DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : ODP NEMA Premium Efficiency Product code: 10015864

Three-Phase

: 254T Frame 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 Annrox weight³ · 95 4 kg

Altitude		: 1000 m.a.	s.l.	Approx	x. weight³	: 9	15.4 kg	
Protection degre	е	: IP23		Mome	nt of inertia (J)	: 0	.0309 kgm ²	
Design		: B			,		•	
Output [HP]		20	15	15	15	20	20	20
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]		49.2/24.6	22.1	22.0	22.0	30.3	29.5	28.8
L. R. Amperes [A]		276/138	126	132	143	133	142	150
LRC [A]		5.6x(Code F)	5.7x(Code F)	6.0x(Code G)	6.5x(Code H)	4.4x(Code D)	4.8x(Code E)	5.2x(Code F
No load current [A		18.2/9.10	9.00	10.0	11.5	9.00	10.0	11.5
Rated speed [RPN	1]	3520	2935	2940	2945	2900	2910	2920
Slip [%]		2.22	2.17	2.00	1.83	3.33	3.00	2.67
Rated torque [kgfn	n]	4.12	3.71	3.70	3.70	5.01	4.99	4.97
Locked rotor torqu	e [%]	160	180	200	220	130	140	150
Breakdown torque	[%]	250	270	300	320	180	220	240
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		21s (cold) 12s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)
Noise level ²		66.0 dB(A)	, ,	,	,	,	,	,
	25%							
Efficiency (0/)	50%	89.5	84.7	84.4	85.0	86.5	86.5	87.5
Efficiency (%)	75%	90.2	86.9	86.9	87.9	87.5	87.5	88.5
	100%	91.0	91.2	91.2	91.4	87.5	87.5	88.5
	25%							
Power Factor	50%	0.71	0.65	0.60	0.55	0.74	0.69	0.64
I OWEI FACIOI	75%	0.80	0.77	0.72	0.68	0.83	0.79	0.76
	100%	0.84	0.83	0.79	0.76	0.86	0.84	0.82

Drive end Non drive end Bearing type 6309 Z C3 6209 Z C3

Sealing Without Without

Bearing Seal Bearing Seal 20000 h 20000 h

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

Foundation loads

Max. traction : 140 kgf Max. compression : 235 kgf

Notes

USABLE @208V 53.0A SF 1.15 SFA 60.9A

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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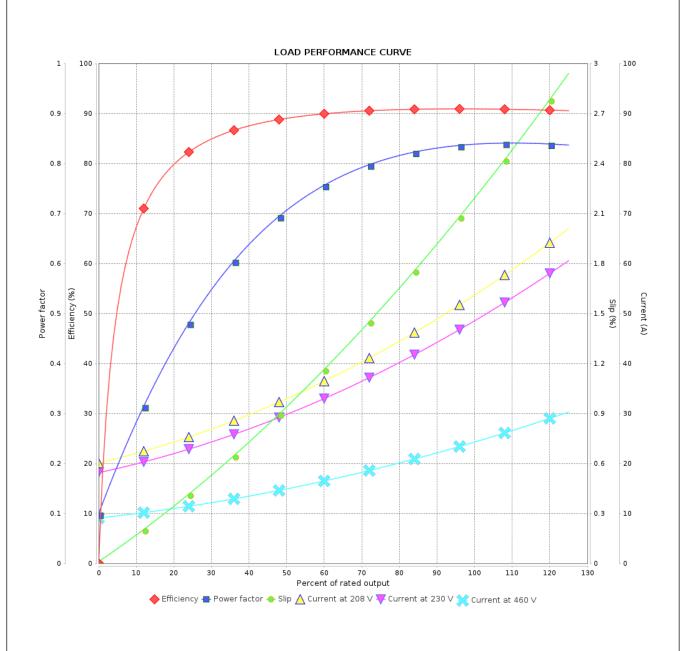


Customer :

Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 10015864



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 49.2/24.6 A : 5.6 : 4.12 kgfm : 160 % : 250 % : 3520 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		uty cycle : Cont.(S1) sulation class : F ervice factor : 1.15 mperature rise : 80 K	
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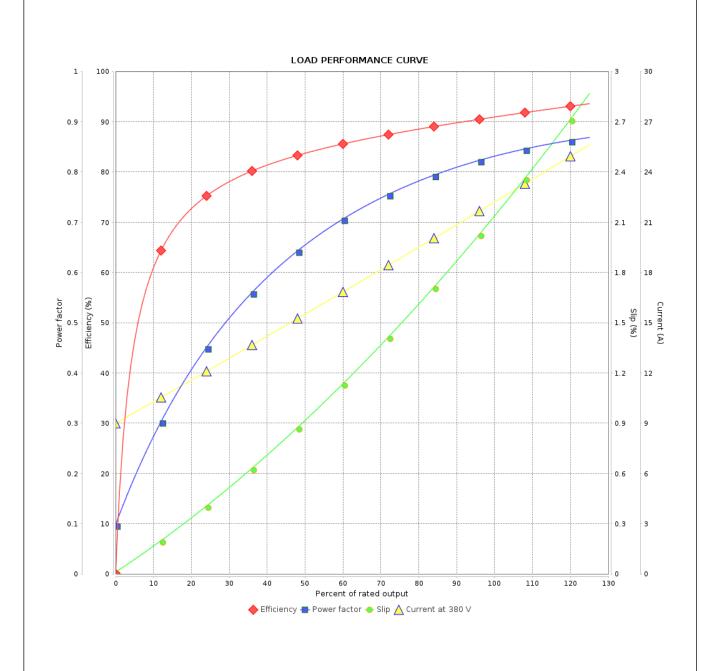
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Product code : 10015864

Three-Phase



Performance	: 380 V 50 Hz 2P IE3				
renomance	. 300 V 30 HZ ZF 1E3				
Rated current	: 22.1 A	Moment o	f inertia (J)	: 0.0309 kgm	2
LRC	: 5.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 3.71 kgfm	Insulation class		ation class : F	
Locked rotor torque	: 180 %	Service factor		: 1.15	
Breakdown torque	: 270 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2935 rpm	Design		: B	
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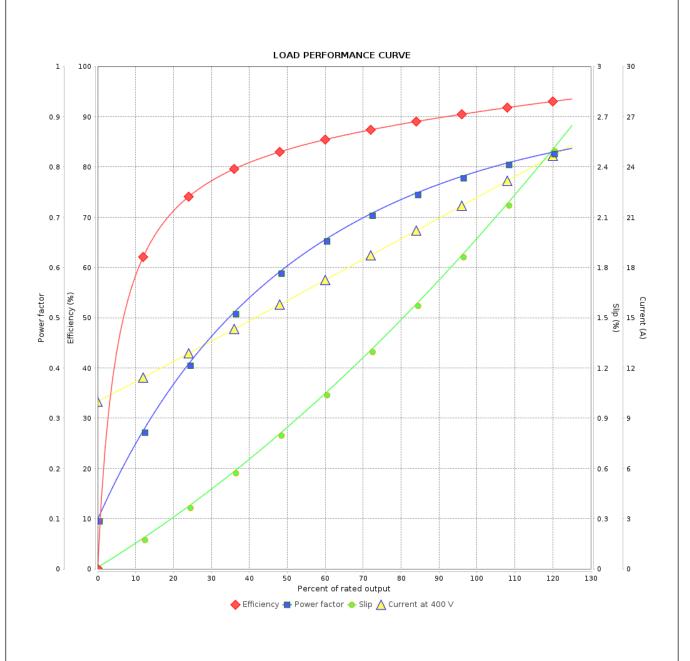


Customer :

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Three-Phase

Product code: 10015864



Performance	: 40	00 V 50 Hz 2P IE3				
Rated current	: 22	0 A Moment of		Moment of inertia (J)		2
LRC	: 6.	.0	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 3.	.70 kgfm	Insulation	class	: F	
Locked rotor tord	que : 20	00 %	Service fa	actor	: 1.15	
Breakdown torqu	ie : 30	00 %	Temperature rise		: 80 K	
Rated speed	•		Design		: B	
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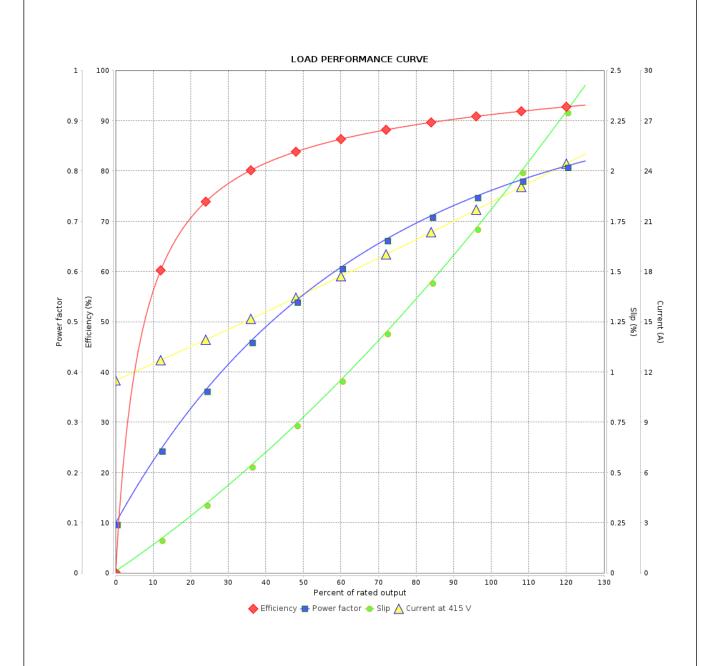
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Product code : 10015864

Three-Phase



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.0 A : 6.5 : 3.70 kgfm : 220 % : 320 % : 2945 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.0309 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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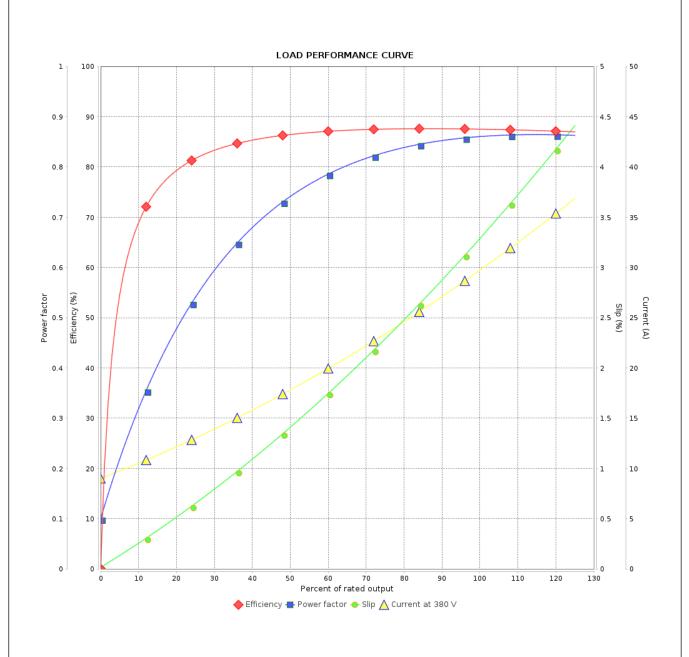
Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code:

10015864

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Performance	. 2	880 V 50 Hz 2P			·			
renormance	. 3	000 V 30 HZ ZP						
Rated current		30.3 A	Moment of inertia (J)		: 0.0309 kgm² : Cont.(S1)	2		
LRC Rated torque		l.4 5.01 kgfm	, ,	Duty cycle Insulation class				
Locked rotor torq	ue : 1	30 %	Service factor		: 1.15			
Breakdown torqu	torque : 180 % Temperatur		ıre rise	: 80 K				
Rated speed	: 2	2900 rpm	Design		: B			
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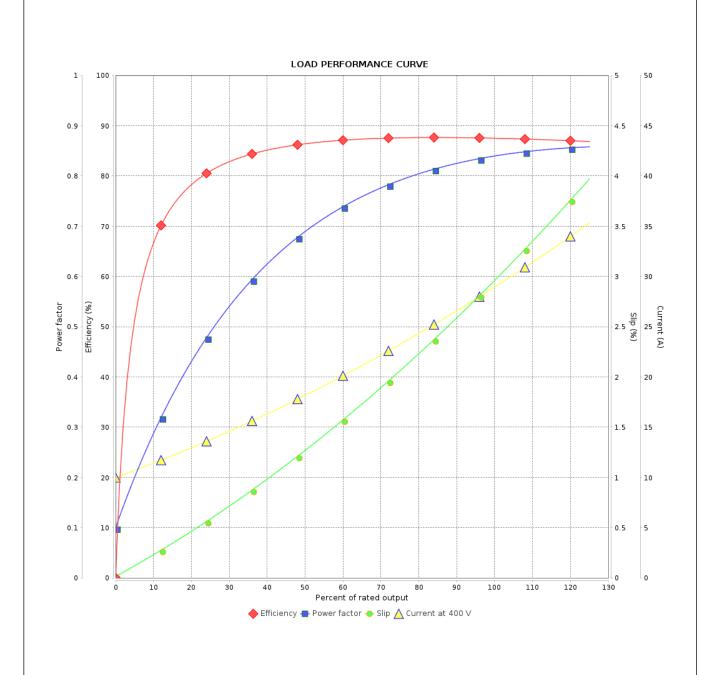
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase



Performance		: 400 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 29.5 A : 4.8 : 4.99 kgfm : 140 % : 220 % : 2910 rpm	Moment of Duty cycles Insulation Service for Temperate Design	n class actor	: 0.0309 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2
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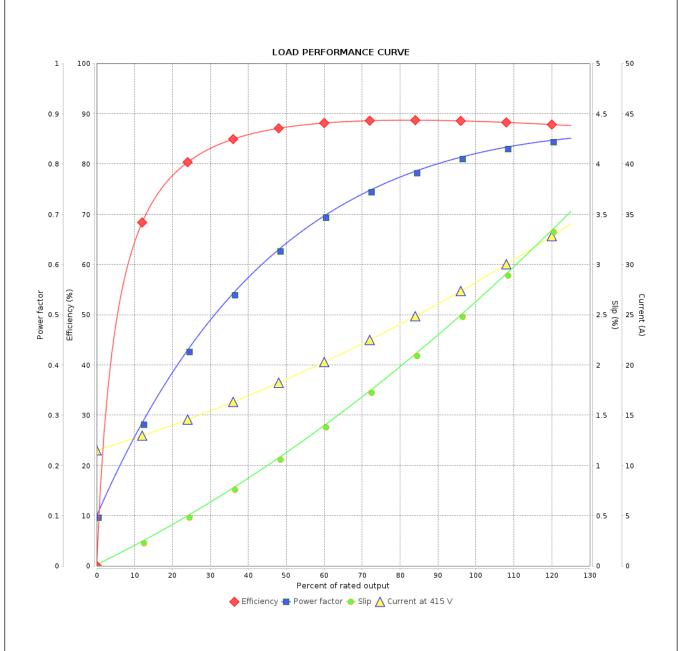
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Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 10015864



Performance	: 4	415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 4 jue : 1 ie : 2	28.8 A 5.2 4.97 kgfm 150 % 240 % 2920 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0309 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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