

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 15681949

Frame	: 280S/M	Locked rotor time	: 106s (cold) 59s (hot)
Output	: 100 HP (75 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 245-222/111 A	Protection degree	: IP55
L. R. Amperes	: 1985-1798/899 A	Cooling method	: IC411 - TEFC
LRC	: 8.1	Mounting	: B3L(E)
No load current	: 51.2-59.4/29.7 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3580 rpm	Noise level ²	: 81.0 dB(A)
Slip	: 0.56 %	Starting method	: VFD
Rated torque	: 20.3 kgfm	Approx. weight ³	: 727 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.21 kgm ²		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	92.4	94.1	94.5	Max. traction	: 257 kgf
Power Factor	0.00	0.80	0.87	0.90	Max. compression	: 984 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)
5.3	2.9	2.0	3.9	1.6	1.3	0.6

		<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

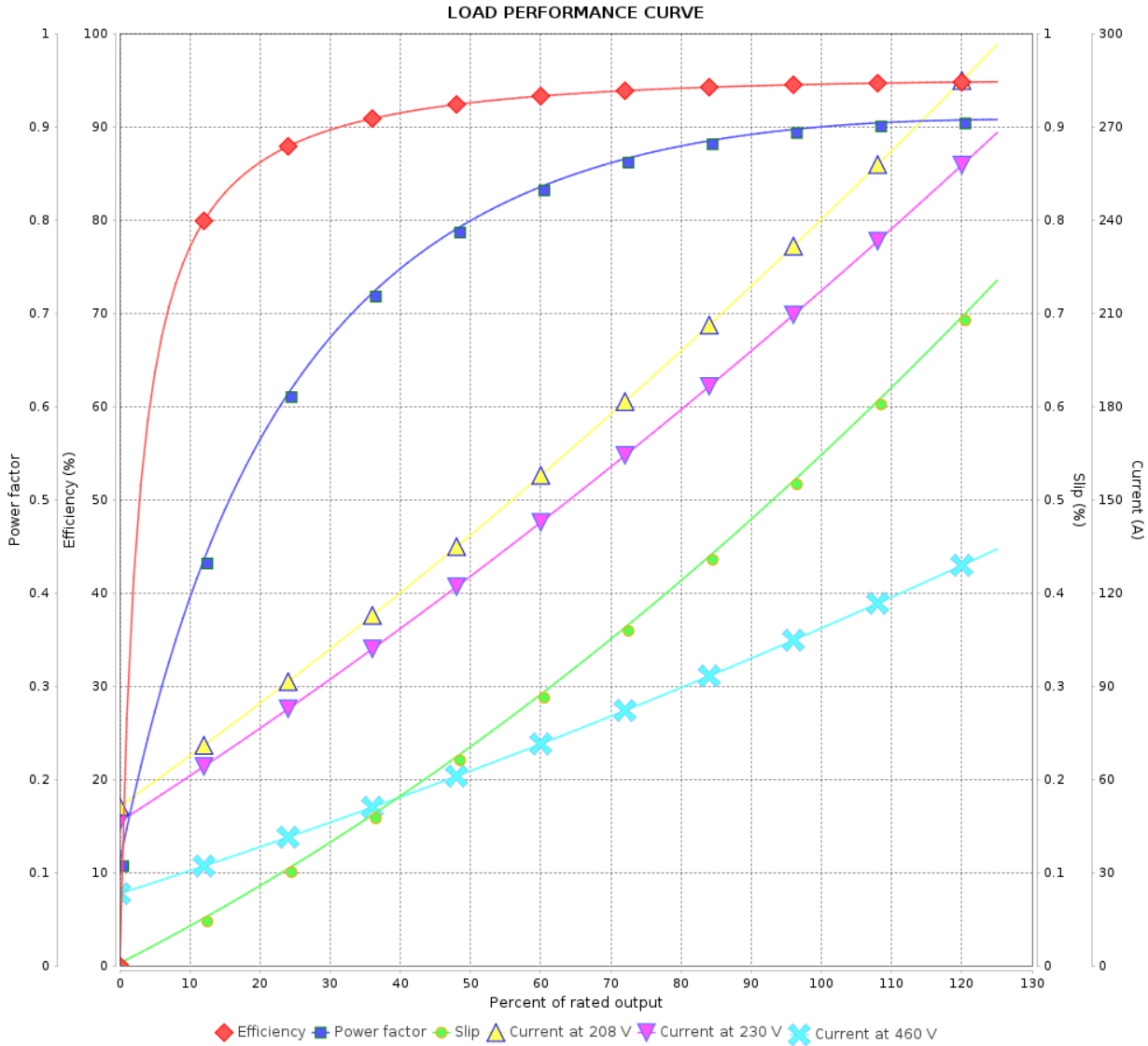
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Product code : 15681949



Performance : 208-230/460 V 60 Hz 2P

Rated current : 245-222/111 A
 LRC : 8.1
 Rated torque : 20.3 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 350 %
 Rated speed : 3580 rpm

Moment of inertia (J) : 1.21 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
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