

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 15092308

Frame	: 315S/M	Locked rotor time	: 95s (cold) 53s (hot)
Output	: 150 HP (110 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 180 A	Protection degree	: IP55
L. R. Amperes	: 1260 A	Cooling method	: IC411 - TEFC
LRC	: 7.0	Mounting	: V5L(E)
No load current	: 72.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1193 rpm	Noise level ²	: 70.0 dB(A)
Slip	: 0.58 %	Starting method	: Direct On Line
Rated torque	: 91.2 kgfm	Approx. weight ³	: 1206 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 4.44 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.0	95.8	95.8	Max. traction	: 1336 kgf
Power Factor	0.64	0.75	0.80	Max. compression	: 2543 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)
4.5	3.3	2.7	2.7	1.7	1.4	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	NU-319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	8000 h
Lubricant amount	:	45 g	34 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

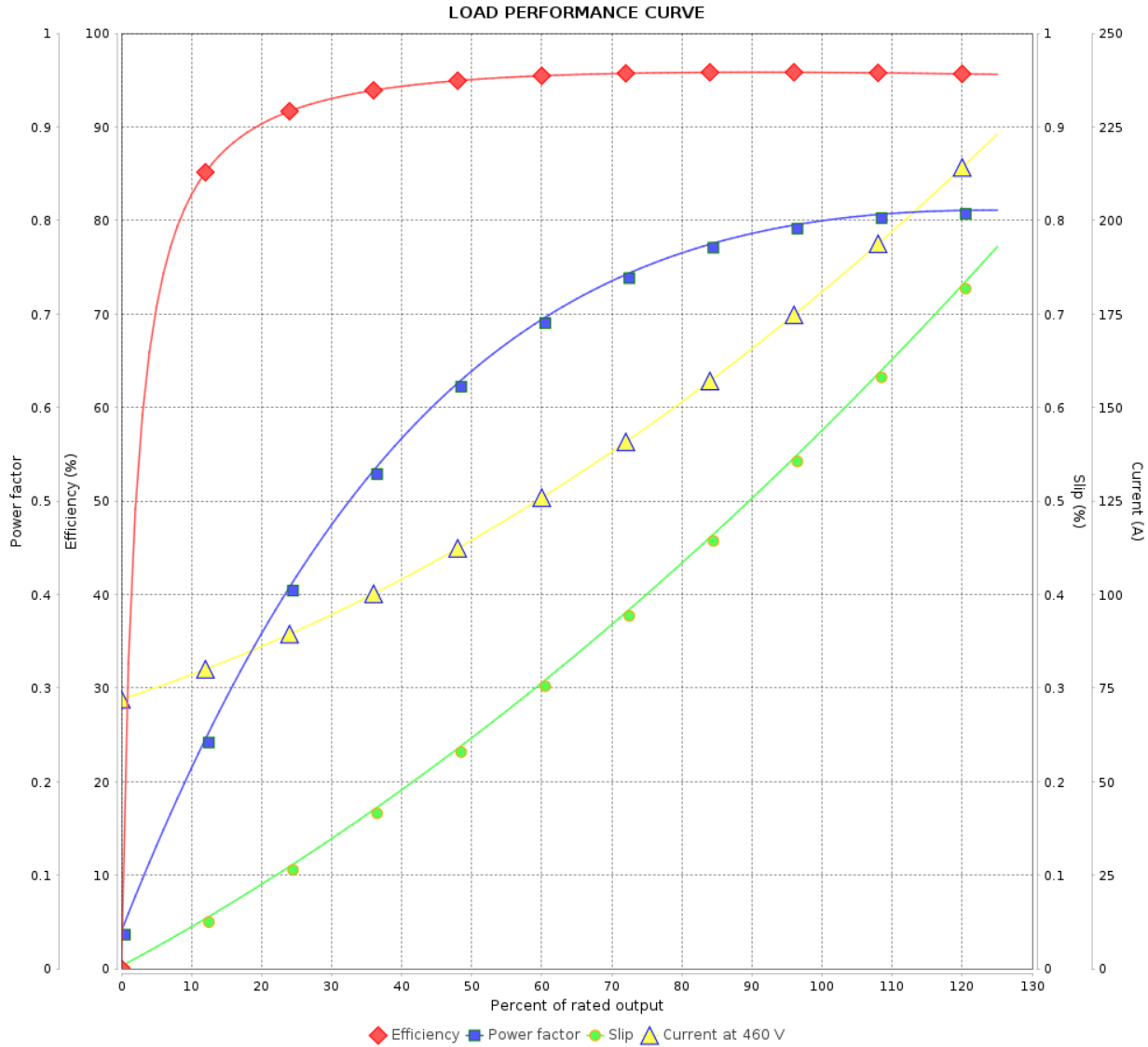
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Product code : 15092308



Performance : 460 V 60 Hz 6P

Rated current : 180 A
 LRC : 7.0
 Rated torque : 91.2 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 270 %
 Rated speed : 1193 rpm

Moment of inertia (J) : 4.44 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : N

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