

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12655083
Frame	: 143/5T	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	: 17.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0052 kgm ²
Design	: B		
Output [HP]	1	1	1
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	2.94/1.47	3.40-2.94/1.70	1.62
L. R. Amperes [A]	25.3/12.6	22.1-19.1/11.0	12.2
LRC [A]	8.6x(Code M)	6.5x(Code J)	7.5x(Code K)
No load current [A]	1.78/0.890	1.76-1.52/0.879	0.988
Rated speed [RPM]	1765	1450	1460
Slip [%]	1.94	3.33	2.67
Rated torque [kgfm]	0.411	0.501	0.497
Locked rotor torque [%]	280	200	250
Breakdown torque [%]	300	270	330
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	34s (cold) 19s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	81.0	80.4
	50%	82.5	80.9
	75%	84.0	83.5
	100%	85.5	83.7
Power Factor	25%	0.30	0.31
	50%	0.52	0.55
	75%	0.66	0.68
	100%	0.75	0.77
Bearing type	: <u>Drive end</u> 6205 ZZ	<u>Non drive end</u> 6203 ZZ	Foundation loads
Sealing	: V'Ring	Without Bearing Seal	Max. traction : 38 kgf
Lubrication interval	: -	-	Max. compression : 55 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 3.25A SF 1.00 SFA 3.25A			
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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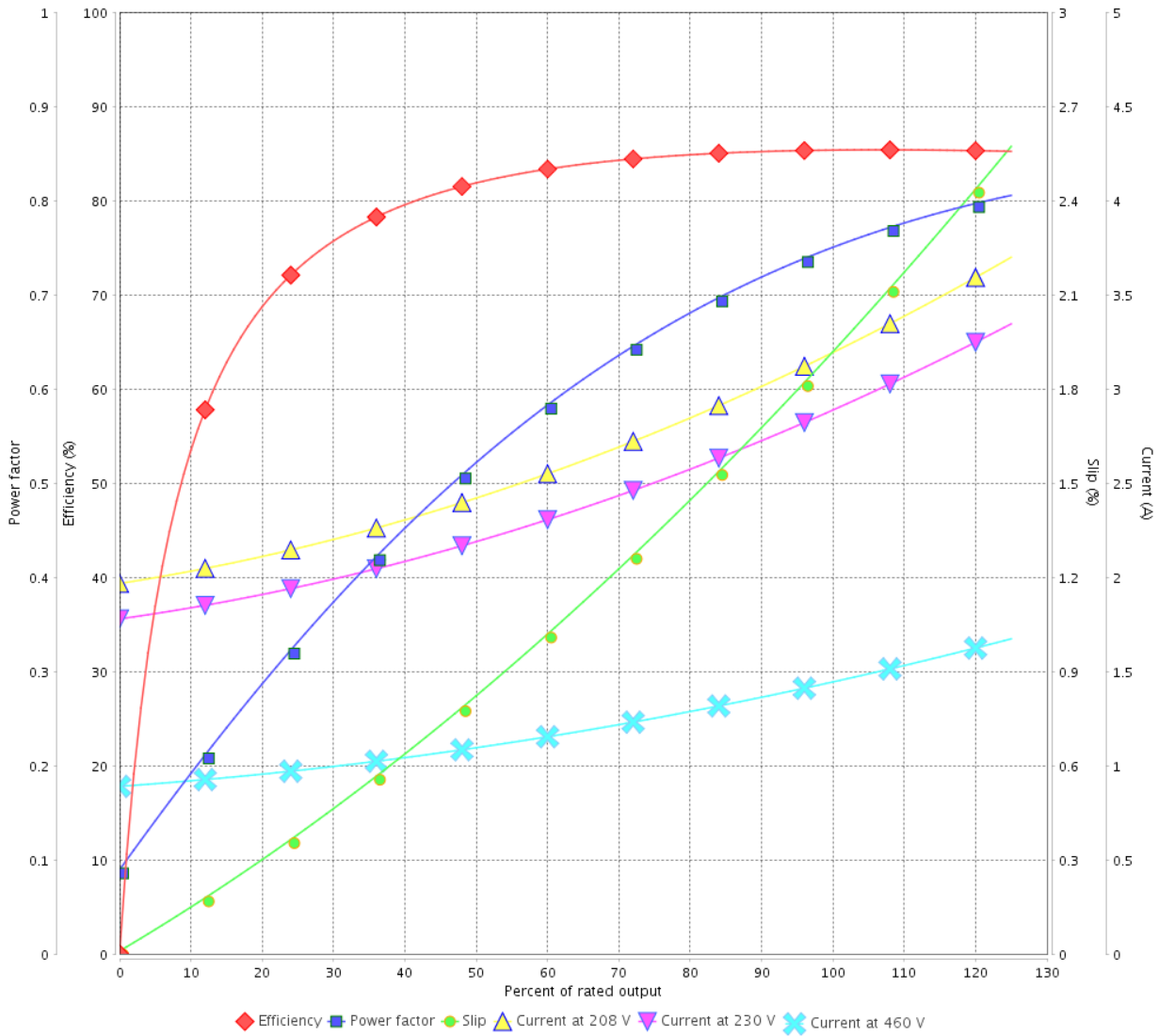
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12655083

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Performance : 230/460 V 60 Hz 4P

Rated current : 2.94/1.47 A
 LRC : 8.6
 Rated torque : 0.411 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 300 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0052 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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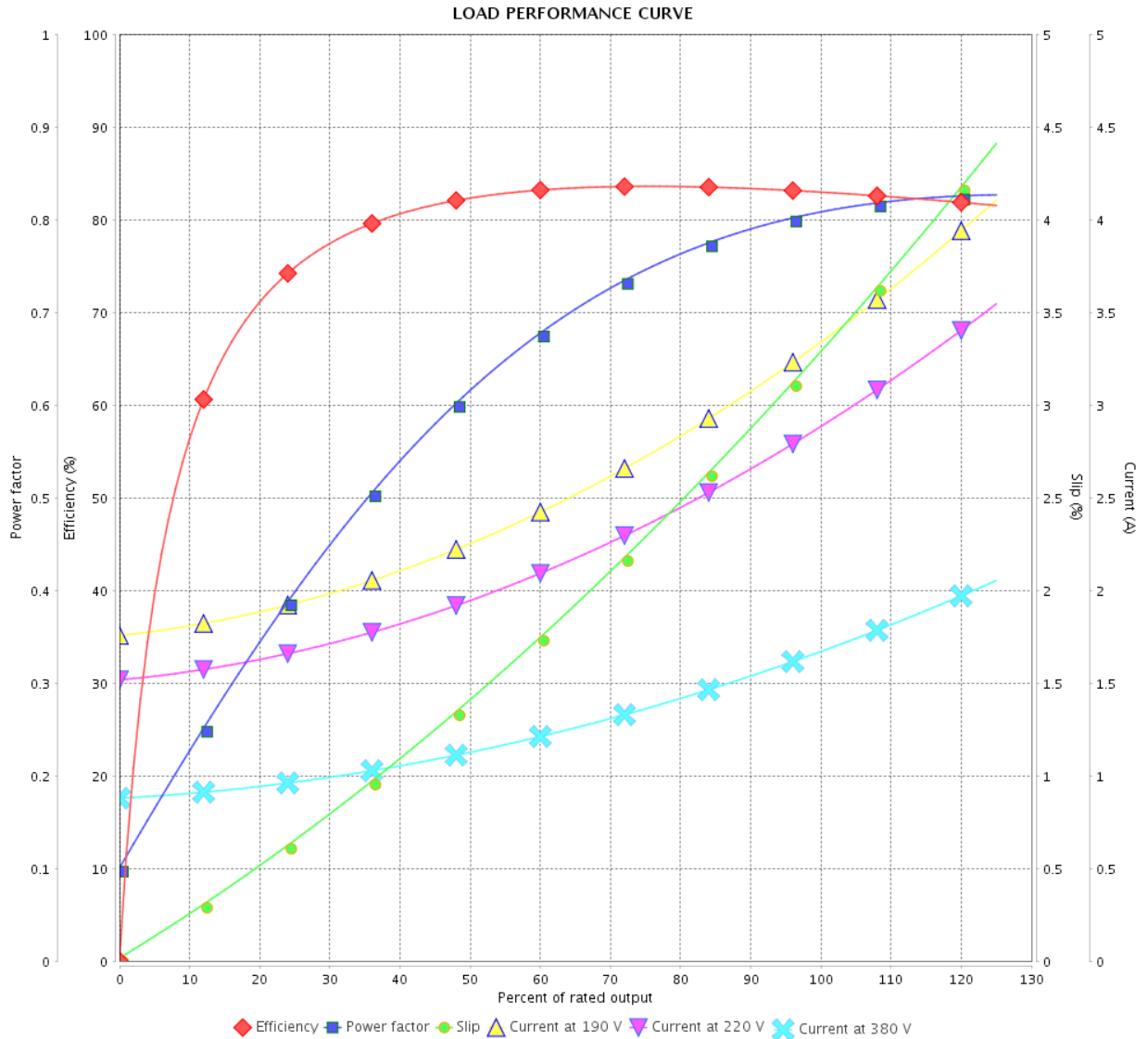
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190-220/380 V 50 Hz 4P

Rated current : 3.40-2.94/1.70 A
 LRC : 6.5
 Rated torque : 0.501 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 270 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0052 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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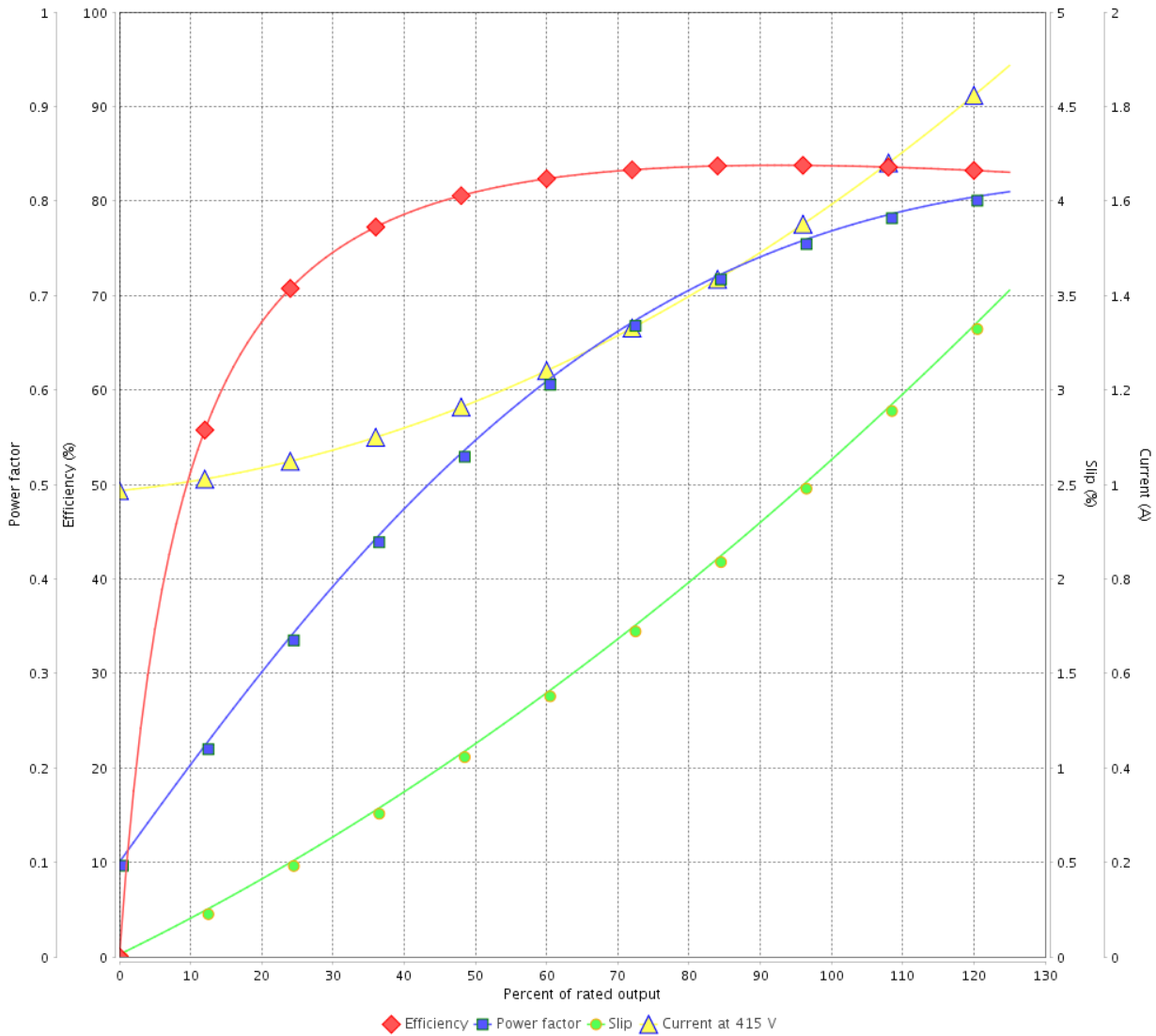
Three Phase Induction Motor - Squirrel Cage



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Performance : 415 V 50 Hz 4P

Rated current	: 1.62 A	Moment of inertia (J)	: 0.0052 kgm ²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 0.497 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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