

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Efficiency Three-Phase Product code : 13485858

Frame	: 182/4JM	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	: 39.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0144 kgm ²
Design	: B		

Output [HP]	2	2	2
Poles	6	6	6
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	6.00/3.00	7.00-6.05/3.50	3.41
L. R. Amperes [A]	45.0/22.5	42.7-36.9/21.3	24.2
LRC [A]	7.5x(Code K)	6.1x(Code H)	7.1x(Code K)
No load current [A]	3.74/1.87	3.69-3.19/1.85	2.15
Rated speed [RPM]	1170	955	965
Slip [%]	2.50	4.50	3.50
Rated torque [kgfm]	1.24	1.52	1.50
Locked rotor torque [%]	260	210	280
Breakdown torque [%]	370	280	350
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	79s (cold) 44s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	52.0 dB(A)	50.0 dB(A)	50.0 dB(A)
Efficiency (%)	25%		
	50%	84.0	83.7
	75%	86.5	86.0
	100%	88.5	86.2
Power Factor	25%		
	50%	0.50	0.50
	75%	0.62	0.63
	100%	0.71	0.71

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6207 ZZ	6205 ZZ	Max. traction	: 90 kgf
Sealing	: V'Ring	Without Bearing Seal	Max. compression	: 130 kgf
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes
USABLE @208V 6.63A SF 1.00 SFA 6.63A

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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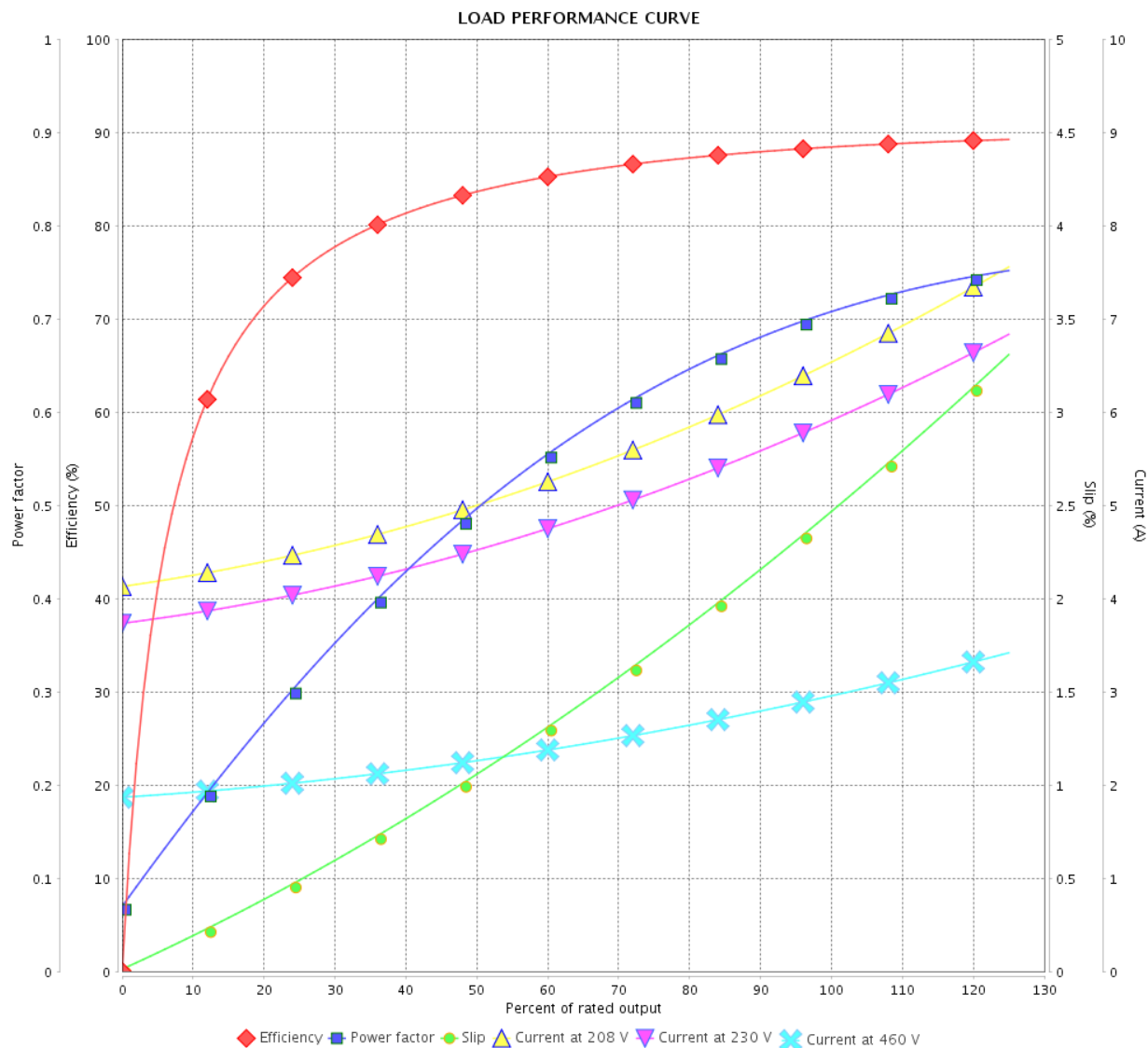
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13485858



Performance : 230/460 V 60 Hz 6P

Rated current : 6.00/3.00 A
 LRC : 7.5
 Rated torque : 1.24 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 370 %
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.0144 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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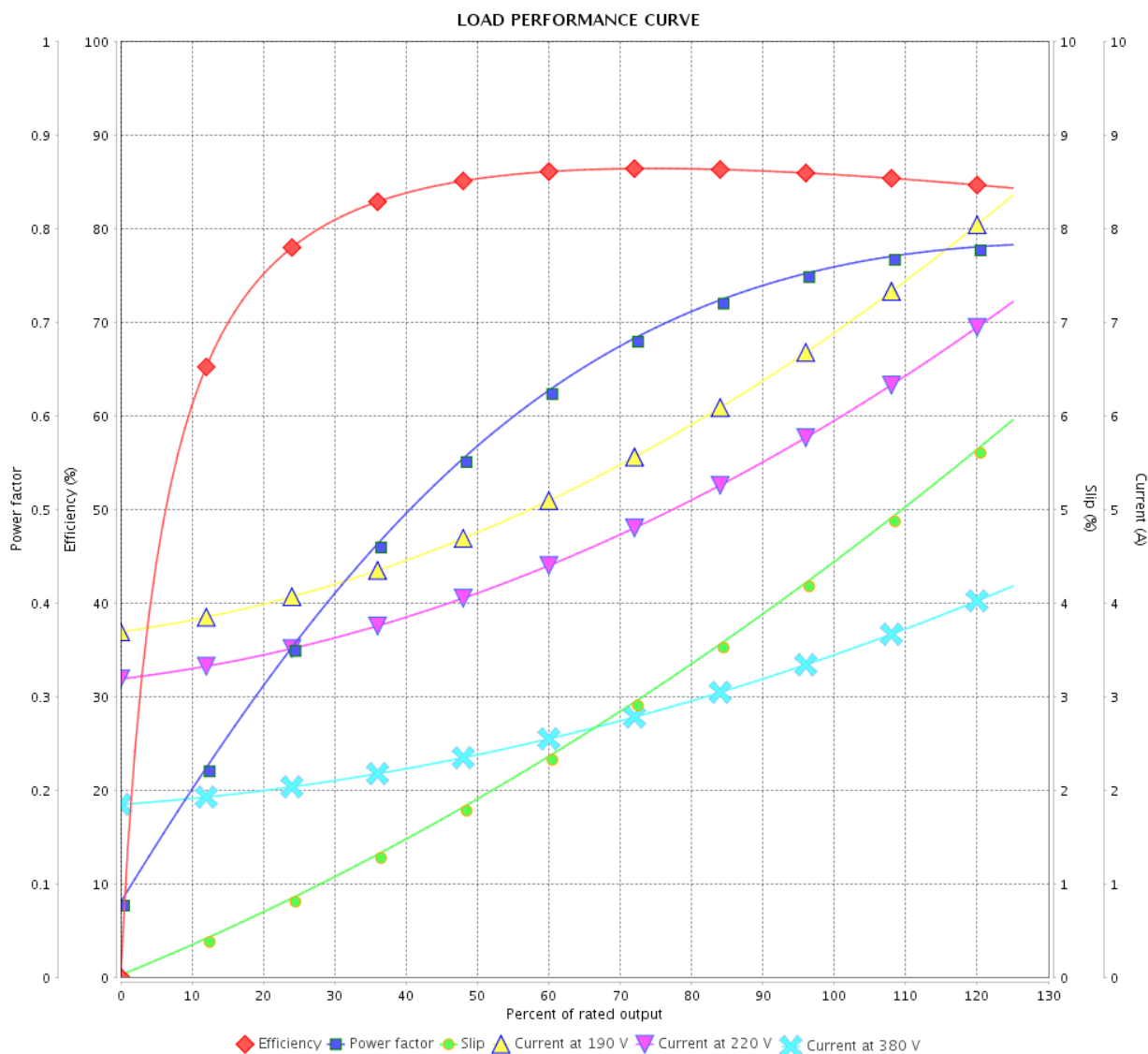
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
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Product code : 13485858



Performance : 190-220/380 V 50 Hz 6P

Rated current : 7.00-6.05/3.50 A
LRC : 6.1
Rated torque : 1.52 kgfm
Locked rotor torque : 210 %
Breakdown torque : 280 %
Rated speed : 955 rpm

Moment of inertia (J) : 0.0144 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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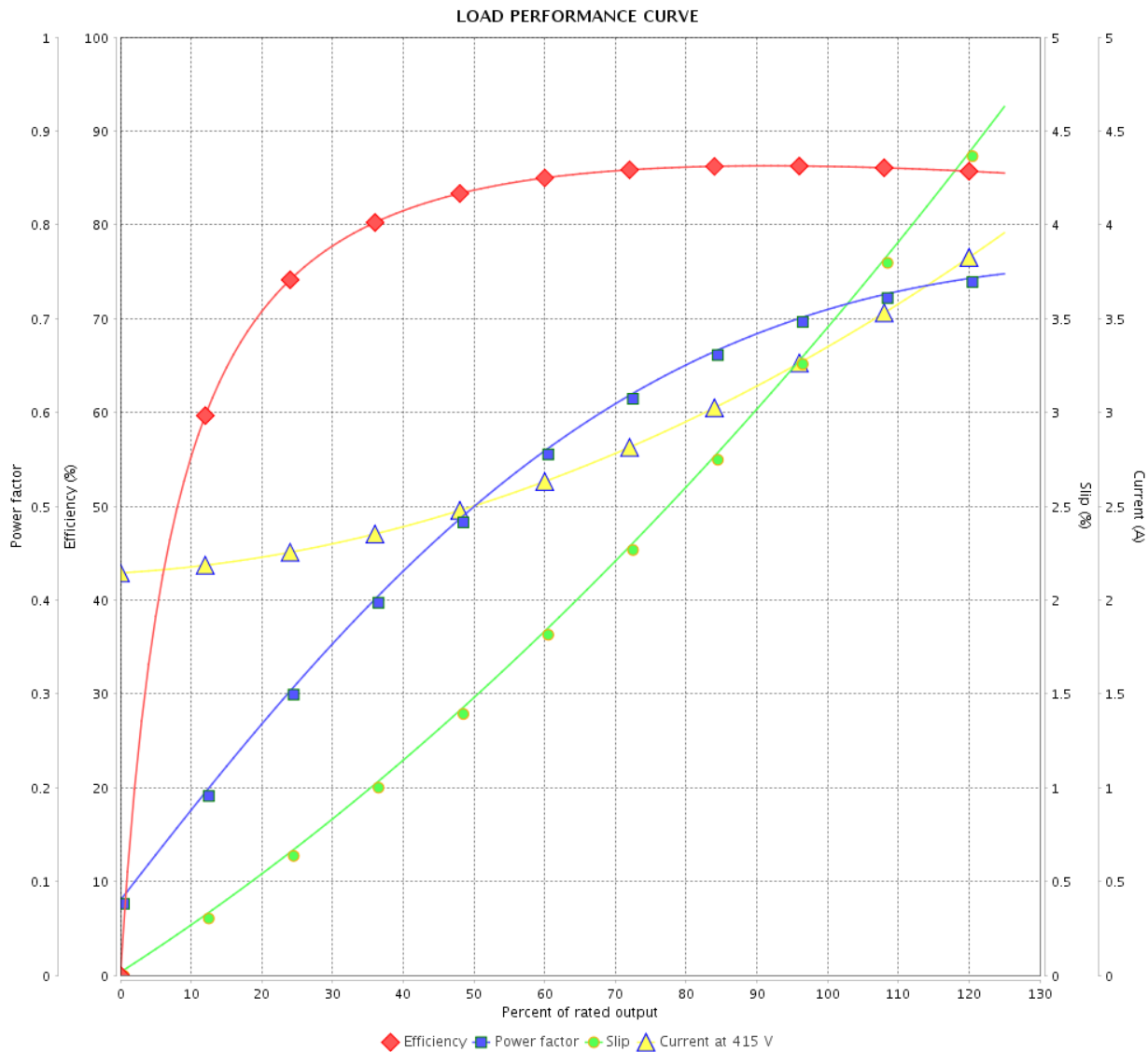
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13485858



Performance : 415 V 50 Hz 6P

Rated current : 3.41 A
LRC : 7.1
Rated torque : 1.50 kgfm
Locked rotor torque : 280 %
Breakdown torque : 350 %
Rated speed : 965 rpm

Moment of inertia (J) : 0.0144 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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