

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Standard Efficiency Three-Phase	Product code :	12805241	
Frame	: 56C	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	: 9.0 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0019 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]	1.86-1.69/0.843	1.78/0.890	1.65/0.875	
L. R. Amperes [A]	13.0-11.8/5.90	10.7/5.34	10.6/5.60	
LRC [A]	7.0x(Code L)	6.0x(Code H)	6.4x(Code J)	
No load current [A]	0.776-0.900/0.450	0.874/0.437	0.951/0.504	
Rated speed [RPM]	3500	2865	2885	
Slip [%]	2.78	4.50	3.83	
Rated torque [kgfm]	0.104	0.127	0.126	
Locked rotor torque [%]	260	200	229	
Breakdown torque [%]	300	260	290	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	63s (cold) 35s (hot)	77s (cold) 43s (hot)	72s (cold) 40s (hot)	
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)	
Efficiency (%)	25%	50.9	63.0	61.1
	50%	55.0	64.8	63.3
	75%	62.0	70.1	69.5
	100%	68.0	71.8	71.8
Power Factor	25%	0.43	0.45	0.40
	50%	0.67	0.73	0.67
	75%	0.75	0.83	0.78
	100%	0.81	0.88	0.85
Bearing type	: Drive end 6203 ZZ	Non drive end 6202 ZZ	Foundation loads	
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 7 kgf
			Max. compression	: 16 kgf
Lubrication interval	: -	-		
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

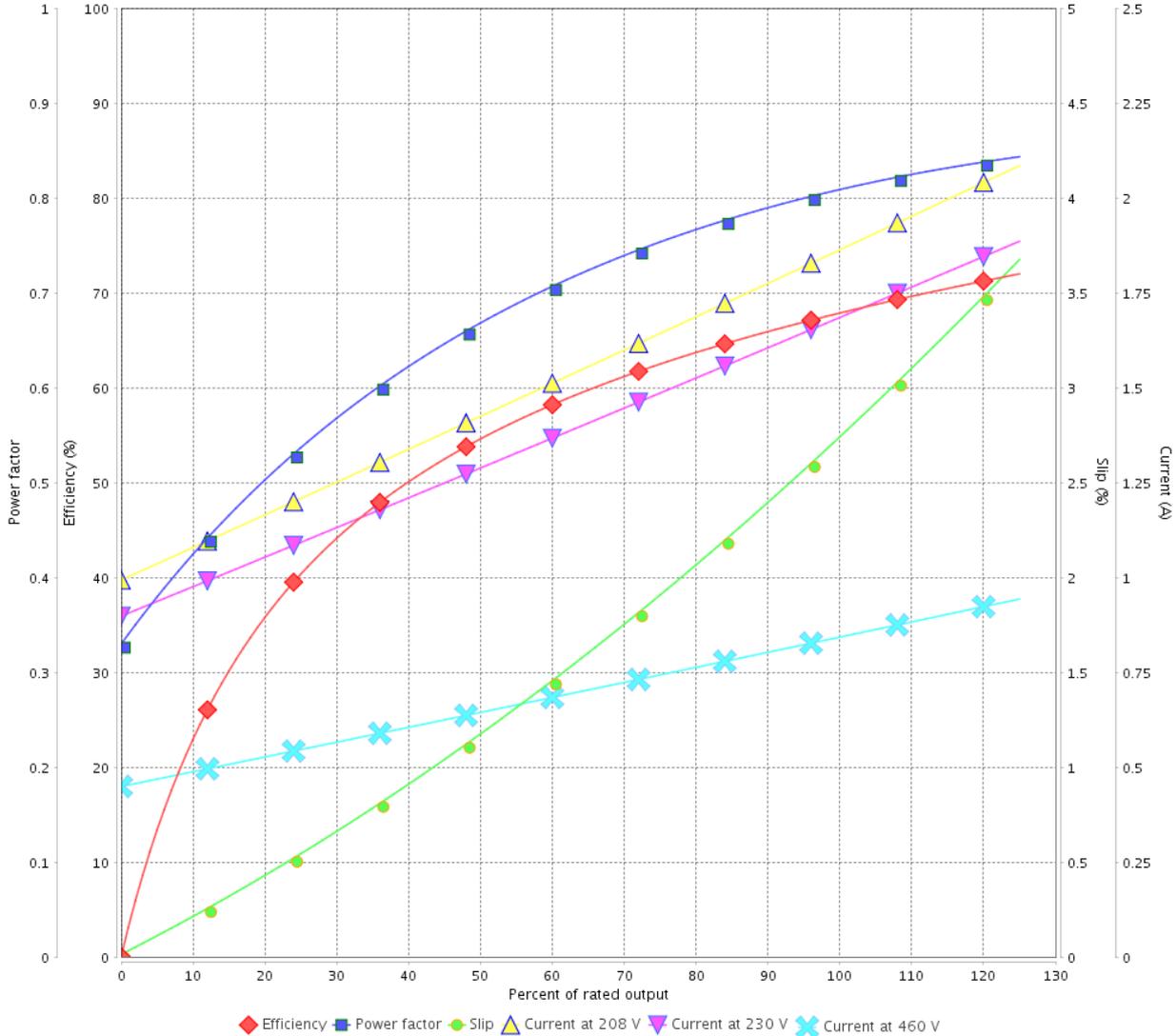
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805241

LOAD PERFORMANCE CURVE



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

Rated current : 1.86-1.69/0.843 A
 LRC : 7.0
 Rated torque : 0.104 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 300 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0019 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				

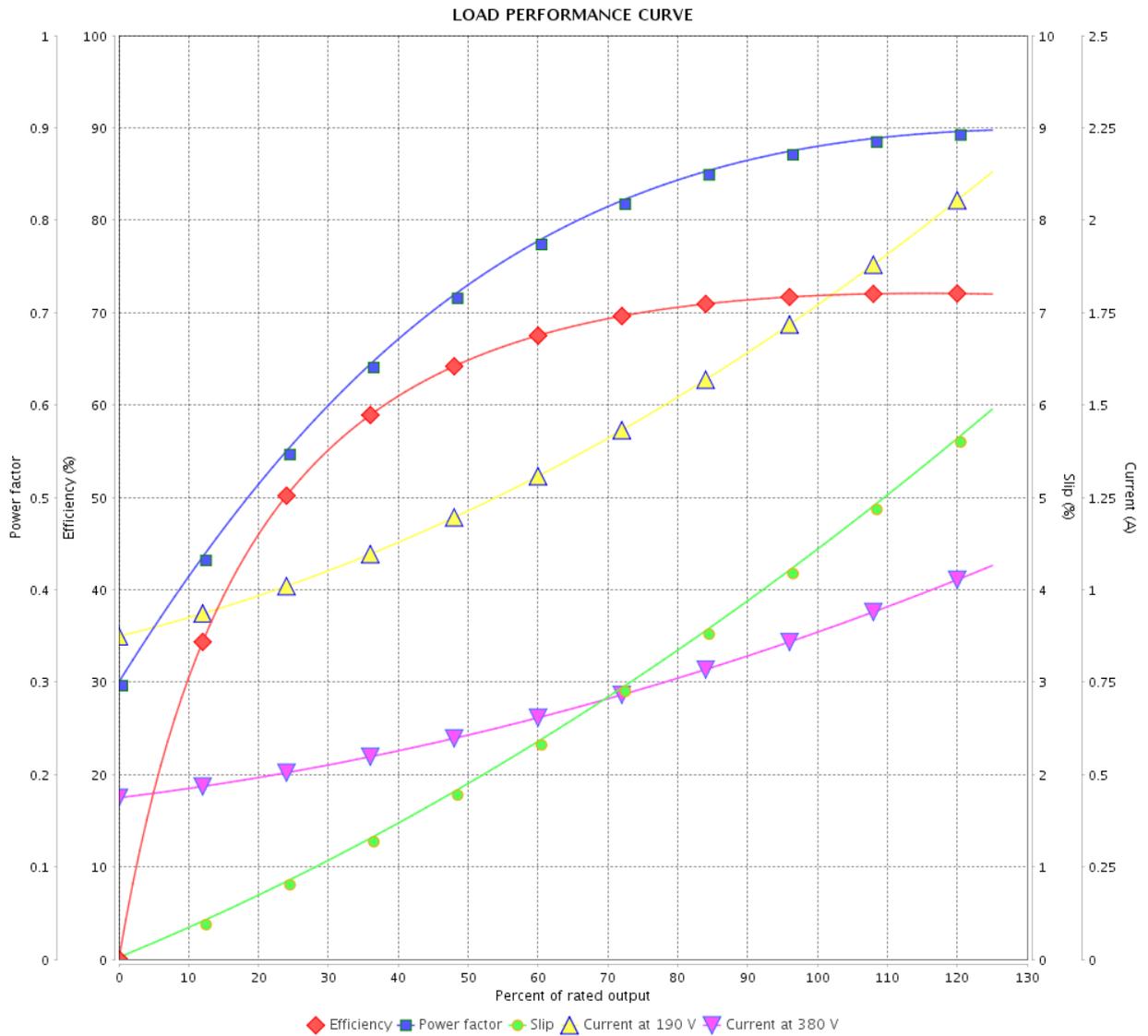
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805241



Performance : 190/380 V 50 Hz 2P

Rated current : 1.78/0.890 A
 LRC : 6.0
 Rated torque : 0.127 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 260 %
 Rated speed : 2865 rpm

Moment of inertia (J) : 0.0019 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		3 / 4		
Date		13/05/2022		

LOAD PERFORMANCE CURVE

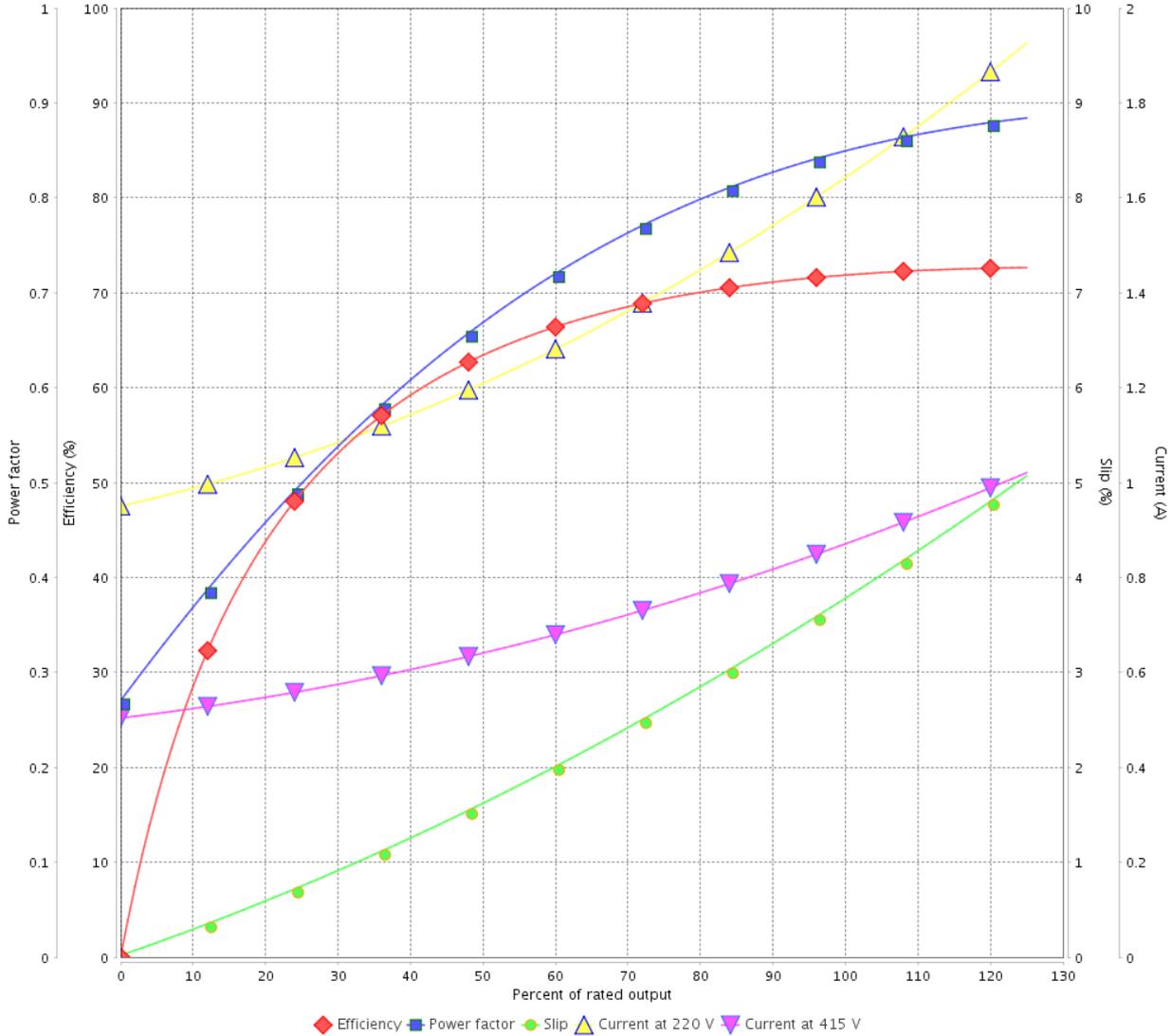
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805241

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 2P

Rated current : 1.65/0.875 A
 LRC : 6.4
 Rated torque : 0.126 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0019 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			