DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : ODP High Efficiency Three-Phase Product code: 11996595

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

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 : 0.0 kg

Protection degree : IP23 Moment of inertia (J) : 0.0778 kgm² Design : B 20 20 Output [HP] 20 20 Poles 4 4 4 4 60 Frequency [Hz] 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 4.1x(Code E) LRC [A] 5.6x(Code G) 3.7x(Code C) 4.5x(Code E) No load current [A] 21.8/10.9 12.4 11.1 13.7 Rated speed [RPM] 1440 1450 1455 1765 Slip [%] 4.00 3.33 3.00 1.94 Rated torque [kgfm] 8.22 9.98 10.1 10.0 Locked rotor torque [%] 229 200 160 180 Breakdown torque [%] 250 160 180 200 Service factor 1.00 1.15 1.00 1.00 Temperature rise 105 K 105 K 105 K 105 K 21s (cold) 12s (hot) Locked rotor time 27s (cold) 15s (hot) 25s (cold) 14s (hot) 23s (cold) 13s (hot) Noise level² 60.0 dB(A) 25% 50% 90.2 87.5 87.5 87.5 Efficiency (%) 75% 91.0 88.5 88.5 88.5 100% 87.5 88.5 91.0 87.5 25% 0.64 0.72 0.62 0.64 50%

> Drive end Non drive end Foundation loads

0.81

0.84

6309 Z C3 6209 Z C3 Bearing type Max. traction : 314 kgf Sealing Without Without Max. compression : 314 kgf

> Bearing Seal Bearing Seal

0.75

0.81

Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 g

Mobil Polyrex EM Lubricant type

Notes

Power Factor

USABLE @208V 56.4A SF 1.15 SFA 64.9A

75%

100%

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.

0.74

0.78

0.76

0.81

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Three Phase Induction Motor - Squirrel Cage



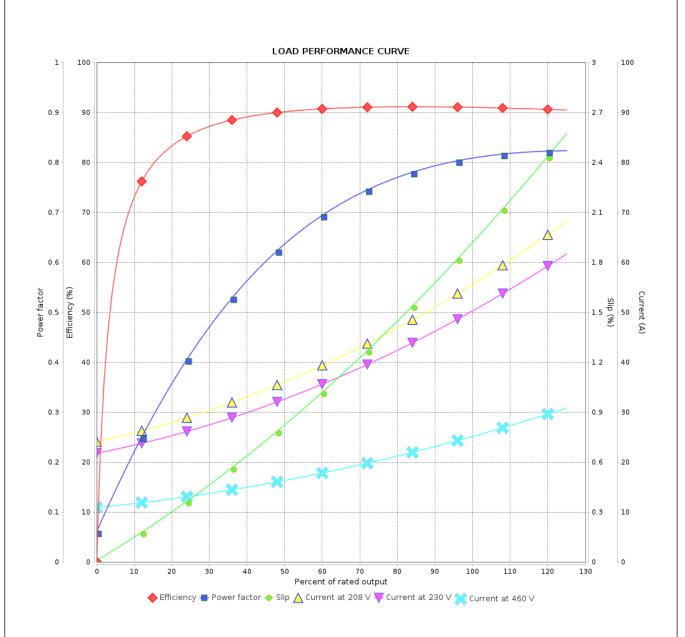
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22/02/2025

Product line : ODP High Efficiency Three-Phase Product code : 11996595



Performance	: 230/460 V 60 Hz 4P	·				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 51.0/25.5 A : 5.6 : 8.22 kgfm : 229 % : 250 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0778 kgm² : Cont.(S1) : F : 1.15 : 105 K : B		
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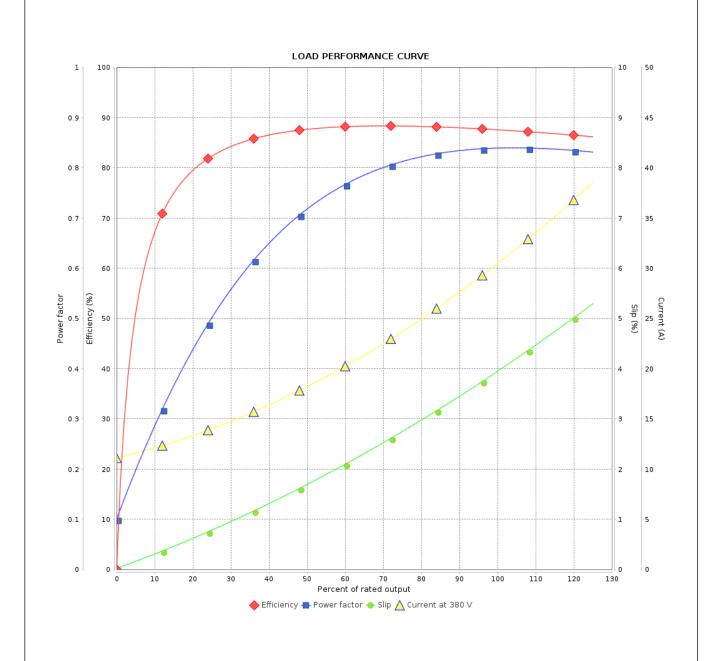
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 11996595



Performance	: 38	30 V 50 Hz 4P				
Rated current	: 3′	1.0 A	A Moment of inertia (J)		: 0.0778 kgm²	2
LRC	: 3.	Duty cycle 10.1 kgfm Insulation class		: Cont.(S1) : F		
Rated torque	: 10					
Locked rotor torqu	ie : 16	60 %	Service factor		: 1.00 : 105 K	
Breakdown torque	: 16	60 % Temperature rise		ure rise		
Rated speed	: 14	140 rpm	Design		: B	
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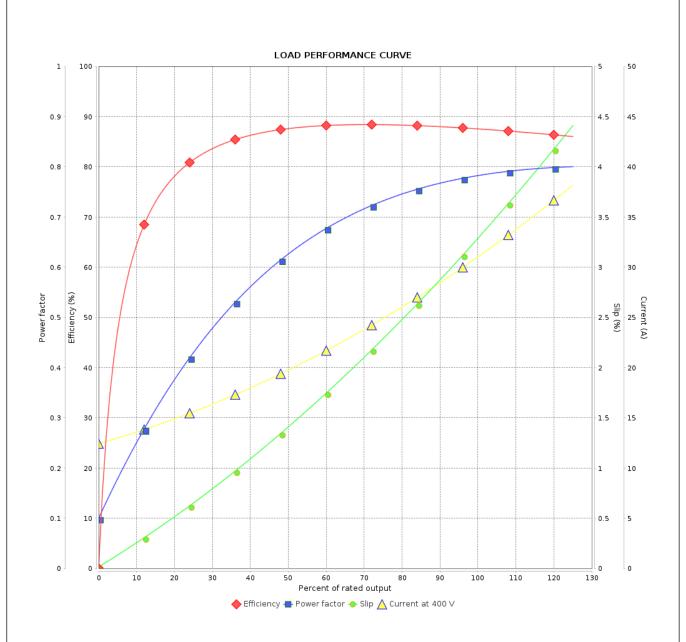
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Product line : ODP High Efficiency Three-Phase Product code : 11996595



Performance		: 400 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		: 31.7 A : 4.1 : 10.0 kgfm : 180 % : 180 % : 1450 rpm	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0778 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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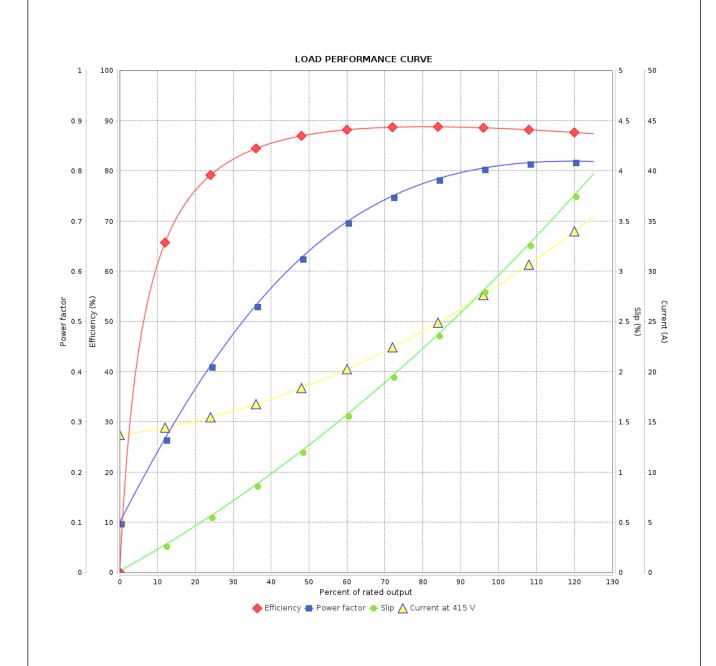
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Product line : ODP High Efficiency Three-Phase Product code : 11996595



Performance	: 415 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 30.6 A		e class actor	(J) : 0.0778 kgm² : Cont.(S1) : F : 1.00 : 105 K : B		
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