

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805242

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	: 9.6 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0022 kgm ²

Output [HP]	0.75	0.75	0.75
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	2.50-2.26/1.13	2.52/1.26	2.28/1.21
L. R. Amperes [A]	17.5-15.8/7.91	13.9/6.93	13.7/7.26
LRC [A]	7.0x(Code K)	5.5x(Code G)	6.0x(Code H)
No load current [A]	0.948-1.10/0.550	1.05/0.526	1.14/0.602
Rated speed [RPM]	3475	2825	2845
Slip [%]	3.47	5.83	5.17
Rated torque [kgfm]	0.157	0.193	0.191
Locked rotor torque [%]	250	180	210
Breakdown torque [%]	290	220	250
Service factor		1.00	1.00
Temperature rise	80 K	105 K	80 K
Locked rotor time	41s (cold) 23s (hot)	52s (cold) 29s (hot)	46s (cold) 26s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	58.8	70.1
	50%	62.0	70.3
	75%	68.0	73.4
	100%	72.0	73.0
Power Factor	25%	0.45	0.49
	50%	0.70	0.77
	75%	0.79	0.86
	100%	0.85	0.91

Bearing type	: 6203 ZZ	6202 ZZ	Foundation loads
	: V'Ring	Without Bearing Seal	
Lubrication interval	: -	-	Max. traction : 10 kgf
Lubricant amount	: -	-	Max. compression : 20 kgf
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				
Date	13/05/2022			

Page 1 / 4
Revision

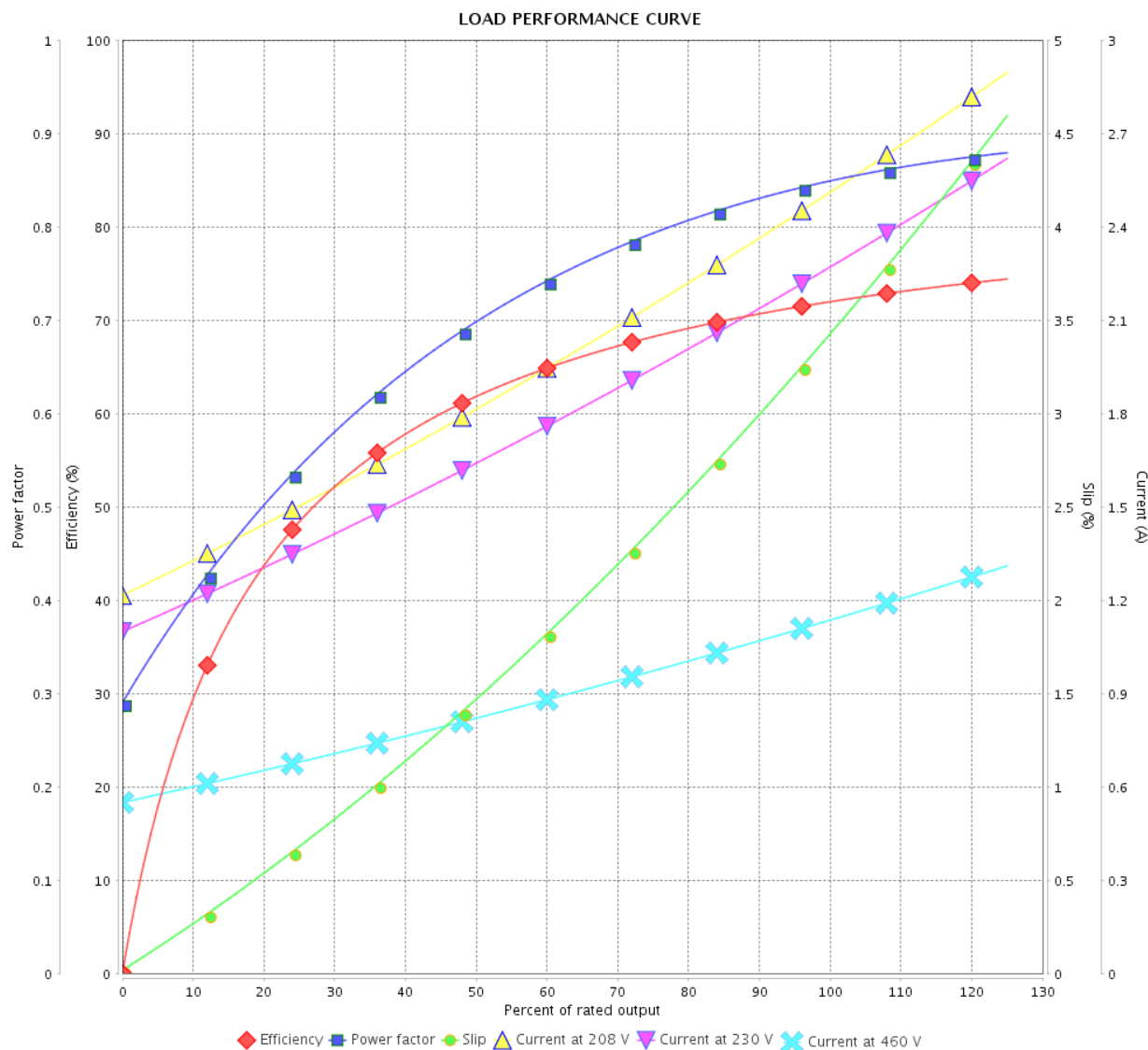
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805242



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

Rated current : 2.50-2.26/1.13 A
LRC : 7.0
Rated torque : 0.157 kgfm
Locked rotor torque : 250 %
Breakdown torque : 290 %
Rated speed : 3475 rpm

Moment of inertia (J) : 0.0022 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				

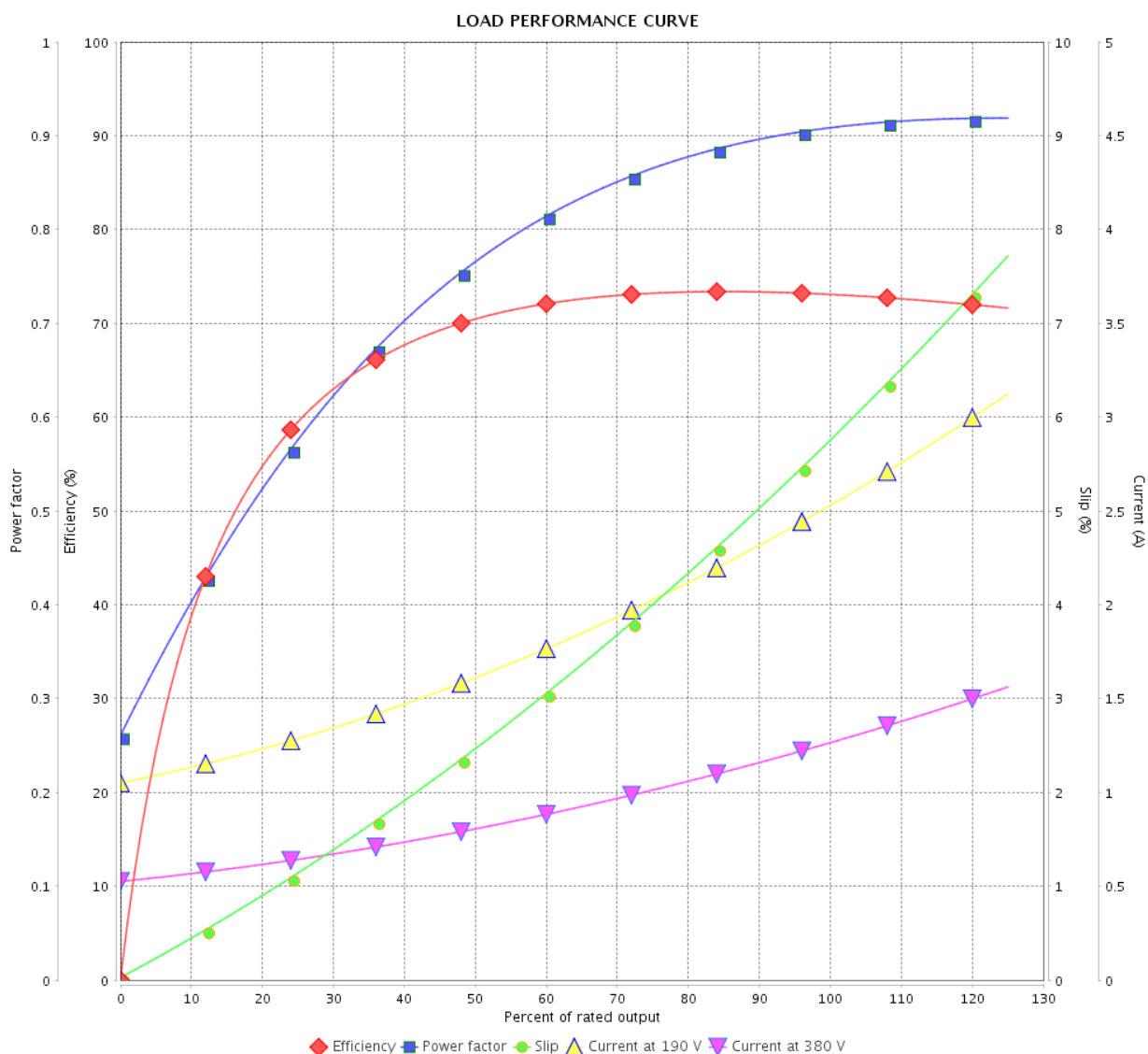
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 12805242



Performance : 190/380 V 50 Hz 2P

Rated current : 2.52/1.26 A
 LRC : 5.5
 Rated torque : 0.193 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 2825 rpm

Moment of inertia (J) : 0.0022 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	13/05/2022			

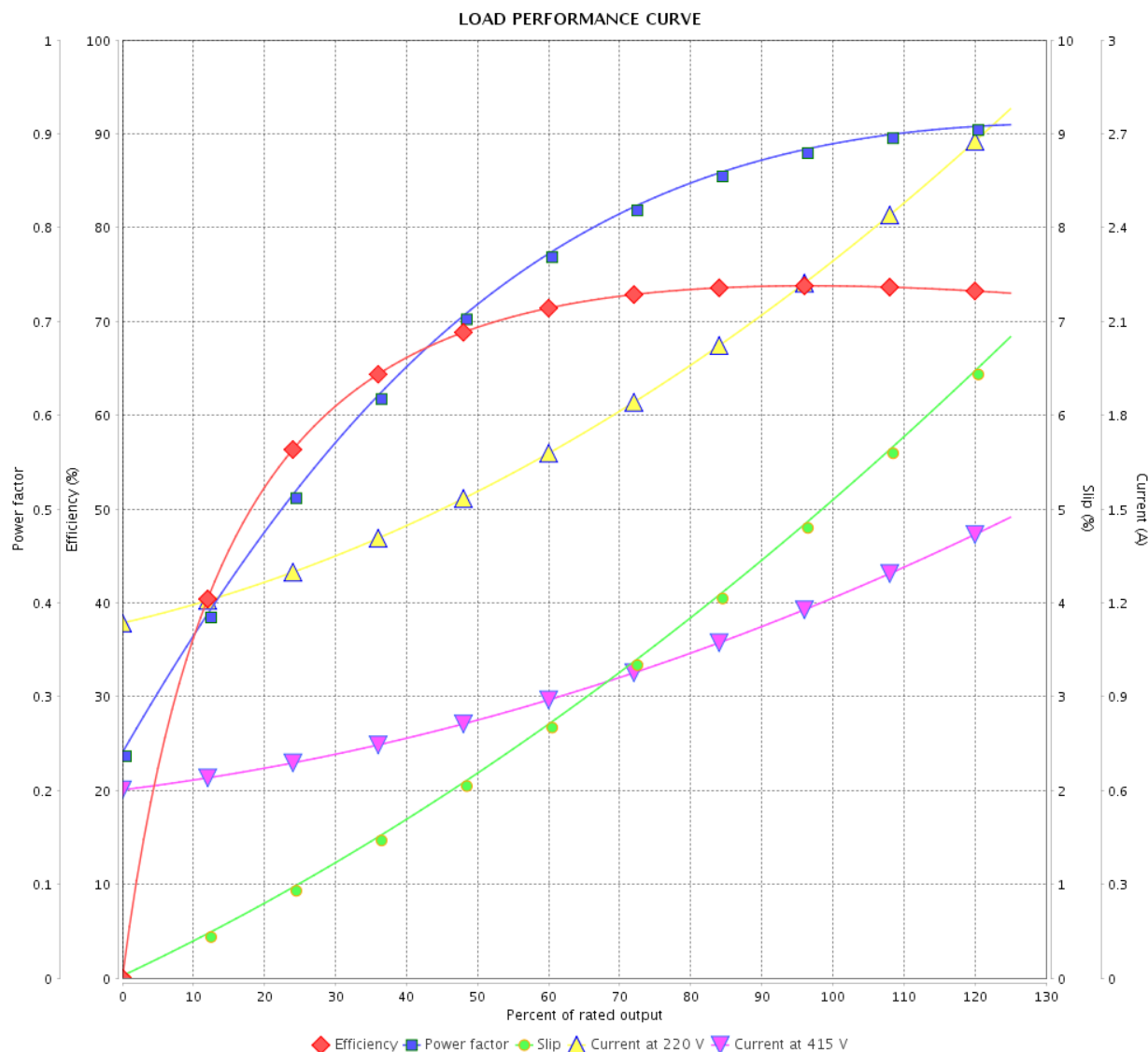
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805242



Performance : 220/415 V 50 Hz 2P

Rated current : 2.28/1.21 A
 LRC : 6.0
 Rated torque : 0.191 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 2845 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K

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

