DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

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

: 256TC Cooling method : IC01 - ODP Frame

Mounting Insulation class : 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 $\cdot \cap \cap ka$

Altitude		: 1000 m.a.s.i. Approx. we						
Protection degree		: IP23	Moment of inc	Moment of inertia (J) : 0.0778 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 [RPN	/ []	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	Breakdown torque [%]		160	180	200			
Service factor		1.15	1.00	1.00	1.00			
Temperature rise		105 K	105 K	105 K	105 K			
Locked rotor time		21s (cold) 12s (hot)	27s (cold) 15s (hot)	(cold) 15s (hot) 25s (cold) 14s (hot)				
Noise level ²		60.0 dB(A)						
	25%							
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			
	25%							
Power Factor	50%	0.64	0.72	0.62	0.64			
Fower Factor	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

6209 Z C3 Bearing type 6309 Z C3 Max. traction : 314 kgf Sealing

Without Without Max. compression : 314 kgf Bearing Seal Bearing Seal

Lubrication interval 20000 h 20000 h 9 g Lubricant amount 13 g Mobil Polyrex EM Lubricant type

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.

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Three Phase Induction Motor - Squirrel Cage



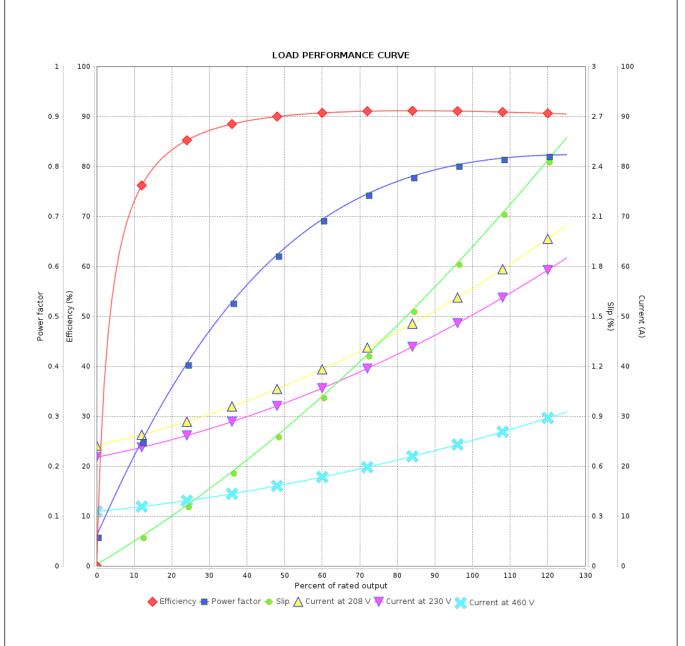
Customer :

Checked by

Date

05/05/2024

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



Performance		: 230/460 V 60 Hz 4	IP			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 51.0/25.5 A : 5.6 : 8.22 kgfm : 229 % : 250 % : 1765 rpm	Duty cyc Insulatio Service	n class	: 0.0778 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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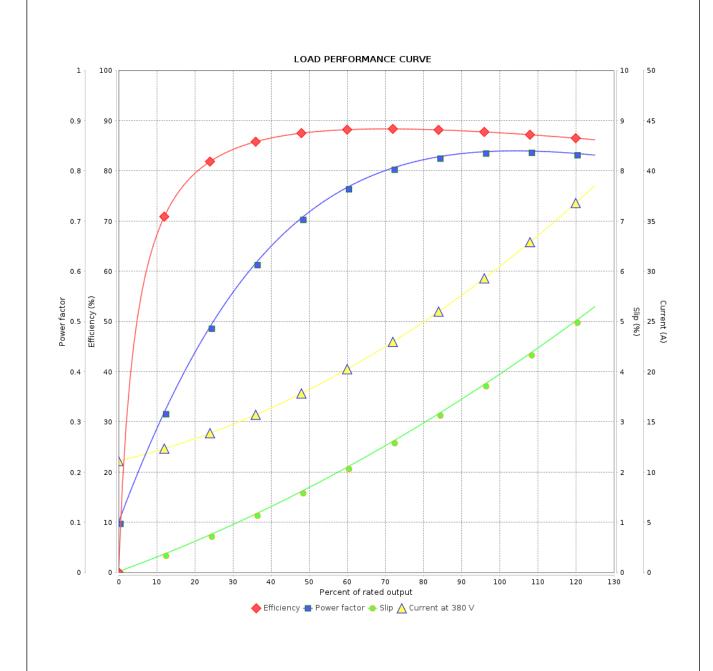
Customer :

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



Performance	: 380 V 50 Hz 4P				
				0.0770 1 3	
Rated current	: 31.0 A	Moment of inertia (J)		: 0.0778 kgm²	
LRC	: 3.7	Service factor Temperature rise		: Cont.(S1) : F : 1.00 : 105 K : B	
Rated torque	: 10.1 kgfm				
Locked rotor torque	: 160 %				
Breakdown torque	: 160 %				
Rated speed	: 1440 rpm				
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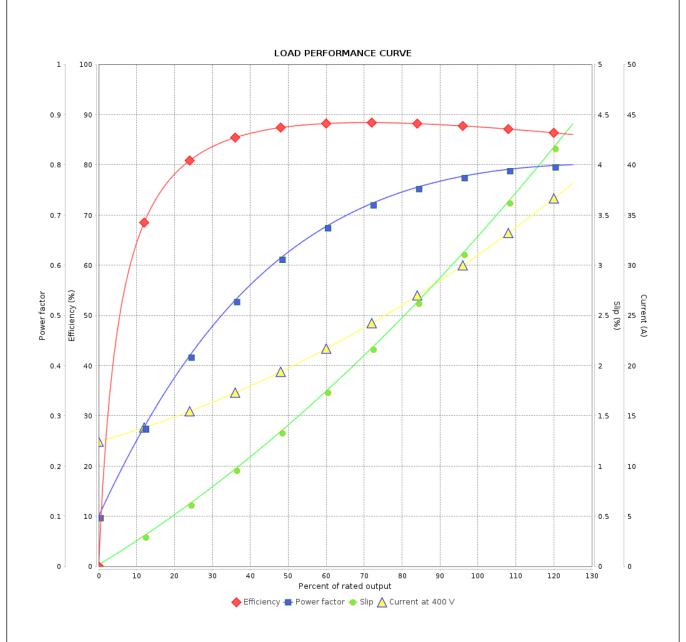
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Three Phase Induction Motor - Squirrel Cage



Customer :

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



Performance	: 400 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 31.7 A : 4.1 : 10.0 kgfm : 180 % : 180 % : 1450 rpm	Moment of Duty cycl Insulation Service fa Temperat Design	class actor	: 0.0778 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	2
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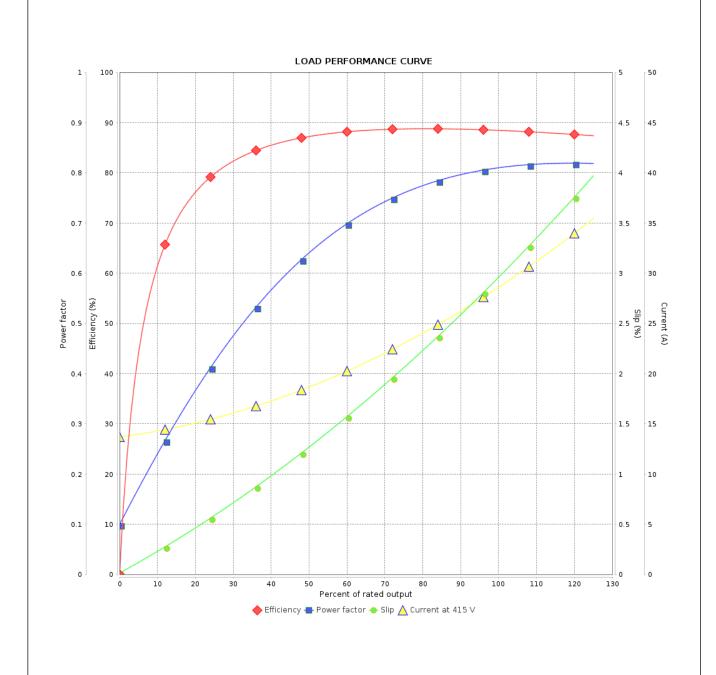
Customer :

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Date

05/05/2024

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



Performance	: 4	15 V 50 Hz 4P					
Rated current : 30.6 A		Moment o	Moment of inertia (J)		!		
LRC	: 4.5		Duty cycle)	: Cont.(S1)		
Rated torque : 9.98 kgfm		Insulation	class	: F			
Locked rotor torque		.00 %	Service fa	Service factor		: 1.00	
Breakdown torque : 200 %		Temperati	Temperature rise				
Rated speed : 1455 rpm		Design		: B			
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