

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12528465
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	: 19.6 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0055 kgm ²
Design	: B		
Output [HP]	2	2	2
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	5.44/2.72	6.50/3.25	5.89/3.12
L. R. Amperes [A]	44.6/22.3	39.0/19.5	39.4/20.9
LRC [A]	8.2x(Code K)	6.0x(Code H)	6.7x(Code J)
No load current [A]	2.80/1.40	2.75/1.37	2.87/1.52
Rated speed [RPM]	1745	1415	1425
Slip [%]	3.06	5.67	5.00
Rated torque [kgfm]	0.832	1.03	1.02
Locked rotor torque [%]	270	210	240
Breakdown torque [%]	300	240	270
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	27s (cold) 15s (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%	86.0	86.0
	50%	85.5	85.4
	75%	87.5	84.9
	100%	86.5	83.6
Power Factor	25%	0.35	0.38
	50%	0.60	0.64
	75%	0.73	0.76
	100%	0.80	0.83
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 : 68 kgf
Lubrication interval	: -	-	Max. compression : 88 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 6.02A SF 1.00 SFA 6.02A			
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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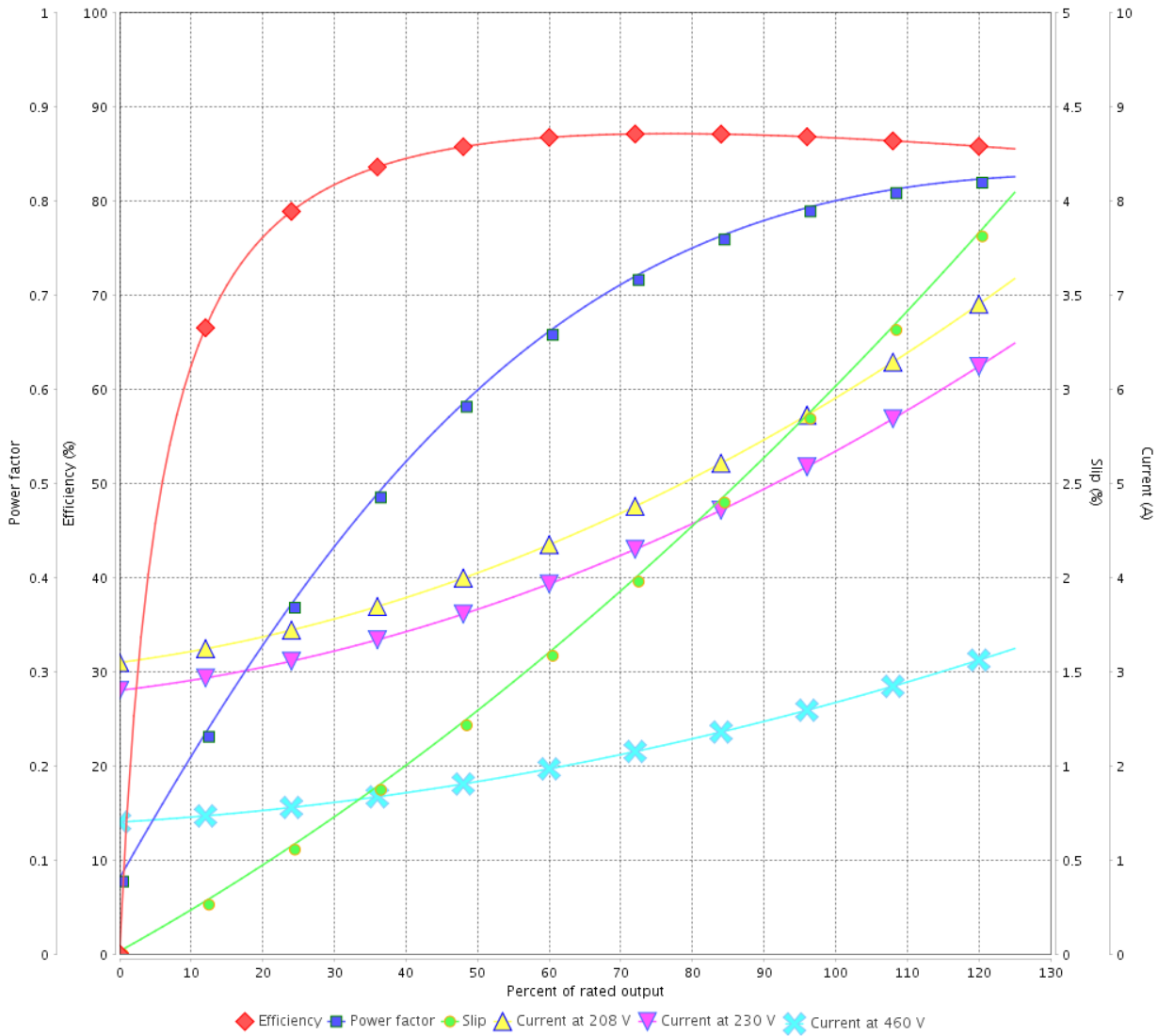
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Customer :

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Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A
 LRC : 8.2
 Rated torque : 0.832 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0055 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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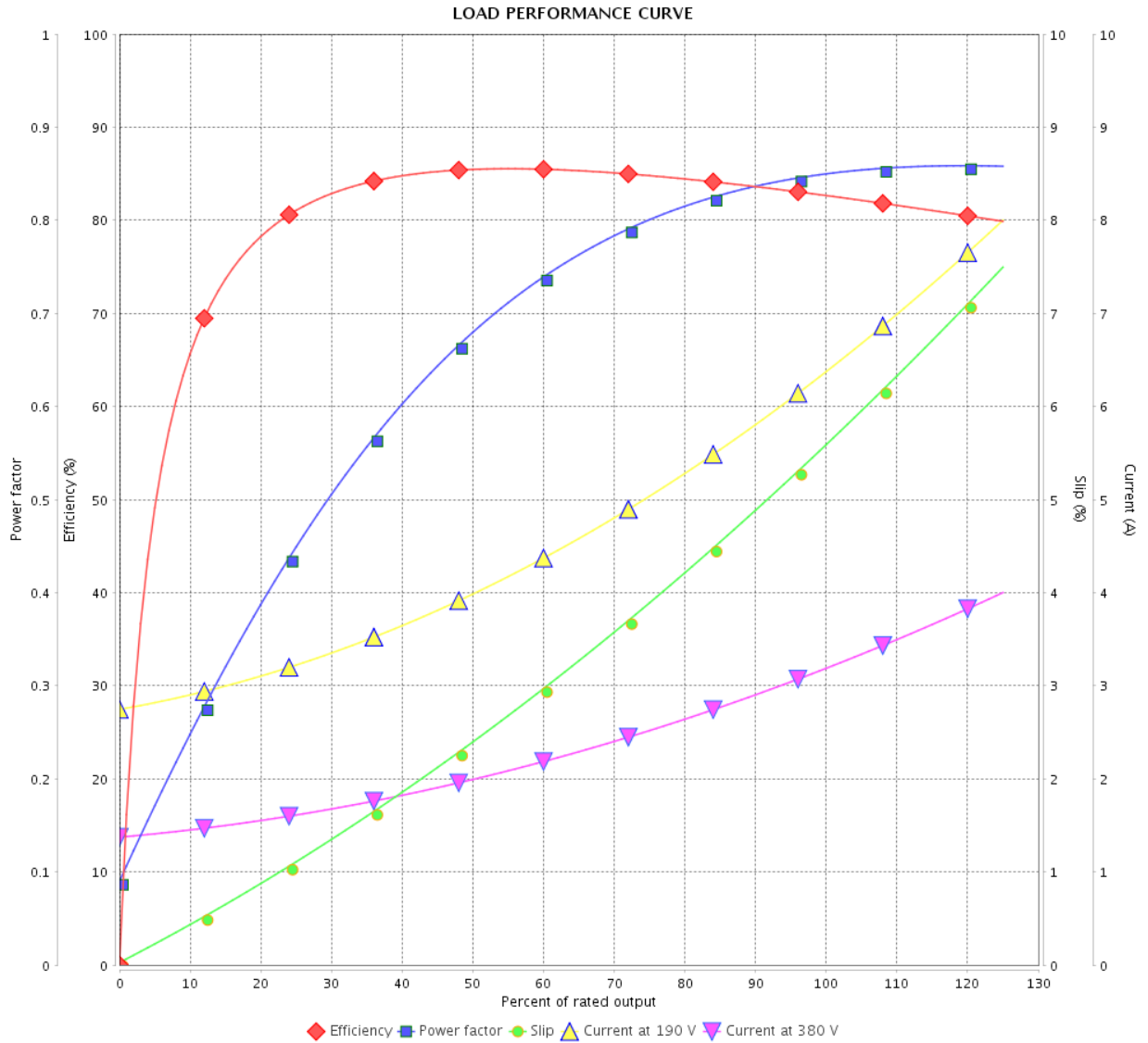
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12528465



Performance : 190/380 V 50 Hz 4P

Rated current : 6.50/3.25 A
 LRC : 6.0
 Rated torque : 1.03 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1415 rpm

Moment of inertia (J) : 0.0055 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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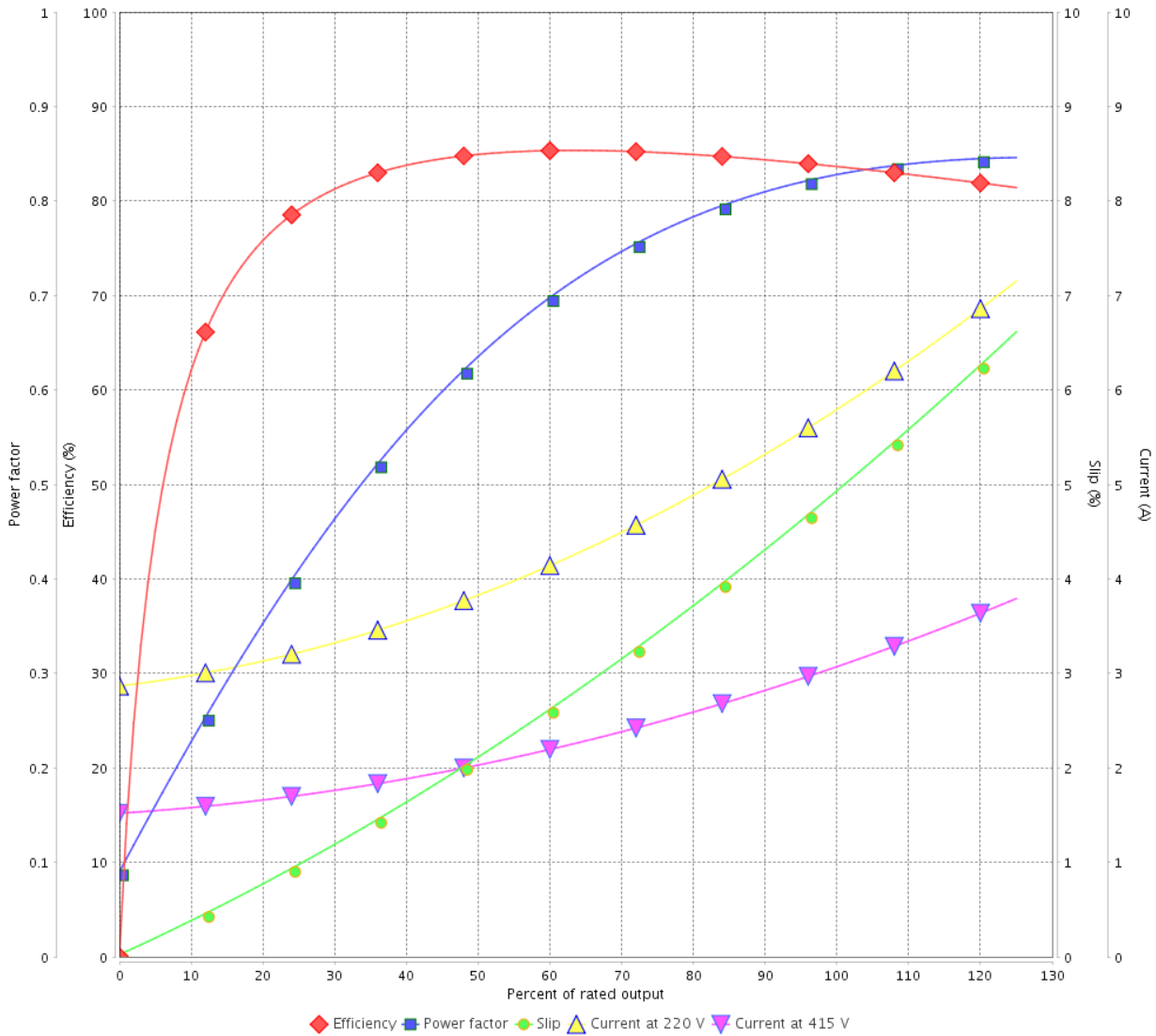
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12528465

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Performance : 220/415 V 50 Hz 4P

Rated current : 5.89/3.12 A
 LRC : 6.7
 Rated torque : 1.02 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 1425 rpm

Moment of inertia (J) : 0.0055 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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