

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase Product code : 11168259

Frame	: E143/5JM	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.80/2.90 A	Protection degree	: IP21
L. R. Amperes	: 47.6/23.8 A	Cooling method	: IC01 - ODP
LRC	: 8.2x(Code L)	Mounting	: F-1
No load current	: 3.20/1.60 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1730 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 3.89 %	Starting method	: Direct On Line
Rated torque	: 0.839 kgfm	Approx. weight ³	: 21.2 kg
Locked rotor torque	: 350 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0067 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.5	85.5	86.5	Max. traction	: 68 kgf
Power Factor	0.58	0.70	0.78	Max. compression	: 89 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6204 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes
USABLE @208V 5.95A SF 1.00 SFA 5.95A

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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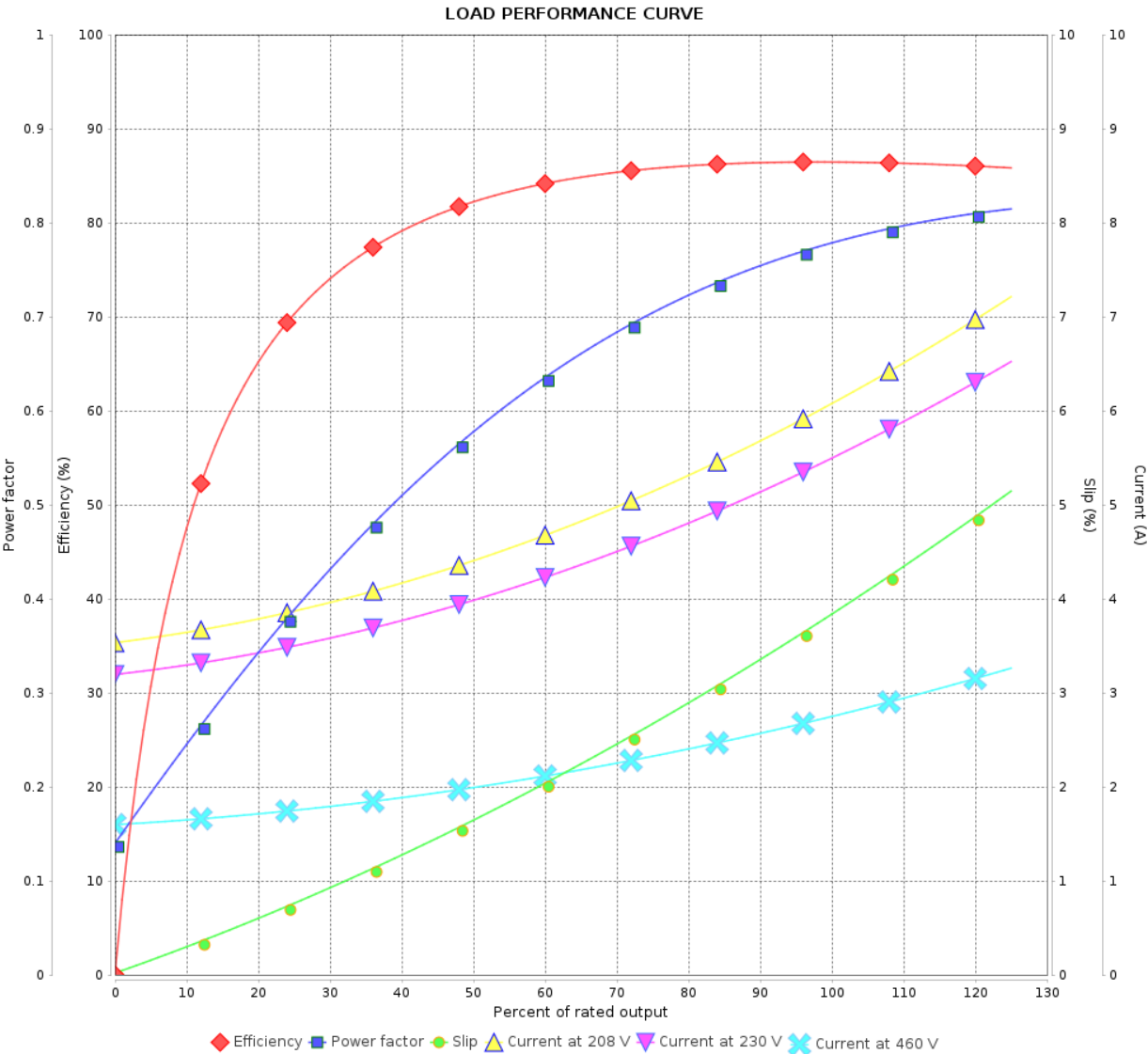
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase Product code : 11168259



Performance : 230/460 V 60 Hz 4P

Rated current : 5.80/2.90 A
LRC : 8.2
Rated torque : 0.839 kgfm
Locked rotor torque : 350 %
Breakdown torque : 330 %
Rated speed : 1730 rpm

Moment of inertia (J) : 0.0067 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K
Design : B

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