

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	14137815	
Frame	: 213/5TC	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	: 57.6 kg	
Design	: B	Moment of inertia (J)	: 0.0546 kgm ²	
Output [HP]	10	10	10	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	24.8/12.4	29.8/14.9	27.2/14.4	
L. R. Amperes [A]	174/86.8	191/95.4	193/102	
LRC [A]	7.0x(Code H)	6.4x(Code G)	7.1x(Code H)	
No load current [A]	12.0/5.99	11.8/5.89	12.2/6.45	
Rated speed [RPM]	1770	1460	1465	
Slip [%]	1.67	2.67	2.33	
Rated torque [kgfm]	4.10	4.97	4.95	
Locked rotor torque [%]	250	200	220	
Breakdown torque [%]	350	250	280	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	25s (cold) 14s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%	89.4	91.4	90.4
	50%	90.2	90.1	89.6
	75%	91.0	89.7	89.8
	100%	91.7	88.1	88.7
Power Factor	25%	0.38	0.45	0.41
	50%	0.64	0.72	0.68
	75%	0.77	0.82	0.80
	100%	0.83	0.87	0.85
Bearing type	: Drive end 6208 ZZ Non drive end 6206 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 228 kgf	
Lubrication interval	: - -	Max. compression	: 285 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 27.4A SF 1.00 SFA 27.4A				
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
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Checked by			Page	Revision
Date	13/05/2022		1 / 4	

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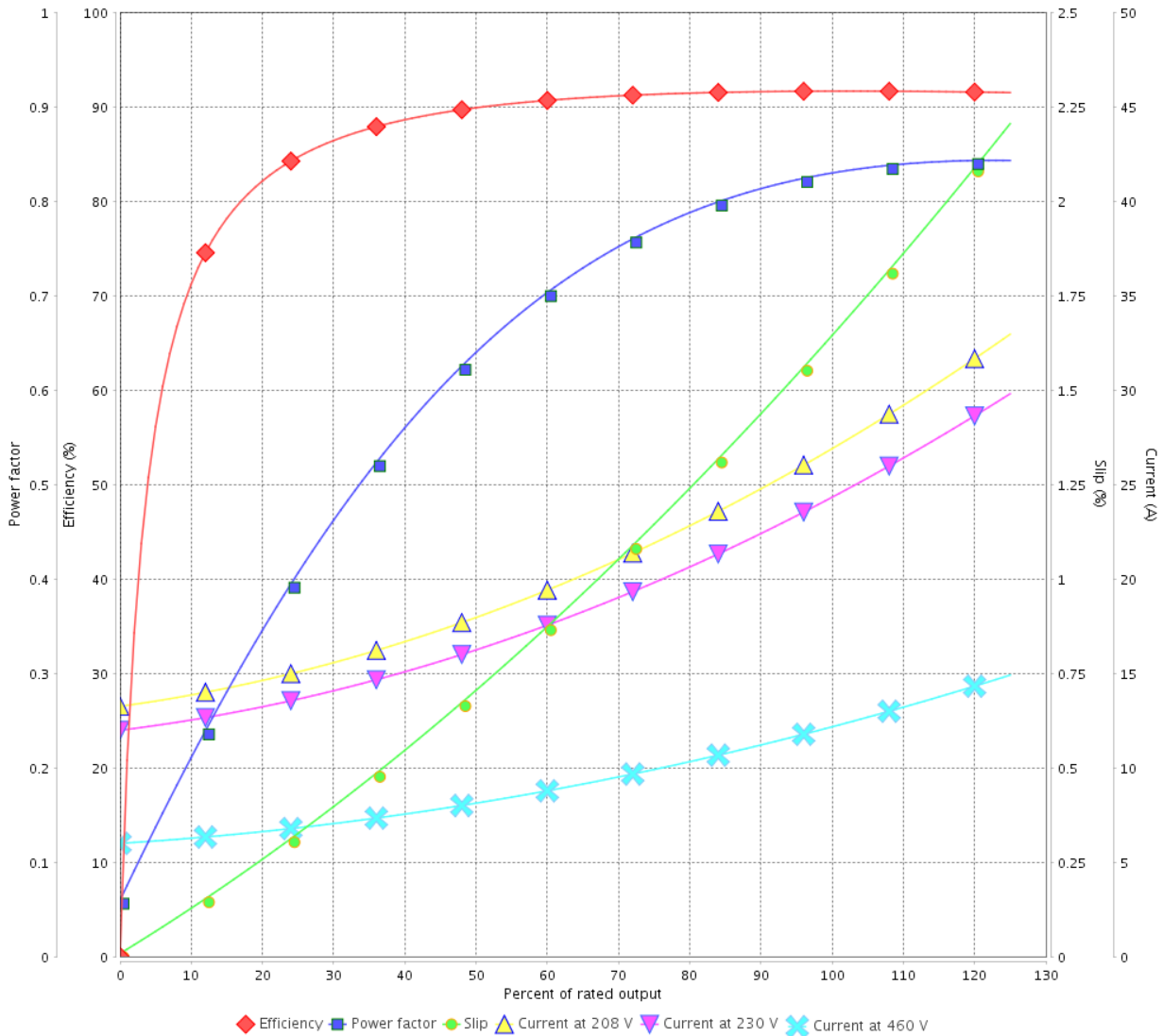
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 14137815

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Performance : 230/460 V 60 Hz 4P

Rated current : 24.8/12.4 A
 LRC : 7.0
 Rated torque : 4.10 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 350 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.0546 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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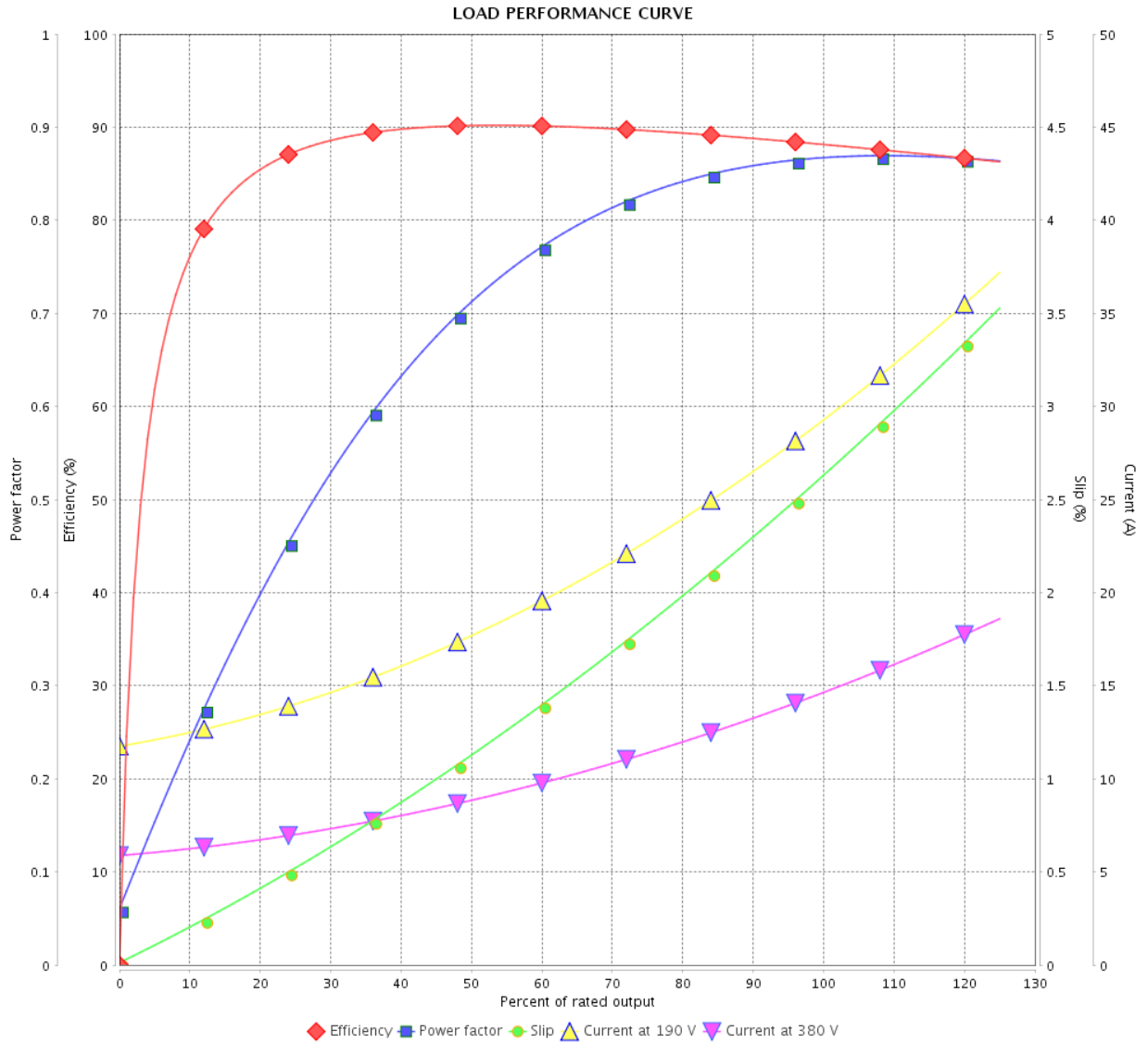
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 14137815



Performance : 190/380 V 50 Hz 4P

Rated current : 29.8/14.9 A
 LRC : 6.4
 Rated torque : 4.97 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0546 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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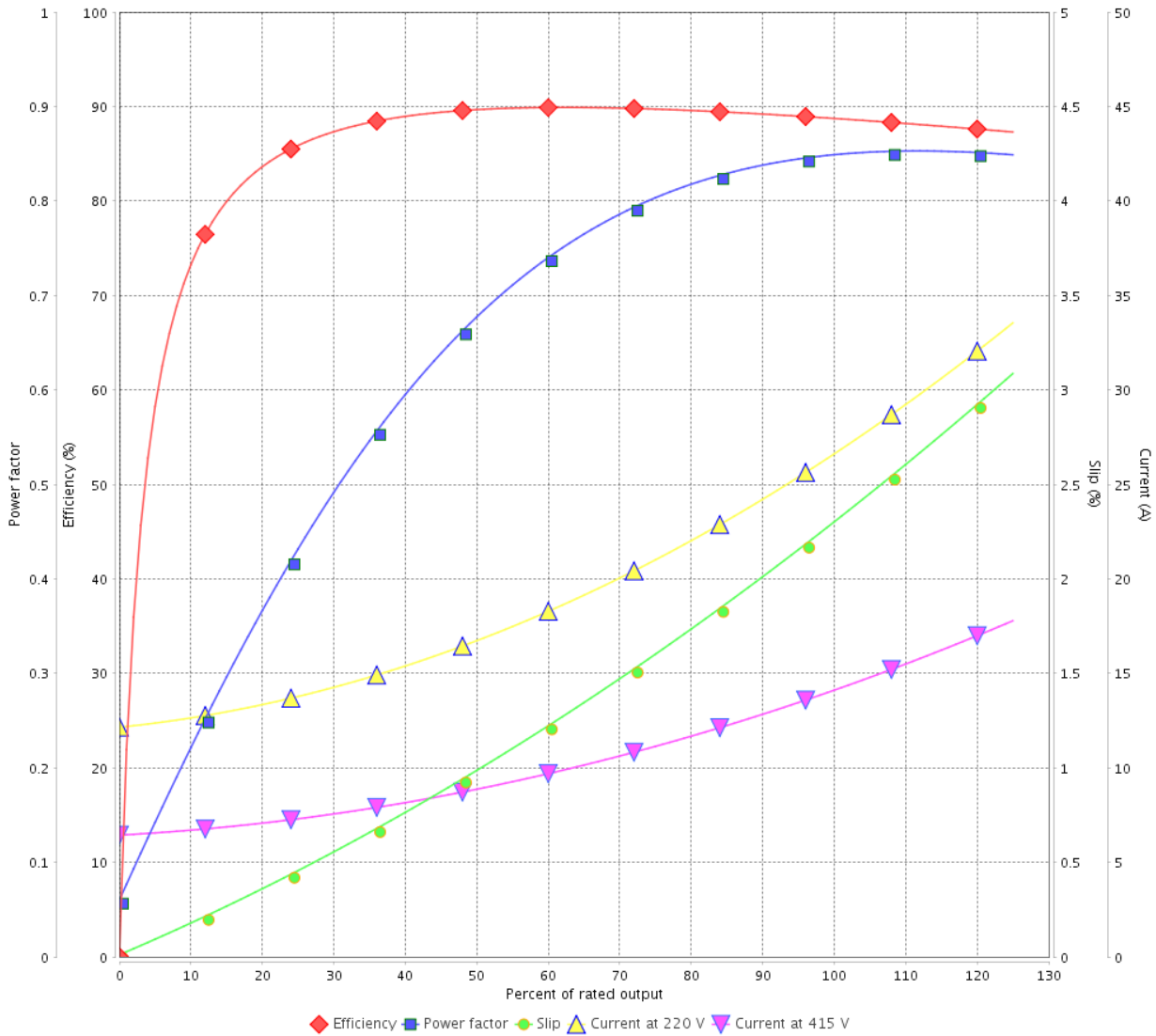
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 14137815

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Performance : 220/415 V 50 Hz 4P

Rated current : 27.2/14.4 A
 LRC : 7.1
 Rated torque : 4.95 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 280 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.0546 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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