

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Three-Phase		Product code : 13702964		
Frame : 56	Insulation class : F	Cooling method : IC411 - TEFC	Mounting : F-1	
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation ¹ : Both (CW and CCW)	Starting method : Direct On Line	
Altitude : 1000 m.a.s.l.	Protection degree : IP55	Approx. weight ² : 14.8 kg	Moment of inertia (J) : 0.0043 kgm ²	
Design : B				
Output [HP]	1.5	1.5	1.5	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	3.74/1.87	4.44/2.22	3.90/2.07	
L. R. Amperes [A]	34.0/17.0	32.0/16.0	33.2/17.6	
LRC [A]	9.1x(Code L)	7.2x(Code H)	8.5x(Code K)	
No load current [A]	1.72/0.859	1.69/0.845	1.83/0.971	
Rated speed [RPM]	3520	2895	2915	
Slip [%]	2.22	3.50	2.83	
Rated torque [kgfm]	0.309	0.376	0.373	
Locked rotor torque [%]	229	190	240	
Breakdown torque [%]	300	280	330	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)	
Efficiency (%)	25%			
	50%	80.0	82.6	81.7
	75%	82.5	83.8	84.0
	100%	84.0	82.9	83.9
Power Factor	25%			
	50%	0.71	0.77	0.70
	75%	0.82	0.87	0.82
	100%	0.88	0.91	0.88
Bearing type	: Drive end 6204 ZZ	Non drive end 6202 ZZ	Foundation loads	
Sealing	: V'Ring	V'Ring	Max. traction : 32 kgf	
Lubrication interval	: -	-	Max. compression : 47 kgf	
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 4.13A SF 1.00 SFA 4.13A				
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
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Three Phase Induction Motor - Squirrel Cage

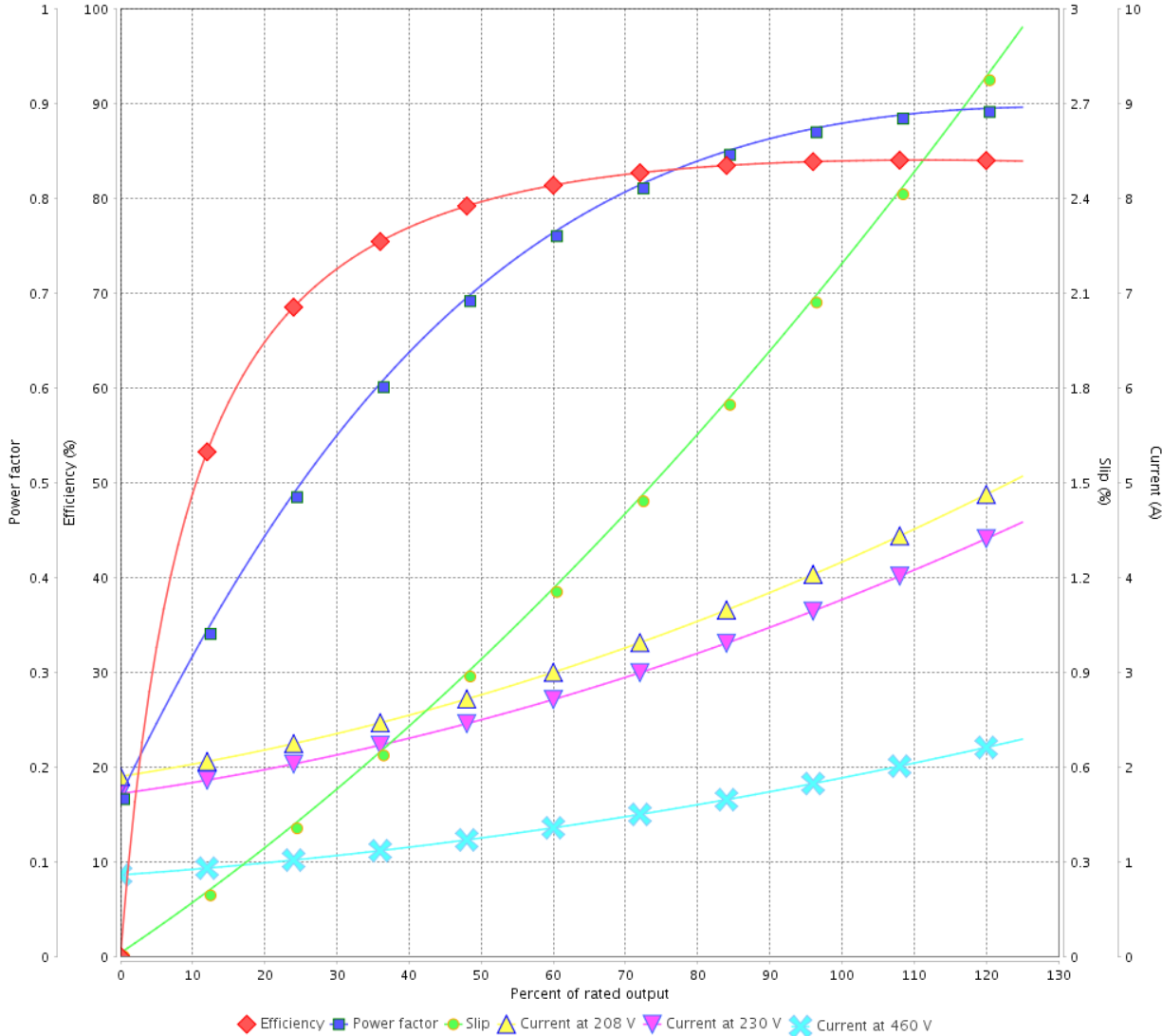


Customer :

Product line : Three-Phase

Product code : 13702964

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Performance : 230/460 V 60 Hz 2P

Rated current : 3.74/1.87 A
 LRC : 9.1
 Rated torque : 0.309 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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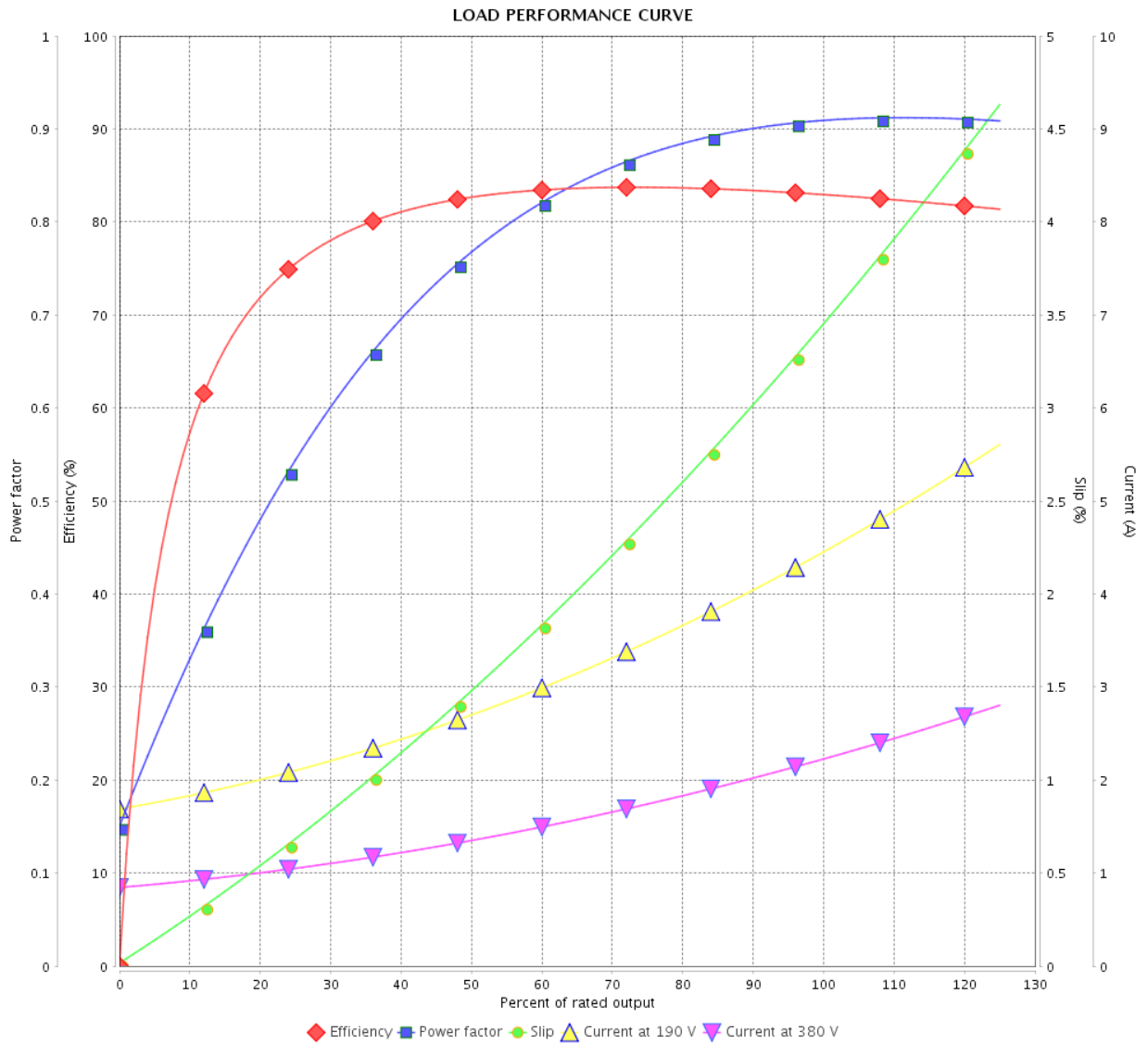
Three Phase Induction Motor - Squirrel Cage



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Performance : 190/380 V 50 Hz 2P

Rated current : 4.44/2.22 A
 LRC : 7.2
 Rated torque : 0.376 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 280 %
 Rated speed : 2895 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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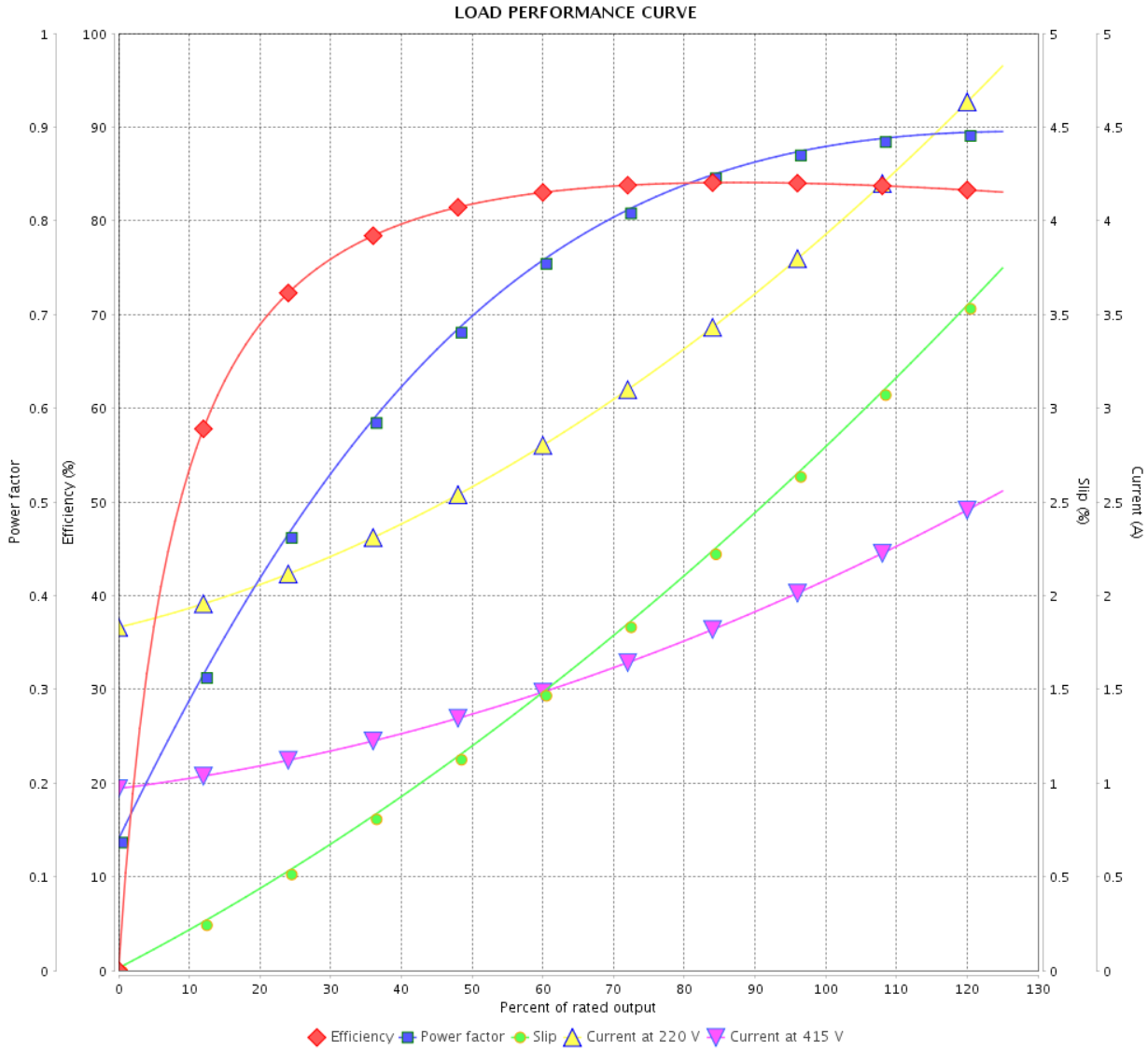
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 220/415 V 50 Hz 2P

Rated current : 3.90/2.07 A
 LRC : 8.5
 Rated torque : 0.373 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 330 %
 Rated speed : 2915 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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