### **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) Rotation<sup>1</sup> : 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

Protection degree : IP23 Moment of inertia (J) : 0.0338 kgm<sup>2</sup> : B Design

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)		5.0x(Code F)
No load current [A	]	16.4/8.20	8.63	10.4	12.1
Rated speed [RPN	<b>/</b> 1]	3525	2890	2905	2920
Slip [%]		2.08	3.67	3.17	2.67
Rated torque [kgfr	n]	4.12	5.02	5.00	4.97
Locked rotor torqu	Locked rotor torque [%]		130	140	160
Breakdown torque	[%]	250	200	210	229
Service factor	Service factor		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 <sup>2</sup>		66.0 dB(A)			
	25%				
Efficiency (%)	50%	89.5	86.5	86.5	87.5
Linciency (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
1 OWEI 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

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

Bearing Seal Bearing Seal Lubrication interval 20000 h 20000 h

9 g Lubricant amount 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.

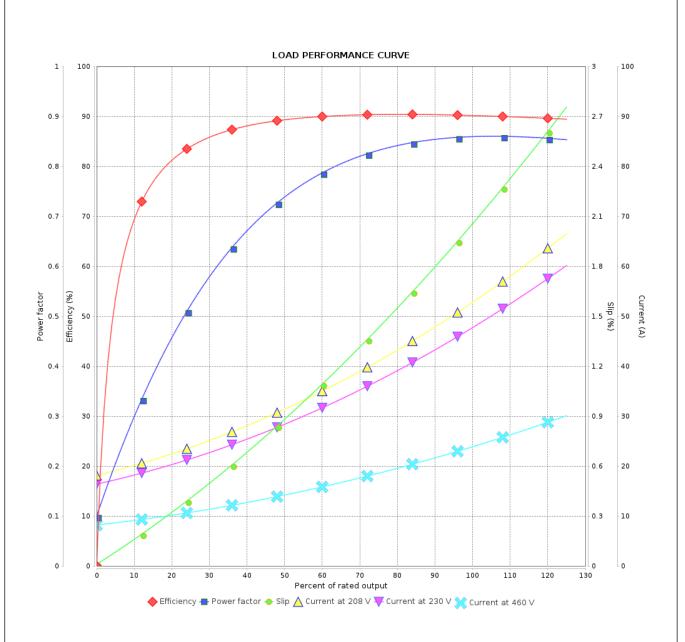
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/11/2024			1/5	

### Three Phase Induction Motor - Squirrel Cage



Customer :

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



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 48.6/24.3 A : 5.8 : 4.12 kgfm : 160 % : 250 % : 3525 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	
Rev. Changes Summary			Performed	Checked	Date
Performed by					
Checked by				Page	Revision

2/5

22/11/2024

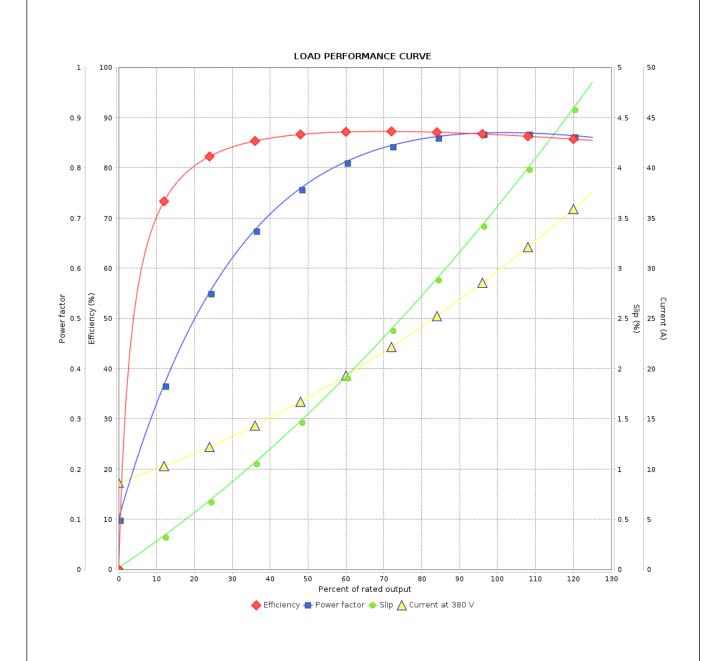
Date

### Three Phase Induction Motor - Squirrel Cage



Customer :

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



Performance	: 38	80 V 50 Hz 2P					
		0.3 A			: 0.0338 kgm²		
LRC : 4. Rated torque : 5.		.∠ .02 kgfm		Duty cycle Insulation class		: Cont.(S1) : F	
		30 %	Service fa	ictor	: 1.00		
Breakdown torqu		00 %	Temperature rise		: 105 K		
Rated speed	: 28	2890 rpm Design			: B		
Rev.		Changes Summary	/	Performed	Checked	Date	
Performed by							
Checked by		-			Page	Revision	
Date	22/11/2024	1			3/5		

### Three Phase Induction Motor - Squirrel Cage



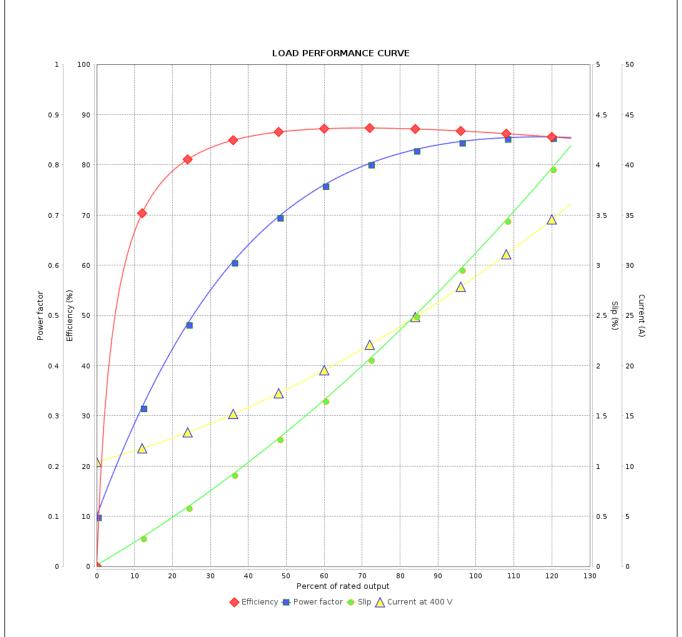
_	
Customer	
Customer	

Checked by

Date

22/11/2024

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



	- in-						
Performance		: 400 V 50 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue :	29.4 A 4.6 5.00 kgfm 140 % 210 % 2905 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		
Rev.		Changes Summary		Performed	Checked	Date	
		·					
Performed by					·		

Page

4/5

Revision

### Three Phase Induction Motor - Squirrel Cage



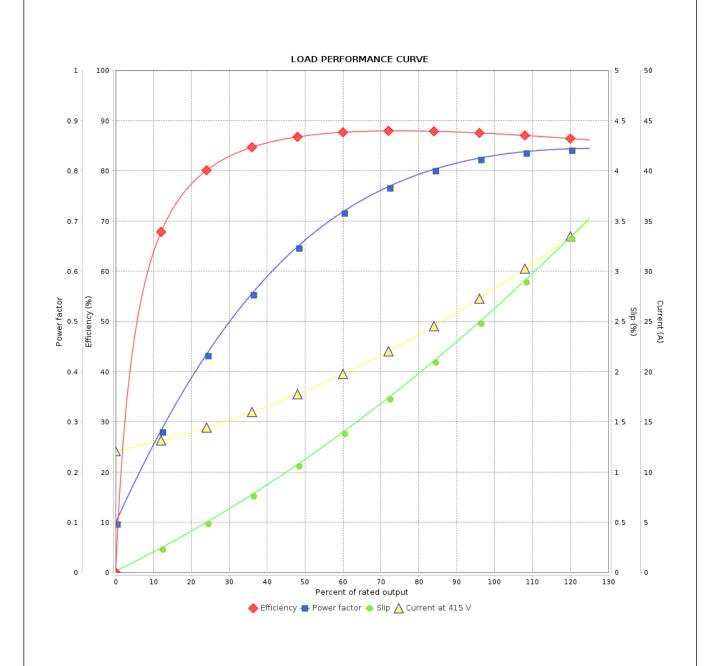
Customer :

Checked by

Date

22/11/2024

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



Performance		: 415 V 50 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu 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	
Rev.	Rev. Changes Summary		nmary		Performed	Checked	Date
Performed by							

Page

5/5

Revision