DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : ODP High Efficiency Three-Phase Product code: 13659279

Frame : 254TC Cooling method : IC01 - ODP Insulation class Mounting : F-1 : F

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 : 94.3 kg

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Protection degre	е	: IP23	Moment of ine	ertia (J) : 0.03	38 kgm²
Design		: B			
Output [HP]		20	20	20	20
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		48.6/24.3	30.3	29.4	28.7
L. R. Amperes [A]		282/141	127	135	144
LRC [A]		5.8x(Code G)	4.2x(Code D)	4.6x(Code E)	5.0x(Code F)
No load current [A	.]	16.4/8.20	8.63	10.4	12.1
Rated speed [RPI	Л]	3525	2890	2905	2920
Slip [%]			3.67	3.17	2.67
Rated torque [kgfr	Rated torque [kgfm]		5.02	5.00	4.97
Locked rotor torque [%]		160	130	140	160
Breakdown torque [%]		250	200	210	229
Service factor		1.15	1.00	1.15	1.15
Temperature rise		105 K	105 K	105 K	105 K
Locked rotor time		18s (cold) 10s (hot)	18s (cold) 10s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)
Noise level ²		66.0 dB(A)			
	25%				
Efficiency (%)	50%	89.5	86.5	86.5	87.5
Efficiency (70)	75%	90.2	87.5	87.5	87.5
	100%	90.2	86.5	86.5	87.5
	25%				
Power Factor	50%	0.74	0.77	0.71	0.66
FUWEI FACIOI	75%	0.83	0.85	0.81	0.78
	100%	0.86	0.87	0.85	0.83

Drive end Foundation loads Non drive end

Bearing type 6309 Z C3 6209 Z C3 Max. traction : 132 kgf Sealing Without Without Max. compression : 227 kgf

Bearing Seal Bearing Seal Lubrication interval 20000 h 20000 h

Lubricant amount 13 g 9 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 53.7A SF 1.15 SFA 61.8A

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



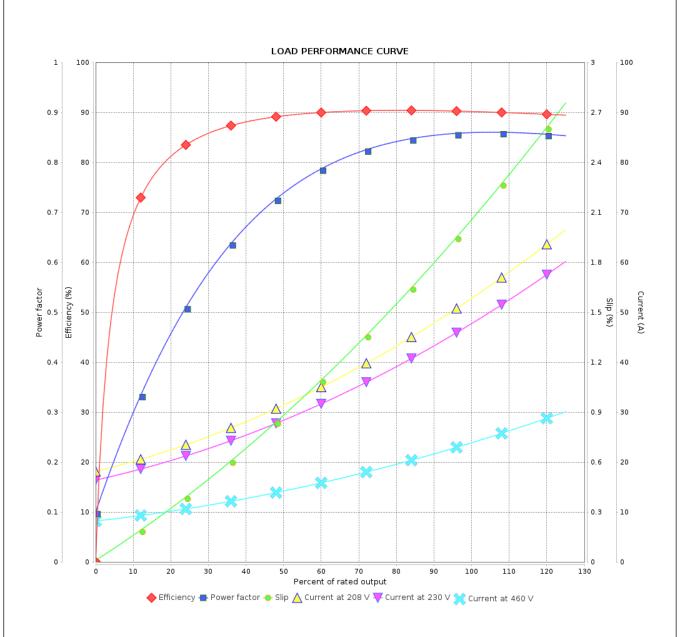
Customer :

Checked by

Date

24/08/2025

Product line : ODP High Efficiency Three-Phase Product code : 13659279



Performance	:	230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : ue : !e :	48.6/24.3 A 5.8 4.12 kgfm 160 % 250 % 3525 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0338 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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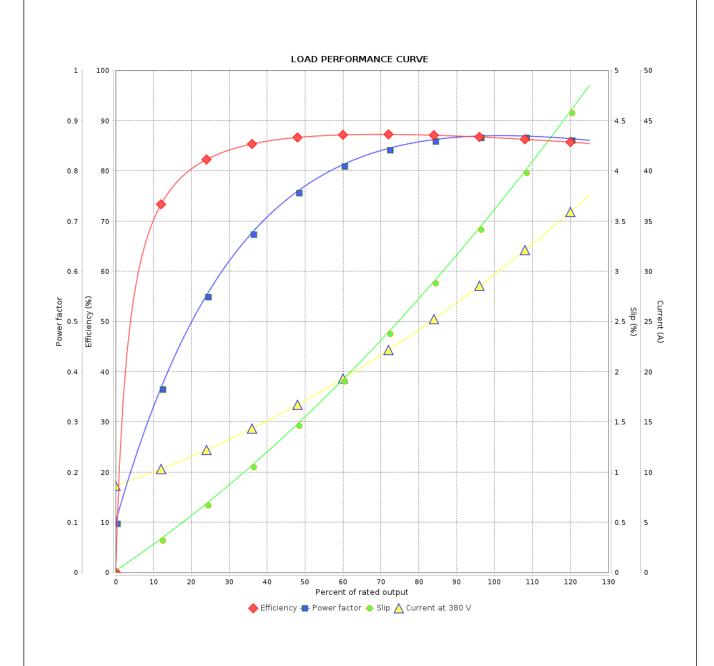
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 13659279



Performance	: 380 V 50 Hz 2P				
Rated current	: 30.3 A	3 A Moment of i		: 0.0338 kgm	2
LRC	: 4.2	Duty cycle		: Cont.(S1)	
Rated torque	: 5.02 kgfm	Insulation	class	: F ` ´	
Locked rotor torque	: 130 %	Service fa	actor	: 1.00	
Breakdown torque	: 200 %	Temperature rise		: 105 K	
Rated speed	: 2890 rpm	Design		: B	
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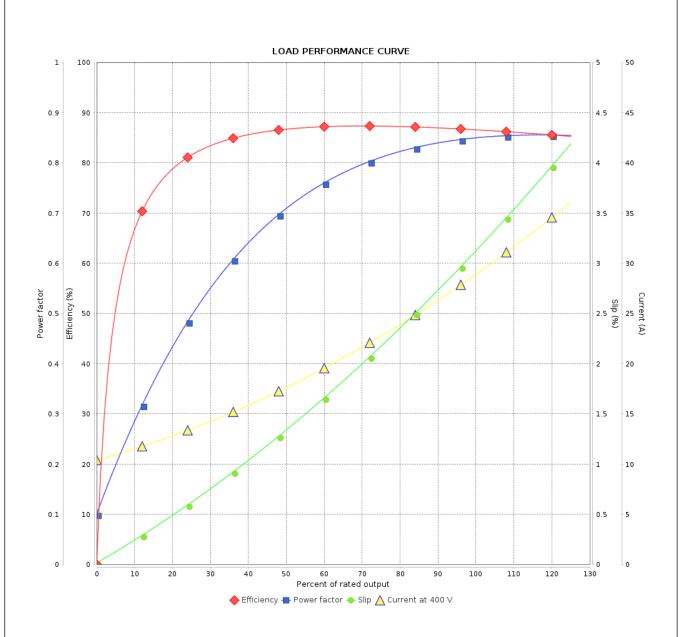
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Three Phase Induction Motor - Squirrel Cage



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Customer	
Customer	

Product line : ODP High Efficiency Three-Phase Product code : 13659279



Performance		: 400 V 50 Hz 2	2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ue	: 29.4 A : 4.6 : 5.00 kgfm : 140 % : 210 % : 2905 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0338 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	2
Rev.		Changes S	ummary		Performed	Checked	Date

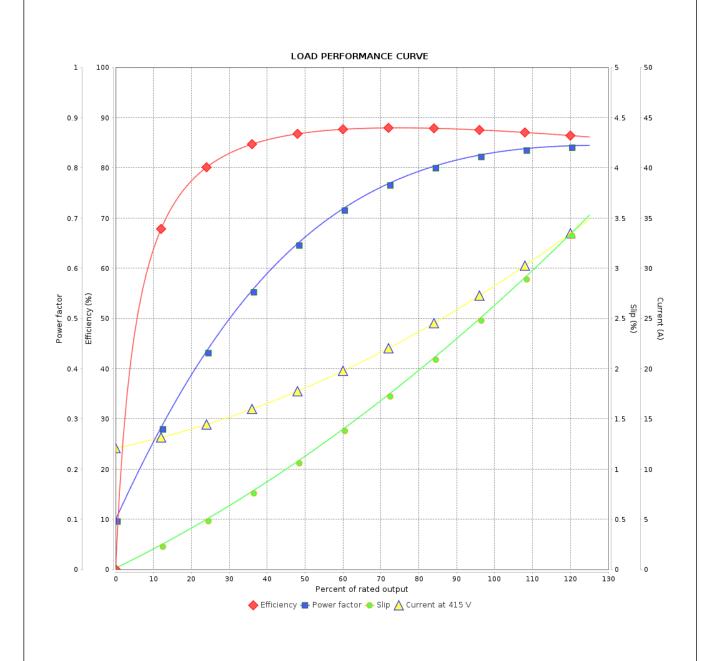
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 13659279



Performance	: 415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.7 A : 5.0 : 4.97 kgfm : 160 % : 229 % : 2920 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0338 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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24/08/2025

Date

