

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump NEMA Premium Efficiency Three-Phase Product code : 13439527

Frame	: 254/6JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 100 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0551 kgm ²
Design	: A		

Output [HP]	25	20	20
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	57.0/28.5	55.8-48.2/27.9	26.3
L. R. Amperes [A]	473/237	441-381/220	234
LRC [A]	8.3x(Code J)	7.9x(Code J)	8.9x(Code K)
No load current [A]	20.1/10.0	19.8-17.1/9.91	11.5
Rated speed [RPM]	3530	2930	2945
Slip [%]	1.94	2.33	1.83
Rated torque [kgfm]	5	5	5
Locked rotor torque [%]	240	229	280
Breakdown torque [%]	340	330	400
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	14s (cold) 8s (hot)	14s (cold) 8s (hot)	12s (cold) 7s (hot)
Noise level ²	75.0 dB(A)	72.0 dB(A)	72.0 dB(A)
Efficiency (%)	25%		
	50%	91.0	91.9
	75%	91.7	92.6
	100%	91.7	92.3
Power Factor	25%		
	50%	0.77	0.70
	75%	0.85	0.81
	100%	0.89	0.86

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

Losses (%)	P1 (0,9;1,0)	8.9	7.7	8.1
	P2 (0,5;1,0)	7.4	6.4	6.7
	P3 (0,25;1,0)	6.7	5.8	6.1
	P4 (0,9;0,5)	4.6	4.0	4.2
	P5 (0,5;0,5)	3.1	2.7	2.8
	P6 (0,5;0,25)	2.1	1.8	1.9
	P7 (0,25;0,25)	1.5	1.3	1.3

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6309 Z C3	6208 Z C3	Max. traction : 255 kgf
Sealing	: V'Ring	Without Bearing Seal	Max. compression : 365 kgf
Lubrication interval	: 15797 h	20000 h	
Lubricant amount	: 13 g	8 g	
Lubricant type	: Mobil Polyrex EM		

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).

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Customer :

Notes
USABLE @208V 63.0A SF 1.00 SFA 63.0A

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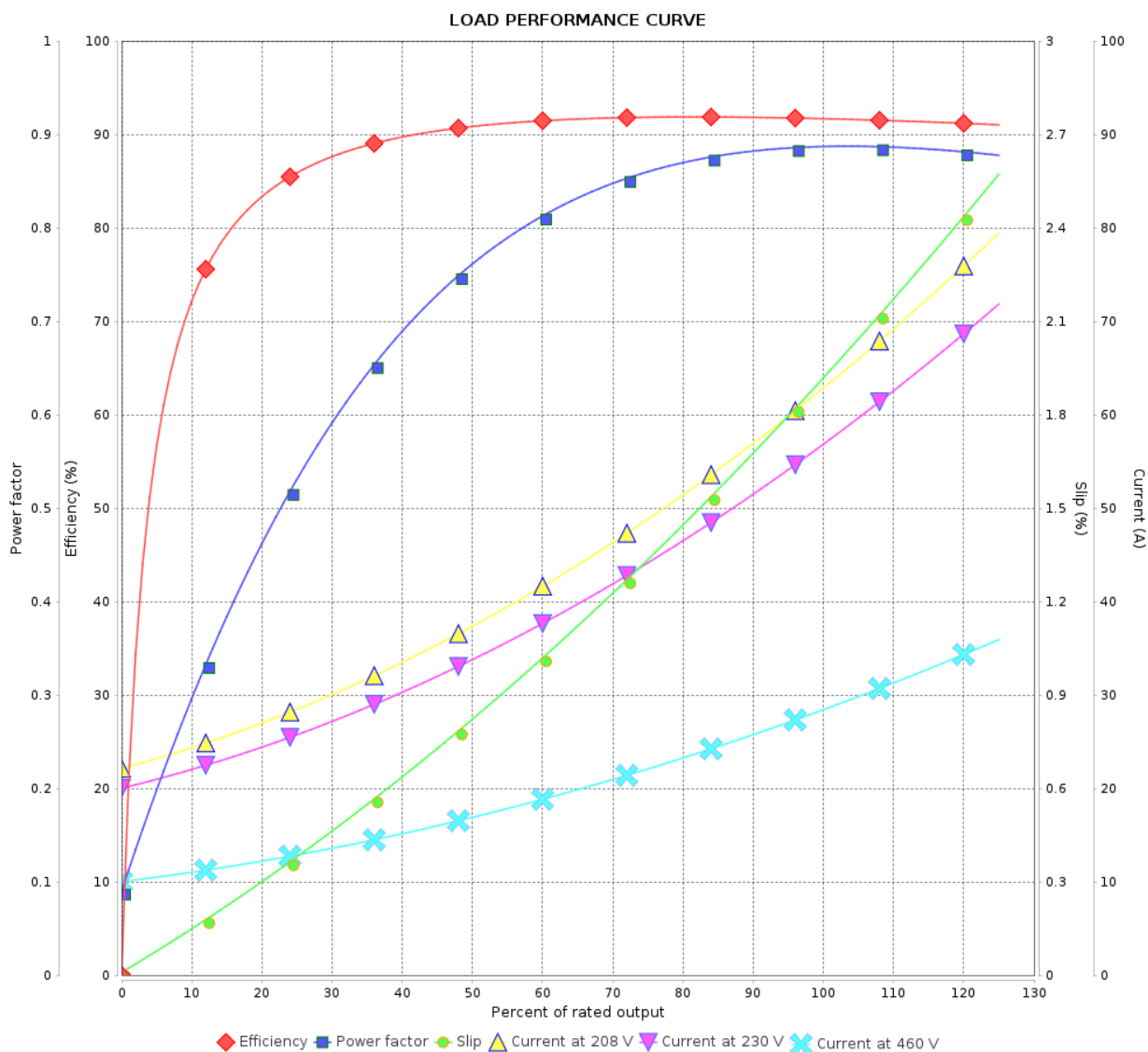
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump NEMA
Premium Efficiency Three-Phase

Product code : 13439527



Performance : 230/460 V 60 Hz 2P

Rated current : 57.0/28.5 A
LRC : 8.3
Rated torque : 5 kgfm
Locked rotor torque : 240 %
Breakdown torque : 340 %
Rated speed : 3530 rpm

Moment of inertia (J) : 0.0551 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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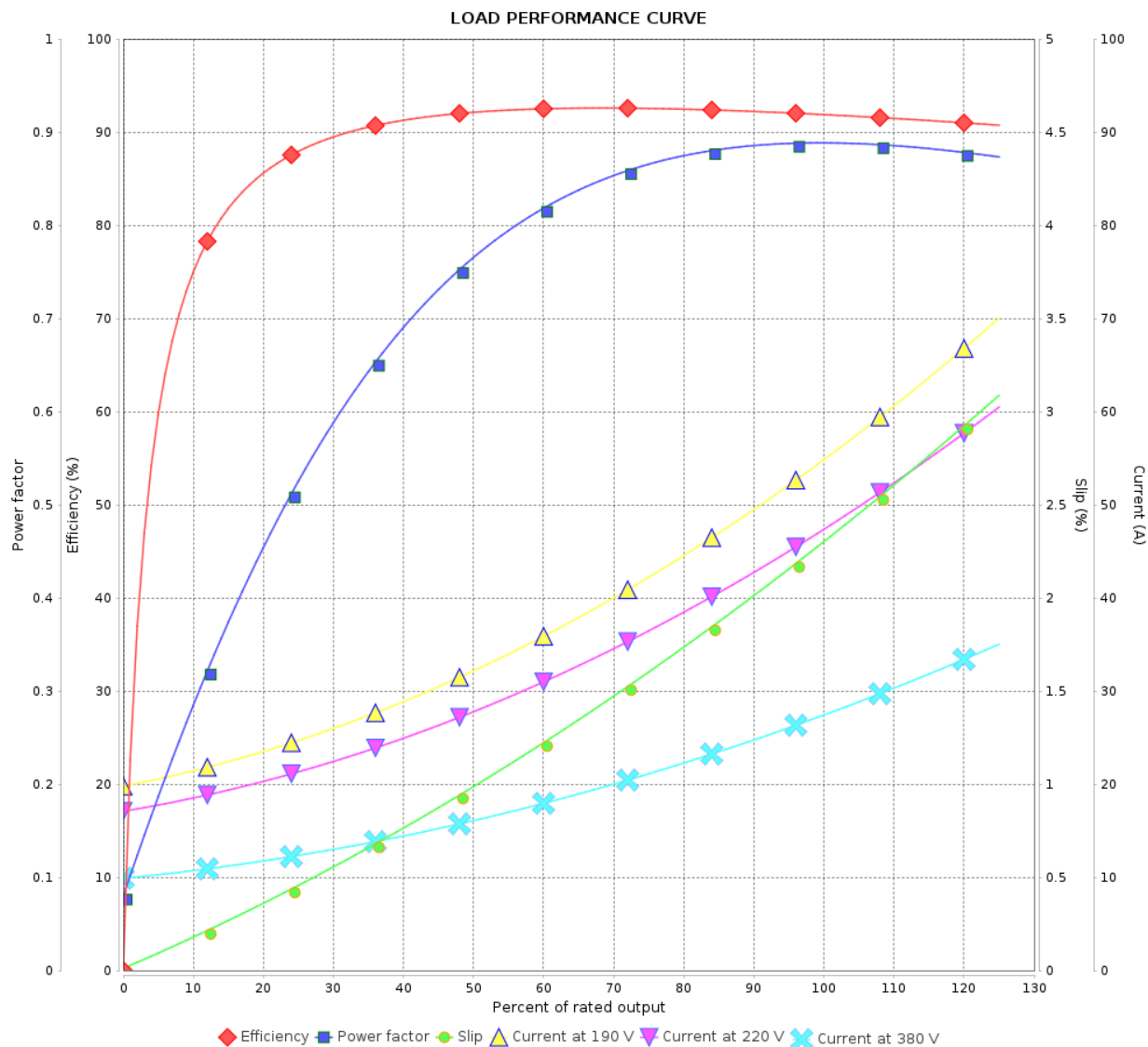
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump NEMA
Premium Efficiency Three-Phase

Product code : 13439527



Performance : 190-220/380 V 50 Hz 2P

Rated current : 55.8-48.2/27.9 A
LRC : 7.9
Rated torque : 5 kgfm
Locked rotor torque : 229 %
Breakdown torque : 330 %
Rated speed : 2930 rpm

Moment of inertia (J) : 0.0551 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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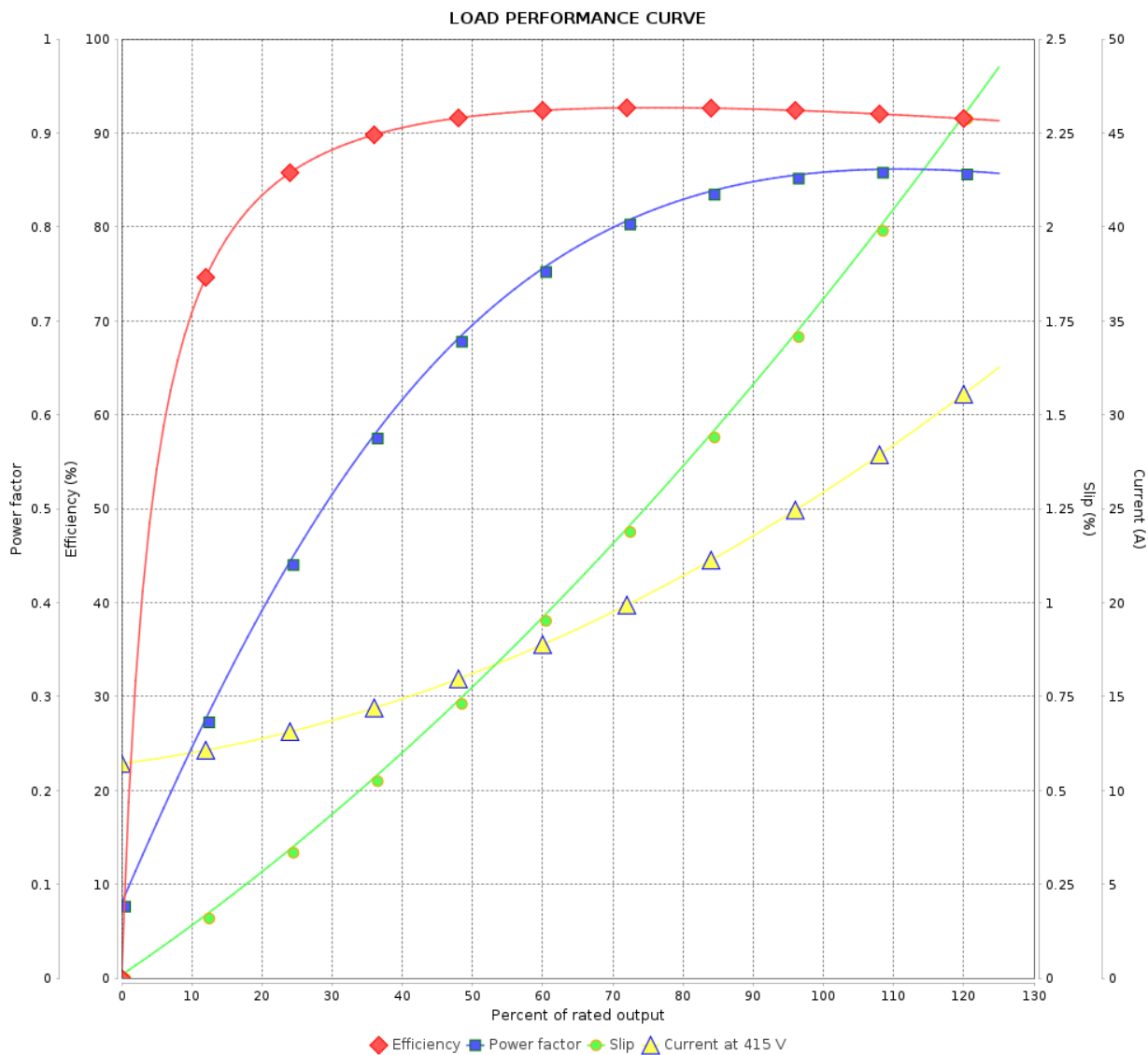
Three Phase Induction Motor - Squirrel Cage



Customer :

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Premium Efficiency Three-Phase

Product code : 13439527



Performance : 415 V 50 Hz 2P

Rated current : 26.3 A
LRC : 8.9
Rated torque : 5 kgfm
Locked rotor torque : 280 %
Breakdown torque : 400 %
Rated speed : 2945 rpm

Moment of inertia (J) : 0.0551 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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