

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805243

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	: 11.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0027 kgm ²

Output [HP]	1	1	1
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.02/1.51	3.32/1.66	3.04/1.61
L. R. Amperes [A]	21.7/10.9	19.3/9.63	19.1/10.1
LRC [A]	7.2x(Code K)	5.8x(Code H)	6.3x(Code H)
No load current [A]	1.42/0.710	1.39/0.697	1.50/0.793
Rated speed [RPM]	3480	2835	2855
Slip [%]	3.33	5.50	4.83
Rated torque [kgfm]	0.209	0.256	0.254
Locked rotor torque [%]	240	180	210
Breakdown torque [%]	290	229	250
Service factor		1.00	1.00
Temperature rise	80 K	105 K	80 K
Locked rotor time	43s (cold) 24s (hot)	54s (cold) 30s (hot)	48s (cold) 27s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	64.0	73.8
	50%	66.0	73.7
	75%	72.0	76.2
	100%	74.0	75.5
Power Factor	25%	0.43	0.48
	50%	0.68	0.76
	75%	0.79	0.86
	100%	0.84	0.91

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6204 ZZ	6202 ZZ	
Sealing	: V'Ring	Without	Max. traction : 15 kgf
		Bearing Seal	
Lubrication interval	: -	-	Max. compression : 26 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 3.34A SF 1.00 SFA 3.34A

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

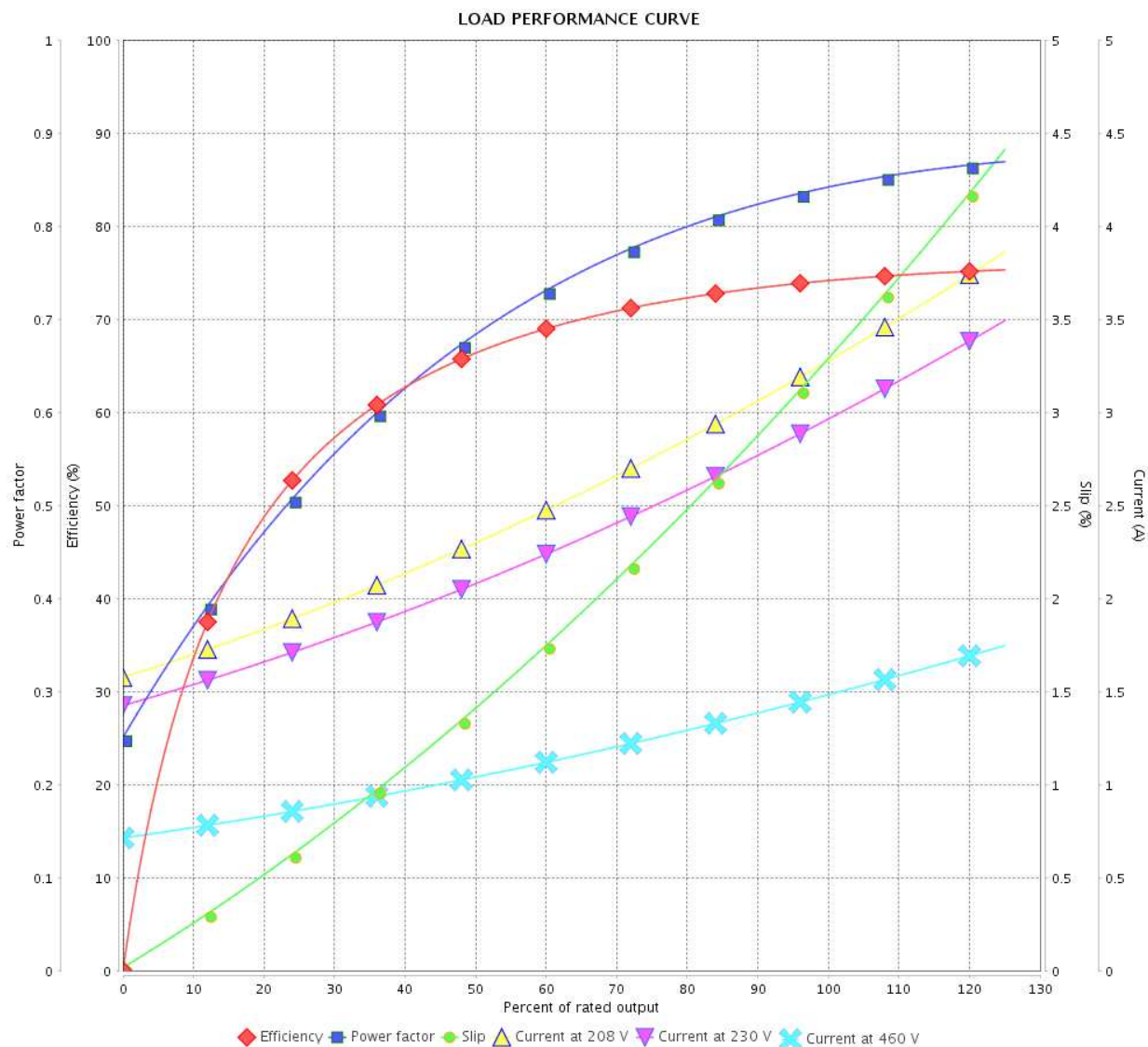
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805243



Performance : 230/460 V 60 Hz 2P

Rated current : 3.02/1.51 A
 LRC : 7.2
 Rated torque : 0.209 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 290 %
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0027 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				2 / 4	
Date					

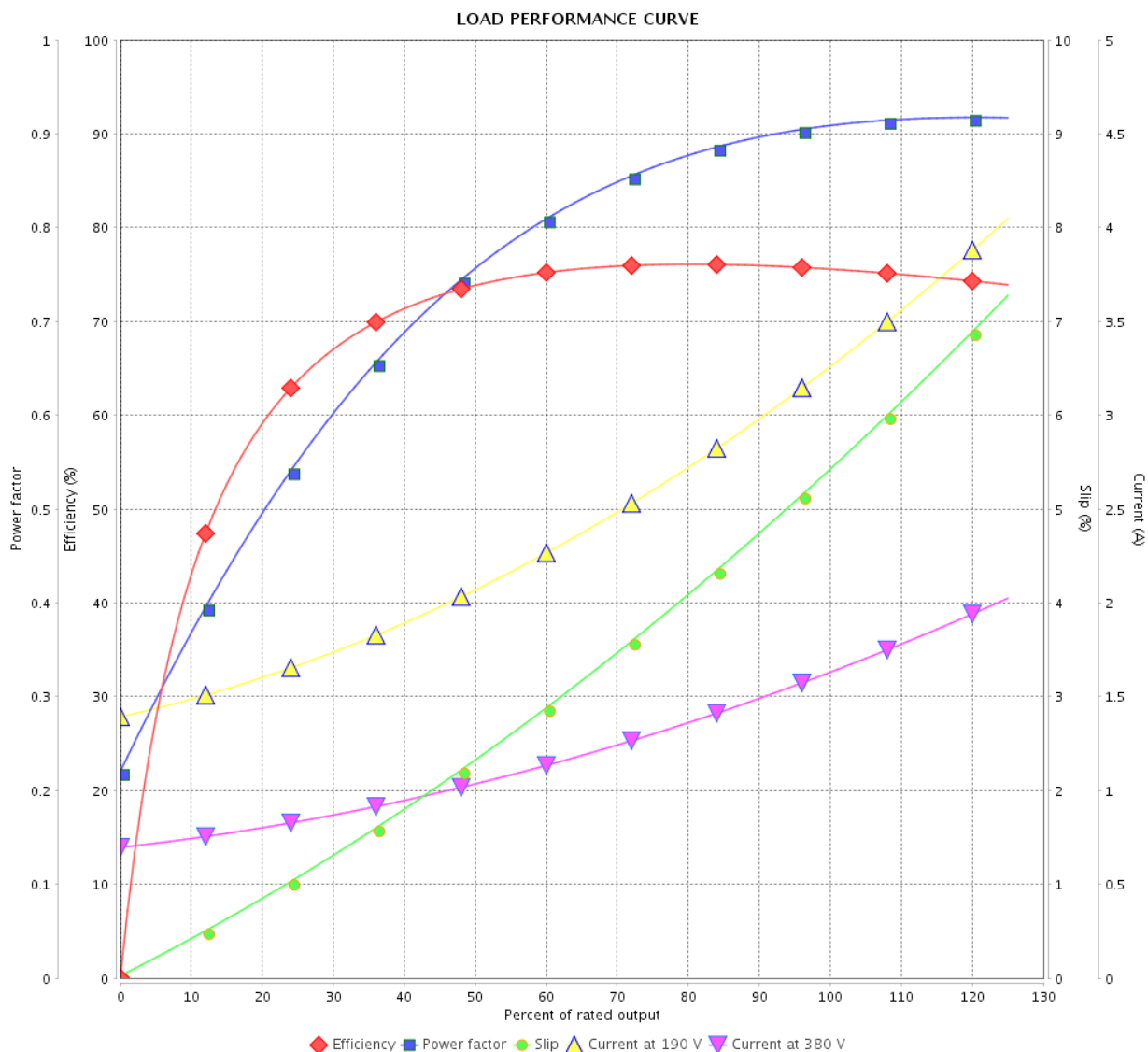
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805243



Performance : 190/380 V 50 Hz 2P

Rated current : 3.32/1.66 A
 LRC : 5.8
 Rated torque : 0.256 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 229 %
 Rated speed : 2835 rpm

Moment of inertia (J) : 0.0027 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 / 4Revision		
Checked by				
Date	13/05/2022			

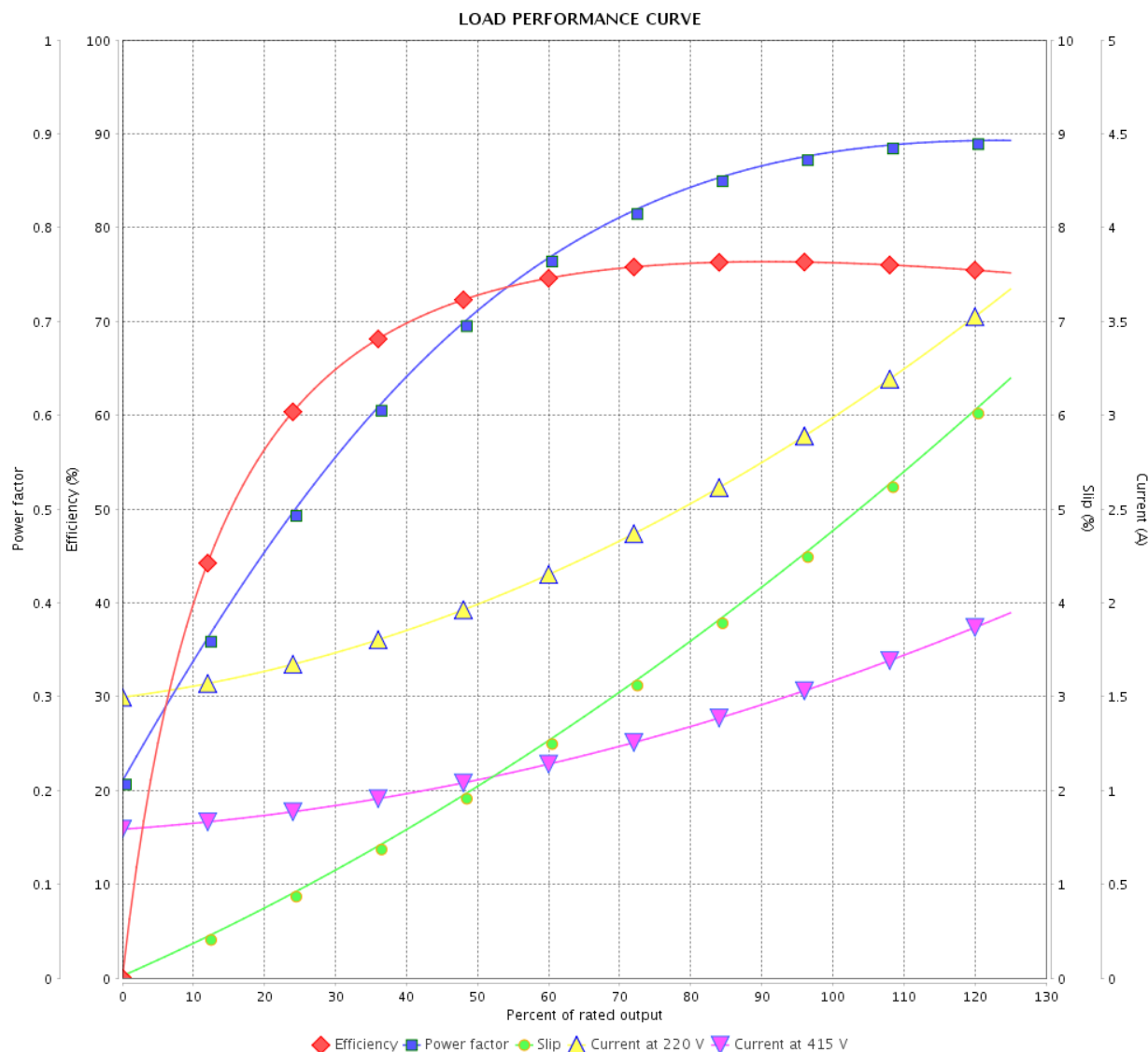
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805243



Performance : 220/415 V 50 Hz 2P

Rated current : 3.04/1.61 A
 LRC : 6.3
 Rated torque : 0.254 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 2855 rpm

Moment of inertia (J) : 0.0027 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 4 / 4Revision		
Checked by				
Date	13/05/2022			

