 %	Temperature rise		: 105 K	
Rated speed	: 1450 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

4/5

Revision

Three Phase Induction Motor - Squirrel Cage



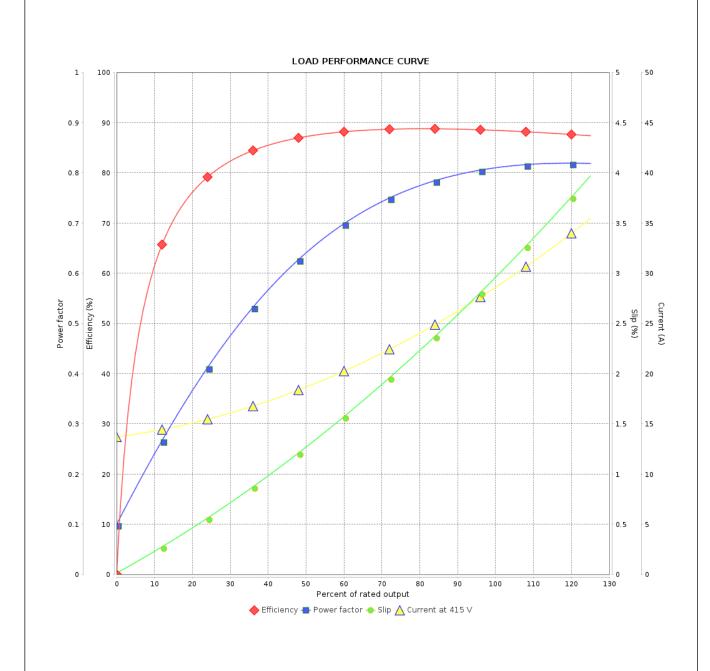
Revision

Page 5 / 5

Customer :

Checked by

Product line : ODP High Efficiency Three-Phase Product code : 10372266



Performance : 415 V 50 Hz 4P Rated current : 30.6 A Moment of inertia (J) : 0.0778 kgm² **LRC** : 4.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.98 kgfm Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by