

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780

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	: 12.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0036 kgm ²

Output [HP]	0.75	0.75	0.75
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190-220/380	415
Rated current [A]	2.63-2.38/1.19	2.64-2.28/1.32	1.31
L. R. Amperes [A]	20.3-18.3/9.16	16.1-13.9/8.05	8.91
LRC [A]	7.7x(Code L)	6.1x(Code H)	6.8x(Code K)
No load current [A]	1.42-1.64/0.822	1.62-1.40/0.809	0.950
Rated speed [RPM]	1760	1450	1460
Slip [%]	2.22	3.33	2.67
Rated torque [kgfm]	0.309	0.375	0.373
Locked rotor torque [%]	240	180	220
Breakdown torque [%]	360	250	310
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	28s (cold) 16s (hot)	27s (cold) 15s (hot)	23s (cold) 13s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	75.5	75.1
	75%	80.0	79.2
	100%	81.5	80.2
Power Factor	25%		
	50%	0.49	0.49
	75%	0.62	0.63
	100%	0.71	0.73

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6203 ZZ	6202 ZZ	Max. traction	: 31 kgf
Sealing	: V'Ring	Without	Max. compression	: 43 kgf
		Bearing Seal		
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		Page Revision 1 / 4		
Checked by				
Date	17/05/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



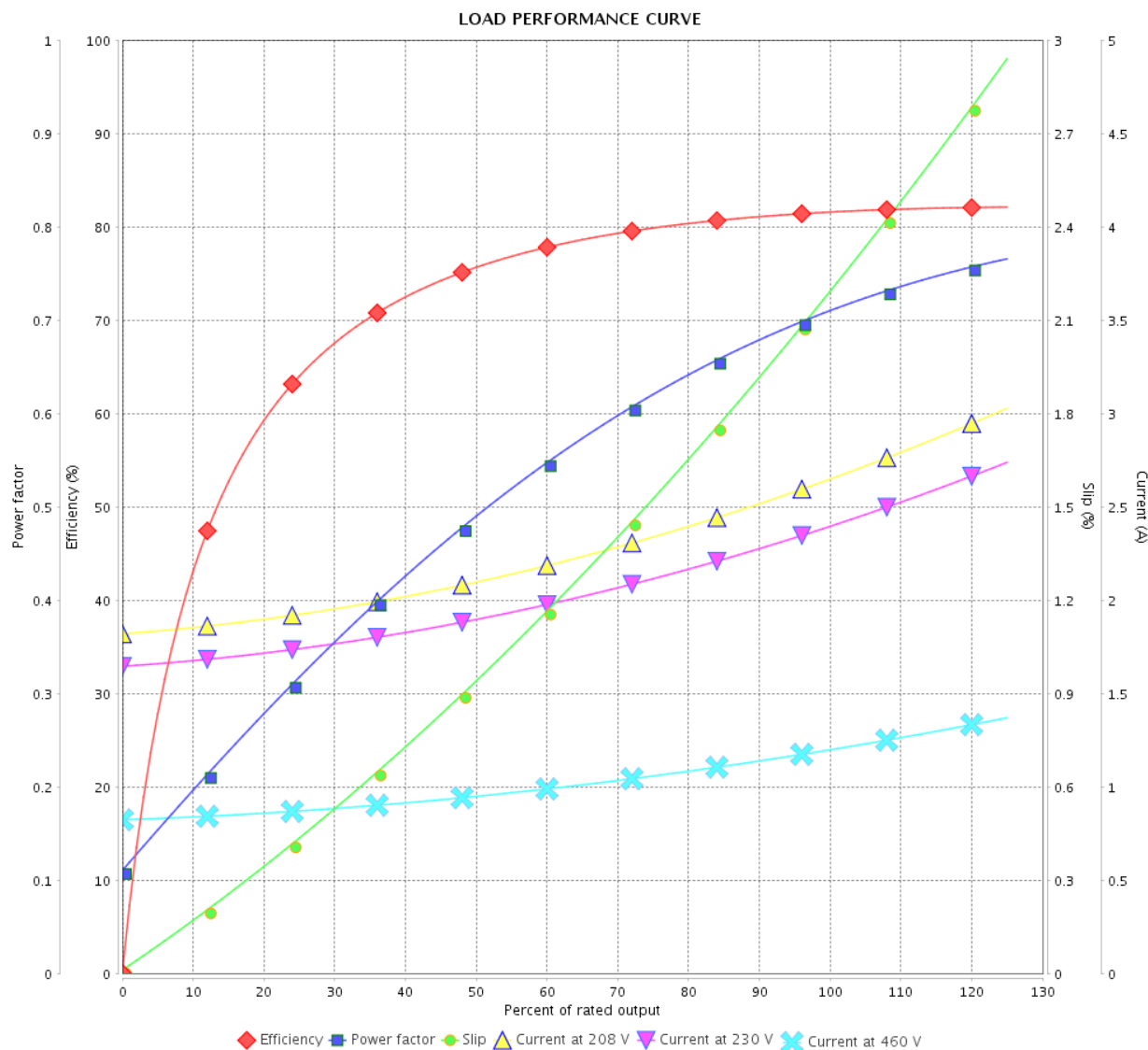
Customer :

Product line

: Premium Efficiency Three-Phase

Product code :

15311780



Performance : 208-230/460 V 60 Hz 4P

Rated current : 2.63-2.38/1.19 A
 LRC : 7.7
 Rated torque : 0.309 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 360 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0036 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					

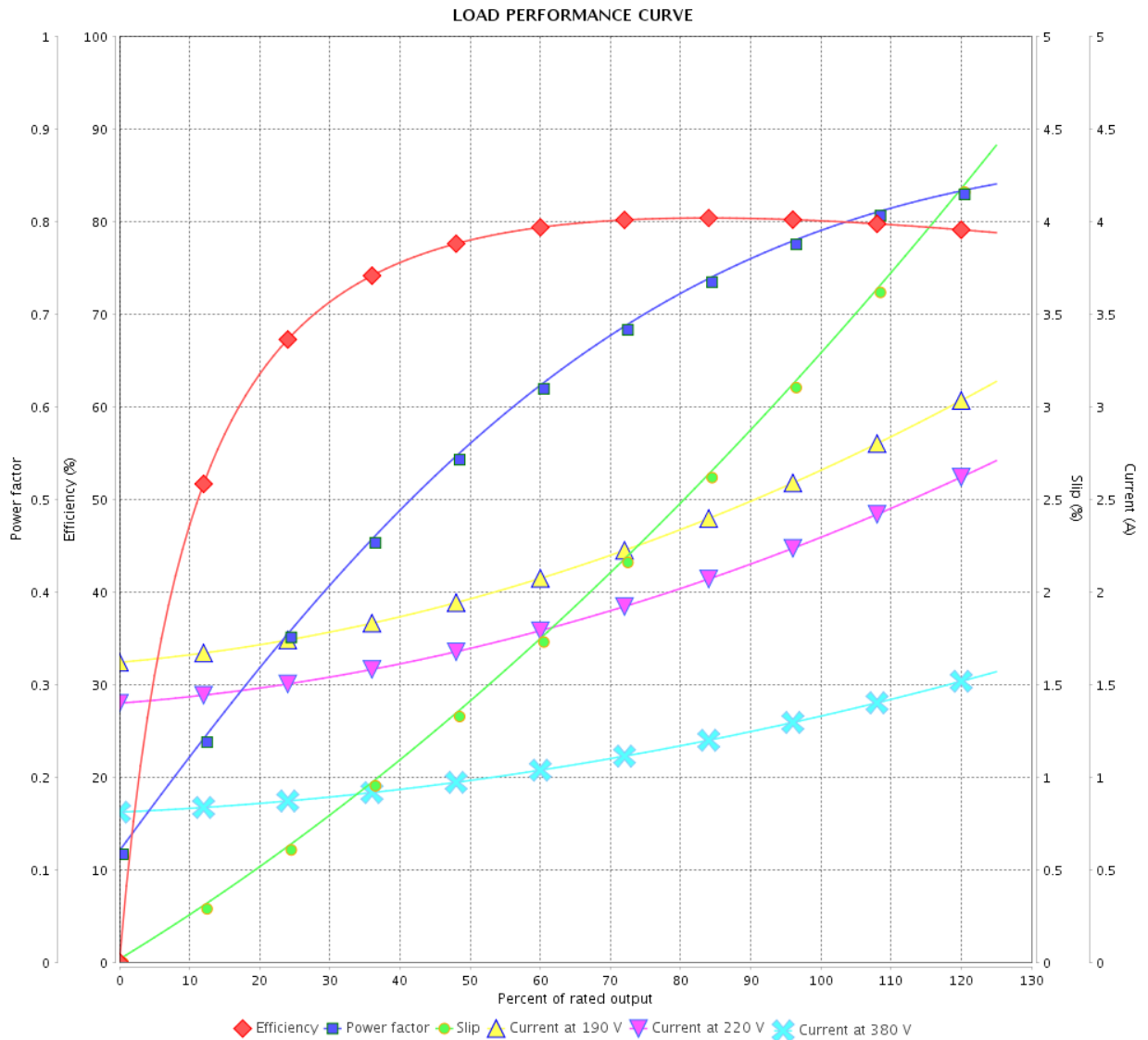
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780



Performance : 190-220/380 V 50 Hz 4P

Rated current : 2.64-2.28/1.32 A
 LRC : 6.1
 Rated torque : 0.375 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0036 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 / 4		
Checked by				
Date	17/05/2022			
		Revision		

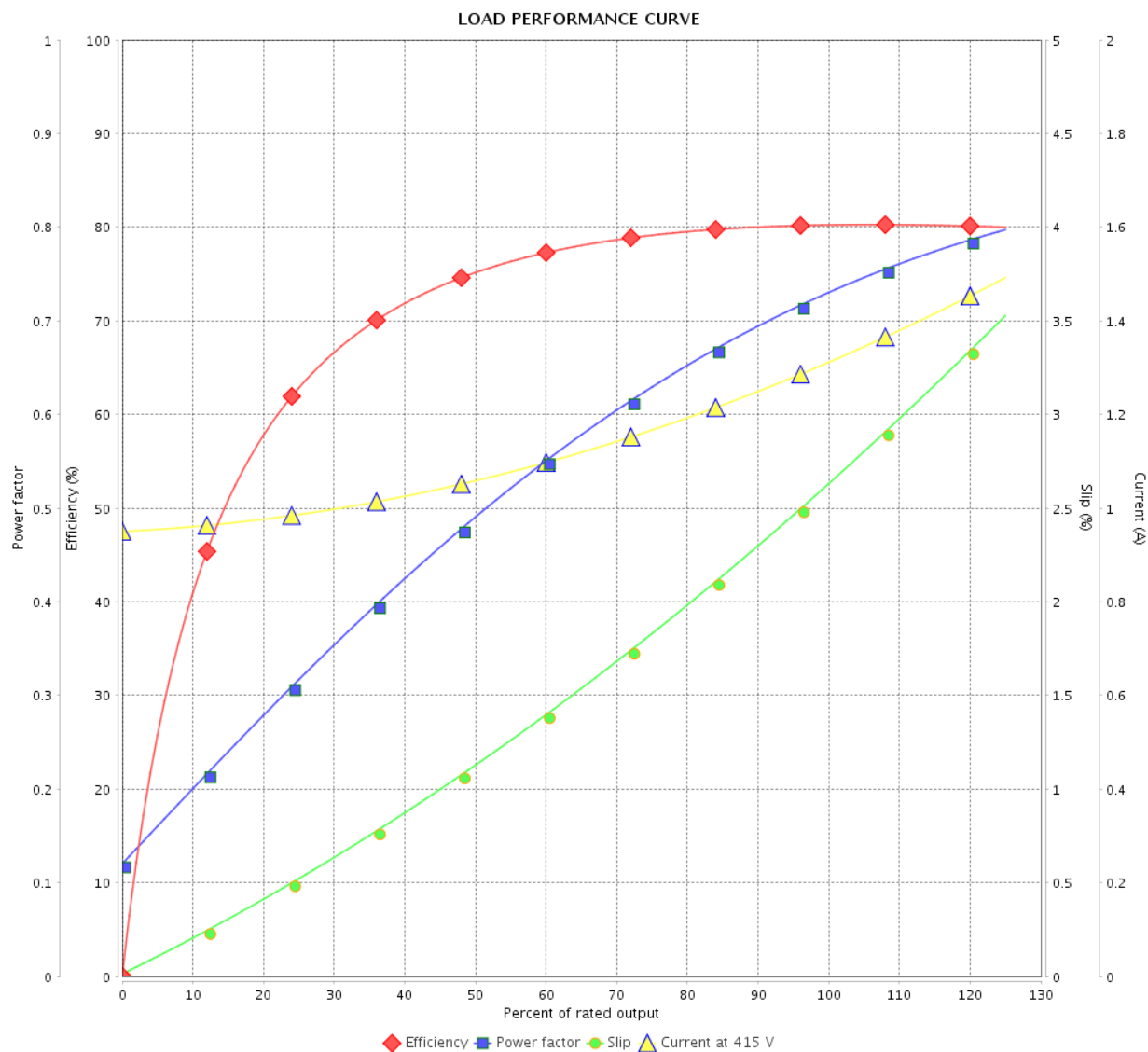
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780



Performance : 415 V 50 Hz 4P

Rated current : 1.31 A
 LRC : 6.8
 Rated torque : 0.373 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0036 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				4 / 4	
Date					

