

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: General NEMA Premium Efficiency Three-Phase		Product code :	11166001
Frame	: E143/5T	Cooling method	: IC01 - ODP		
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	: 16.9 kg		
Protection degree	: IP21	Moment of inertia (J)	: 0.0052 kgm ²		
Design	: B				
Output [HP]	1	1	1	1	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	2.90/1.45	1.70	1.60	1.58	
L. R. Amperes [A]	23.2/11.6	11.2	10.6	10.4	
LRC [A]	8.0x(Code L)	6.6x(Code J)	6.6x(Code J)	6.6x(Code J)	
No load current [A]	2.00/1.00	0.850	0.900	0.950	
Rated speed [RPM]	1730	1420	1420	1420	
Slip [%]	3.89	5.33	5.33	5.33	
Rated torque [kgfm]	0.419	0.511	0.511	0.511	
Locked rotor torque [%]	320	250	270	290	
Breakdown torque [%]	330	270	290	310	
Service factor		1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level ²	50.0 dB(A)				
Efficiency (%)	25%				
	50%	82.5	81.5	81.5	81.5
	75%	85.5	84.0	82.0	82.0
	100%	85.5	82.5	82.5	82.5
Power Factor	25%				
	50%	0.54	0.65	0.63	0.61
	75%	0.68	0.77	0.75	0.73
	100%	0.76	0.84	0.82	0.80
Bearing type	: <u>Drive end</u> 6205 ZZ	<u>Non drive end</u> 6204 ZZ	Foundation loads		
Sealing	: Without	Without	Max. traction	: 36 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 53 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes					
USABLE @208V 3.00A SF 1.00 SFA 3.00A					
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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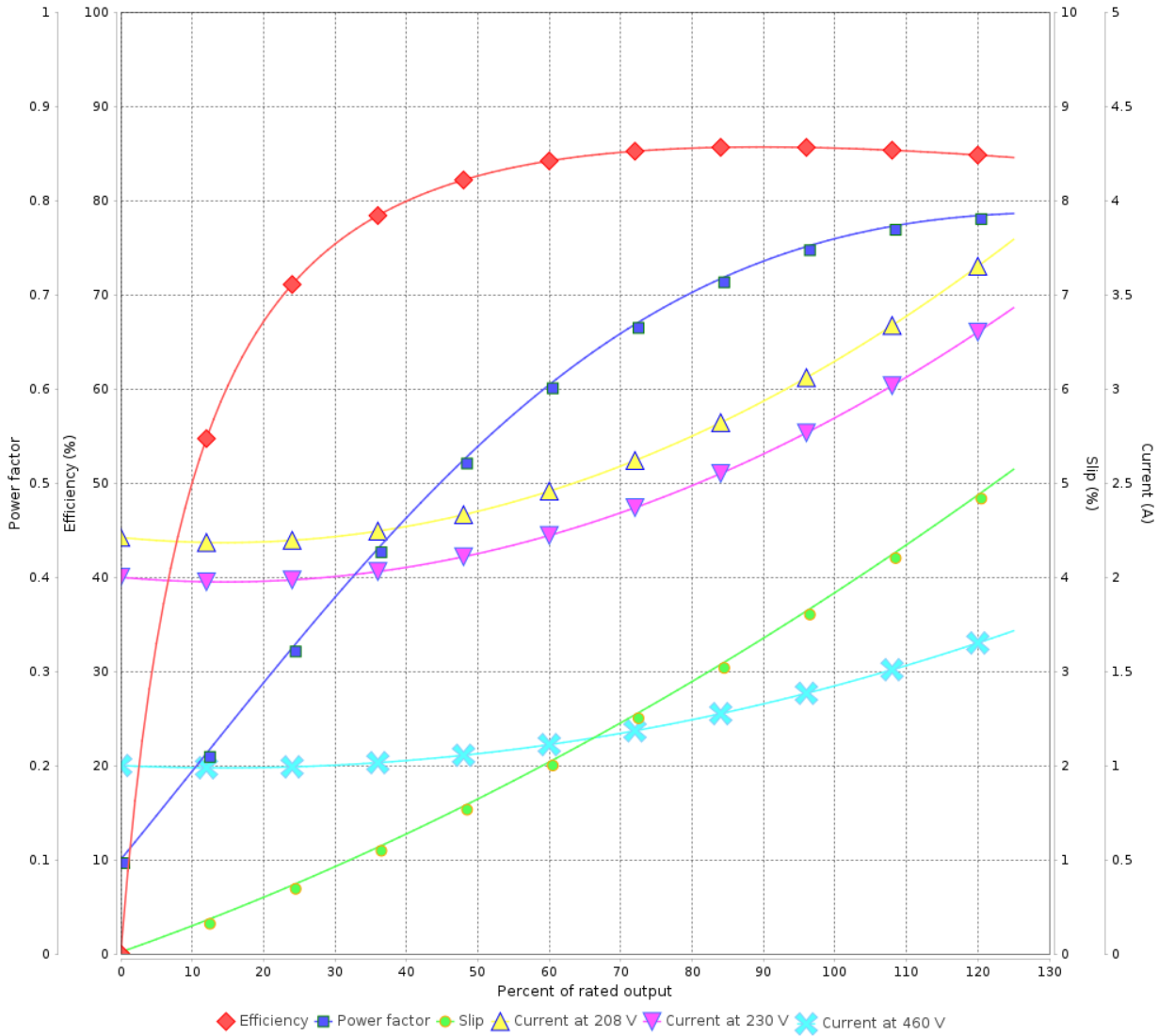
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Performance : 230/460 V 60 Hz 4P

Rated current : 2.90/1.45 A
 LRC : 8.0
 Rated torque : 0.419 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 330 %
 Rated speed : 1730 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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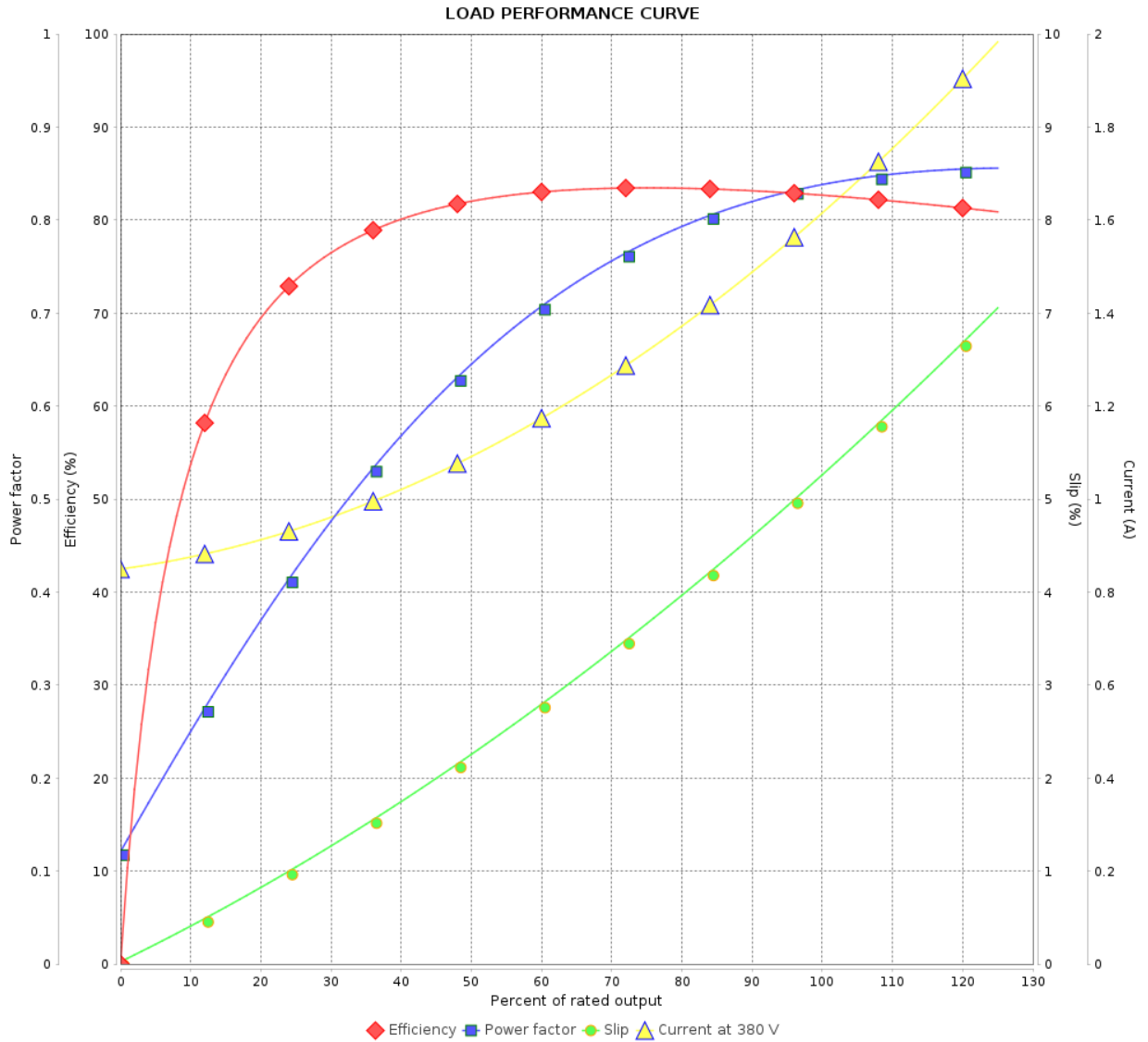
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 380 V 50 Hz 4P IE3

Rated current	: 1.70 A	Moment of inertia (J)	: 0.0052 kgm ²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.511 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1420 rpm	Design	: B

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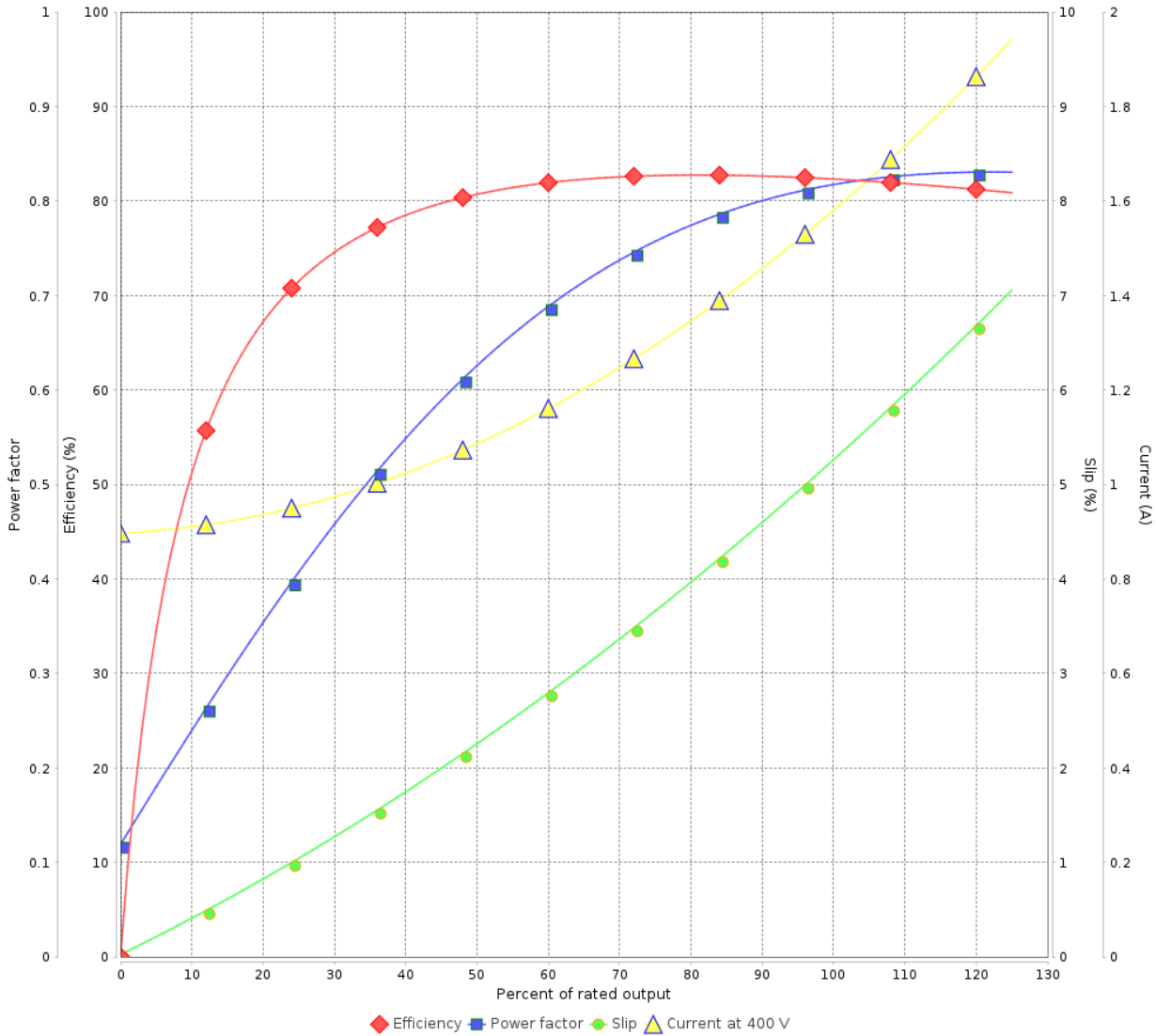
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 400 V 50 Hz 4P IE3

Rated current	: 1.60 A	Moment of inertia (J)	: 0.0052 kgm ²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.511 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1420 rpm	Design	: B

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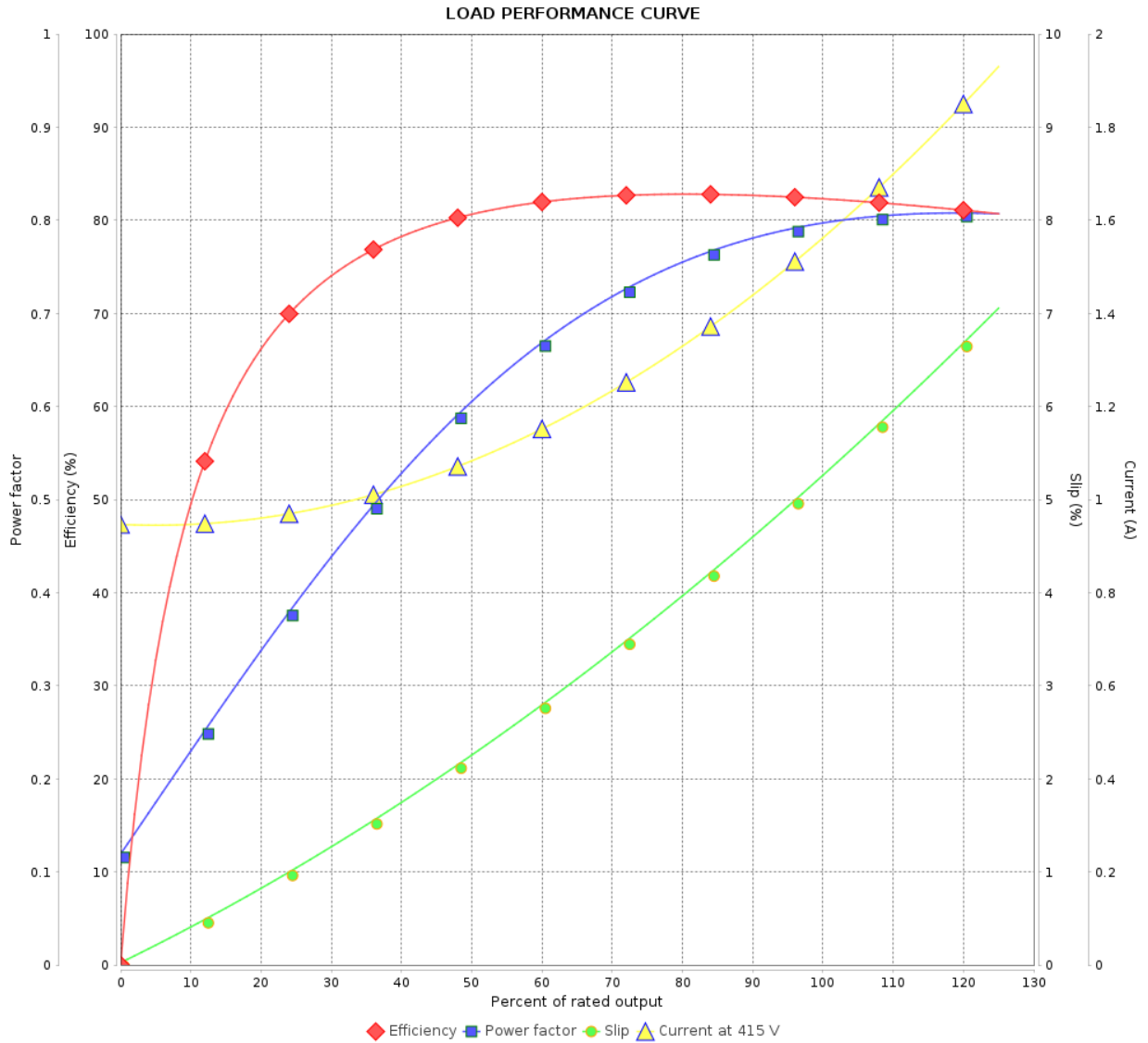
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 415 V 50 Hz 4P IE3

Rated current : 1.58 A	Moment of inertia (J) : 0.0052 kgm ²
LRC : 6.6	Duty cycle : Cont.(S1)
Rated torque : 0.511 kgfm	Insulation class : F
Locked rotor torque : 290 %	Service factor : 1.15
Breakdown torque : 310 %	Temperature rise : 80 K
Rated speed : 1420 rpm	Design : B

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