DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Product code : 11997391

Three-Phase

Frame : 324TC Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 218 kg
Protection degree : IP23 Moment of inertia (J) : 0.2551 kgm²

Protection degree		: IP23		Momer	it of inertia (J)	: 0	.2551 kgm²	
Design		: B						
Output [HP]		40	30	30	30	40	40	40
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		96.4/48.2	42.8	41.6	41.1	58.1	55.8	54.4
L. R. Amperes [A]		598/299	270	291	312	279	301	321
LRC [A]		6.2x(Code	6.3x(Code	7.0x(Code H)	7.6x(Code J)	4.8x(Code E)	5.4x(Code F)	5.9x(Code
		G)	G)					G)
No load current [A]		37.0/18.5	15.4	16.8	18.1	15.4	16.8	18.1
Rated speed [RPM]]	1775	1475	1475	1480	1465	1470	1475
Slip [%]		1.39	1.67	1.67	1.33	2.33	2.00	1.67
Rated torque [kgfm]		16.4	14.8	14.8	14.7	19.8	19.7	19.7
Locked rotor torque [%]		220	240	270	290	180	200	220
Breakdown torque [[%]	229	340	370	400	250	280	300
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		50s (cold)	36s (cold)	32s (cold)	30s (cold)	36s (cold)	32s (cold)	30s (cold)
		28s (hot)	20s (hot)	18s (hot)	17s (hot)	20s (hot)	18s (hot)	17s (hot)
Noise level ²		64.0 dB(A)						
	25%							
Efficiency (%)	50%	93.6	90.1	89.9	89.8	91.7	91.7	91.7
Lilicitity (70)	75%	94.1	91.7	91.7	92.0	91.7	91.7	92.4
	100%	94.1	93.0	93.0	93.0	92.3	92.3	92.4
	25%							
Power Factor	50%	0.68	0.70	0.66	0.63	0.77	0.74	0.71
1 OWELL ACIOL	75%	0.78	0.80	0.77	0.74	0.84	0.82	0.80
	100%	0.83	0.84	0.82	0.80	0.85	0.84	0.83

Bearing type

Drive end Non drive end Foundation loads
6312 Z C3 6212 Z C3 Max traction

Bearing type : 6312 Z C3 6212 Z C3 | Max. traction : 634 kgf
Sealing : Without Without | Max. compression : 852 kgf

Bearing Seal Bearing Seal
Lubrication interval : 20000 h 20000 h
Lubricant amount : 21 g 13 g
Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 107A SF 1.15 SFA 123A

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

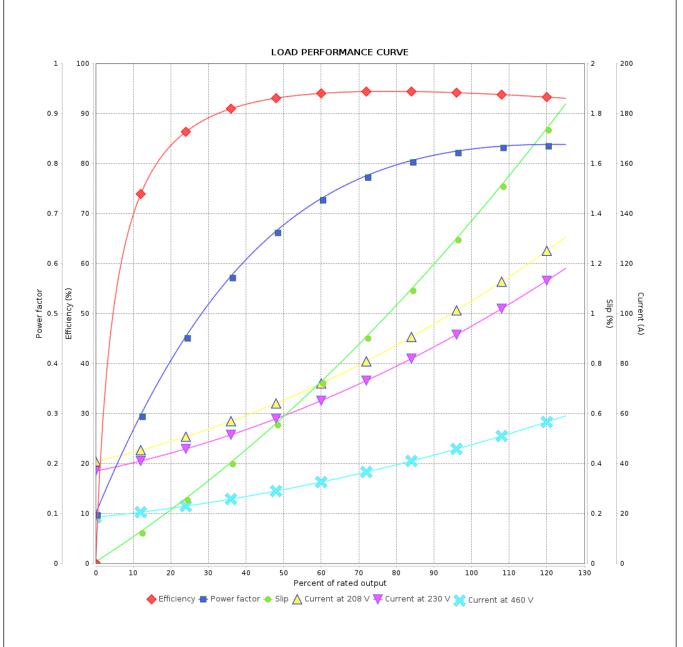


Customer :

Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 11997391



Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	RC : 6.2 Duty cycle ated torque : 16.4 kgfm Insulation cked rotor torque : 220 % Service fa eakdown torque : 229 % Temperat		Moment of inertia (J) : 0.2551 kgm Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B			
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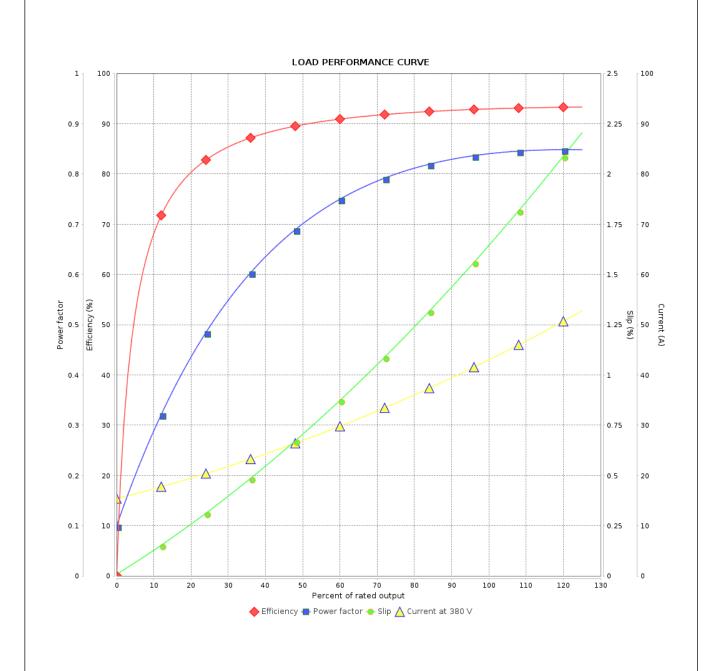
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.8 A : 6.3 : 14.8 kgfm : 240 % : 340 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2551 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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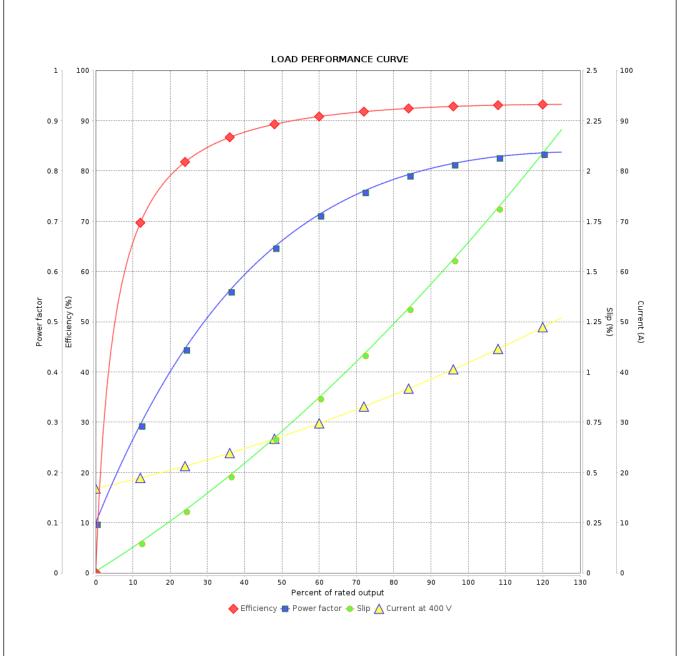


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Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 41.6 A Moment of inertia		` '	: 0.2551 kgm ²	2
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 14.8 kgfm	Insulation	class	: F	
Locked rotor torque	: 270 %	Service factor Temperature rise Design		: 1.15	
Breakdown torque	: 370 %			: 80 K : B	
Rated speed	: 1475 rpm				
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Customer :

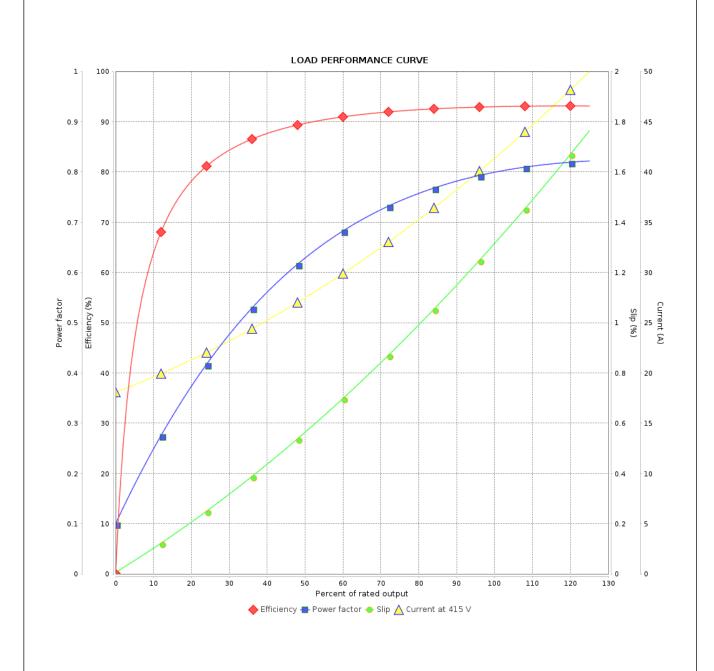
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Product line : ODP NEMA Premium Efficiency Product code : 11997391

Three-Phase



Performance		: 415 V 50 Hz 4P IE	3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 41.1 A : 7.6 : 14.7 kgfm : 290 % : 400 % : 1480 rpm	Duty Insula Servi	ation class ce factor erature rise	: 0.2551 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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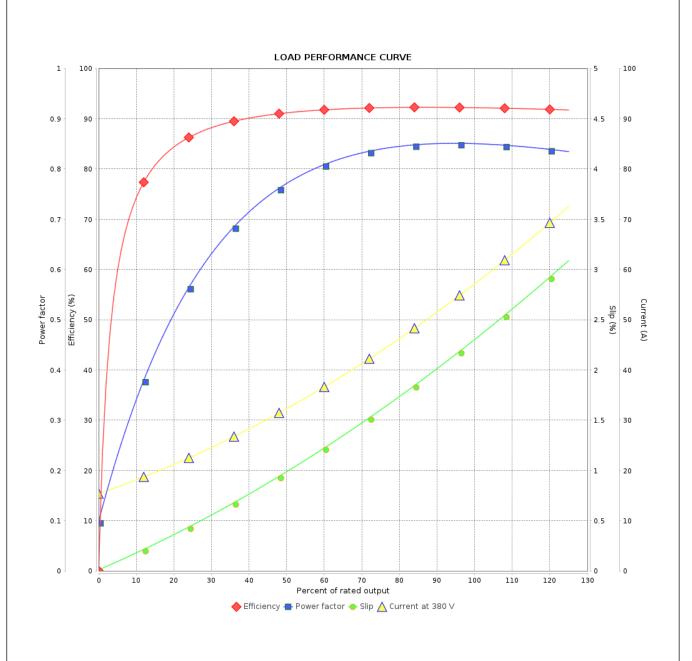


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Performance	: 3	80 V 50 Hz 4P IE2				
Rated current : 58.1 A		Moment of	of inertia (J)	: 0.2551 kgm ²	2	
LRC	: 4	.8	Duty cycle	е	: Cont.(S1)	
Rated torque	: 1	9.8 kgfm	Insulation	class	: F	
Locked rotor torqu	e :1	80 %	Service fa	actor	: 1.15	
Breakdown torque	: 2	50 %	Temperature rise		: 80 K	
Rated speed	: 1	465 rpm	5 rpm Design		: B	
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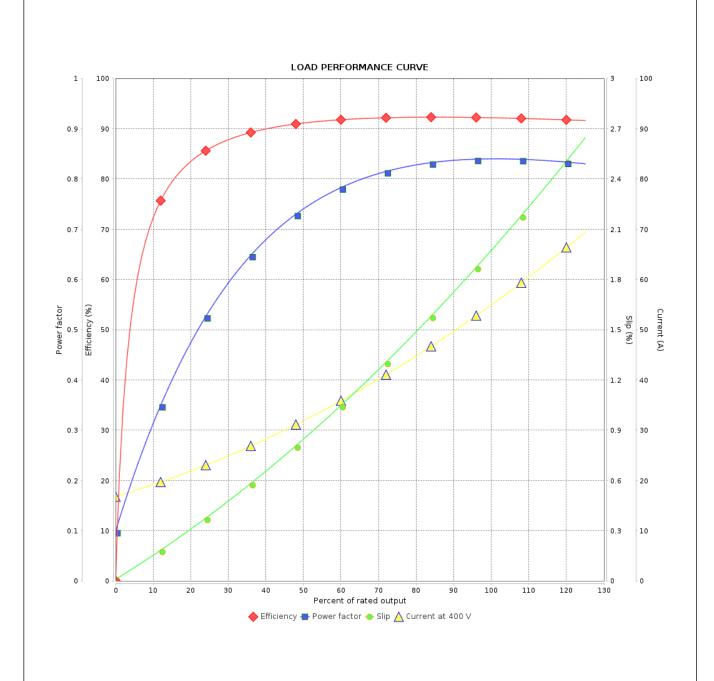
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Performance	: 400 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 55.8 A : 5.4 : 19.7 kgfm : 200 % : 280 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2551 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
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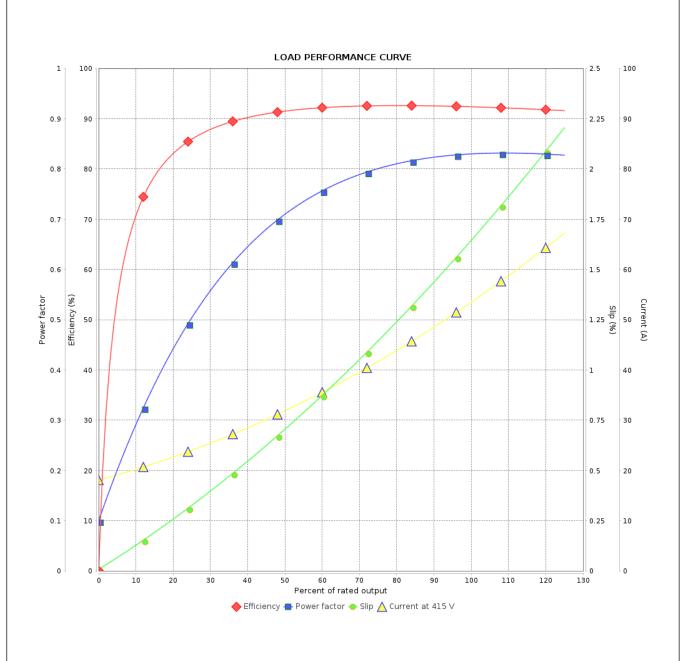
Customer :

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Product code:

11997391



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 54.4 A		Moment of	Moment of inertia (J)		2
LRC	: 5	.9	Duty cycle	e	: Cont.(S1)	
Rated torque	: 1	9.7 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 2	20 %	Service fa	actor	: 1.15	
Breakdown torqu	e : 3	00 %	0 % Temperature rise		: 80 K	
Rated speed	·		Design		: B	
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