

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13639218	
Frame	: 143/5TC	Cooling method	: IC01 - ODP	
Insulation class	: F	Mounting	: W-6	
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	: 18.8 kg	
Design	: B	Moment of inertia (J)	: 0.0060 kgm ²	
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]	4.14/2.07	4.84/2.42	4.41/2.34	
L. R. Amperes [A]	36.0/18.0	31.0/15.5	30.9/16.4	
LRC [A]	8.7x(Code L)	6.4x(Code H)	7.0x(Code J)	
No load current [A]	2.40/1.20	2.36/1.18	2.41/1.28	
Rated speed [RPM]	1760	1440	1445	
Slip [%]	2.22	4.00	3.67	
Rated torque [kgfm]	0.619	0.756	0.753	
Locked rotor torque [%]	280	190	220	
Breakdown torque [%]	330	250	280	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 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%	83.6	85.3	84.0
	50%	84.0	84.3	83.6
	75%	86.5	84.7	84.8
	100%	86.5	83.2	83.9
Power Factor	25%	0.32	0.38	0.35
	50%	0.56	0.64	0.60
	75%	0.69	0.77	0.73
	100%	0.77	0.83	0.81
Bearing type	: Drive end 6205 ZZ Non drive end 6203 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 50 kgf	
Lubrication interval	: - -	Max. compression	: 69 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 4.58A SF 1.00 SFA 4.58A				
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.		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/05/2022		1 / 4	

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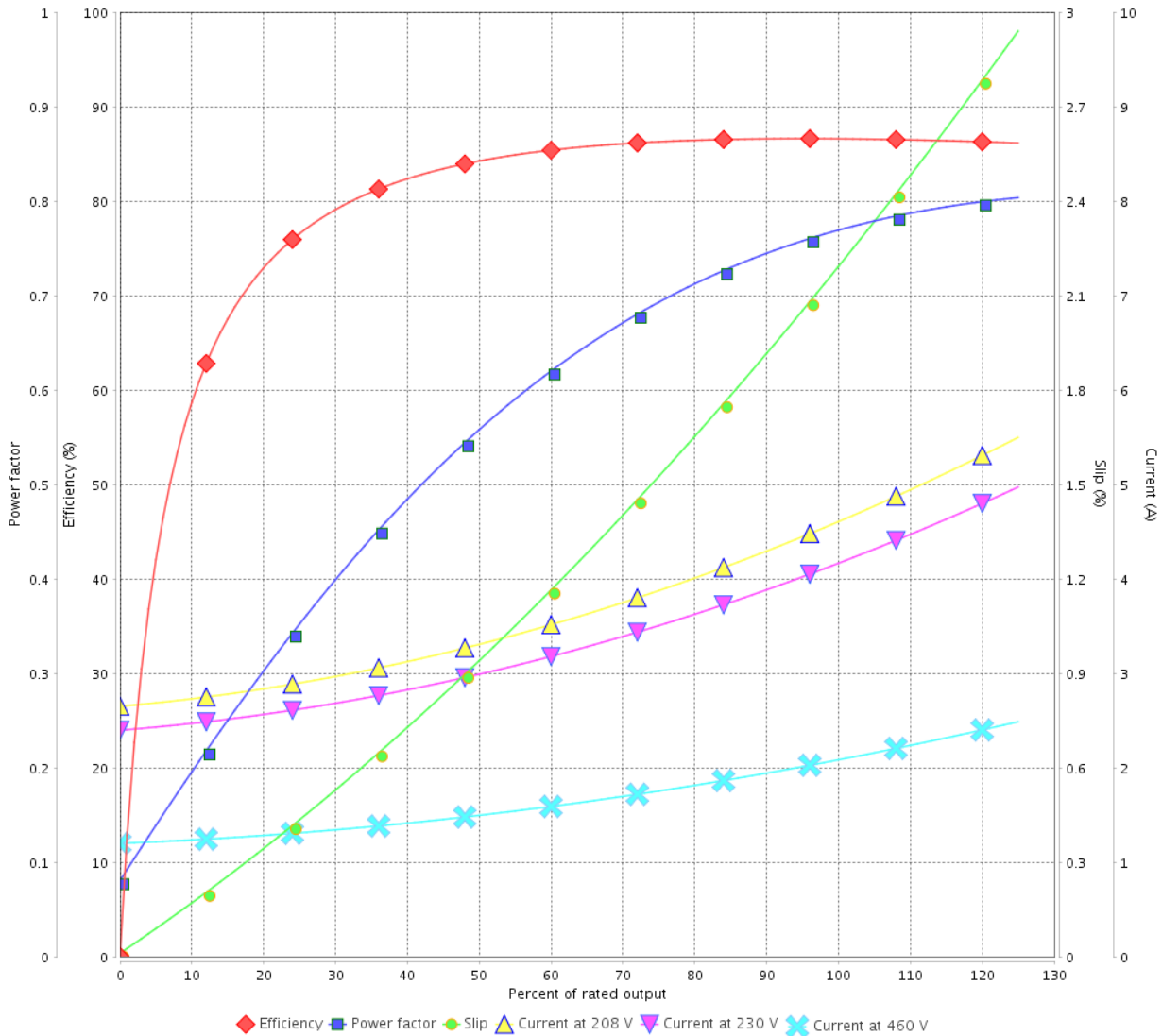
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Performance : 230/460 V 60 Hz 4P

Rated current : 4.14/2.07 A
 LRC : 8.7
 Rated torque : 0.619 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 330 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0060 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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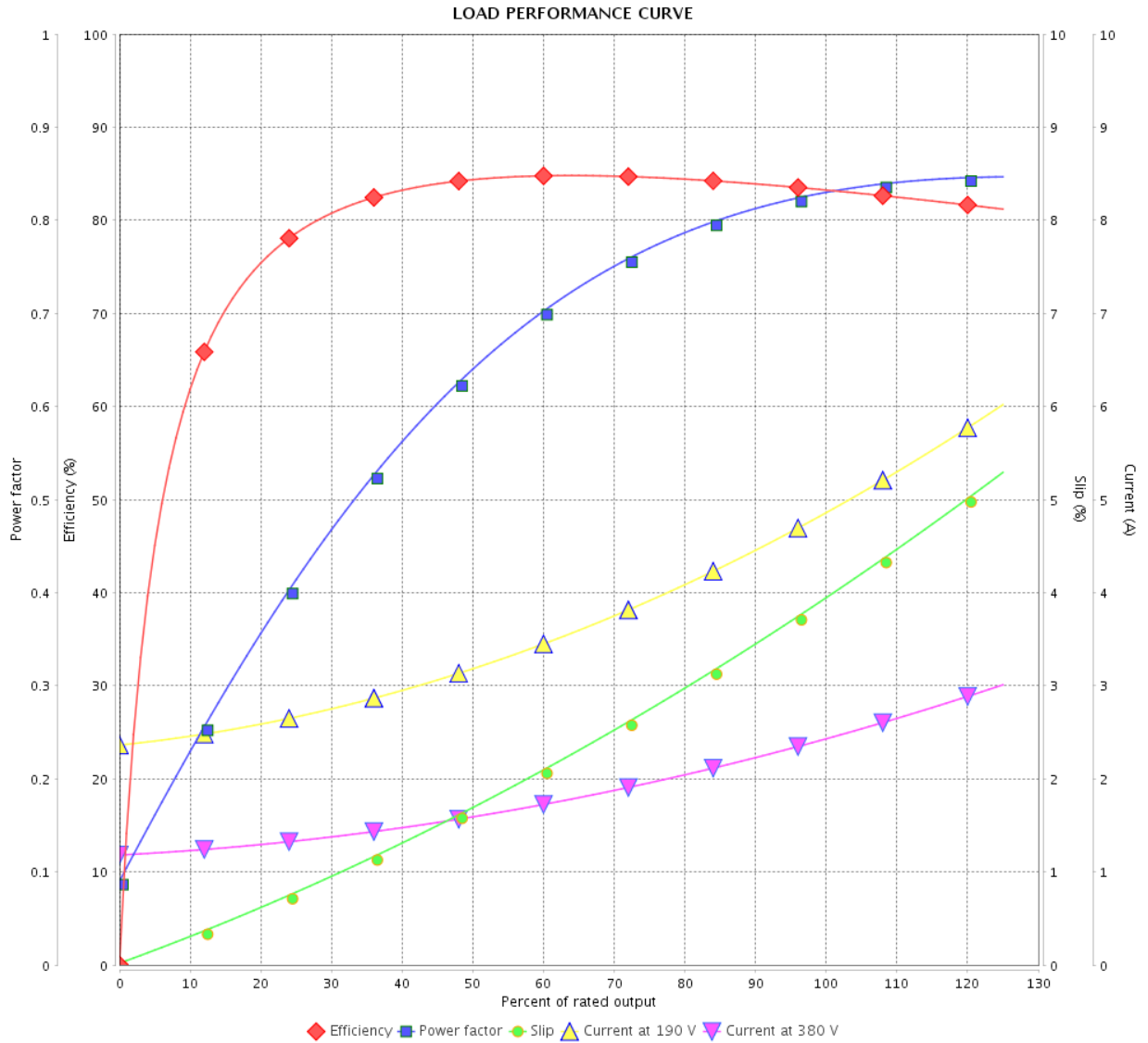
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 4P

Rated current : 4.84/2.42 A
 LRC : 6.4
 Rated torque : 0.756 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 250 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0060 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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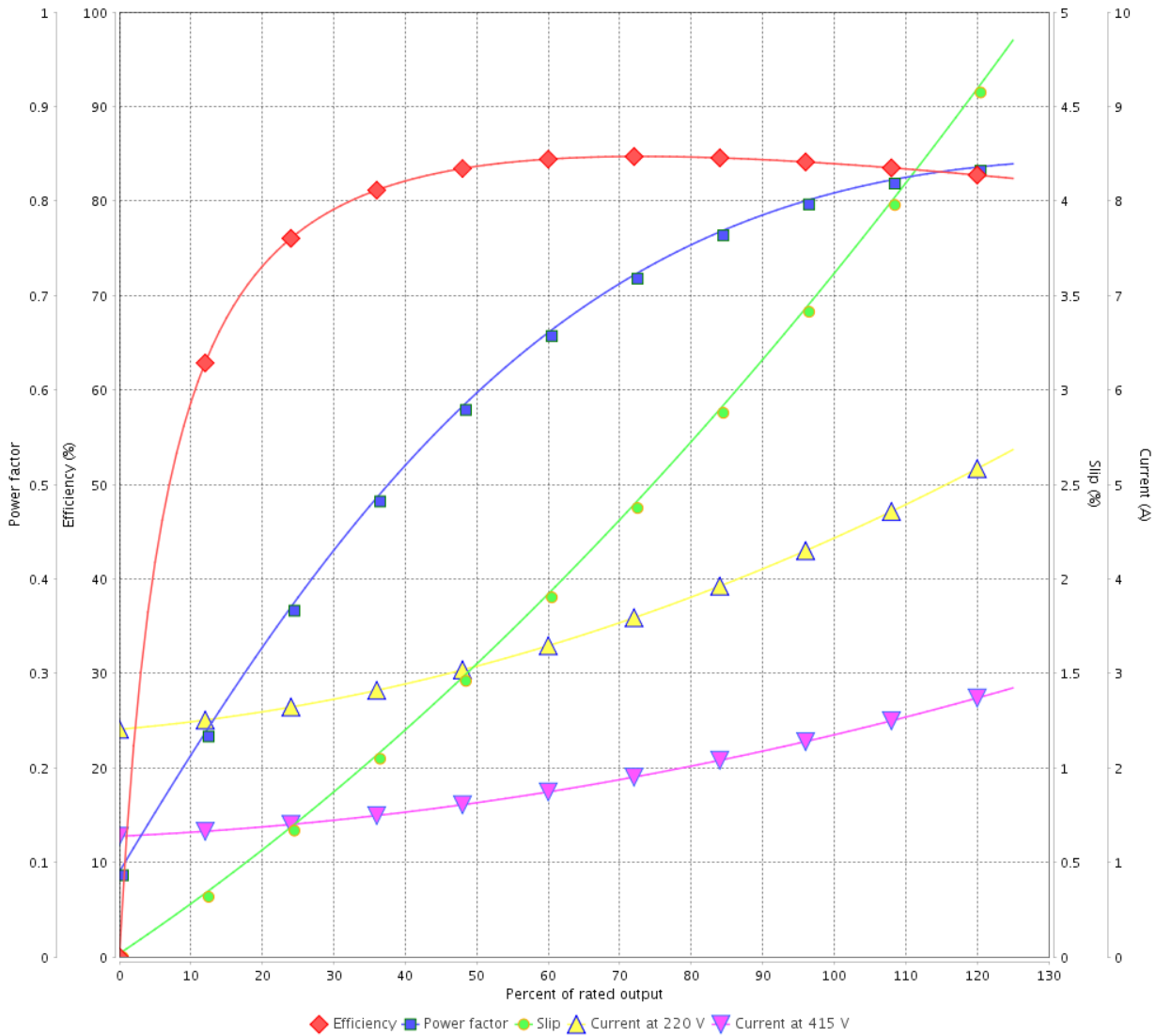
Three Phase Induction Motor - Squirrel Cage



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Performance : 220/415 V 50 Hz 4P

Rated current : 4.41/2.34 A
 LRC : 7.0
 Rated torque : 0.753 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 280 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0060 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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