### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency There Disease

Product code: 15895649

Efficiency Three-Phase

Frame : 324T Insulation class : F

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

Protection degree : IP55

Mounting : F-1 Rotation¹ : Both (CW and CCW)

: IC411 - TEFC

Cooling method

Starting method : Direct On Line
Approx. weight³ : 262 kg
Moment of inertia (J) : 0.4555 kgm²

Design : B

Design		: B			
Output [HP]		25	25	25	25
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		61.6/30.8	36.8	35.1	34.2
L. R. Amperes [A]		382/191	180	190	198
LRC [A]		6.2x(Code G)	4.9x(Code E)	5.4x(Code F)	5.8x(Code G)
No load current [A	]	28.0/14.0	13.2	14.2	14.9
Rated speed [RPN	<i>/</i> 1]	1180	975	980	980
Slip [%]		1.67	2.50	2.00	2.00
Rated torque [kgfn	n]	15.4	18.6	18.5	18.5
Locked rotor torqu	e [%]	210	160	180	200
Breakdown torque	[%]	260	200	229	250
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		45s (cold) 25s (hot)	54s (cold) 30s (hot)		
Noise level <sup>2</sup>		62.0 dB(A)	58.0 dB(A) 58.0 dB(A)		58.0 dB(A)
	25%				
Efficiency (%)	50%	92.4	91.7	91.7	91.7
Linciency (70)	75%	93.0	92.4	92.4	92.4
	100%	93.0	91.0	91.7	91.7
	25%				
Power Factor	50%	0.65	0.71	0.68	0.65
1 Ower 1 actor	75%	0.77	0.81	0.79	0.77
	100%	0.81	0.84	0.83	34.2 198 5.8x(Code G) 14.9 980 2.00 18.5 200 250 1.00 80 K 54s (cold) 30s (hot) 58.0 dB(A) 91.7 92.4 91.7
1					

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6312 6212 2RS C3 2RS C3

Sealing : Oil Seal Lip Seal Lubrication interval : - - Lubricant amount : - Mobil Polyrex EM

Max. traction : 452 kgf

Max. compression : 714 kgf

Notes

USABLE @208V 67.2A SF 1.15 SFA 77.3A

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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Customer	
Customer	

#### Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C
2	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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#### Three Phase Induction Motor - Squirrel Cage

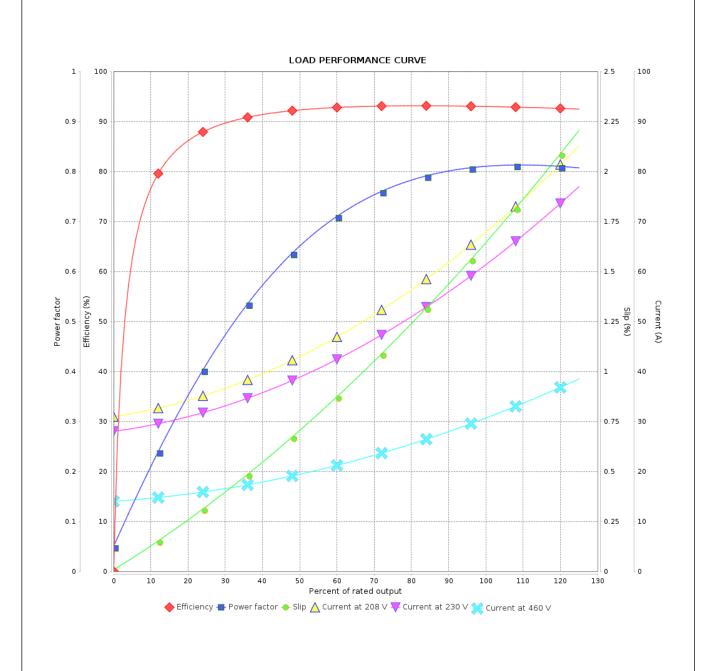


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 15895649



Performance	: 2	30/460 V 60 Hz 6P					
Rated current :		1.6/30.8 A	Moment o	Moment of inertia (J)		2	
LRC : 6.		.2	Duty cycle	Duty cycle			
Rated torque	: 1:	5.4 kgfm	Insulation class		: F		
Locked rotor torqu	ue : 2	10 %	Service fa	ictor	: 1.15		
Breakdown torque		60 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	180 rpm Design		: B			
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#### Three Phase Induction Motor - Squirrel Cage

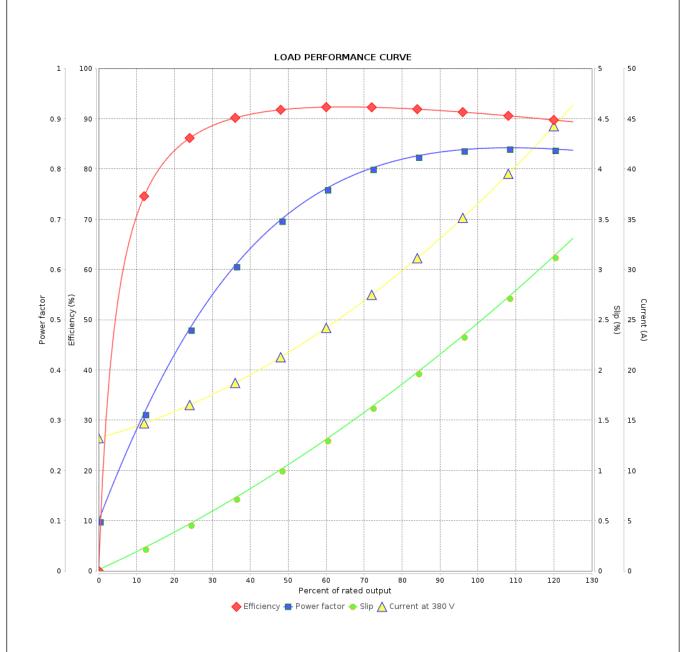


Customer :

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Efficiency Three-Phase

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Performance	: 380 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.8 A : 4.9 : 18.6 kgfm : 160 % : 200 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4555 kgm : Cont.(S1) : F : 1.00 : 80 K : B	,2
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Date

#### Three Phase Induction Motor - Squirrel Cage

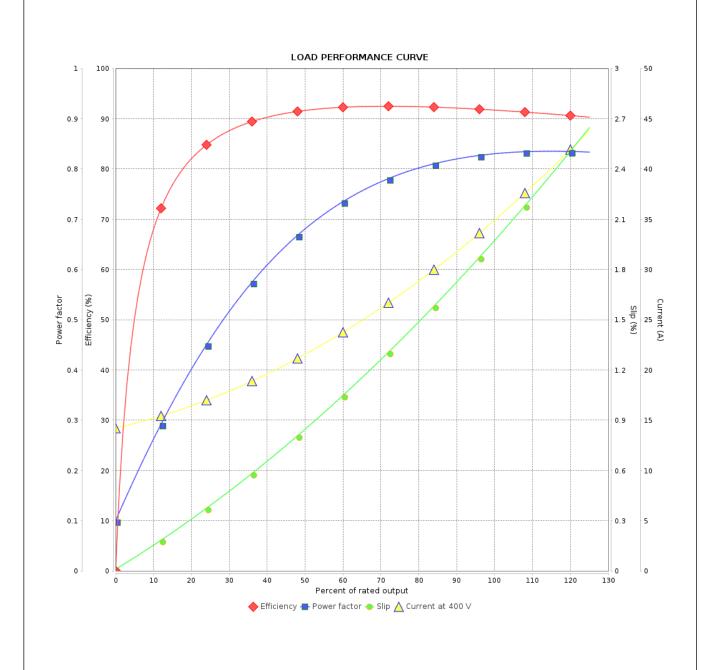


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 15895649



Performance	: 4	00 V 50 Hz 6P IE3				
Rated current : 35		5.1 A	Moment of	Moment of inertia (J)		!
LRC : 5.4		.4	Duty cycle		: Cont.(S1)	
Rated torque : 18.5 kgfm Insulation class		class	: F			
Locked rotor torqu	ue : 1	80 %	Service factor		: 1.00	
Breakdown torque :		29 %	Temperati	Temperature rise		
Rated speed	: 9	80 rpm	Design		: B	
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Customer :

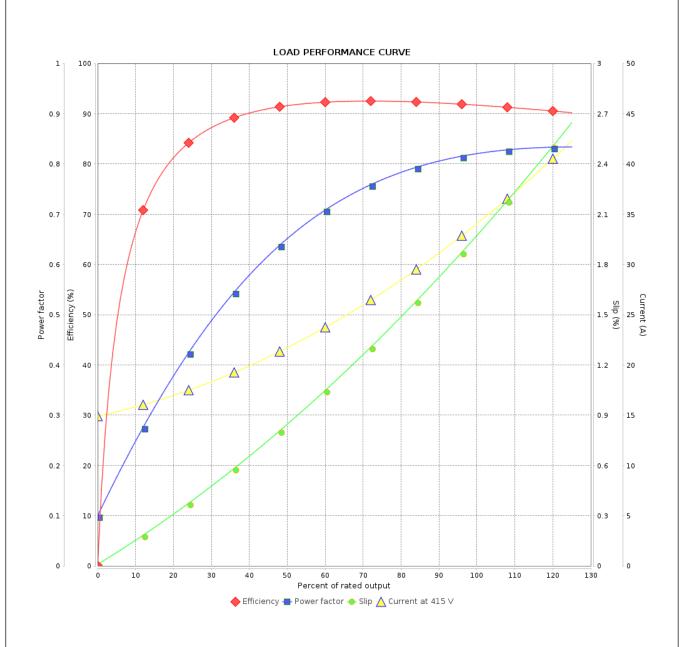
Date

22/10/2023

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 15895649



Performance : 415 V 50 Hz 6P IE3 : 0.4555 kgm<sup>2</sup> Rated current : 34.2 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class Rated torque : 18.5 kgfm : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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