

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :			
Product line	: Premium Efficiency Three-Phase	Product code :	14338081
Frame	: W56C	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 ²	: 7.6 kg
		Moment of inertia (J)	: 0.0008 kgm ²
Output [HP]	1	1	1
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	2.94/1.47	3.52-3.04/1.76	1.72
L. R. Amperes [A]	20.6/10.3	17.6-15.2/8.80	9.80
LRC [A]	7.0x(Code K)	5.0x(Code G)	5.7x(Code H)
No load current [A]	1.76/0.879	1.70-1.47/0.849	1.17
Rated speed [RPM]	3420	2715	2770
Slip [%]	5.00	9.50	7.67
Rated torque [kgfm]	0.212	0.267	0.262
Locked rotor torque [%]	310	220	280
Breakdown torque [%]	330	210	260
Service factor		1.25	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	23s (cold) 13s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	74.0	71.0
	75%	75.5	72.0
	100%	77.0	72.0
Power Factor	25%		
	50%	0.61	0.71
	75%	0.74	0.83
	100%	0.83	0.90
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads	
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction	: 18 kgf
		Max. compression	: 25 kgf
Lubrication interval	: -		
Lubricant amount	: -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 3.25A SF 1.00 SFA 3.25A			
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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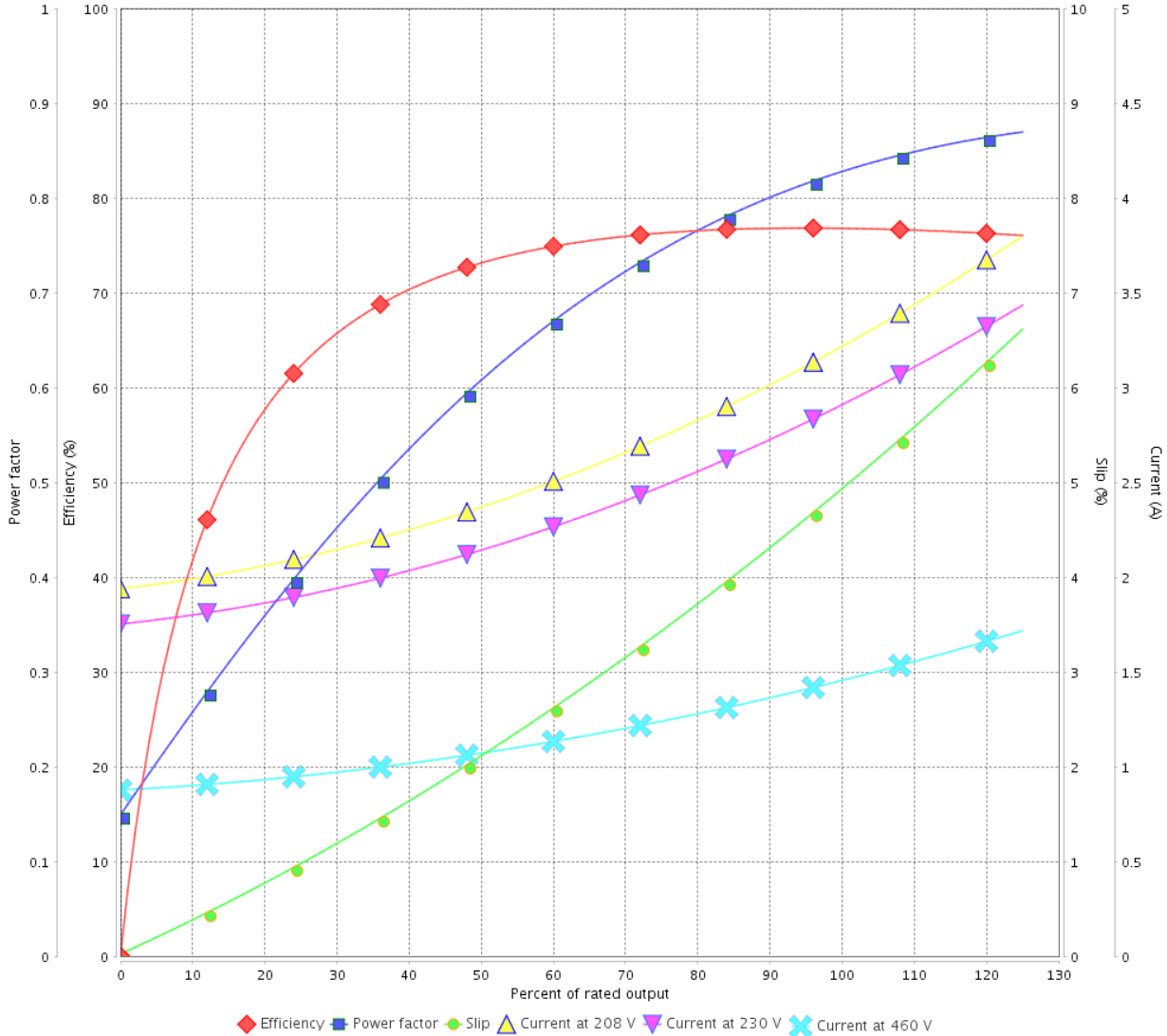
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Performance : 230/460 V 60 Hz 2P

Rated current : 2.94/1.47 A
 LRC : 7.0
 Rated torque : 0.212 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 330 %
 Rated speed : 3420 rpm

Moment of inertia (J) : 0.0008 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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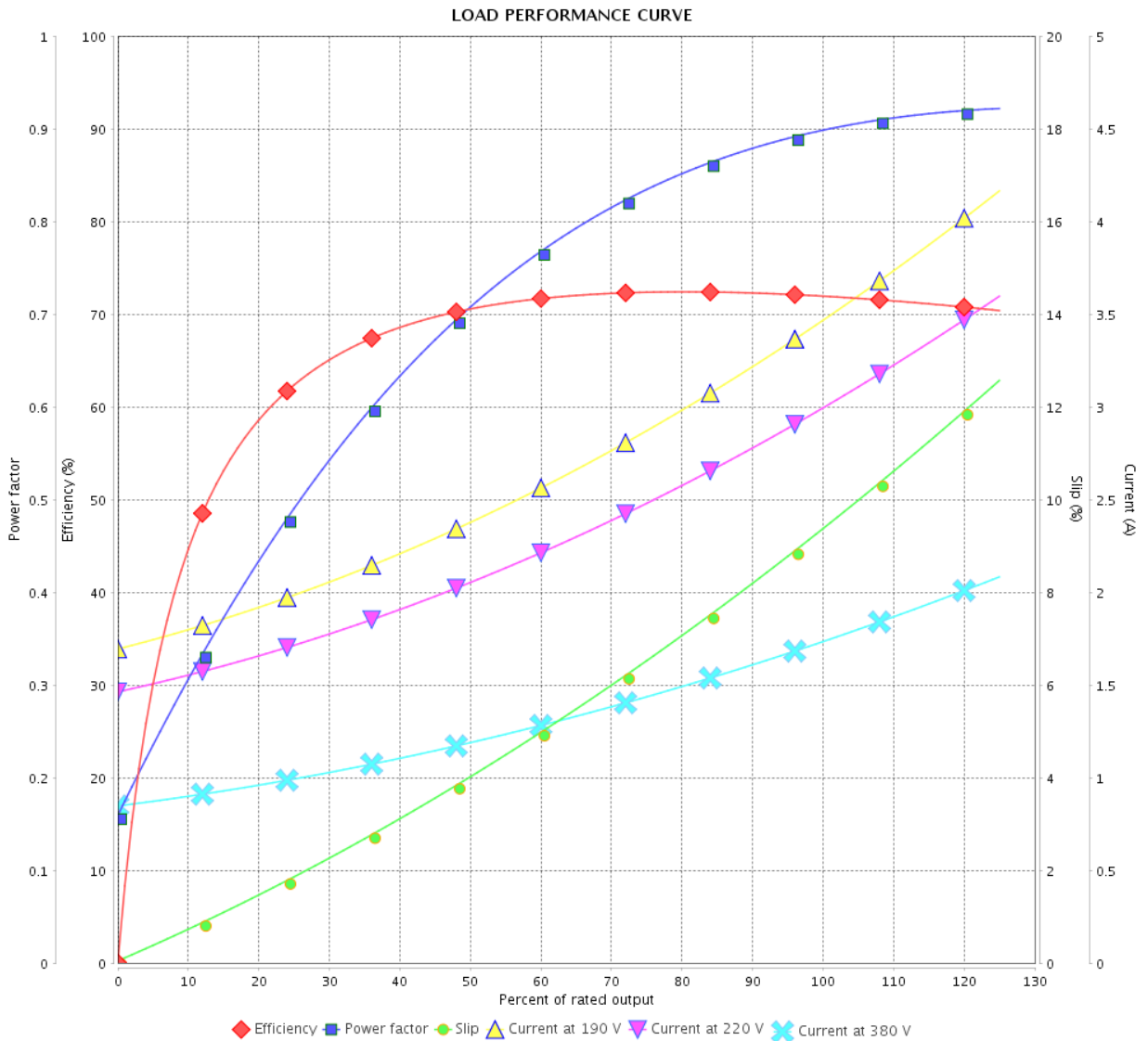
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190-220/380 V 50 Hz 2P

Rated current : 3.52-3.04/1.76 A
 LRC : 5.0
 Rated torque : 0.267 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 210 %
 Rated speed : 2715 rpm

Moment of inertia (J) : 0.0008 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 105 K

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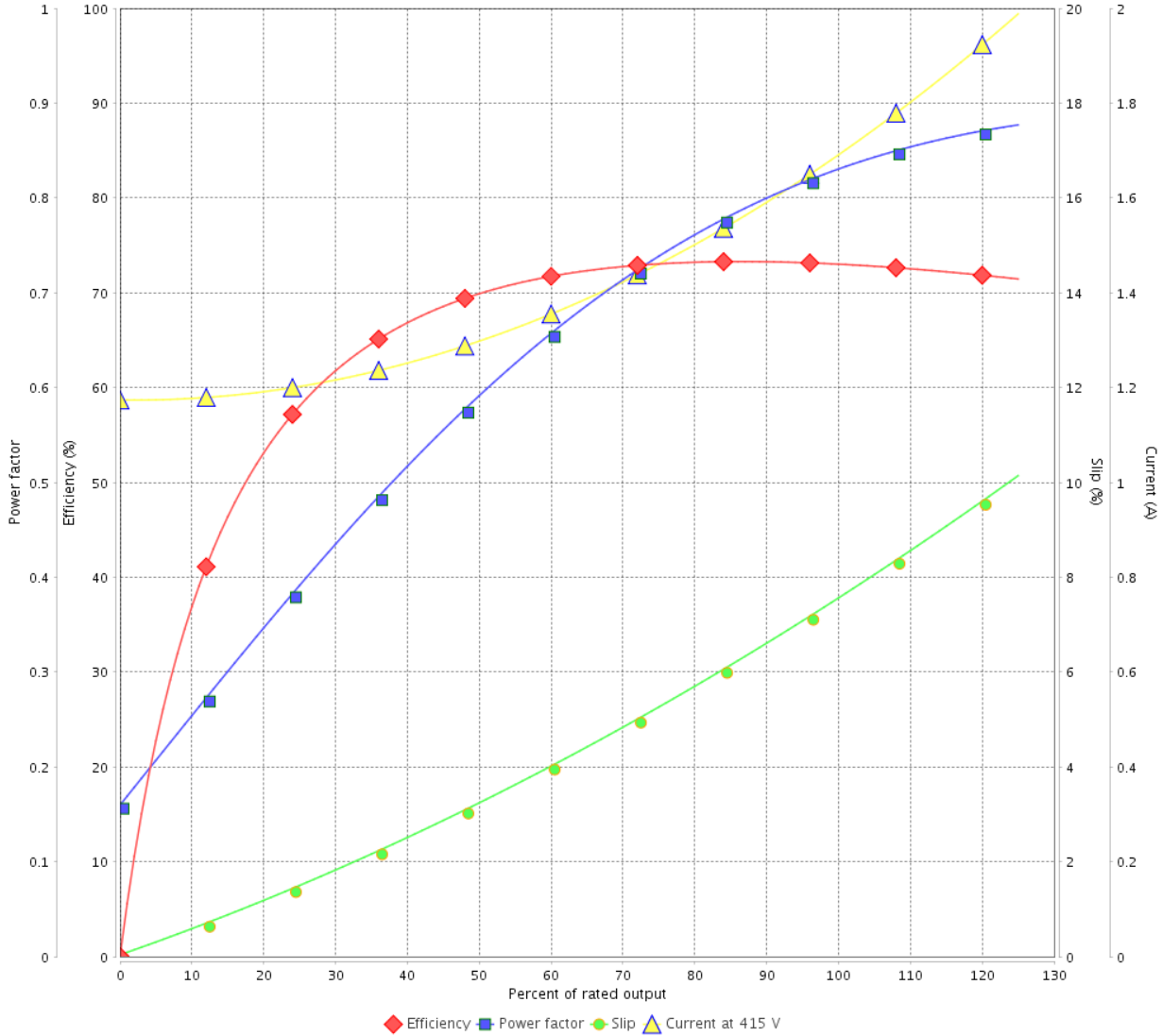
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Performance : 415 V 50 Hz 2P

Rated current : 1.72 A
 LRC : 5.7
 Rated torque : 0.262 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 260 %
 Rated speed : 2770 rpm

Moment of inertia (J) : 0.0008 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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