DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Product code : 10827017

Three-Phase

Frame : 404/5T Cooling method : IC01 - ODP

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 450 kg

Protection degree : IP23 Moment of inertia (J) : 0.9623 kgm²

Protection degree	•	: IP23		Momer	nt of inertia (J)	: 0	.9623 kgm²	
Design		: B						
Output [HP]		100	75	75	75	100	100	100
Poles		4 60	4	4	4	4	4	4
Frequency [Hz]	Frequency [Hz]		50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		226/113	99.3	96.5	95.2	136	131	127
L. R. Amperes [A]		1514/757	804	859	904	830	878	927
LRC [A]		6.7x(Code G)	8.1x(Code H)	8.9x(Code J)	9.5x(Code K)	6.1x(Code F)	6.7x(Code G)	7.3x(Code H)
No load current [A]		84.0/42.0	38.6	42.2	45.8	38.6	42.2	45.8
Rated speed [RPM]		1780	1480	1480	1485	1475	1475	1480
Slip [%]		1.11	1.33	1.33	1.00	1.67	1.67	1.33
Rated torque [kgfm]		40.8	36.8	36.8	36.7	49.2	49.2	49.0
Locked rotor torque	Locked rotor torque [%]		270	280	290	200	210	220
Breakdown torque	Breakdown torque [%]		320	360	400	240	270	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		18s (cold)	19s (cold)	18s (cold)	16s (cold)	19s (cold)	18s (cold)	16s (cold)
		10s (hot)	11s (hot)	10s (hot)	9s (hot)	11s (hot)	10s (hot)	9s (hot)
Noise level ²		69.0 dB(A)						
	25%							
Efficiency (%)	50%	95.0	92.2	91.9	91.7	93.9	93.9	93.9
Lincicity (70)	75%	95.4	93.9	93.9	93.9	94.0	94.0	94.0
	100%	95.4	94.6	94.6	94.6	94.1	94.1	94.1
	25%							
Power Factor	50%	0.77	0.75	0.71	0.66	0.84	0.80	0.76
I OWE I ACIOI	75%	0.84	0.85	0.83	0.79	0.88	0.87	0.85
	100%	0.87	0.89	0.87	0.85	0.89	0.88	0.87

Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h

Lubricant amount : 34 g 27 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 254A SF 1.15 SFA 292A

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.

: 1222 kgf

: 1673 kgf

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Three Phase Induction Motor - Squirrel Cage



Customer :

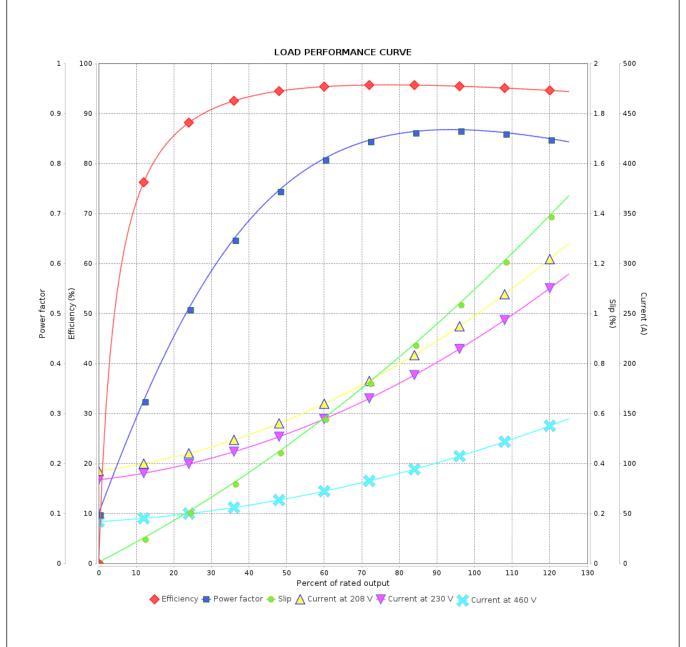
Date

19/10/2024

Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 10827017



Performance : 230/460 V 60 Hz 4P Rated current : 226/113 A Moment of inertia (J) : 0.9623 kgm² **LRC** Duty cycle : Cont.(S1) : 6.7 Insulation class : 40.8 kgfm : F Rated torque Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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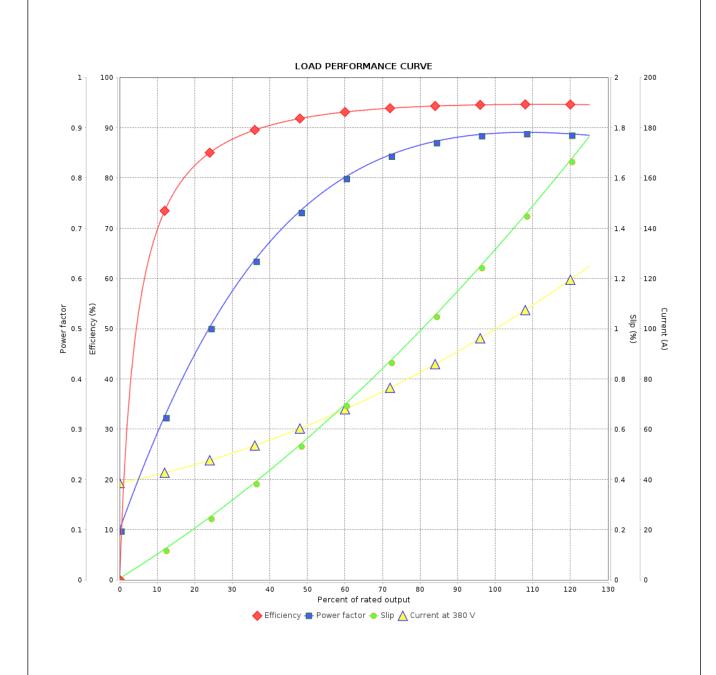
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Product code : 10827017

Three-Phase



Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 99.3 A	: 99.3 A Moment of inertia (J)			
LRC	: 8.1	Duty cycle		: Cont.(S1)	
Rated torque : 36.8 kgfm		Insulation class		: F	
Locked rotor torque	: 270 %	Service factor		: 1.15	
Breakdown torque	: 320 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

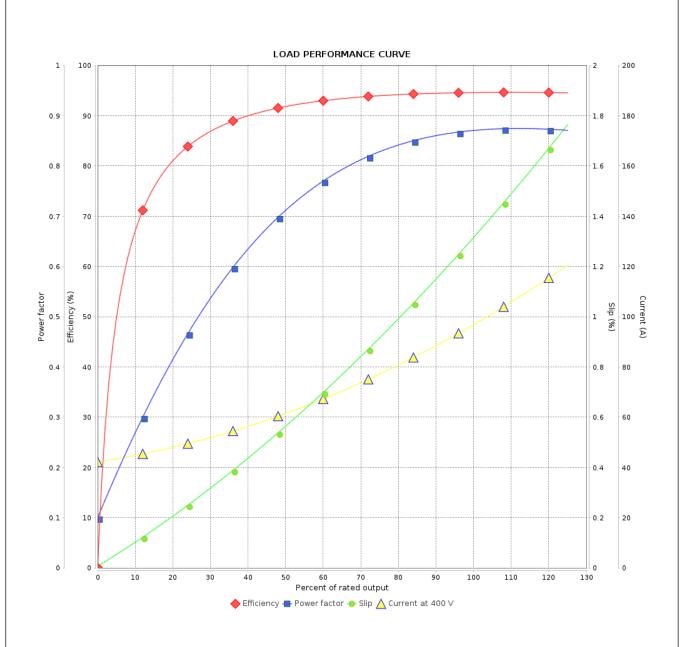


Customer :

Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 10827017



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 96.5 A : 8.9 : 36.8 kgfm : 280 % : 360 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9623 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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Date

Three Phase Induction Motor - Squirrel Cage



Customer :

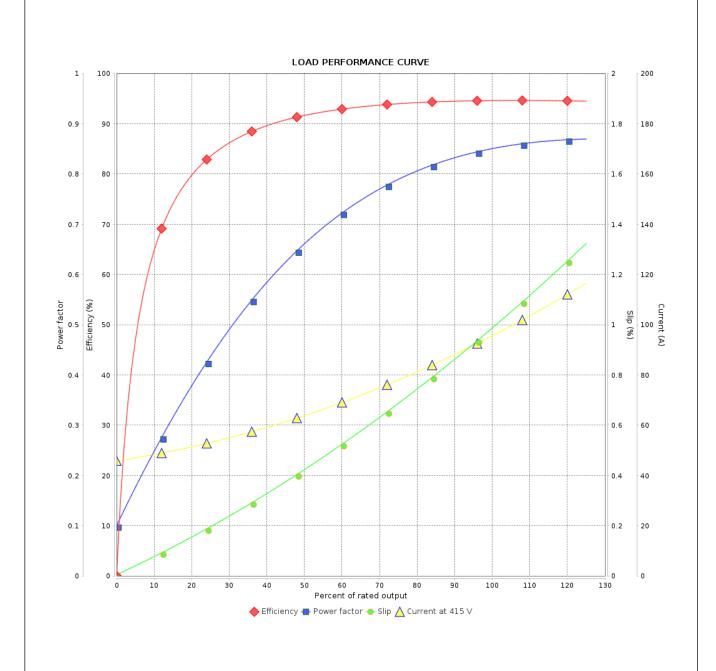
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Date

19/10/2024

Product line : ODP NEMA Premium Efficiency Product code : 10827017

Three-Phase



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 95.2 A : 9.5 : 36.7 kgfm : 290 % : 400 % : 1485 rpm	Moment of inertia (J) : 0.9623 kgm Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B		2	
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Revision

Three Phase Induction Motor - Squirrel Cage

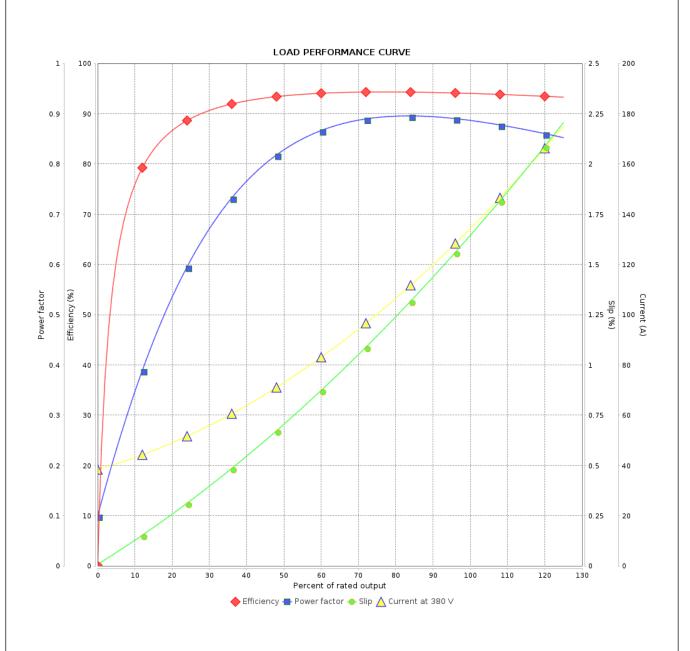


Customer :

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Three-Phase

Product code: 10827017



Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 136 A : 6.1 : 49.2 kgfm : 200 % : 240 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9623 kgm ² : Cont.(S1) : F : 1.15 : 80 K : B	
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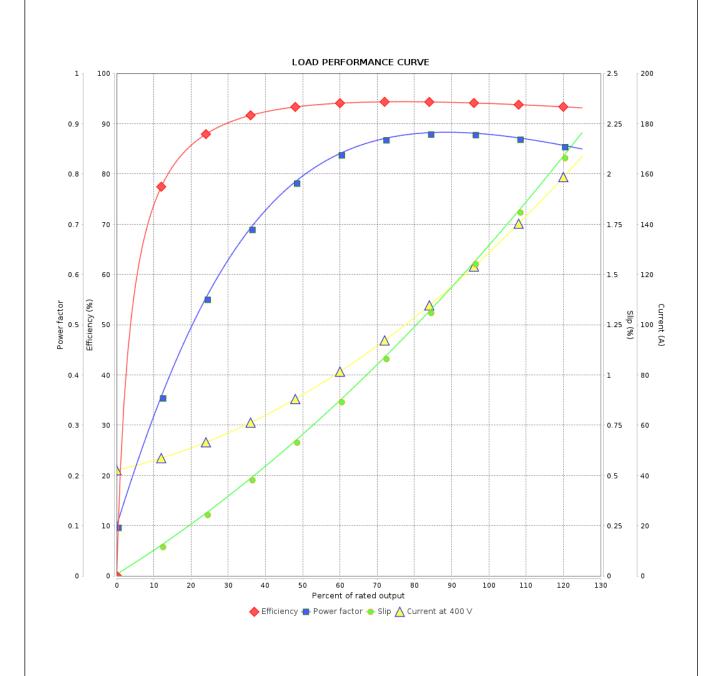
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase



Rev.	Changes Summ	ary Performed	Checked	Date		
Rated speed	: 1475 rpm	Design	: B			
Breakdown torque	: 270 %	Temperature rise	: 80 K			
Locked rotor torqu	e : 210 %	Service factor	: 1.15	: 1.15		
Rated torque	: 49.2 kgfm	Insulation class	: F			
LRC	: 6.7	Duty cycle	: Cont.(S1)			
Rated current	: 131 A	Moment of inertia (J)	: 0.9623 kgm²			
Performance	: 400 V 50 Hz 4P IE	: 400 V 50 Hz 4P IE2				

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Three Phase Induction Motor - Squirrel Cage



Customer

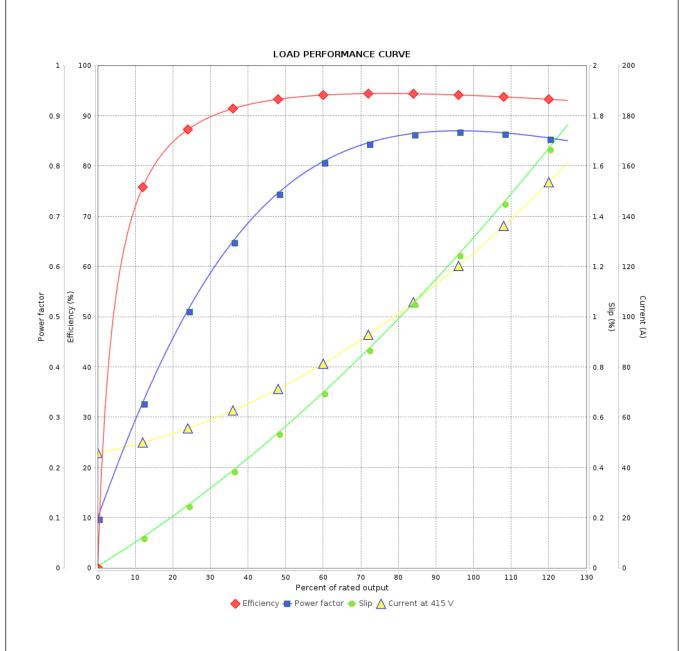
Date

19/10/2024

Product line : ODP NEMA Premium Efficiency

Three-Phase

Product code: 10827017



: 415 V 50 Hz 4P IE2 Performance : 127 A : 0.9623 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.3 : 49.0 kgfm Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Changes Summary Rev. Performed Checked Date Performed by Checked by Revision Page 8/8