

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502196

Frame	: 56H	Cooling method	: IC01 - ODP
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	: 13.2 kg
Design	: A	Moment of inertia (J)	: 0.0038 kgm ²

Output [HP]	1.5	1.5	1.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	4.60/2.30	5.18/2.59	4.89/2.59
L. R. Amperes [A]	31.7/15.9	28.5/14.2	29.3/15.5
LRC [A]	6.9x(Code K)	5.5x(Code G)	6.0x(Code J)
No load current [A]	3.20/1.60	3.00/1.50	3.96/2.10
Rated speed [RPM]	1745	1420	1435
Slip [%]	3.06	5.33	4.33
Rated torque [kgfm]	0.624	0.767	0.759
Locked rotor torque [%]	250	170	210
Breakdown torque [%]	280	210	250
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	18s (cold) 10s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	75.5	71.5
	75%	78.5	76.1
	100%	80.0	76.8
Power Factor	25%		
	50%	0.51	0.51
	75%	0.65	0.66
	100%	0.75	0.77

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6204 ZZ	6202 ZZ	
Sealing	: Without	Without	Max. traction : 54 kgf
	: Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	Max. compression : 67 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 5.09A SF 1.00 SFA 5.09A

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	17/05/2022			

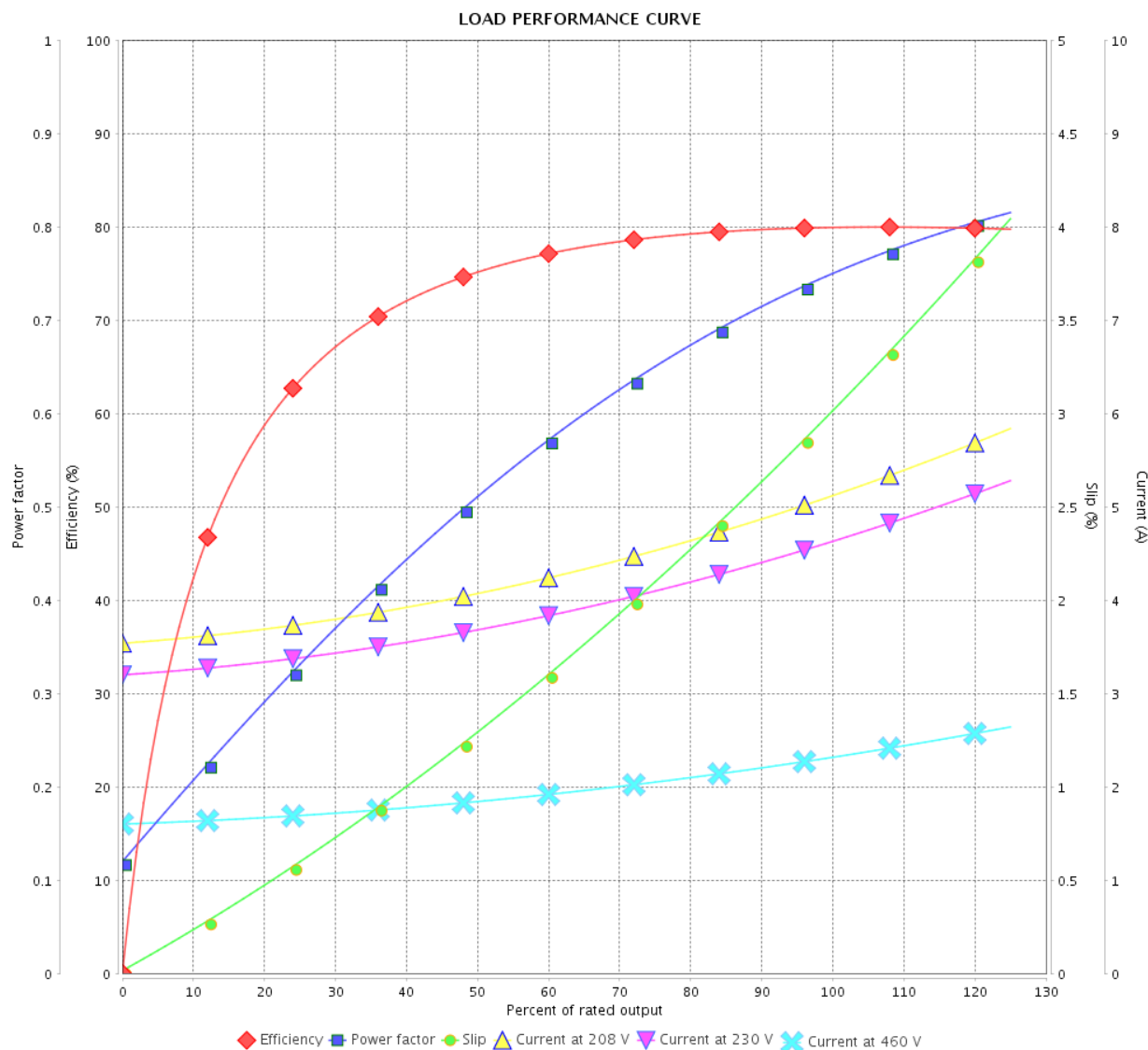
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502196



Performance : 230/460 V 60 Hz 4P

Rated current : 4.60/2.30 A
 LRC : 6.9
 Rated torque : 0.624 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 280 %
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0038 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 4	
Date					

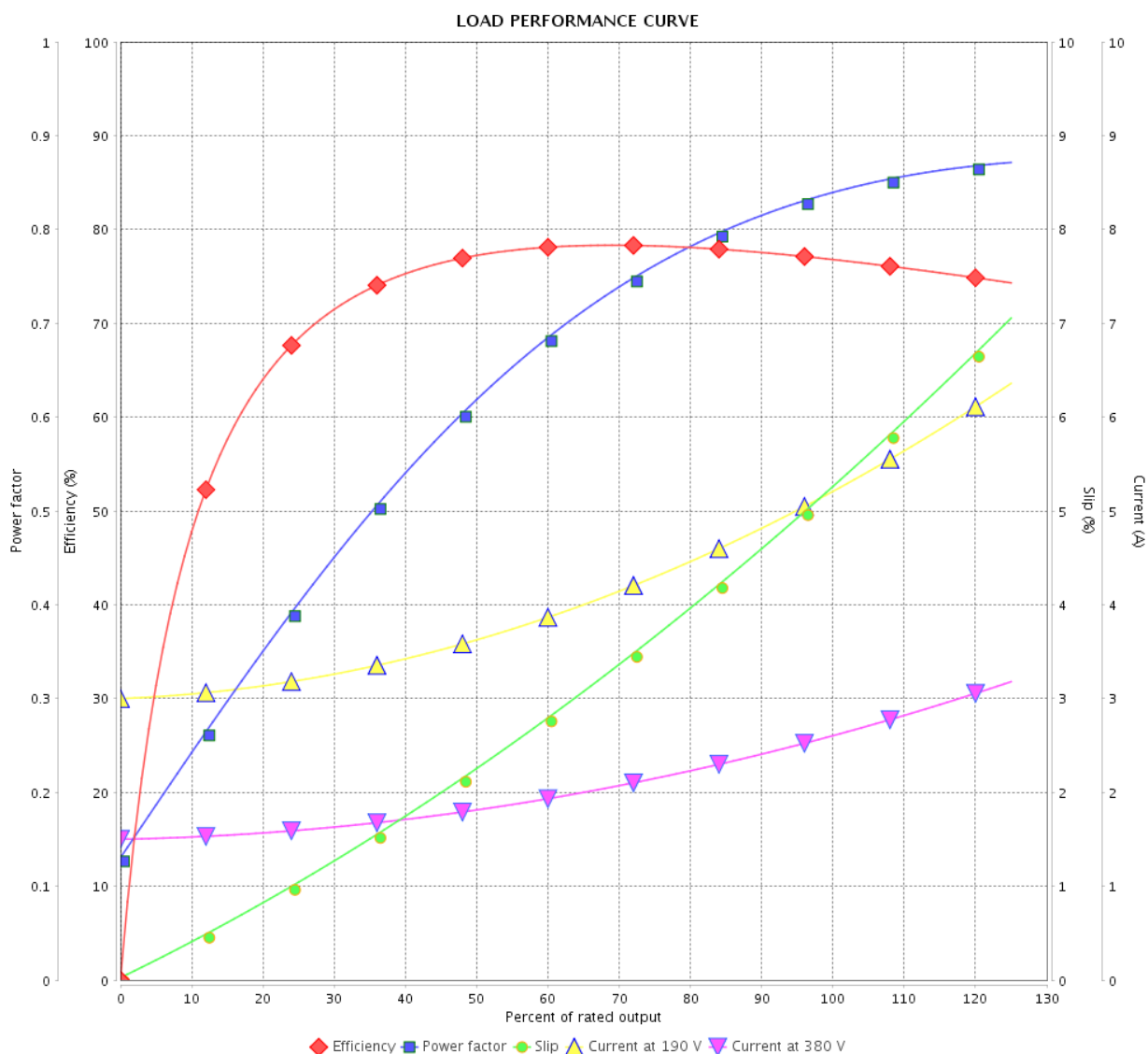
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502196



Performance : 190/380 V 50 Hz 4P

Rated current : 5.18/2.59 A
 LRC : 5.5
 Rated torque : 0.767 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 210 %
 Rated speed : 1420 rpm

Moment of inertia (J) : 0.0038 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4Revision		
Checked by				
Date	17/05/2022			

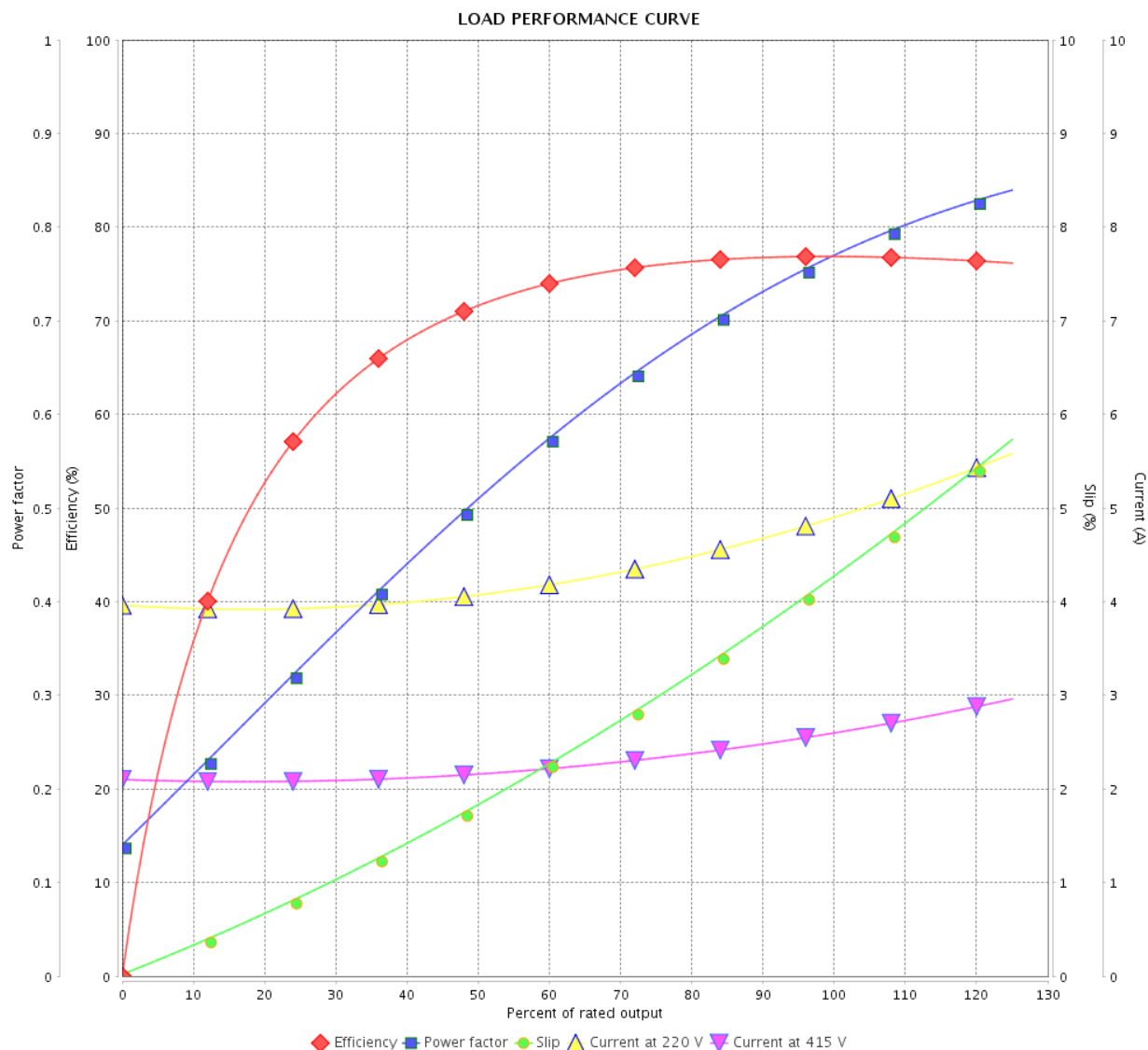
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502196



Performance : 220/415 V 50 Hz 4P

Rated current : 4.89/2.59 A
 LRC : 6.0
 Rated torque : 0.759 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1435 rpm

Moment of inertia (J) : 0.0038 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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

