## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Premium

Product code: 11341752

: IC411 - TEFC

: Direct On Line

: Both (CW and CCW)

: F-1

: 460 kg

: 1.22 kgm<sup>2</sup>

Efficiency Three-Phase

Frame : 364/5T Insulation class : F

Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l.

Starting method Approx. weight<sup>3</sup> Moment of inertia (J)

Cooling method

Mounting

Rotation<sup>1</sup>

Design

Protection degree : IP55 : B

Output [HP]		40	40	40	40
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		94.2/47.1	56.7	54.5	52.8
L. R. Amperes [A]		659/330	306	332	348
LRC [A]		7.0x(Code H)	5.4x(Code F)	6.1x(Code G)	6.6x(Code G)
No load current [A	]	35.0/17.5	17.3	18.5	19.4
Rated speed [RPN	<i>/</i> I]	1185	970	970	975
Slip [%]			3.00	3.00	2.50
Rated torque [kgfm]		24.5	29.9	29.9 29.9	
Locked rotor torqu	Locked rotor torque [%]		180	200	220
Breakdown torque [%]		229	180	200	220
Service factor	Service factor		1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		43s (cold) 24s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level <sup>2</sup>		65.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
	25%	93.5	94.0	94.0	93.3
Efficiency (%)	50%	93.6	93.6	93.6	93.0
Efficiency (70)	75%	94.1	93.0	93.0	93.6
	100%	94.1			93.0
	25%	0.46	0.52	0.49	0.46
Power Factor	50%	0.72	0.78	0.75	0.72
I OWEL FACIOI	75%	0.80	0.83	0.82	0.80
	100%	0.85	0.87	0.86	0.85

Drive end

Non drive end 6314 C3

Bearing type 6314 C3 Sealing Oil Seal

Lip Seal 14267 h 14267 h 27 g 27 g

Mobil Polyrex EM

Foundation loads

Max. traction : 507 kgf Max. compression : 966 kgf

Notes

Lubrication interval

Lubricant amount

Lubricant type

USABLE @208V 104A SF 1.00 SFA 104A

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

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Customer	

#### Thermal protection

		•		
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

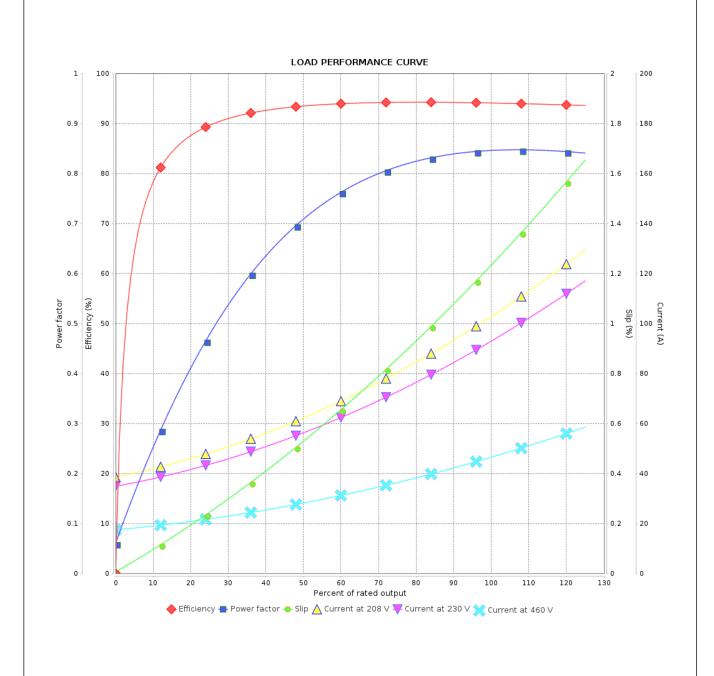


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 11341752



Performance	::	230/460 V 60 Hz 6P				
Rated current	ated current : 94.2/47.1 A Moment of inert		f inertia (J)	: 1.22 kgm²		
LRC	: '	7.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	::	24.5 kgfm	Insulation	class	: F	
Locked rotor torqu	ue ::	229 %	Service fa	ctor	: 1.15	
Breakdown torque	e ::	229 %	Temperature rise		: 80 K	
Rated speed	:	1185 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage

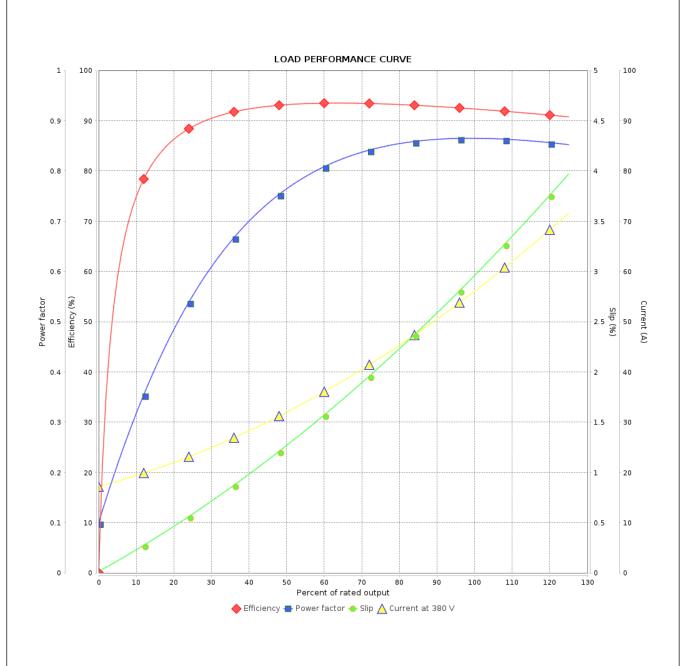


Customer :

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Efficiency Three-Phase

Product code: 11341752



Performance	: 38	30 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 29 que : 18 ue : 18	5.7 A 4 9.9 kgfm 30 % 30 % 70 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Date

### Three Phase Induction Motor - Squirrel Cage

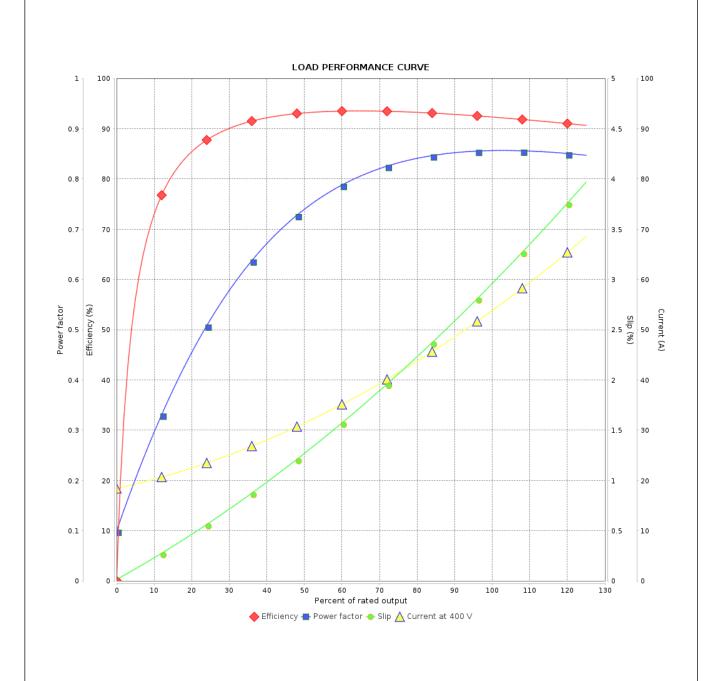


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 11341752



Performance	: 4	100 V 50 Hz 6P IE2				
Rated current	: 5	54.5 A	Moment o	f inertia (J)	: 1.22 kgm²	
LRC	: 6	3.1	Duty cycle	!	: Cont.(S1)	
Rated torque	: 2	29.9 kgfm	Insulation	class	: F	
Locked rotor torqu	e : 2	200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	200 %	Temperature rise		: 80 K	
Rated speed	: 9	970 rpm	Design		: B	
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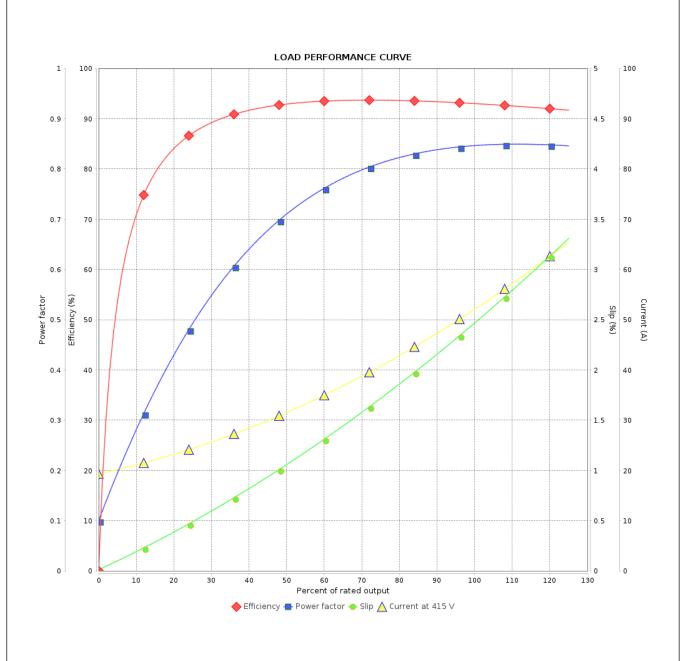


Customer :

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Efficiency Three-Phase

Product code: 11341752



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	Rated current : 52.8 A		Moment of	Moment of inertia (J)		
LRC	: 6	.6	Duty cycle	е	: Cont.(S1)	
Rated torque	: 2	9.8 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 2:	20 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 2:	20 %	Temperature rise		: 80 K	
Rated speed	: 9	75 rpm	Design		: B	
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