

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Standard Efficiency Three-Phase	Product code :	13484072	
Frame	: W56	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 ³	: 7.2 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0006 kgm ²		
Output [HP]	0.5	0.5	0.5		
Poles	2	2	2		
Frequency [Hz]	60	50	50		
Rated voltage [V]	208-230/460	190/380	220/415		
Rated current [A]	1.89-1.71/0.854	1.98/0.990	1.84/0.975		
L. R. Amperes [A]	11.9-10.8/5.38	9.50/4.75	9.93/5.27		
LRC [A]	6.3x(Code K)	4.8x(Code G)	5.4x(Code J)		
No load current [A]	0.933-1.08/0.541	1.05/0.526	1.23/0.654		
Rated speed [RPM]	3400	2730	2785		
Slip [%]	5.56	9.00	7.17		
Rated torque [kgfm]	0.107	0.133	0.130		
Locked rotor torque [%]	290	220	280		
Breakdown torque [%]	290	220	260		
Service factor		1.00	1.00		
Temperature rise	80 K	105 K	105 K		
Locked rotor time	36s (cold) 20s (hot)	32s (cold) 18s (hot)	30s (cold) 17s (hot)		
Noise level ²	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)		
Efficiency (%)	25%				
	50%	59.5	62.0	60.0	
	75%	66.0	66.0	65.0	
	100%	68.0	66.0	66.0	
Power Factor	25%				
	50%	0.61	0.68	0.59	
	75%	0.73	0.79	0.72	
	100%	0.80	0.86	0.80	
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads			
Sealing	: V'Ring V'Ring	Max. traction	: 7 kgf		
Lubrication interval	: - -	Max. compression	: 14 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

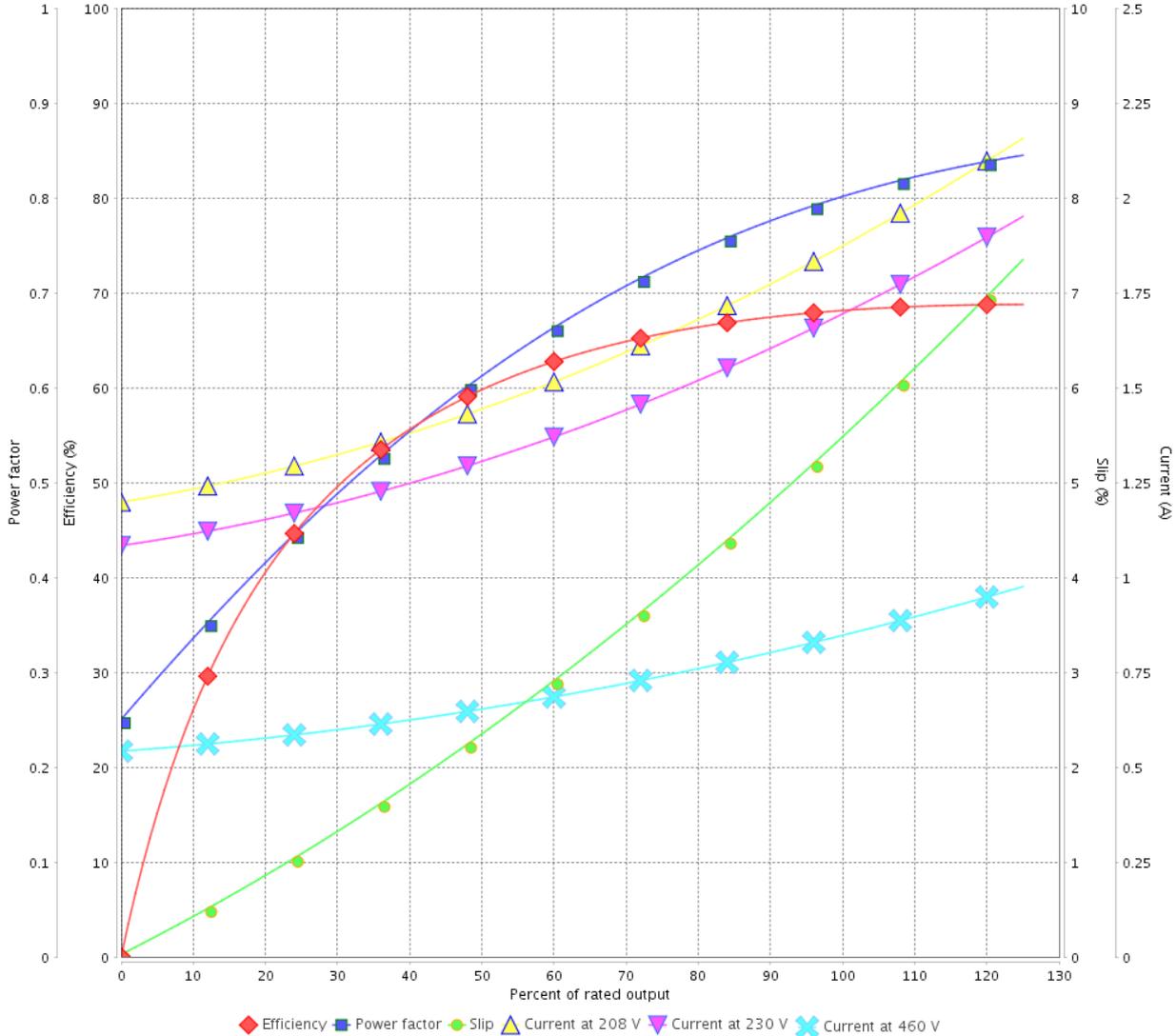
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13484072

LOAD PERFORMANCE CURVE



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

Rated current : 1.89-1.71/0.854 A
 LRC : 6.3
 Rated torque : 0.107 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 290 %
 Rated speed : 3400 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				

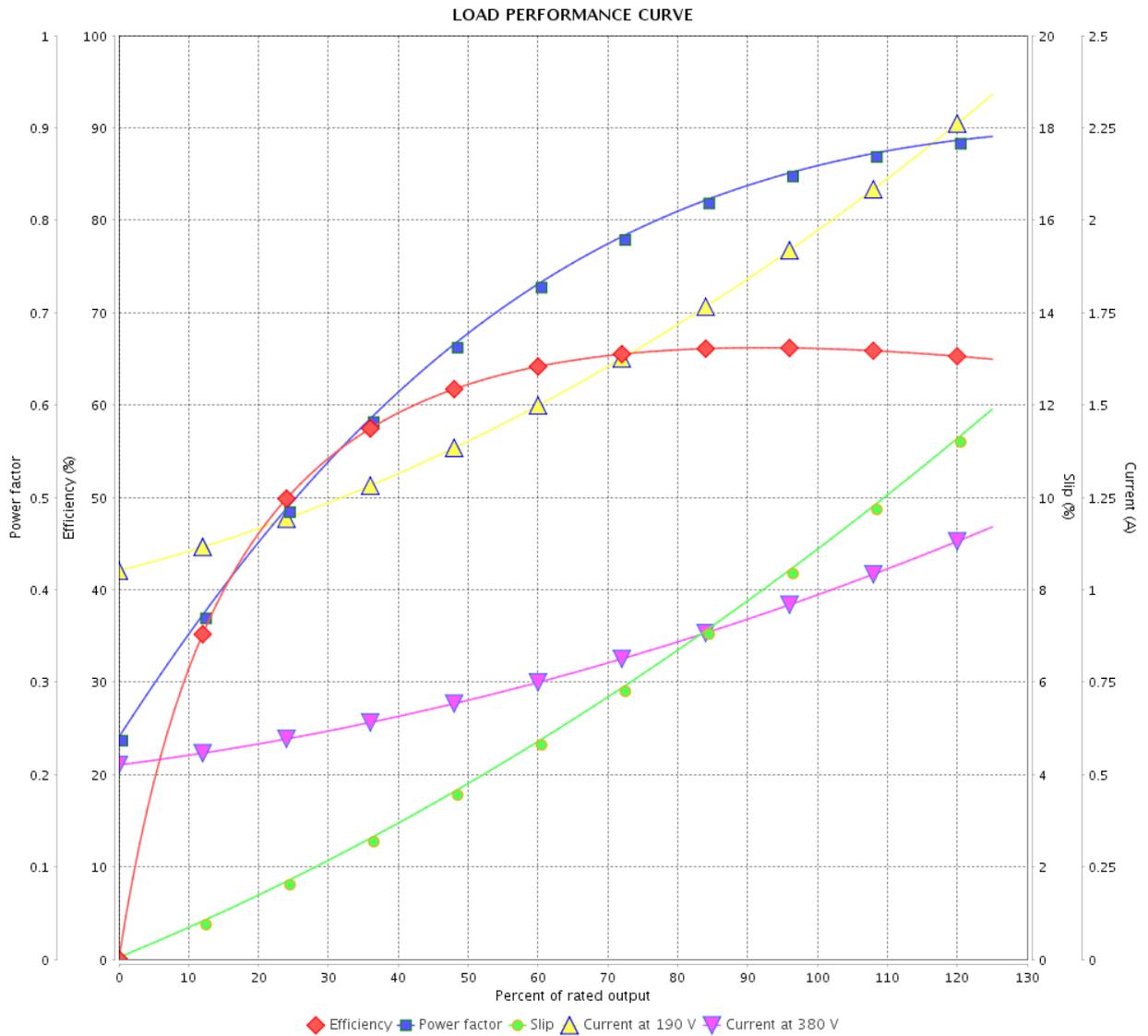
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13484072



Performance : 190/380 V 50 Hz 2P

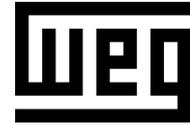
Rated current : 1.98/0.990 A
 LRC : 4.8
 Rated torque : 0.133 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 220 %
 Rated speed : 2730 rpm

Moment of inertia (J) : 0.0006 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 4	Revision
Checked by				
Date	11/05/2022			

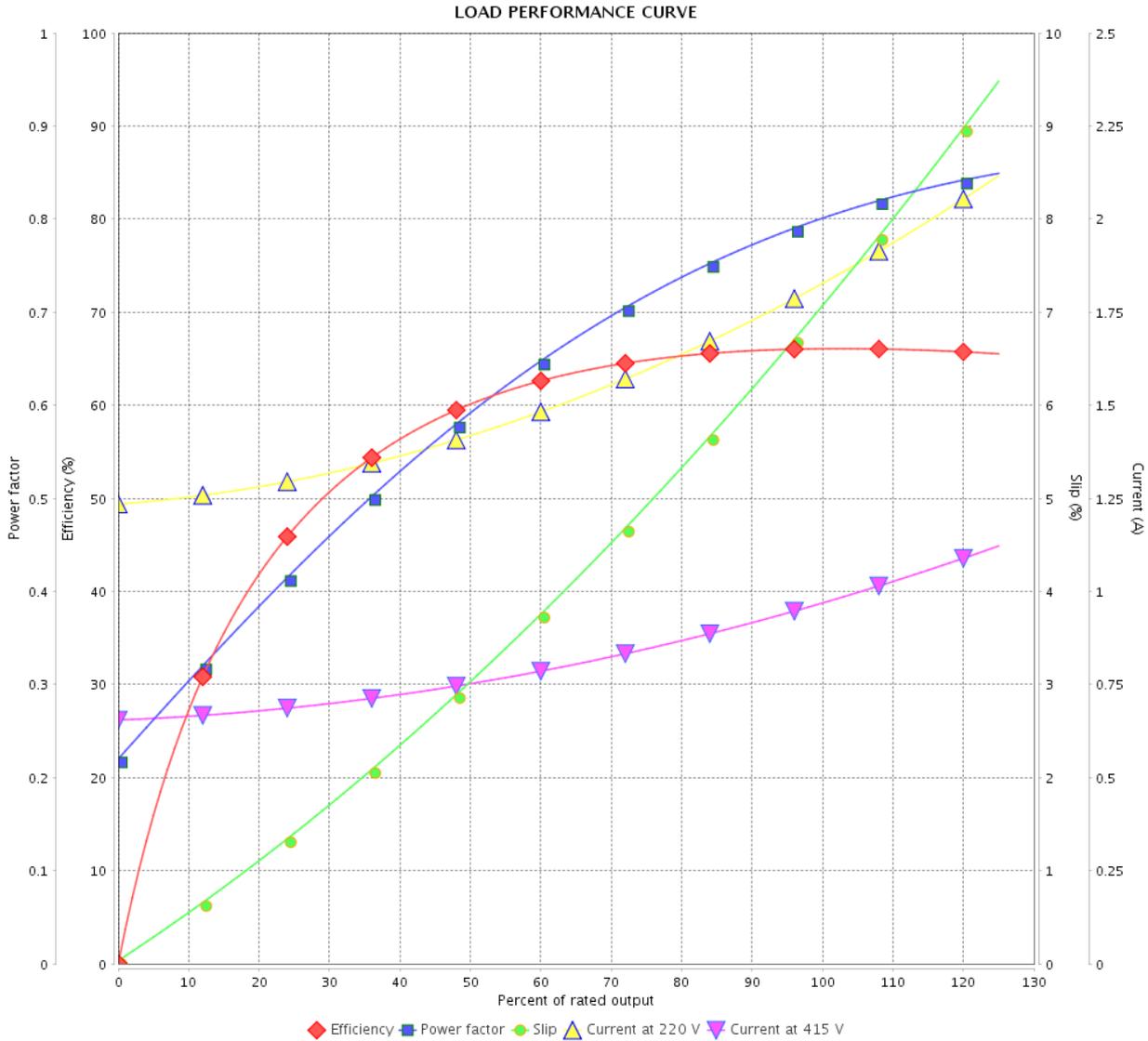
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13484072



Performance : 220/415 V 50 Hz 2P

Rated current : 1.84/0.975 A
 LRC : 5.4
 Rated torque : 0.130 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 260 %
 Rated speed : 2785 rpm

Moment of inertia (J) : 0.0006 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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