

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Standard Efficiency Three-Phase	Product code :	13760388	
Frame	: W56C	Cooling method	: IC411 - TEFC	
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	: 9.9 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0024 kgm ²	
Output [HP]	0.5	0.33	0.33	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	208-230/460	190/380	220/415	
Rated current [A]	2.20-1.98/0.990	1.80/0.899	1.80/0.952	
L. R. Amperes [A]	9.68-8.71/4.36	7.73/3.87	7.90/4.19	
LRC [A]	4.4x(Code H)	4.3x(Code J)	4.4x(Code L)	
No load current [A]	1.34-1.55/0.775	1.52/0.760	1.71/0.907	
Rated speed [RPM]	1130	945	955	
Slip [%]	5.83	5.50	4.50	
Rated torque [kgfm]	0.321	0.253	0.251	
Locked rotor torque [%]	200	220	270	
Breakdown torque [%]	240	250	310	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	30s (cold) 17s (hot)	43s (cold) 24s (hot)	34s (cold) 19s (hot)	
Noise level ²	48.0 dB(A)	47.0 dB(A)	47.0 dB(A)	
Efficiency (%)	25%			
	50%	59.5	55.0	
	75%	66.0	63.0	
	100%	68.0	65.0	
Power Factor	25%			
	50%	0.47	0.44	
	75%	0.59	0.55	
	100%	0.69	0.65	
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 20 kgf	
Lubrication interval	: - -	Max. compression	: 30 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	13/05/2022		1 / 4	

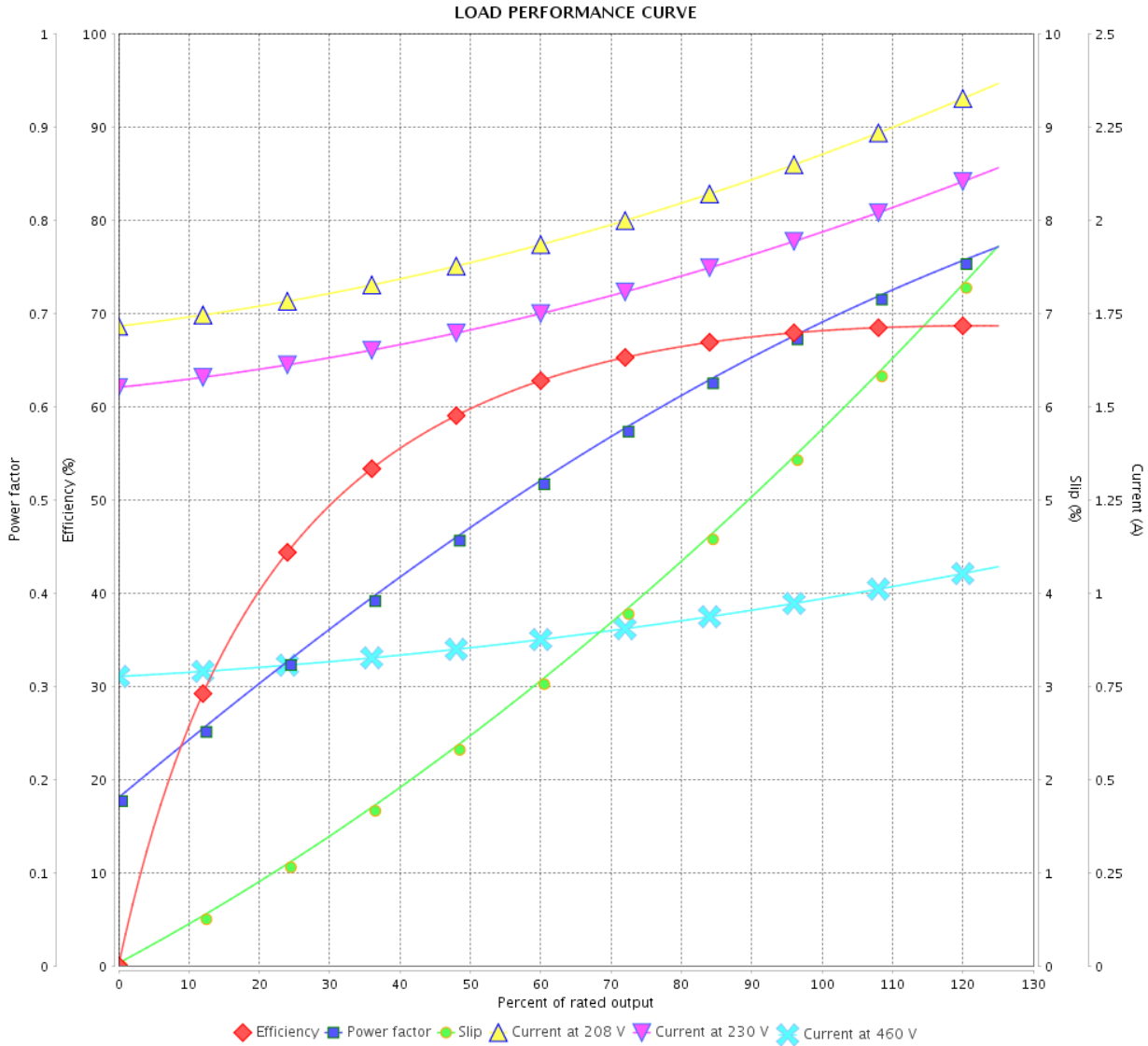
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13760388



Performance : 208-230/460 V 60 Hz 6P

Rated current : 2.20-1.98/0.990 A
 LRC : 4.4
 Rated torque : 0.321 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1130 rpm

Moment of inertia (J) : 0.0024 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				

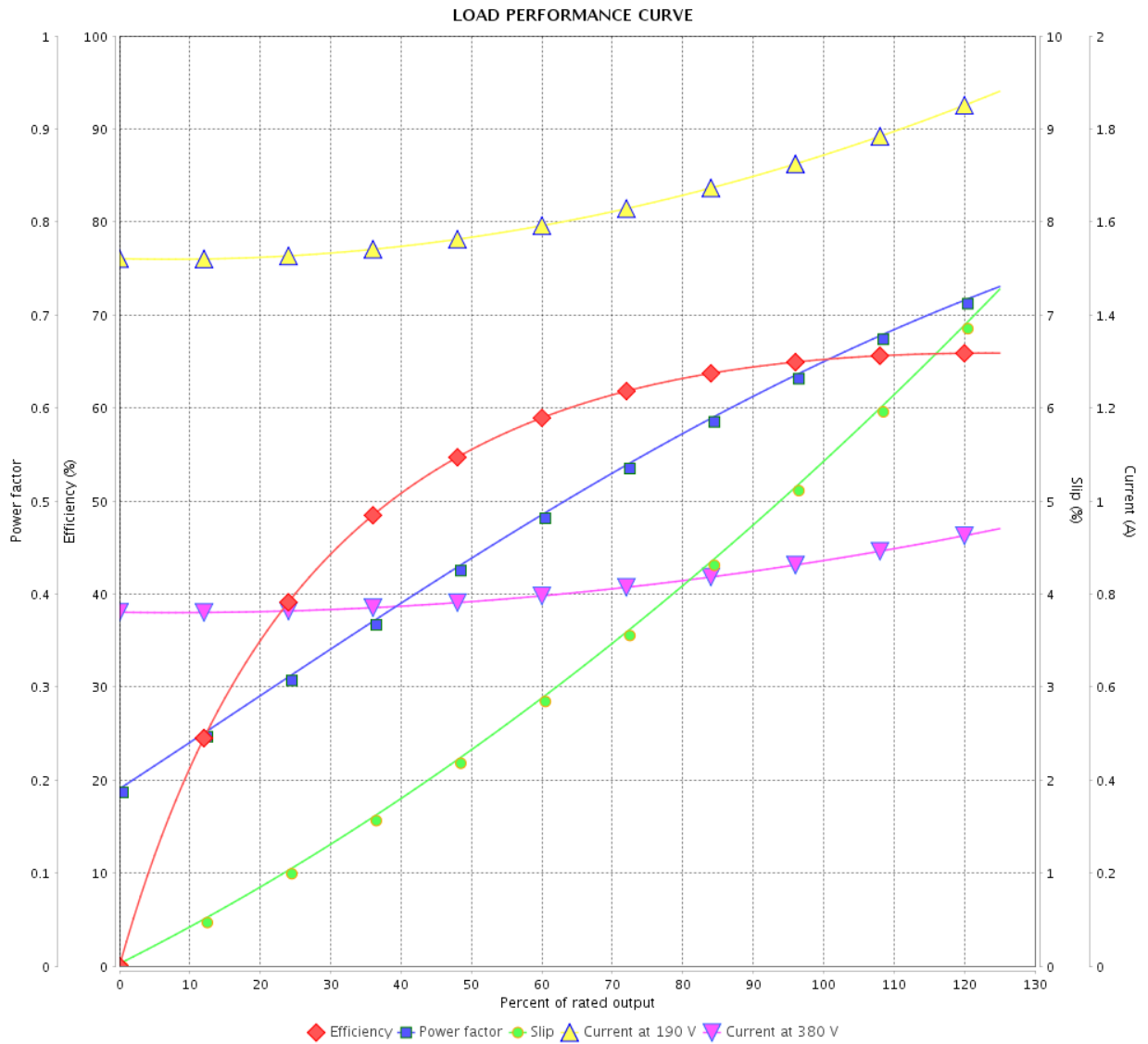
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 13760388



Performance : 190/380 V 50 Hz 6P

Rated current : 1.80/0.899 A
 LRC : 4.3
 Rated torque : 0.253 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 945 rpm

Moment of inertia (J) : 0.0024 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				
			3 / 4	

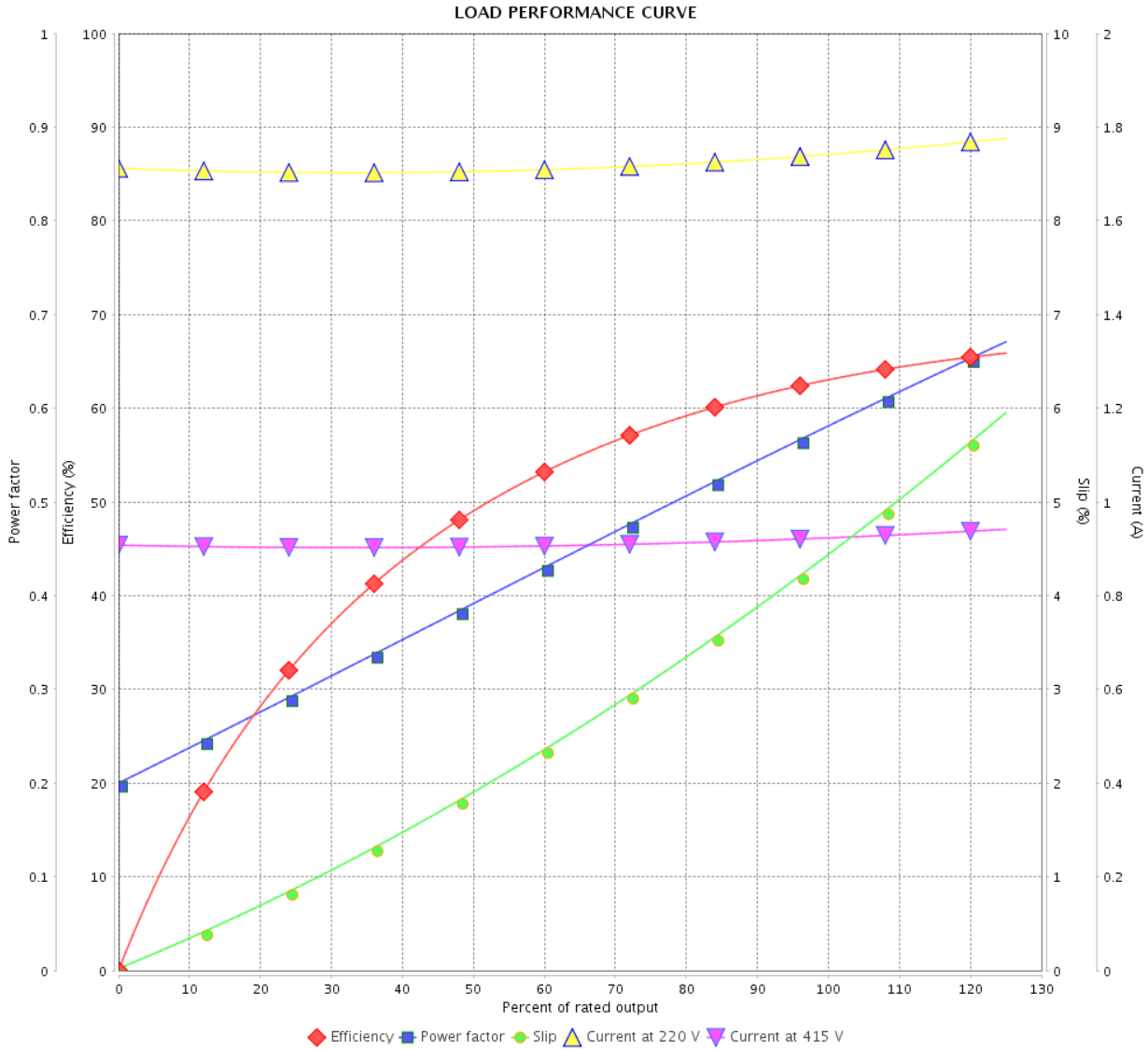
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13760388



Performance : 220/415 V 50 Hz 6P

Rated current : 1.80/0.952 A
 LRC : 4.4
 Rated torque : 0.251 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 310 %
 Rated speed : 955 rpm

Moment of inertia (J) : 0.0024 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	13/05/2022			