

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 15326463

Frame	: 280S/M	Locked rotor time	: 93s (cold) 52s (hot)
Output	: 125 HP	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 132 A	Protection degree	: IP55
L. R. Amperes	: 1135 A	Cooling method	: IC411 - TEFC
LRC	: 8.6	Mounting	: B3R(D)
No load current	: 36.1 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3581 rpm	Noise level <sup>2</sup>	: 81.0 dB(A)
Slip	: 0.53 %	Starting method	: Direct On Line
Rated torque	: 25.3 kgfm	Approx. weight <sup>3</sup>	: 804 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.34 kgm <sup>2</sup>		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.0	94.5	95.0	Max. traction	: 329 kgf
Power Factor	0.82	0.88	0.90	Max. compression	: 1133 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.8	2.7	2.0	3.5	1.5	1.2	0.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

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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# LOAD PERFORMANCE CURVE

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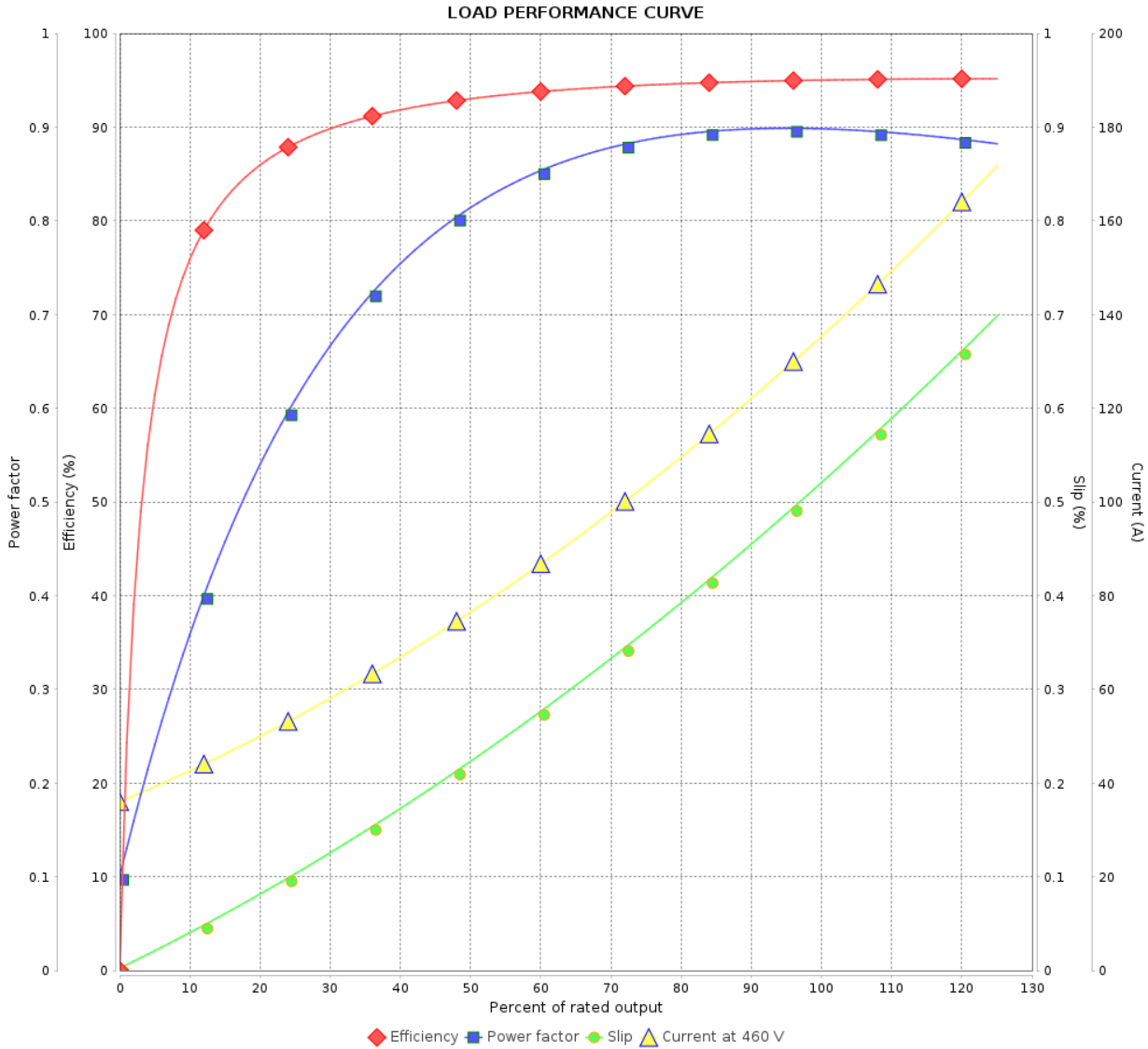


Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

15326463



Performance : 460 V 60 Hz 2P

Rated current : 132 A  
 LRC : 8.6  
 Rated torque : 25.3 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 330 %  
 Rated speed : 3581 rpm

Moment of inertia (J) : 1.34 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

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