### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 11439789

: 364/5T Frame Insulation class : F

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

: 1000 m.a.s.l. Approx. weight<sup>3</sup>

Cooling method : IC411 - TEFC Mounting : F-1

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

: 468 kg

Protection degree		: IP55	Moment of ine	ment of inertia (J) : 0.8767 kgm²			
Design		: B					
Output [HP]		60	50	50	50		
Poles			4	4	4		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		137/68.3	69.0	66.0	64.8		
L. R. Amperes [A]		956/478	449	482	505		
LRC [A]		7.0x(Code H)	6.5x(Code G)	7.3x(Code H)	7.8x(Code J)		
No load current [A]	]	44.0/22.0	21.7	23.5	24.9		
Rated speed [RPN	1]	1780	1480	1480	1480		
Slip [%]	Slip [%]		1.33	1.33	1.33		
	Rated torque [kgfm]		24.5	24.5	24.5		
Locked rotor torqu	Locked rotor torque [%]		210	250	270		
Breakdown torque	Breakdown torque [%]		229	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		36s (cold) 20s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)		
Noise level <sup>2</sup>		75.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)		
	25%	93.5	94.5	93.5	93.1		
Efficiency (%)	50%	94.1	94.1	93.6	93.6		
Elliciency (70)	75%	94.5	94.1	7.3x(Code H) 7.8x(Code J) 23.5 24.9 1480 1480 1.33 1.33 24.5 24.5 250 270 260 290 1.00 1.00 80 K 80 K 39s (cold) 22s (hot) 70.0 dB(A) 70.0 dB(A) 93.5 93.1			
	100%	95.0	93.6	94.1	94.5		
	25%	0.48	0.49	0.45	0.43		
Power Factor	50%	0.72	0.72	0.69	0.66		
	75%	0.82	0.82	0.80	0.78		
	100%	0.87	0.87	0.86	0.84		
		Drive end Non dr	ive end Foundation loa	ads			

Foundation loads Drive end <u>ivon arive ena</u>

Mobil Polyrex EM

27 g

Bearing type 6314 C3 6314 C3 : 565 kgf Max. traction Sealing Oil Seal Lip Seal Max. compression : 1033 kgf Lubrication interval 9789 h 9789 h

27 g

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			1/6	

# DATA SHEET

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Customer	
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	13/01/2024			2/6	

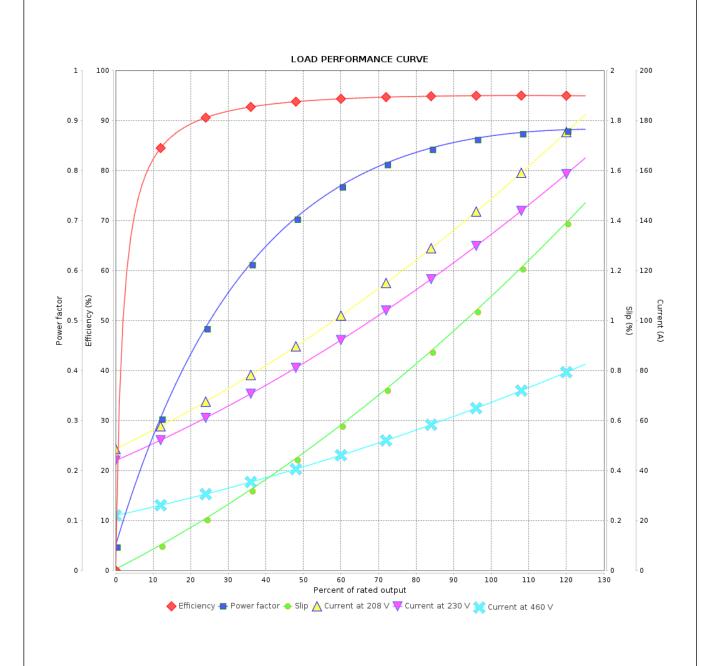
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase



Performance	: 23	30/460 V 60 Hz 4P				
		37/68.3 A Moment of inertia (J)		: 0.8767 kgm²		
LRC	: 7.	-	Duty cycle		: Cont.(S1)	
Rated torque		4.5 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 25	50 %	Service fa	Service factor		
Breakdown torque :		50 %	Temperati	Temperature rise		
Rated speed	: 17	780 rpm	Design		: B	
Rev.		Changes Summary	/	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024	1			3/6	

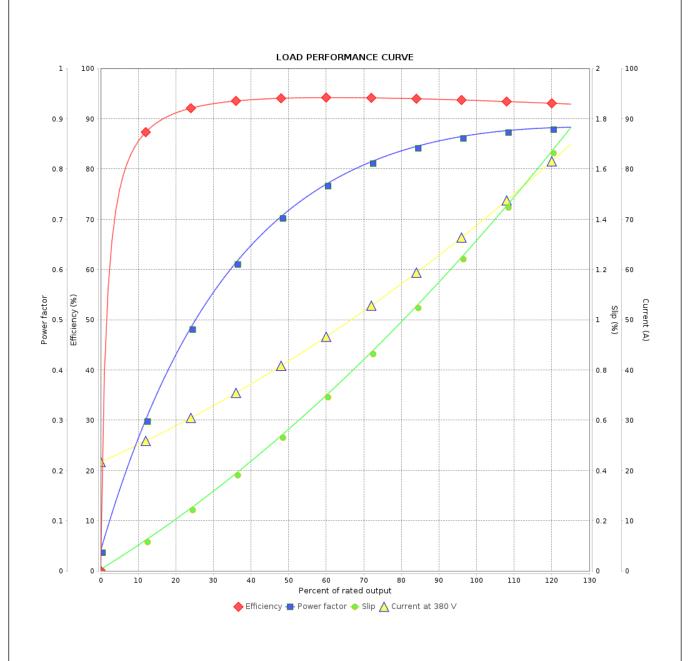
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase



Performance	:	380 V 50 Hz 4P IE2	80 V 50 Hz 4P IE2			
Rated current		69.0 A	Moment o	Moment of inertia (J)		2
LRC	:	6.5	Duty cycle	•	: Cont.(S1)	
Rated torque		24.5 kgfm	Insulation	Insulation class		
·		210 %	Service fa	ctor	: 1.00	
Breakdown torque		229 %	Temperat	Temperature rise		
Rated speed	:	1480 rpm	Design	Design		
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				4/6	

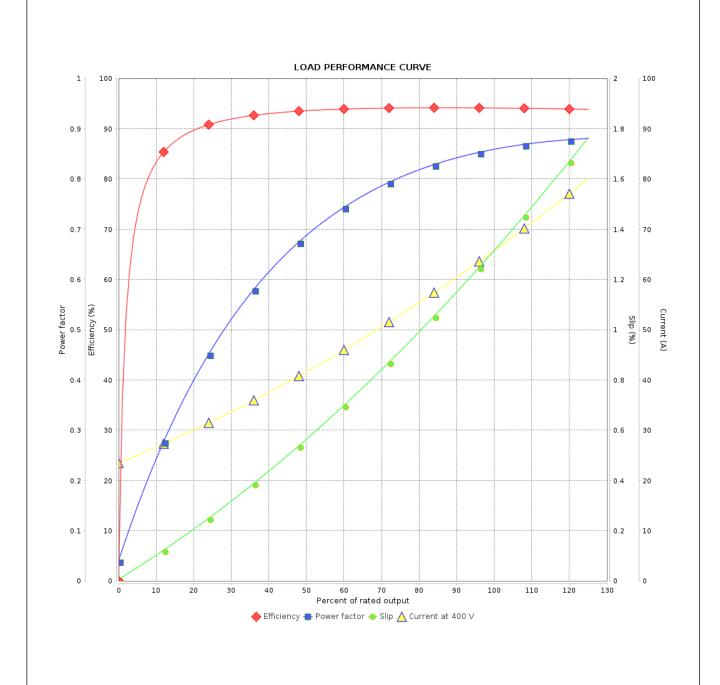
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase



Performance	: 4	400 V 50 Hz 4P IE3				
Rated current : 6		66.0 A	Moment o	Moment of inertia (J)		2
LRC	: 7	7.3	Duty cycle	•	: Cont.(S1)	
Rated torque :		24.5 kgfm	Insulation	Insulation class		
•		250 %	Service fa	Service factor		
Breakdown torque		260 %	Temperati	Temperature rise		
Rated speed	: '	1480 rpm	Design		: B	
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				5/6	

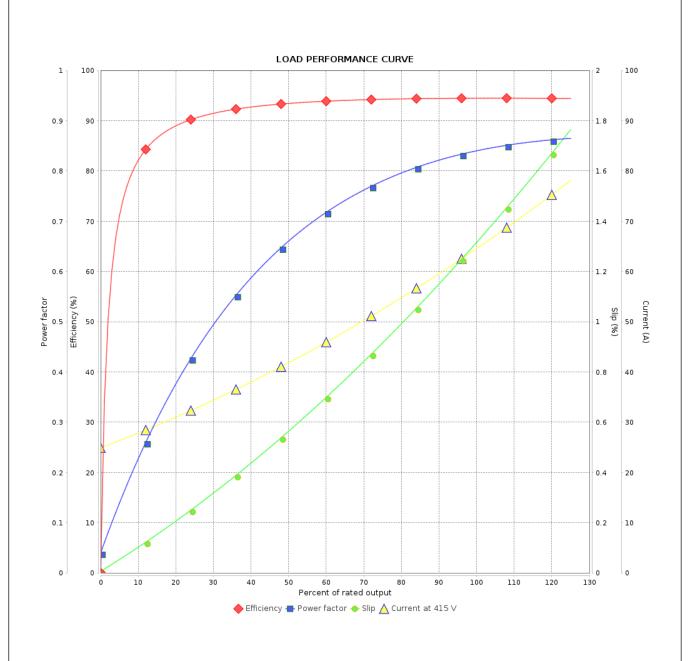
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase



Performance	:	15 V 50 Hz 4P IE3				
Rated current		64.8 A	Moment of inertia (J)		: 0.8767 kgm²	
LRC	:	7.8	Duty cycle	e `	: Cont.(S1)	
Rated torque	:	24.5 kgfm	Insulation	class	: F	
Locked rotor torq	ue :	270 %	Service fa	actor	: 1.00	
Breakdown torque		290 %	Temperat	Temperature rise		
Rated speed	:	1480 rpm	Design	Design		
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				6/6	