## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Frame

Insulation class

Product line : W21 Explosion Proof NEMA Premium

: F

Efficiency Three-Phase

Product code: 14325205

: 182/4T Cooling method : IC411 - TEFC

Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> Altitude : 60.3 kg Protection degree : IP55 Moment of inertia (J) : 0.0080 kgm<sup>2</sup>

Design	•	: B	Women of the	. 0.00	oo kgiii
Output [HP]		5	5	5	5
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		12.2/6.10	7.30	6.94	6.84
L. R. Amperes [A]		91.5/45.7	41.6	44.4	47.2
LRC [A]		7.5x(Code J)	5.7x(Code F)	6.4x(Code G)	6.9x(Code H)
No load current [A]	]	4.40/2.20	2.15	2.40	2.60
Rated speed [RPM]		3490	2850	2865	2875
Slip [%]		3.06	5.00	4.50	4.17
Rated torque [kgfm]		1.04	1.27	1.27	1.26
Locked rotor torque [%]		250	200	229	260
Breakdown torque [%]		380	280	310	340
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		46s (cold) 26s (hot)			
Noise level <sup>2</sup>		69.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)
	25%				
Efficiency (%)	50%	85.5	86.5	86.5	86.5
Efficiency (70)	75%	87.5	87.5	87.5	87.5
	100%	88.5	86.5	87.5	87.5
	25%				
Power Factor	50%	0.70	0.76	0.72	0.69
1 OWEL FACIOI	75%	0.81	0.86	0.83	0.80
	100%	0.86	0.89	0.88	0.86

Non drive end Foundation loads Drive end

Bearing type 6307 2RS 6206 2RS Max. traction : 59 kgf Sealing Oil Seal Lip Seal Max. compression : 120 kgf

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 13.5A SF 1.15 SFA 15.5A

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	15/01/2024			1/6	

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer	

#### Thermal protection

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	15/01/2024			2/6	

### Three Phase Induction Motor - Squirrel Cage

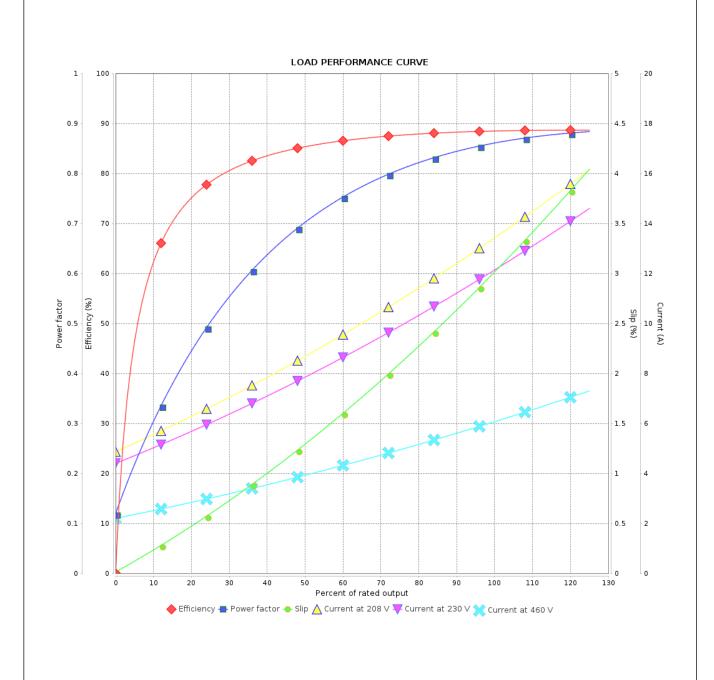


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325205



Performance	:	230/460 V 60 Hz 2P				
Rated current		12.2/6.10 A	Moment of inertia (J)		: 0.0080 kgm²	
LRC	:	7.5	Duty cycle	<b>!</b>	: Cont.(S1)	
Rated torque	:	1.04 kgfm	Insulation	class	: F	
Locked rotor torque	e ::	250 %	Service factor		: 1.15	
Breakdown torque	:	380 %	Temperature rise		: 80 K	
Rated speed	:	3490 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	15/01/2024				3/6	

### Three Phase Induction Motor - Squirrel Cage

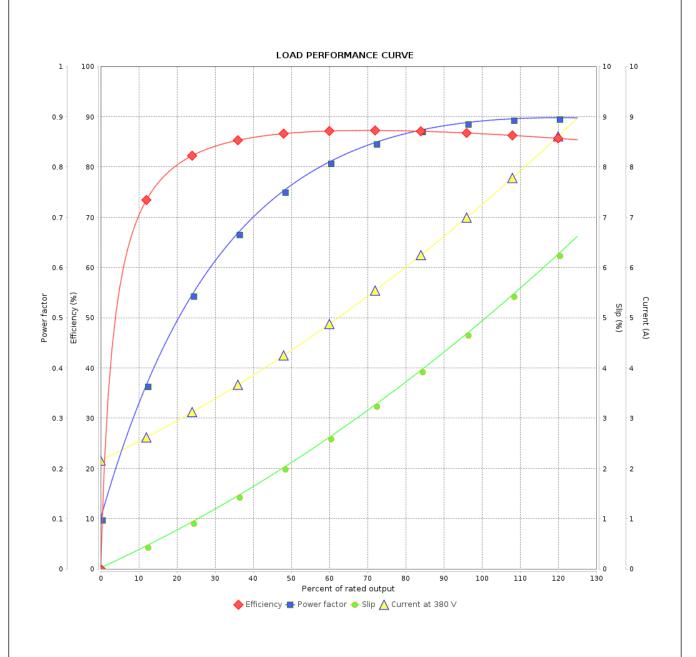


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325205



Performance	: 3	380 V 50 Hz 2P IE2				
Rated current	: 7	7.30 A	Moment o	of inertia (J)	: 0.0080 kgm	2
LRC	: 5	5.7 Duty cycle		: Cont.(S1)		
Rated torque	: 1	1.27 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 2	200 %	Service factor		: 1.00	
Breakdown torque	E : 280 % Temperature rise		: 80 K			
Rated speed	: 2	2850 rpm	Design		: B	
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	15/01/2024	7			4/6	

### Three Phase Induction Motor - Squirrel Cage

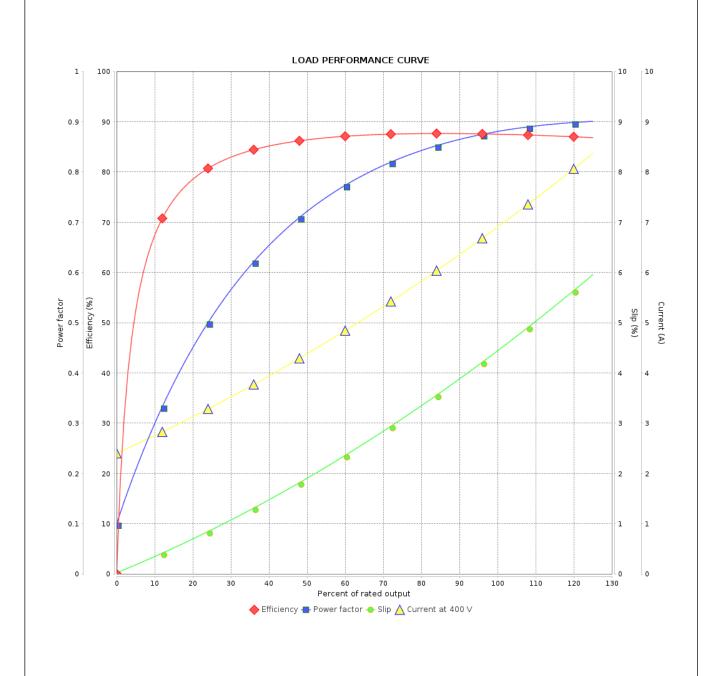


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325205



Performance	:	400 V 50 Hz 2P IE2					
Rated current	:	6.94 A	Moment o	f inertia (J)	: 0.0080 kgm <sup>2</sup>	2	
LRC : 6.		6.4	Duty cycle	<b>:</b>	: Cont.(S1)		
Rated torque	:	1.27 kgfm	Insulation	class	: F		
Locked rotor torque : 229 %		229 %	Service fa	ctor	: 1.00		
Breakdown torque		310 %	Temperatu	Temperature rise		: 80 K	
Rated speed	:	2865 rpm	Design		: B		
Rev.		Changes Summary	у	Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	15/01/2024				5/6		

### Three Phase Induction Motor - Squirrel Cage

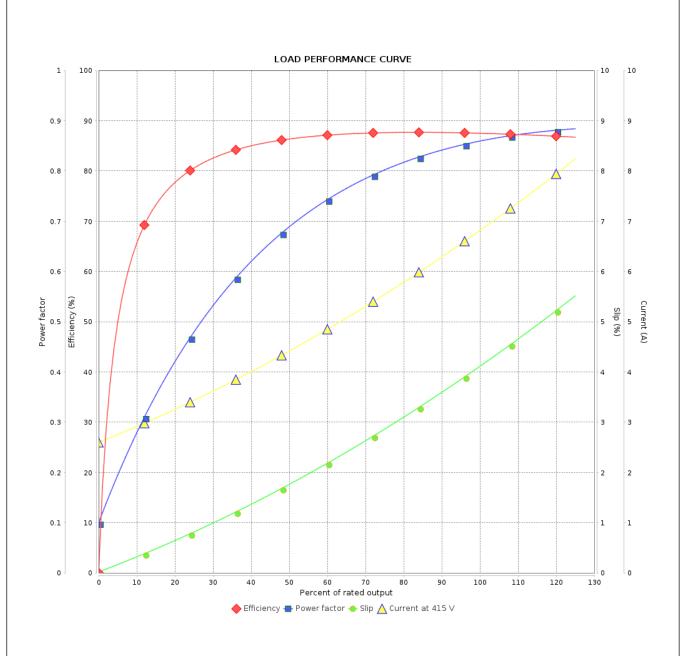


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325205



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.84 A : 6.9 : 1.26 kgfm : 260 % : 340 % : 2875 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design		: 0.0080 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/6

15/01/2024

Date