

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675399
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	: 17.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0046 kgm ²
Design	: B		
Output [HP]	1.5	1.5	1.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	4.04/2.02	4.82/2.41	4.38/2.32
L. R. Amperes [A]	33.1/16.6	29.4/14.7	29.3/15.5
LRC [A]	8.2x(Code K)	6.1x(Code H)	6.7x(Code J)
No load current [A]	2.17/1.08	2.13/1.07	2.20/1.17
Rated speed [RPM]	1750	1420	1430
Slip [%]	2.78	5.33	4.67
Rated torque [kgfm]	0.622	0.767	0.761
Locked rotor torque [%]	270	210	240
Breakdown torque [%]	300	250	280
Service factor		1.15	1.15
Temperature rise	80 K	105 K	80 K
Locked rotor time	37s (cold) 21s (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%	85.2	85.0
	50%	85.5	84.2
	75%	86.5	84.9
	100%	86.5	83.6
Power Factor	25%	0.35	0.37
	50%	0.59	0.62
	75%	0.72	0.75
	100%	0.79	0.82
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 : 52 kgf
Lubrication interval	: -	-	Max. compression : 69 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 4.47A SF 1.00 SFA 4.47A			
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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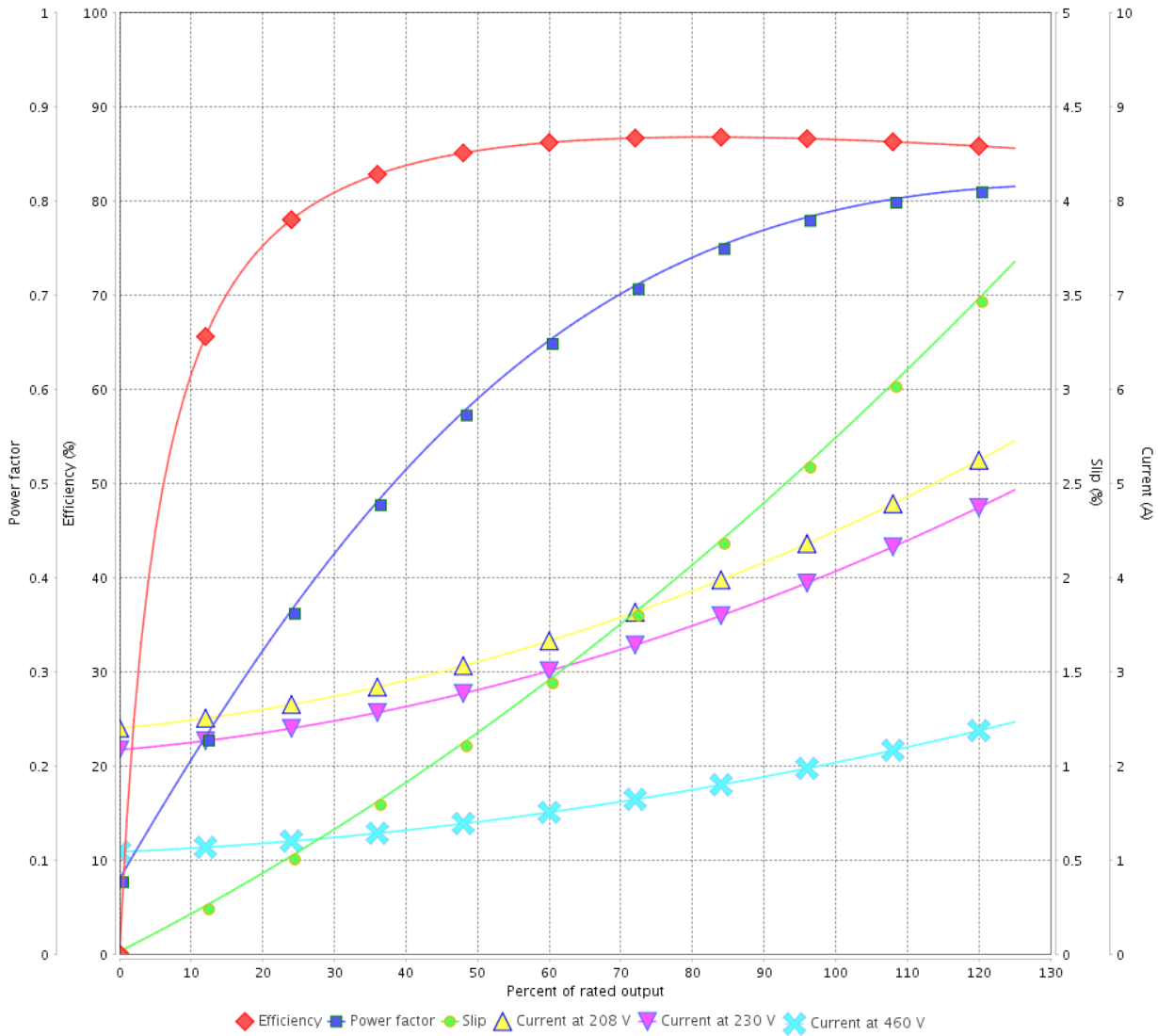
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675399

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Performance : 230/460 V 60 Hz 4P

Rated current : 4.04/2.02 A
 LRC : 8.2
 Rated torque : 0.622 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0046 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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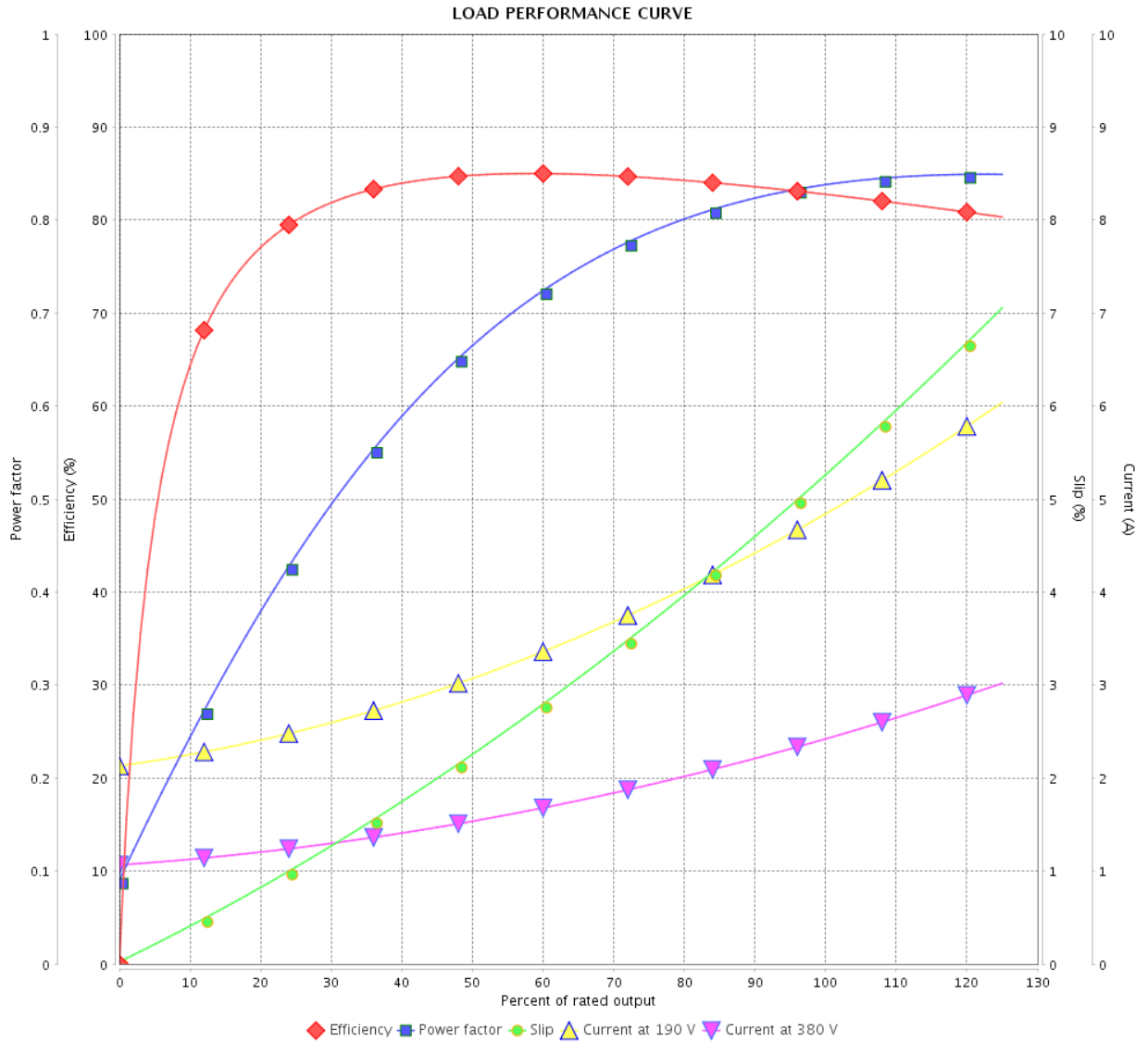
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 190/380 V 50 Hz 4P

Rated current : 4.82/2.41 A
 LRC : 6.1
 Rated torque : 0.767 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1420 rpm

Moment of inertia (J) : 0.0046 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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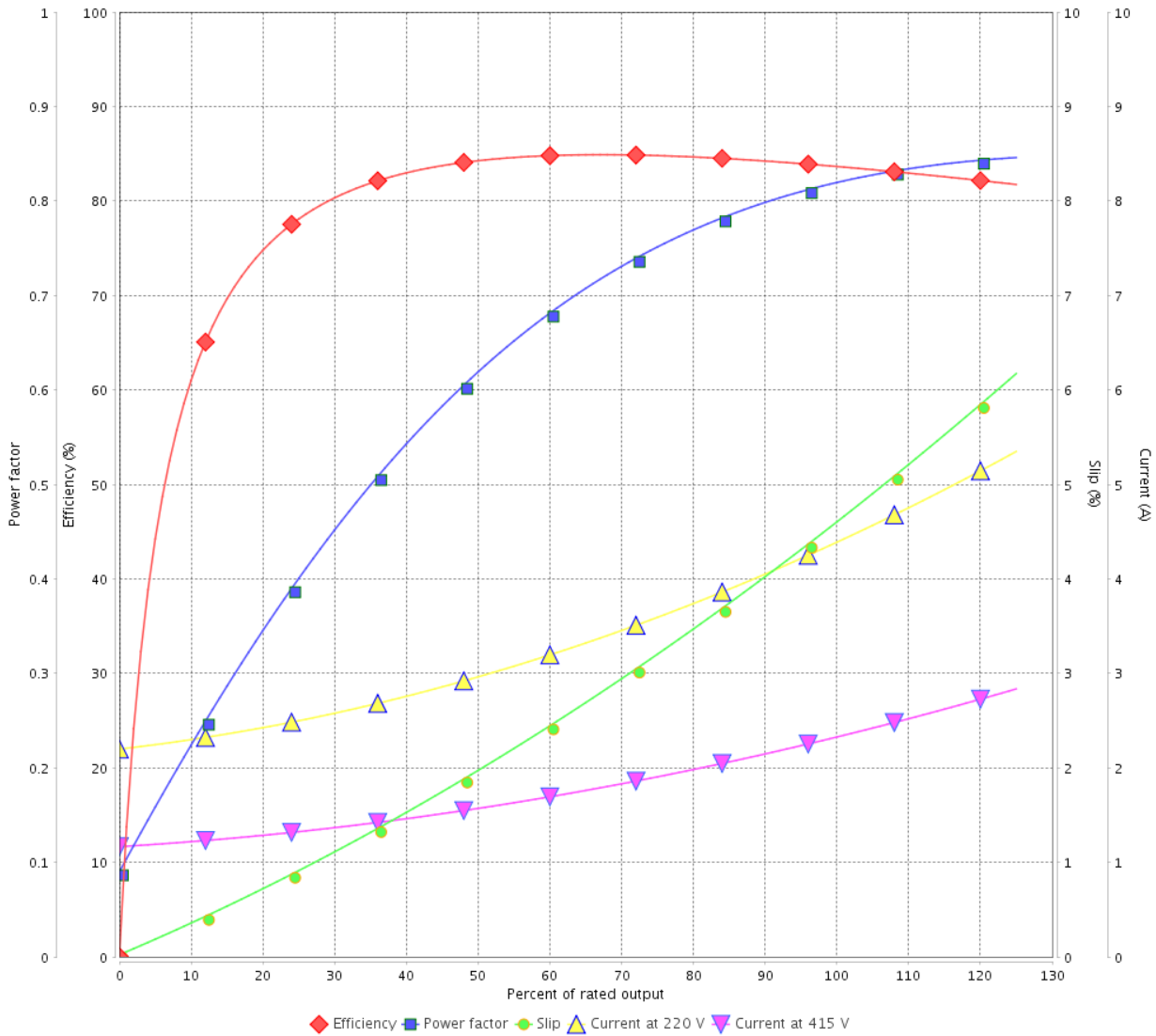
Three Phase Induction Motor - Squirrel Cage



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Performance : 220/415 V 50 Hz 4P

Rated current : 4.38/2.32 A
 LRC : 6.7
 Rated torque : 0.761 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 1430 rpm

Moment of inertia (J) : 0.0046 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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