### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14480957

: 143/5T Frame Insulation class : F

Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude

: 1000 m.a.s.l. Approx. weight3 · IP55

Cooling method : IC411 - TEFC Mounting : F-1

Rotation<sup>1</sup> : Both (CW and CCW)

Starting method : Direct On Line : 31.8 kg Moment of inertia (.I) · 0 0017 kgm<sup>2</sup>

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Protection degre	е	: IP55	Moment of ine	ertia (J) : 0.00	17 kgm²
Design		: B			
Output [HP]		1.5	1.5	1.5	1.5
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		4.10/2.05	2.36	2.32	2.29
L. R. Amperes [A]			18.9	19.5	19.9
LRC [A]		9.2x(Code M)	8.0x(Code K)	8.4x(Code L)	8.7x(Code L)
No load current [A	]	2.00/1.00	0.900	1.00	1.10
Rated speed [RPM]		3500	2860	2885	2895
Slip [%]			4.67	3.83	3.50
Rated torque [kgfm]		0.311	0.381	0.377	0.376
Locked rotor torque [%]		340	280	320	360
Breakdown torque [%]		440	300	330	360
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		36s (cold) 20s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)
Noise level <sup>2</sup>		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	76.9	79.0	79.6	82.4
Efficiency (%)	50%	78.5	79.5	80.0	81.5
Liliciency (70)	75%	82.5	82.5	82.5	84.0
	100%	84.0	82.5	82.5	82.5
	25%	0.38	0.46	0.42	0.38
Power Factor	50%	0.62	0.70	0.66	0.63
1 OWCI I actor	75%	0.73	0.81	0.77	0.74
	100%	0.80	0.86	0.83	0.81

Drive end

Oil Seal

Non drive end 6205 2RS

Mobil Polyrex EM

Foundation loads

6204 2RS Lip Seal

Max. traction : 22 kgf Max. compression : 54 kgf

Notes

Bearing type

Lubricant type

Lubrication interval Lubricant amount

Sealing

USABLE @208V 4.53A SF 1.15 SFA 5.21A

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

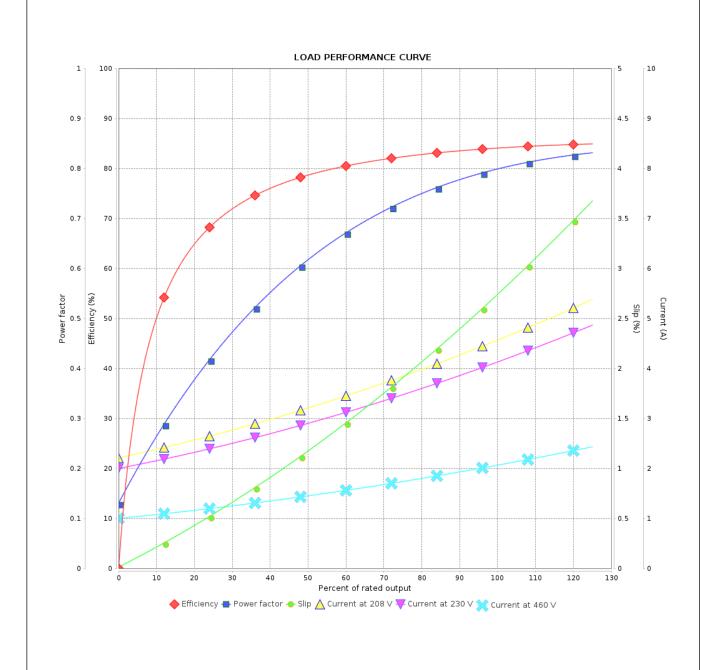


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14480957



Performance	: 2	230/460 V 60 Hz 2P				
Rated current	: 4	1.10/2.05 A	Moment o	Moment of inertia (J)		
LRC	: 9	9.2	Duty cycle	Duty cycle		
Rated torque	: (	).311 kgfm	Insulation	class	: F	
Locked rotor torque	e :3	340 %	Service fa	ctor	: 1.15	
Breakdown torque	: 4	140 %	Temperature rise		: 80 K	
Rated speed	: 3	: 3500 rpm Des			: B	
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### Three Phase Induction Motor - Squirrel Cage

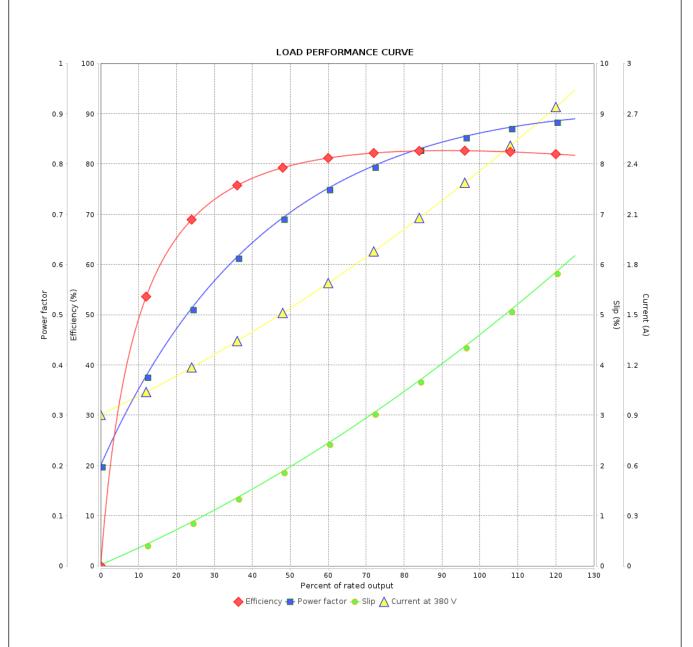


Customer :

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Efficiency Three-Phase

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Performance	: 380 V 50 Hz 2P IE2			
renormance	. 360 V 30 HZ ZP IEZ			
Rated current	: 2.36 A	Moment of inertia (J)	: 0.0017 kgm²	
LRC	: 8.0	Duty cycle	: Cont.(S1)	
Rated torque	: 0.381 kgfm	Insulation class	:F	
Locked rotor torque	: 280 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 2860 rpm	Design	: B	
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Date

### Three Phase Induction Motor - Squirrel Cage

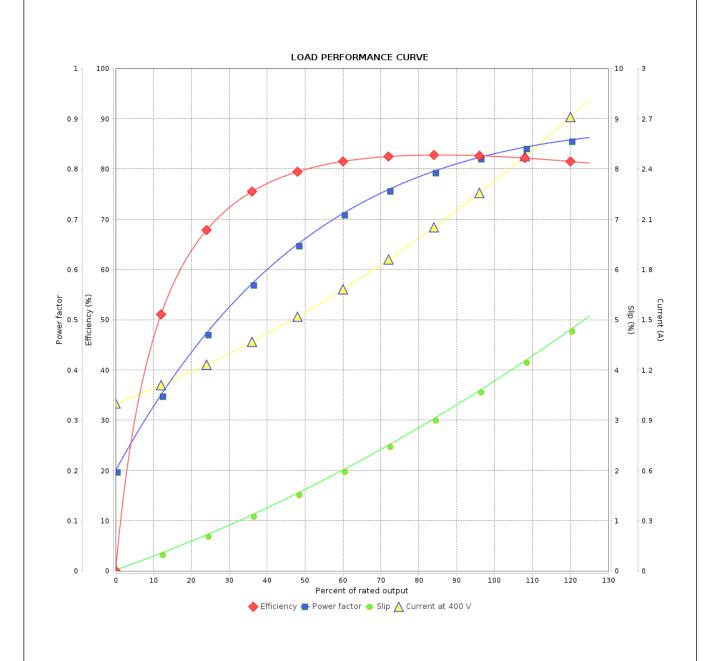


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14480957



Performance	:	400 V 50 Hz 2P IE2					
Rated current		2.32 A	Moment o	Moment of inertia (J)			
LRC	:	8.4	Duty cycle	Duty cycle			
Rated torque	:	0.377 kgfm	Insulation	class	: F		
Locked rotor torque	e :	320 %	Service fa	ctor	: 1.00	: 1.00	
Breakdown torque	:	330 %	Temperature rise		: 80 K		
Rated speed	:	: 2885 rpm Des			: B		
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

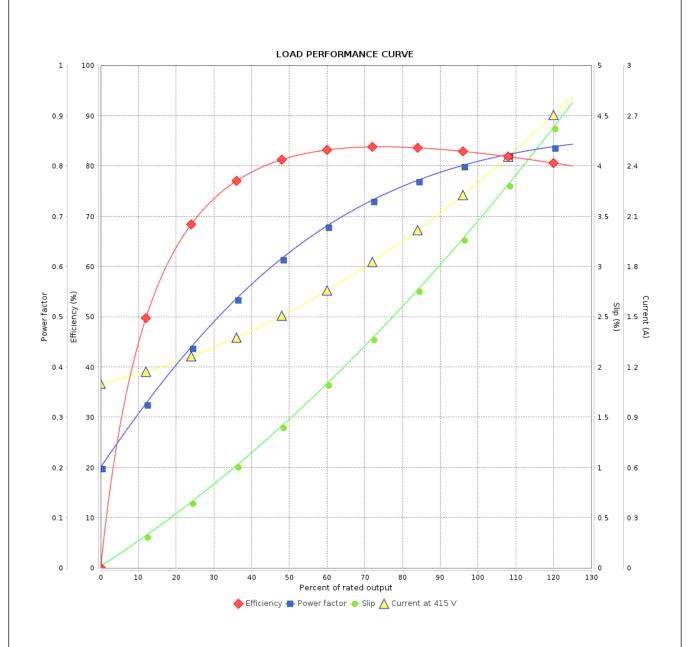
Date

15/01/2024

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14480957



Performance : 415 V 50 Hz 2P IE2 : 2.29 A : 0.0017 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 8.7 Duty cycle : Cont.(S1) : 0.376 kgfm Insulation class Rated torque : F Locked rotor torque : 360 % Service factor : 1.00 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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