

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : Three-Phase		Product code : 13910561			
Frame : W56C	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 : 7.3 kg	Moment of inertia (J) : 0.0006 kgm ²		
Output [HP]	0.33	0.33	0.33		
Poles	2	2	2		
Frequency [Hz]	60	50	50		
Rated voltage [V]	208-230/460	190/380	220/415		
Rated current [A]	1.30-1.15/0.573	1.29/0.646	1.18/0.624		
L. R. Amperes [A]	9.27-8.14/4.07	7.24/3.62	7.42/3.93		
LRC [A]	7.1x(Code L)	5.6x(Code J)	6.3x(Code K)		
No load current [A]	0.610-0.708/0.354	0.692/0.346	0.751/0.398		
Rated speed [RPM]	3450	2800	2830		
Slip [%]	4.17	6.67	5.67		
Rated torque [kgfm]	0.069	0.086	0.085		
Locked rotor torque [%]	320	240	290		
Breakdown torque [%]	370	260	310		
Service factor		1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	50s (cold) 28s (hot)	50s (cold) 28s (hot)	43s (cold) 24s (hot)		
Noise level ²	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)		
Efficiency (%)	25%				
	50%	59.5	65.8	64.3	
	75%	66.0	70.6	70.2	
	100%	72.0	71.7	72.4	
Power Factor	25%				
	50%	0.61	0.66	0.58	
	75%	0.71	0.77	0.70	
	100%	0.76	0.82	0.77	
Bearing type	: Drive end 6203 ZZ	Non drive end 6202 ZZ	Foundation loads		
Sealing	: V'Ring	V'Ring	Max. traction : 4 kgf		
Lubrication interval	: -	-	Max. compression : 12 kgf		
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V SF 1.00					
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	11/05/2022			1 / 4	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

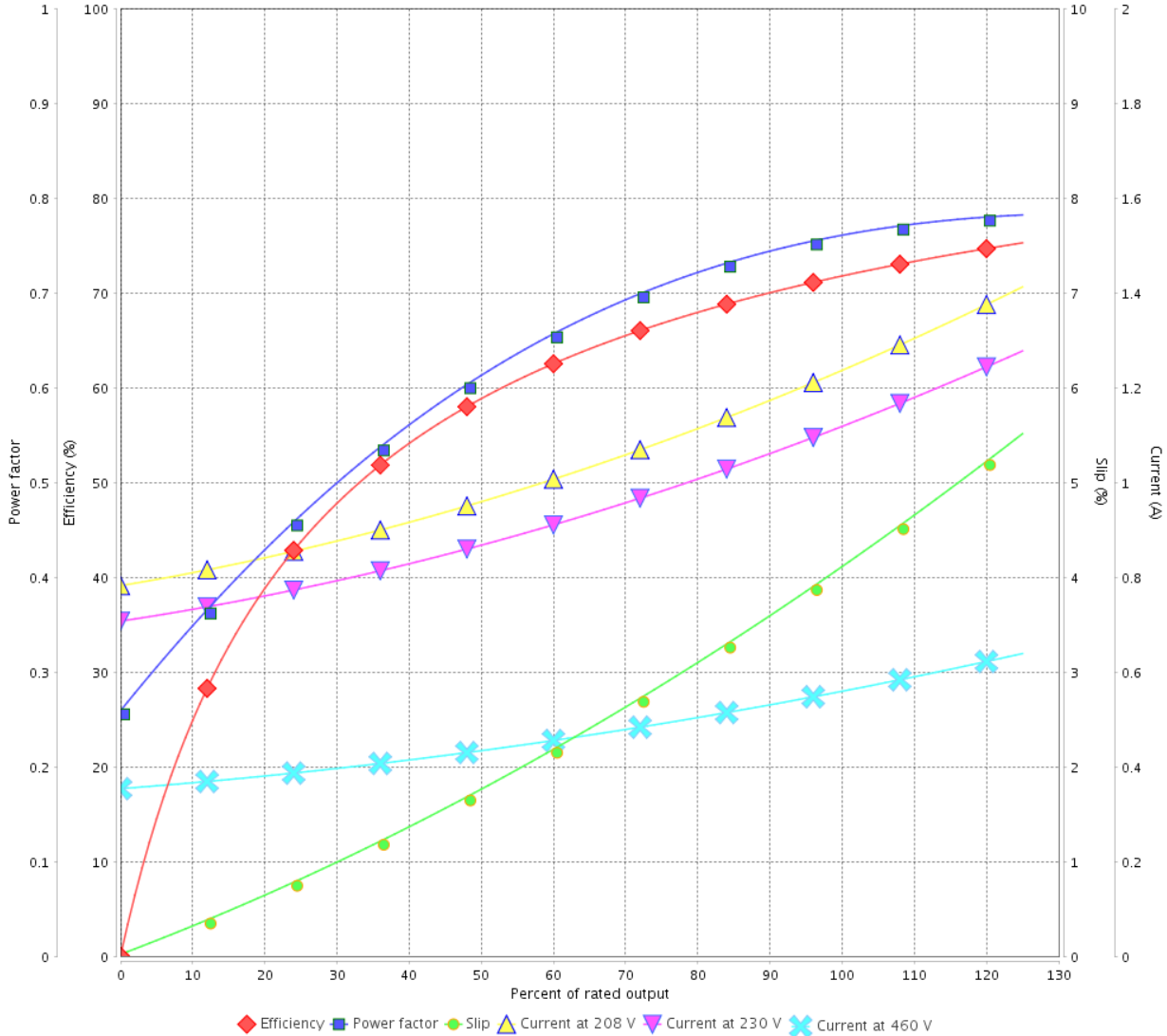


Customer :

Product line : Three-Phase

Product code : 13910561

LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 2P

Rated current : 1.30-1.15/0.573 A
 LRC : 7.1
 Rated torque : 0.069 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 370 %
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0006 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

LOAD PERFORMANCE CURVE

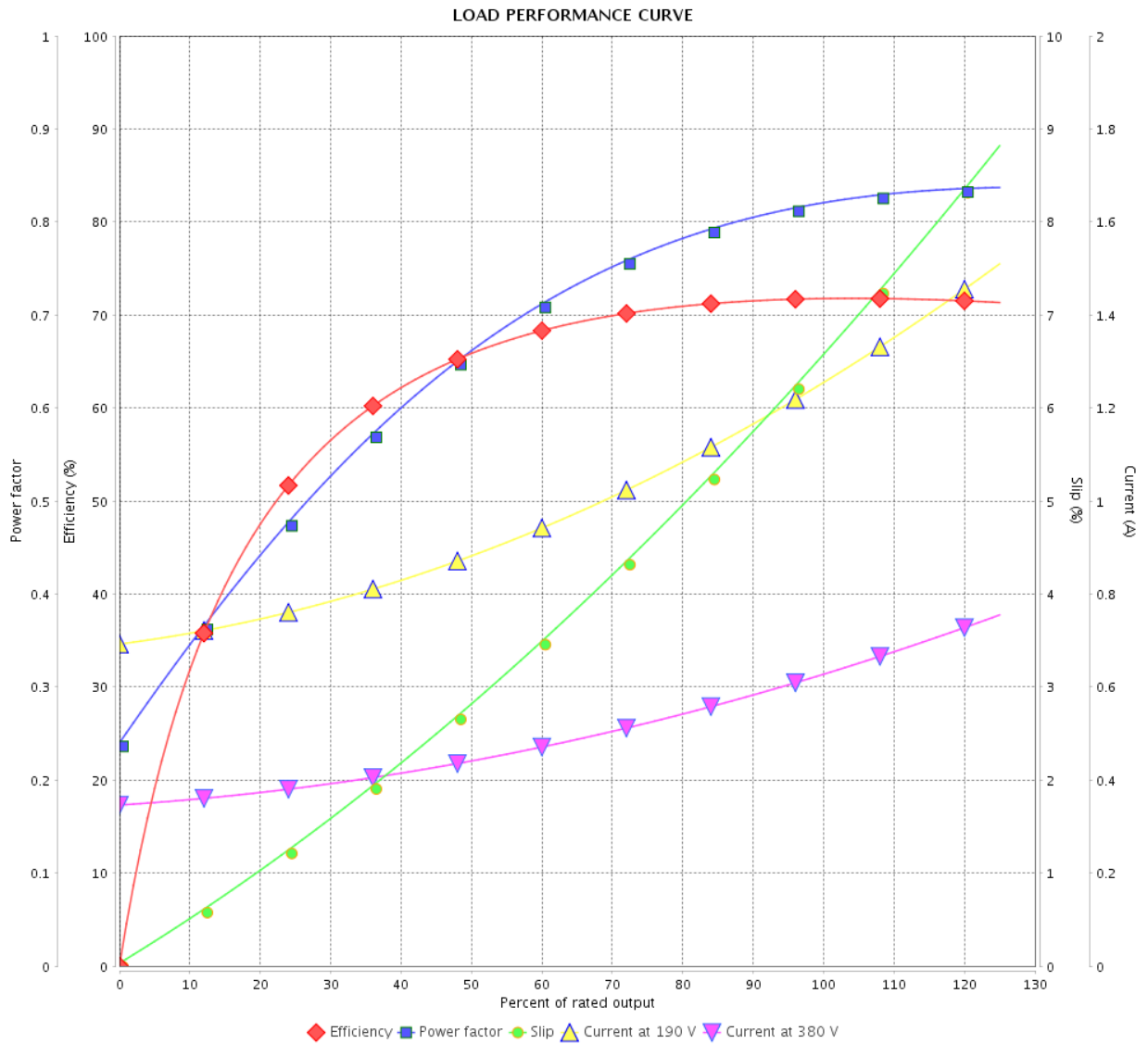
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

Product code : 13910561



Performance : 190/380 V 50 Hz 2P

Rated current : 1.29/0.646 A
 LRC : 5.6
 Rated torque : 0.086 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 2800 rpm

Moment of inertia (J) : 0.0006 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

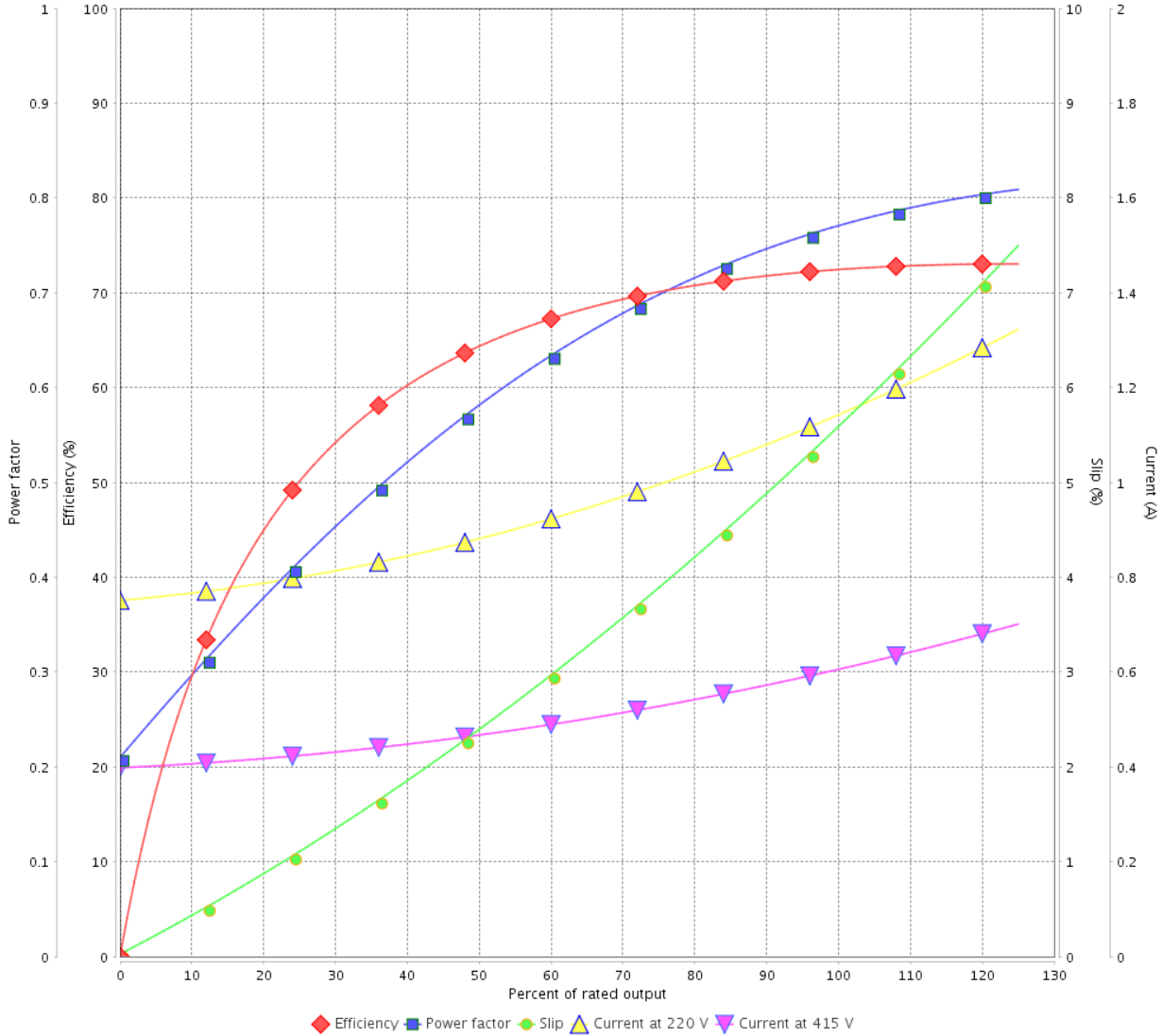


Customer :

Product line : Three-Phase

Product code : 13910561

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 2P

Rated current : 1.18/0.624 A
 LRC : 6.3
 Rated torque : 0.085 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 310 %
 Rated speed : 2830 rpm

Moment of inertia (J) : 0.0006 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 4	Revision
Checked by				
Date	11/05/2022			