DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Product code : 11997216

Three-Phase

Frame : 284TC 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. Approx. weight³ : 165 kg

Protection degree : IP23 Moment of inertia (J) : 0.1435 kgm²

Protection degree		: IP23		Momer	nt of inertia (J)	: 0	0.1435 kgm²	
Design		: B						
Output [HP]		25	20	20	20	25	25	25
Poles	Poles		4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]	Rated voltage [V]		380	400	415	380	400	415
Rated current [A]		59.8/29.9	29.8	29.4	28.6	36.1	35.1	34.0
L. R. Amperes [A]		401/200	197	194	186	195	193	187
LRC [A]		6.7x(Code H)	6.6x(Code H)	6.6x(Code H)	6.5x(Code H)	5.4x(Code F)	5.5x(Code F)	5.5x(Code F)
No load current [A]		24.0/12.0	11.9	12.9	13.8	11.9	12.9	13.8
Rated speed [RPM]	1770	1470	1470	1475	1460	1465	1470
Slip [%]	Slip [%]		2.00	2.00	1.67	2.67	2.33	2.00
Rated torque [kgfm]		10.3	9.87	9.87	9.84	12.4	12.4	12.3
Locked rotor torque [%]		250	290	300	330	229	240	260
Breakdown torque	Breakdown torque [%]		300	330	360	240	260	290
Service factor	Service factor		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		27s (cold)	36s (cold)	37s (cold)	41s (cold)	36s (cold)	37s (cold)	41s (cold)
		15s (hot)	20s (hot)	21s (hot)	23s (hot)	20s (hot)	21s (hot)	23s (hot)
Noise level ²		62.0 dB(A)						
	25%							
Efficiency (%)	50%	92.4	89.6	89.4	88.8	91.0	91.0	91.0
Lindicity (70)	75%	93.0	91.5	91.5	91.4	91.7	91.7	91.7
	100%	93.6	92.1	92.1	92.3	91.7	91.7	92.4
	25%							
Power Factor	50%	0.67	0.66	0.62	0.59	0.73	0.69	0.66
I OWELL ACIOL	75%	0.78	0.78	0.74	0.71	0.82	0.79	0.77
	100%	0.83	0.83	0.80	0.78	0.85	0.83	0.82

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6311 Z C3 6211 Z C3 Max. traction : 429 kgf Sealing : Without Without Max. compression : 594 kgf

Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h Lubricant amount : 18 g 11 g

Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 66.1A SF 1.15 SFA 76.0A

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

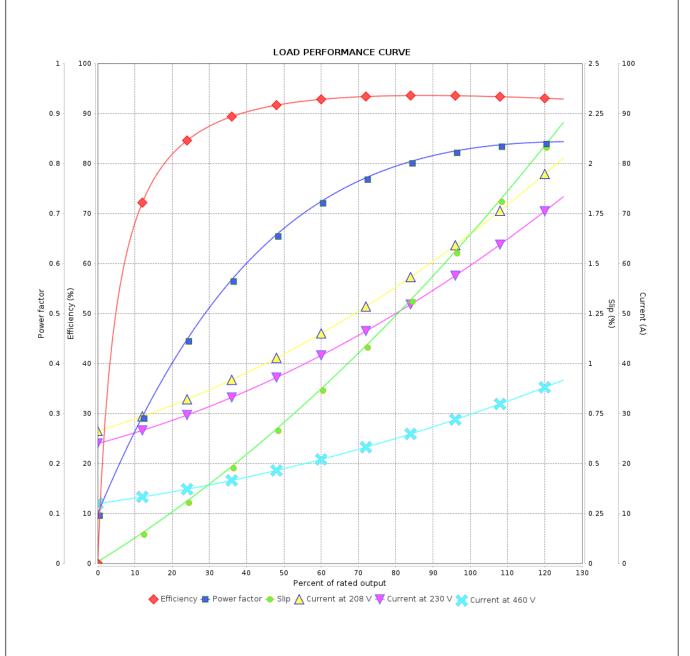


Customer :

Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 11997216



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	current : 59.8/29.9 A Moment of inertia (J) : 6.7 Duty cycle torque : 10.3 kgfm Insulation class d rotor torque : 250 % Service factor down torque : 280 % Temperature rise		e ı class actor	: Cont.(S1) ass : F or : 1.15	
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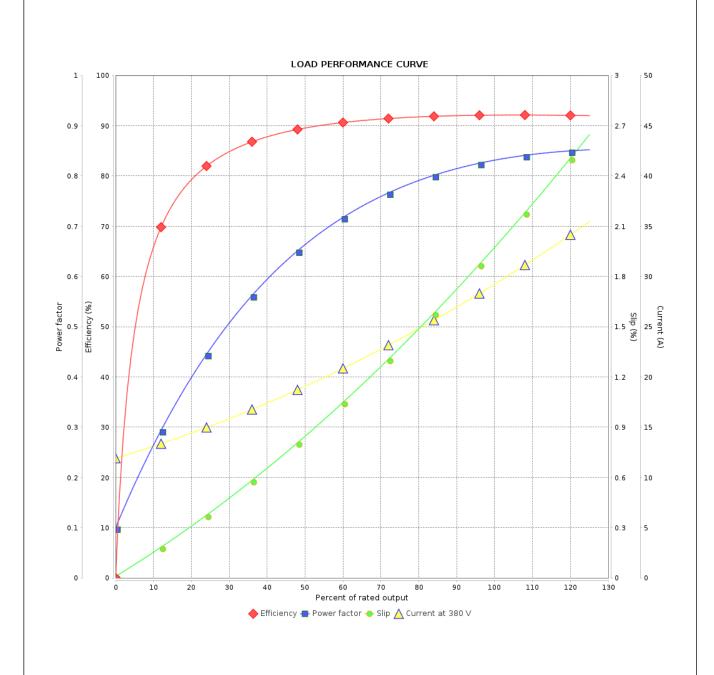
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Three-Phase



Rev.	Changes Summa	Changes Summary		Checked	Date	
Rated speed	: 1470 rpm	Design		: B		
Breakdown torque	: 300 %	Temperatu	Insulation class Service factor Temperature rise		: 1.15 : 80 K	
Locked rotor torque	: 290 %	Service fa				
Rated torque	: 9.87 kgfm	Insulation				
LRC	: 6.6	Duty cycle		: Cont.(S1)		
Rated current	: 29.8 A	Moment o	Moment of inertia (J)		: 0.1435 kgm²	
Performance	: 380 V 50 Hz 4P IE3	3				

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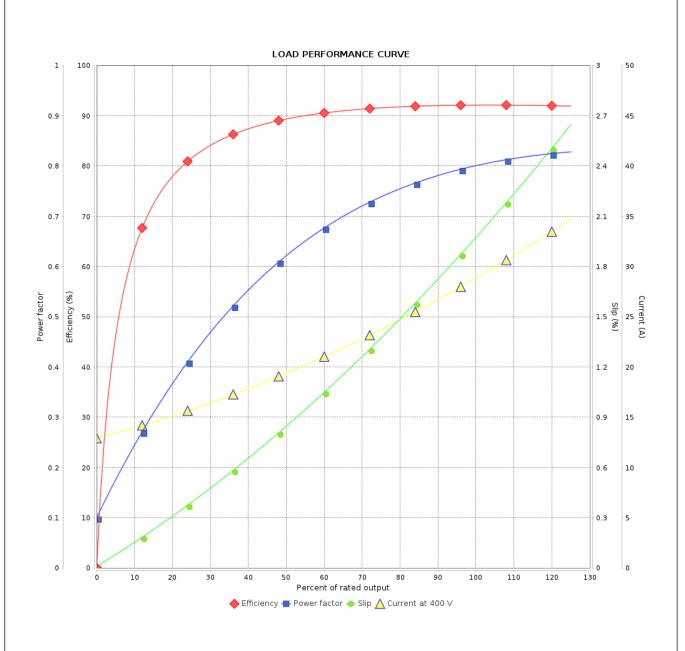


Customer :

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Three-Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.4 A Moment of inertia (J) : 6.6 Duty cycle : 9.87 kgfm Insulation class : 300 % Service factor : 330 % Temperature rise : 1470 rpm Design		: 0.1435 kgm ² : Cont.(S1) : F : 1.15 : 80 K : B	2	
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Customer :

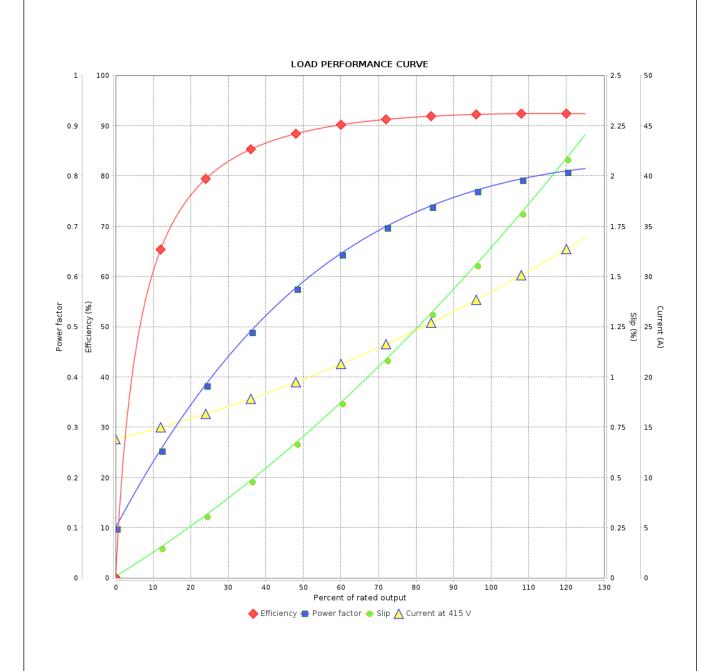
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Product line : ODP NEMA Premium Efficiency Product code : 11997216

Three-Phase



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.6 A : 6.5 : 9.84 kgfm : 330 % : 360 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1435 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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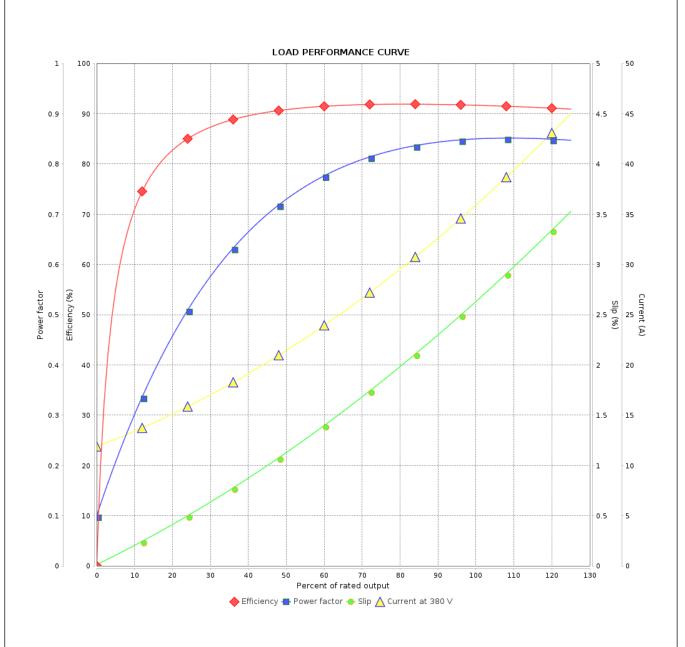


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Performance	ormance : 380 V 50 Hz 4P IE2					
Rated current	: 36.1 A	Moment of inertia (J) Duty cycle Insulation class		: 0.1435 kgm²		
LRC	: 5.4			: Cont.(S1) : F		
Rated torque	: 12.4 kgfm					
Locked rotor torque	·			: 1.15		
Breakdown torque	: 240 %	Temperature rise		: 80 K		
Rated speed	: 1460 rpm	Design		: B		
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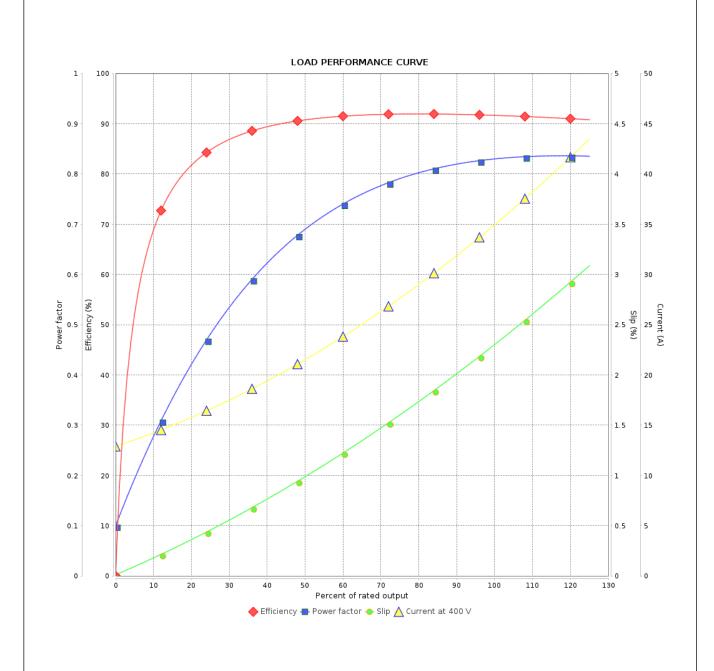


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Three-Phase



Performance		: 400 V 50 Hz 4P	IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 35.1 A : 5.5 : 12.4 kgfm : 240 % : 260 % : 1465 rpm	Duty cy Insulati Service	on class factor rature rise	: 0.1435 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
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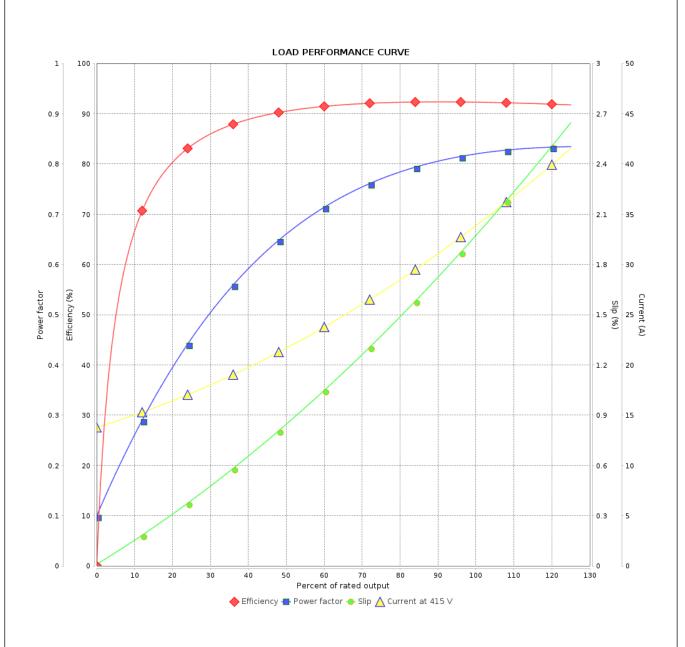


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Performance						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	RC : 5.5 Duty cycle ated torque : 12.3 kgfm Insulation class ocked rotor torque : 260 % Service factor reakdown torque : 290 % Temperature rise		Outy cycle: Connsulation class: FService factor: 1.15Emperature rise: 80 H		n²	
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