DATA SHEET

Three Phase Induction Motor - Squirrel Cage



: 0.3498 kgm²

705

730

Customer

Product line : ODP NEMA Premium Efficiency Product code: 14056631

Three-Phase

1501/750

: 364/5TSC Frame Cooling method : IC01 - ODP

Insulation class Mounting : F : F-1

653

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 : 379 kg

Protection degree : IP23 Design : B

Output [HP] 100 75 100 100 100 75 75 Poles 2 2 2 2 2 2 2 50 50 50 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 140 224/112 102 96.8 94.2 133 128 L. R. Amperes [A] 672

678

Moment of inertia (J)

707

LRC [A]		6.7x(Code	6.4x(Code	7.0x(Code	7.5x(Code H)	4.8x(Code D)	5.3x(Code E)	5.7x(Code F)
		Ġ)	Ġ)	Ġ)	, ,		,	
No load current [A]		60.0/30.0	29.0	32.0	34.0	29.0	32.0	34.0
Rated speed [RPM]	3560	2965	2970	2975	2945	2950	2945
Slip [%]		1.11	1.17	1.00	0.83	1.83	1.67	1.83
Rated torque [kgfm]	20.4	18.4	18.3	18.3	24.6	24.6	24.6
Locked rotor torque [%]		190	200	210	240	150	160	180
Breakdown torque	Breakdown torque [%]		240	260	290	170	190	210
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise	Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		21s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)
		12s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)
Noise level ²		83.0 dB(A)						
	25%							

50% 94.1 90.2 90.0 89.9 91.7 91.7 91.7 Efficiency (%) 75% 94.5 91.9 91.9 91.9 92.4 92.4 92.4 100% 94.5 94.3 94.3 94.5 93.8 93.8 93.8 25% 50% 0.84 0.78 0.75 0.73 0.85 0.83 0.81 Power Factor 75% 0.89 0.86 0.84 0.83 0.87 0.87 0.87 100% 0.89 0.87 0.87 0.86 0.87 0.87 0.87

Drive end Non drive end Foundation loads Bearing type 6314 C3 6314 C3 Max. traction

Sealing Without Without Max. compression : 771 kgf Bearing Seal Bearing Seal

Lubrication interval 14418 h 14418 h Lubricant amount 27 g 27 g Lubricant type Mobil Polyrex EM

Notes USABLE @208V 248A SF 1.15 SFA 285A

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.

: 392 kgf

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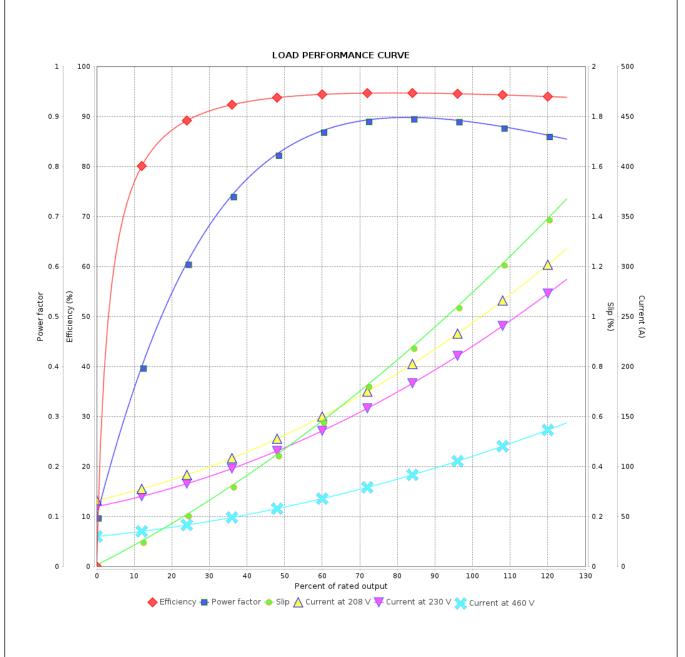


Customer :

Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 14056631



Performance	: 230/460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	C : 6.7 Duty cycle ted torque : 20.4 kgfm Insulation class cked rotor torque : 190 % Service factor eakdown torque : 250 % Temperature rise		cycle : Cont.(S1) tion class : F te factor : 1.15 terature rise : 80 K	
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Three Phase Induction Motor - Squirrel Cage



Customer :

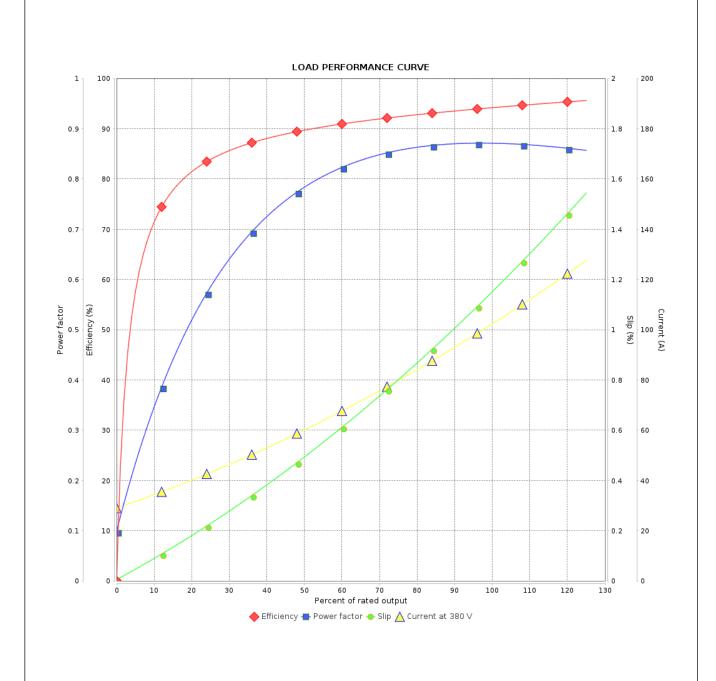
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Date

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Product line : ODP NEMA Premium Efficiency Product code : 14056631

Three-Phase



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 6.4 : 18.4 kgfm : 200 % : 240 % : 2965 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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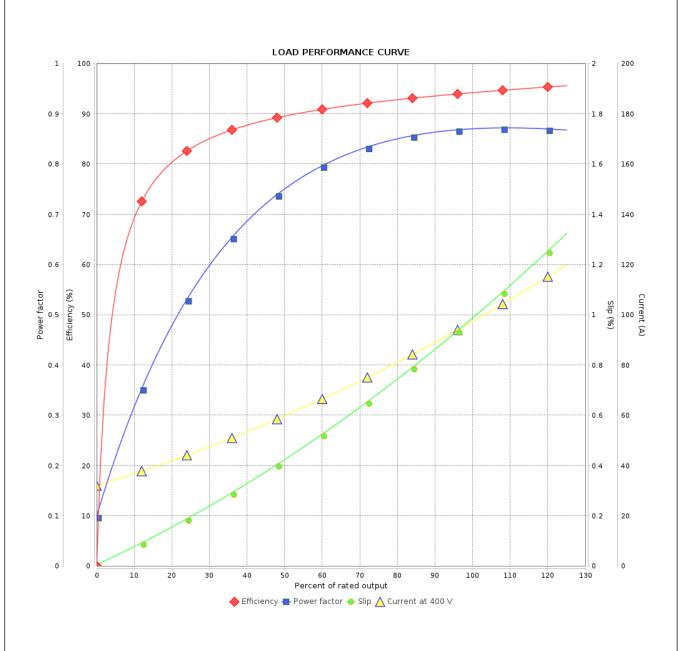


Customer :

Product line : ODP NEMA Premium Efficiency

Three Phase

Product code: 14056631



Performance	. 400 V 50 H= 2D IE2			
Performance	: 400 V 50 Hz 2P IE3			
Rated current	ated current : 96.8 A Moment of inertia (J		ent of inertia (J) : 0.3498 kgm²	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 18.3 kgfm	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.15	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 2970 rpm	Design	: B	
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Three Phase Induction Motor - Squirrel Cage



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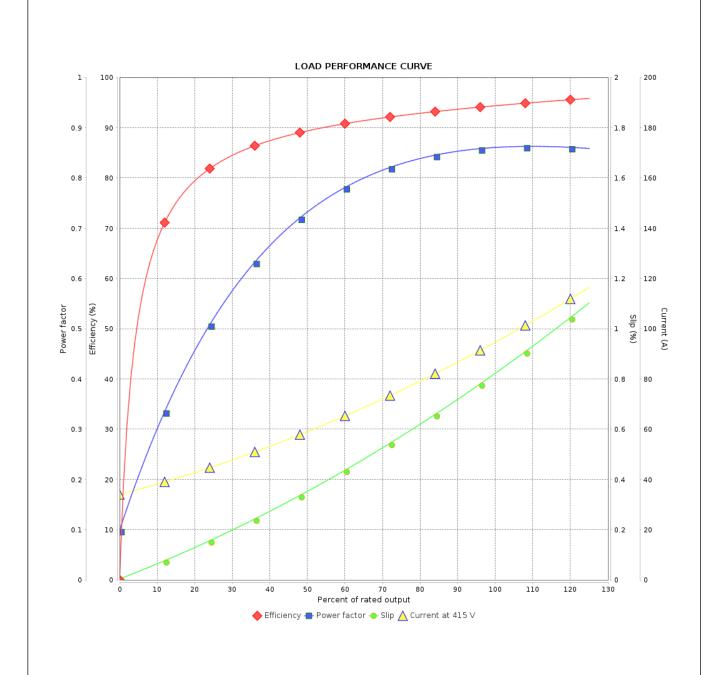
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Product line : ODP NEMA Premium Efficiency Product code : 14056631

Three-Phase



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 94.2 A : 7.5 : 18.3 kgfm : 240 % : 290 % : 2975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1) ass : F or : 1.15	
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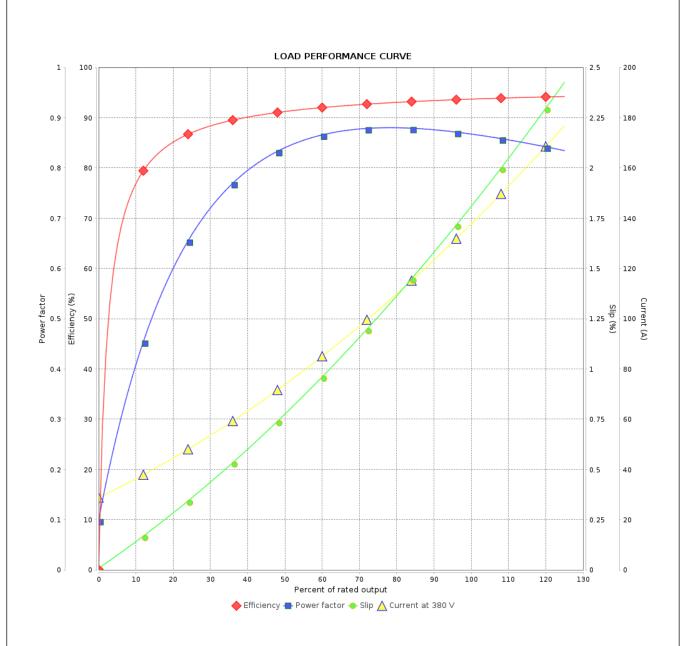


Customer

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Product line : ODP NEMA Premium Efficiency

Product code: 14056631



Performance	: 3	880 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4 : 2 ue : 1 e : 1	140 A 1.8 24.6 kgfm 150 % 170 % 2945 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3498 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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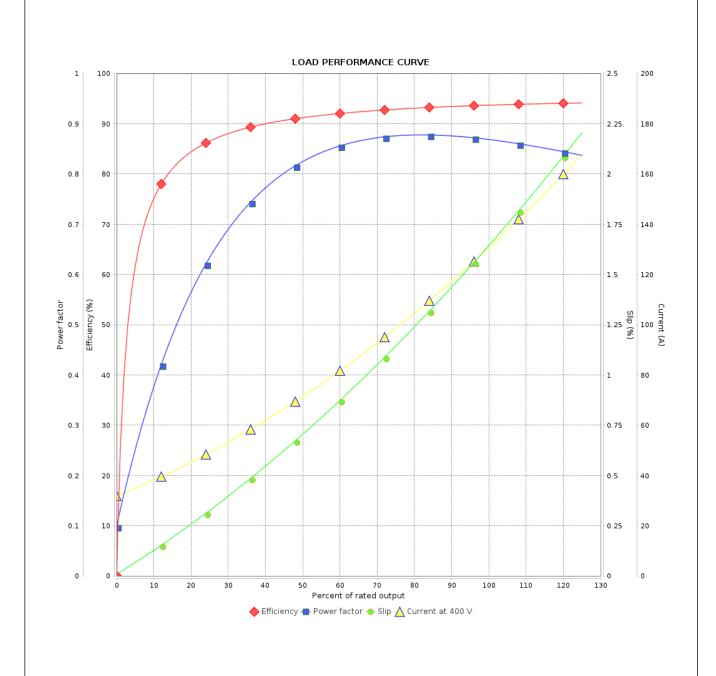
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Product code : 14056631

Three-Phase



	·	1.		,		
Performance	: 400 V 50 Hz 2P IE2					
Rated current	: 133 A	Moment of	of inertia (J)	: 0.3498 kgm²		
LRC	: 5.3	Duty cycle	Duty cycle			
Rated torque	: 24.6 kgfm	Insulation	Insulation class			
Locked rotor torqu	e : 160 %	Service fa	Service factor			
Breakdown torque	: 190 %	Temperati	ure rise	: 80 K		
Rated speed	: 2950 rpm	Design		: B		
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Rated speed	: 29	950 rpm	Design		: В	
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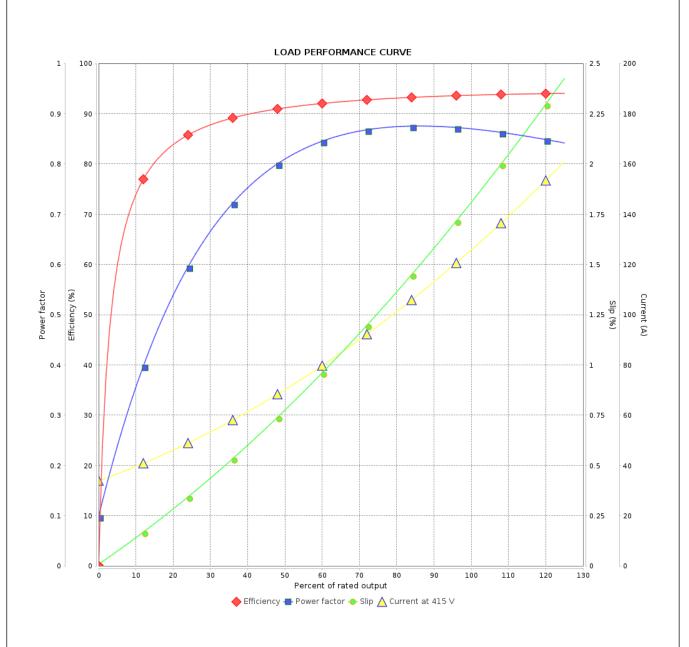


Customer :

Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 14056631



Performance	: 415 V 50 Hz 2P IE2	: 415 V 50 Hz 2P IE2						
Rated current : 128 A LRC : 5.7 Rated torque : 24.6 kgfm Locked rotor torque : 180 % Breakdown torque : 210 % Rated speed : 2945 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3498 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	2			
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