

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 ³	: 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
	50%	55.0	64.8
	75%	62.0	70.1
	100%	68.0	71.8
Power Factor	25%	0.43	0.45
	50%	0.67	0.73
	75%	0.75	0.83
	100%	0.81	0.88

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6203 ZZ	6202 ZZ	
Sealing	: V'Ring	Without	Max. traction : 7 kgf
		Bearing Seal	
Lubrication interval	: -	-	Max. compression : 16 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		Page Revision 1 / 4		
Checked by				
Date	13/05/2022			

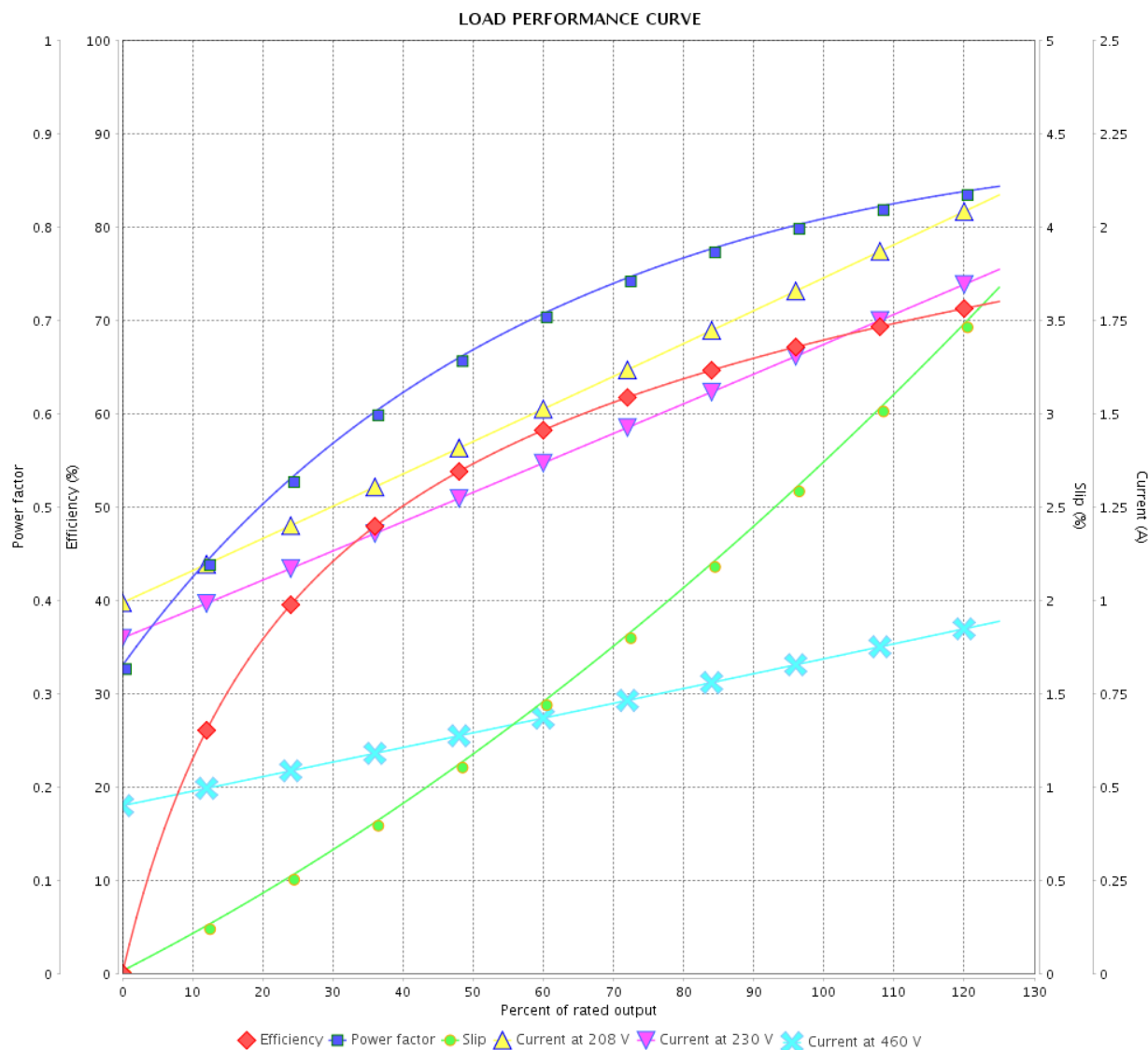
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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



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 2 / 4	Revision
Checked by					
Date	13/05/2022				

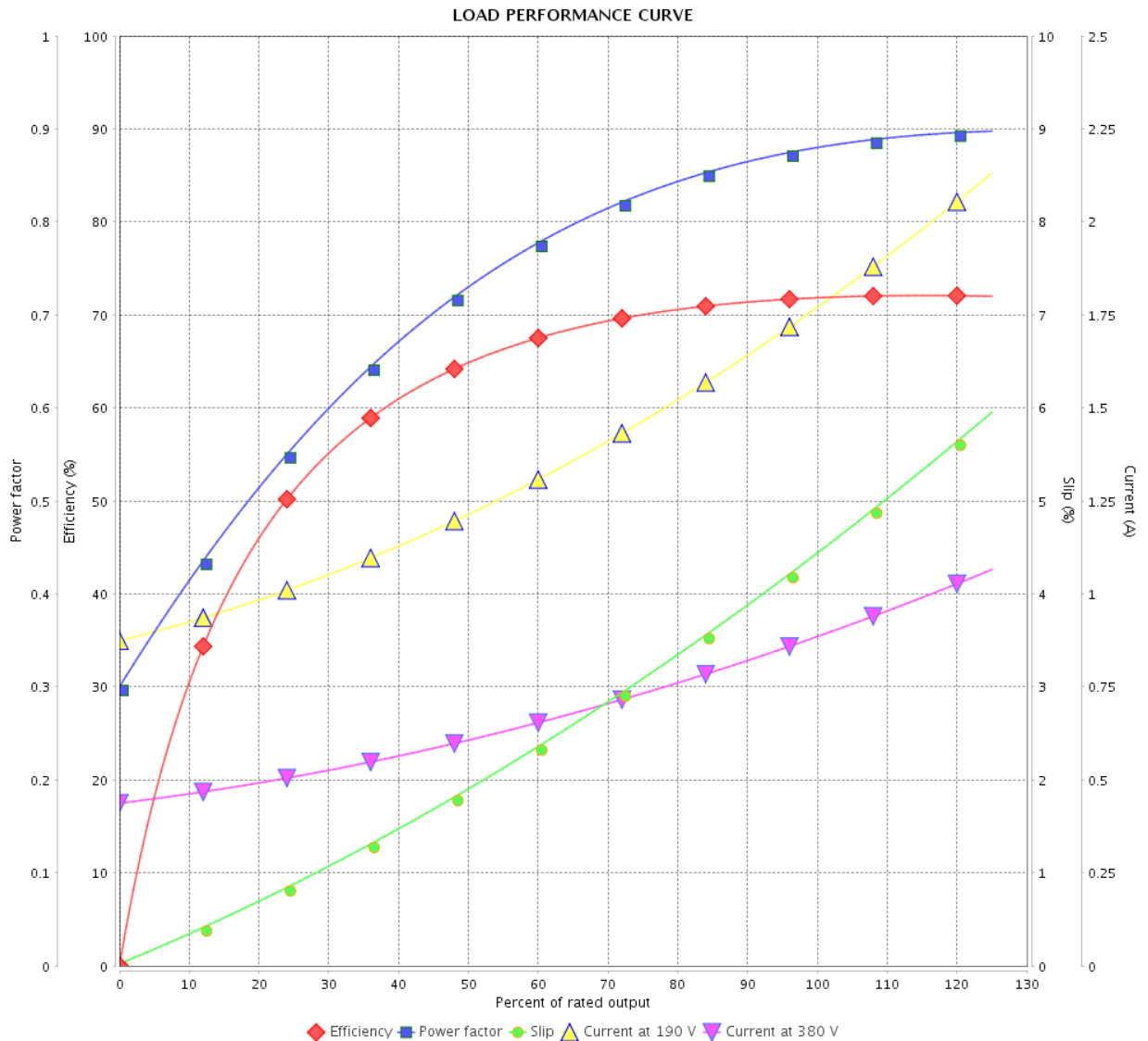
LOAD PERFORMANCE CURVE

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 3 / 4Revision		
Checked by				
Date	13/05/2022			

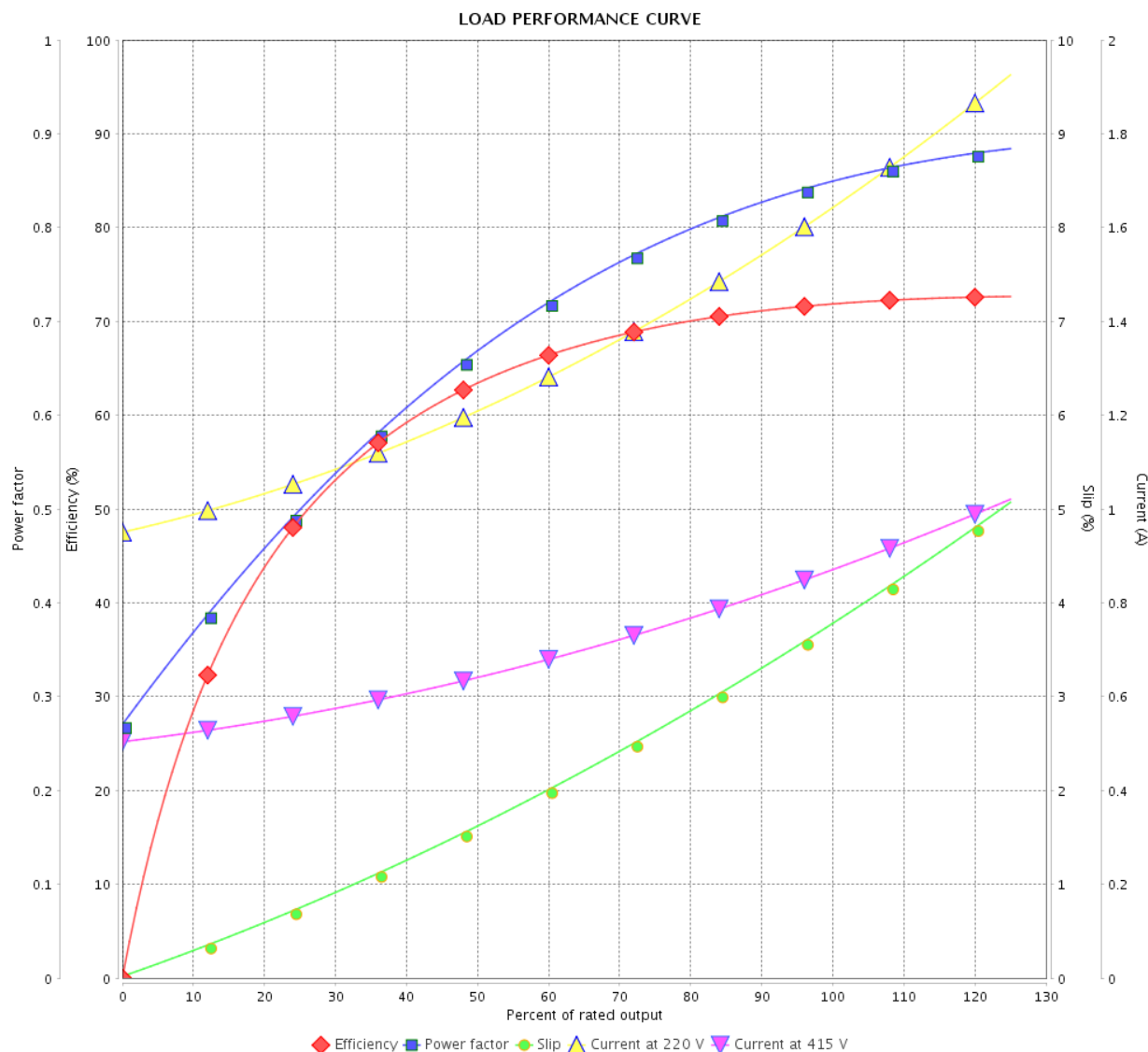
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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



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		<div>Page 4 / 4</div> <div>Revision</div>		
Checked by				
Date	13/05/2022			

