## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Duty cycle

Altitude

Ambient temperature

Product line : W21 Explosion Proof NEMA Premium

Product code:

12310134

Efficiency Three-Phase

: Cont.(S1)

: -20°C to +40°C

: 1000 m.a.s.l.

: 364/5TS Frame Insulation class : F

Cooling method : IC411 - TEFC Mounting : F-1

Rotation<sup>1</sup> : Both (CW and CCW) Starting method : Direct On Line

Approx. weight<sup>3</sup> : 477 kg Moment of inertia (J) : 0.4198 kgm<sup>2</sup>

Protection degree : IP55

Design : B

Design		. Б			
Output [HP]		60	50	50	50
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]	. ,		380	400	415
Rated current [A]		137/68.6	68.7	65.3	63.6
L. R. Amperes [A]		878/439	419	438	458
LRC [A]		6.4x(Code G)	6.1x(Code F)	6.7x(Code G)	7.2x(Code H)
No load current [A]		30.0/15.0	15.0	16.0	17.0
Rated speed [RPI	Л]	3550	2950	2960	2960
Slip [%]		1.39	1.67	1.33	1.33
Rated torque [kgfr		12.3	12.3	12.3	12.3
Locked rotor torqu	ie [%]	200	190	210	229
Breakdown torque	Breakdown torque [%]		240	260	290
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		108s (cold) 60s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)
Noise level <sup>2</sup>		85.0 dB(A)	82.0 dB(A)	82.0 dB(A)	82.0 dB(A)
	25%				
Efficiency (%)	50%	92.4	92.0	92.0	92.0
Efficiency (70)	75%	93.0	92.8	92.8	92.8
	100%	93.6	93.0	93.0	93.0
	25%				
Power Factor	50%	0.79	0.79	0.77	0.76
I OWEI FACIOI	75%	0.86	0.86	0.85	0.85
	100%	0.88	0.88	0.88	0.87

Non drive end Drive end

Bearing type 6314 C3 6314 C3 Sealing Oil Seal Lubrication interval

Lip Seal 3604 h 3604 h 27 g 27 g

Mobil Polyrex EM

Foundation loads

Max. traction : 161 kgf Max. compression : 638 kgf

Notes

Lubricant amount

Lubricant type

USABLE @208V 151A SF 1.00 SFA 151A

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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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



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Customer	
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#### Thermal protection

		<u> </u>		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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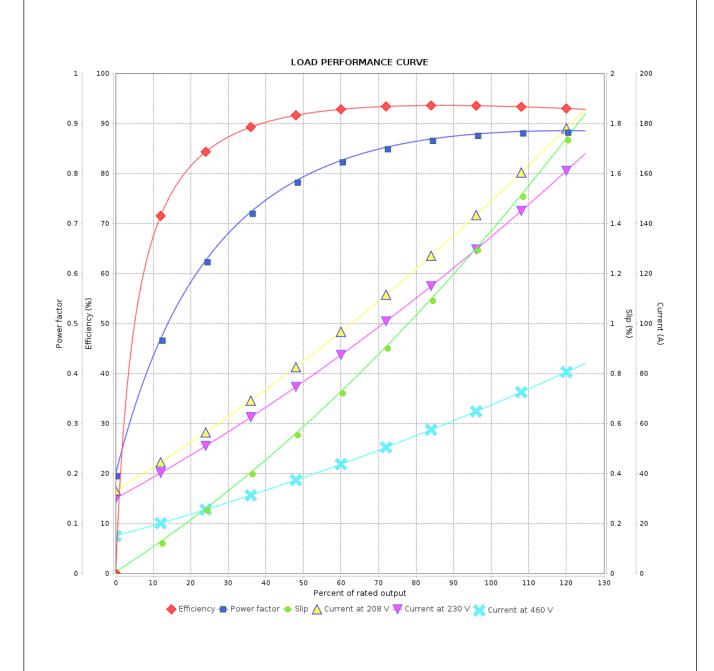
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase



Performance	:	230/460 V 60 Hz 2P				
Rated current		137/68.6 A	Moment o	Moment of inertia (J)		
LRC	:	6.4	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	:	12.3 kgfm	Insulation	class	: F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.15	
Breakdown torque	:	250 %	% Temperature rise		: 80 K	
Rated speed	:	3550 rpm	Design		: B	
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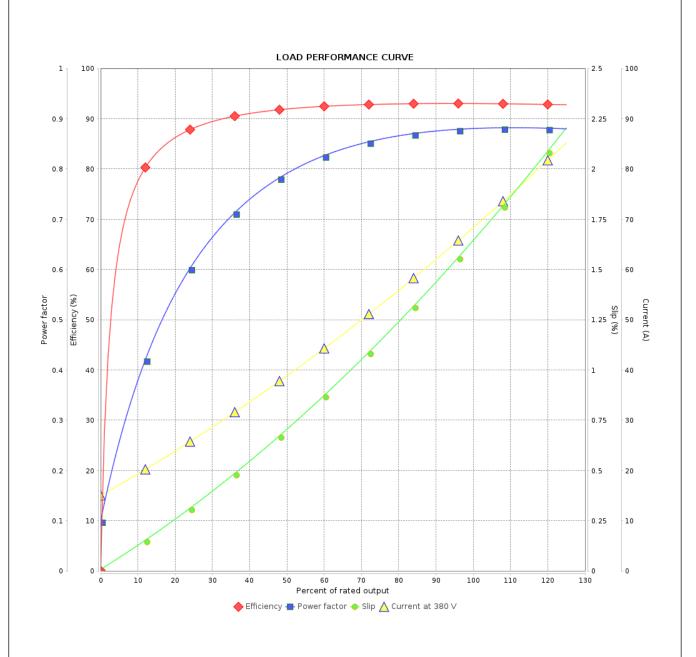
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase



Performance	: 3	380 V 50 Hz 2P IE2				
Rated current	Rated current : 68.7 A Moment of		of inertia (J)	: 0.4198 kgm²		
LRC	: 6	6.1	Duty cycle	е	: Cont.(S1)	
Rated torque	: '	12.3 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : '	190 %	Service fa	actor	: 1.00	
Breakdown torque	e : 2	240 %	Temperat	Temperature rise		
•		2950 rpm	Design		: B	
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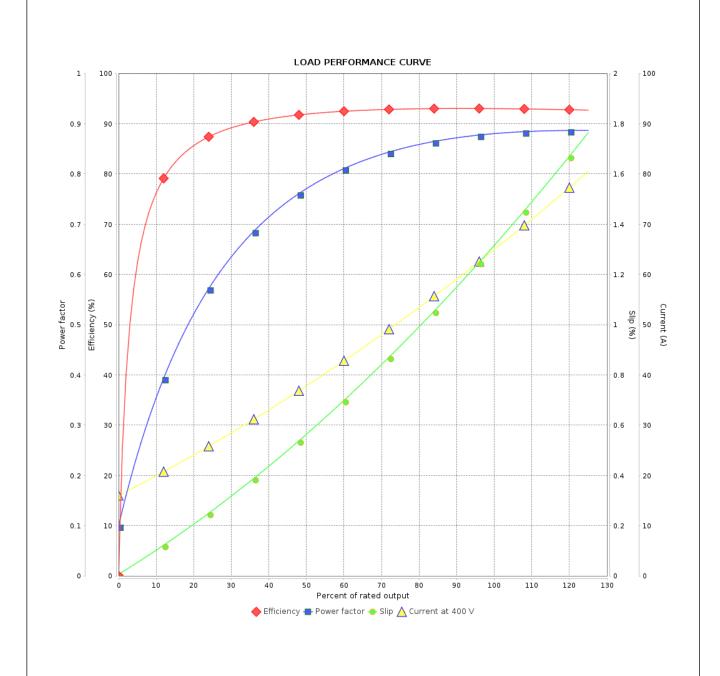
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase



Performance		: 400 V 50 Hz 2P IE2				
Rated current	Rated current : 65.3 A		Moment of	Moment of inertia (J)		2
LRC		: 6.7	Duty cycle	` '		
Rated torque		: 12.3 kgfm	Insulation	class		
Locked rotor torqu	ie :	: 210 %	Service fa	ctor	: 1.00	
Breakdown torque	e :	: 260 %	Temperati	Temperature rise		
Rated speed	•			: B		
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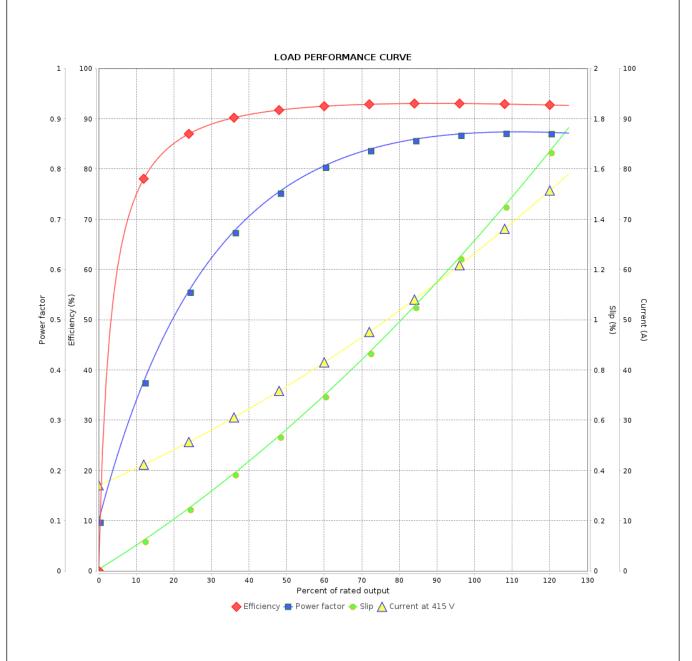
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase



Performance	: 4	15 V 50 Hz 2P IE2				
LRC : 7.2 Duty cyc		Moment of Duty cycle Insulation		: 0.4198 kgm² : Cont.(S1) : F	2	
Locked rotor torque Breakdown torque Rated speed	ie : 2 e : 2	29 % 90 % 960 rpm		Service factor Temperature rise Design		
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