

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 14595231

Frame	: 56	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	: 9.5 kg
		Moment of inertia (J)	: 0.0025 kgm ²

Output [HP]	0.5	0.5	0.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190-220/380	415
Rated current [A]	1.90-1.72/0.861	1.89-1.63/0.943	0.959
L. R. Amperes [A]	13.7-12.4/6.20	10.9-9.45/5.47	6.04
LRC [A]	7.2x(Code L)	5.8x(Code J)	6.3x(Code K)
No load current [A]	1.12-1.30/0.650	1.23-1.07/0.617	0.737
Rated speed [RPM]	1765	1450	1460
Slip [%]	1.94	3.33	2.67
Rated torque [kgfm]	0.206	0.250	0.249
Locked rotor torque [%]	240	180	220
Breakdown torque [%]	330	260	320
Service factor		1.25	1.25
Temperature rise	80 K	80 K	80 K
Locked rotor time	48s (cold) 27s (hot)	55s (cold) 31s (hot)	46s (cold) 26s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	70.0	68.9
	75%	75.5	74.6
	100%	78.2	76.7
Power Factor	25%		
	50%	0.47	0.47
	75%	0.60	0.60
	100%	0.69	0.70

Bearing type	: 6203 ZZ	6202 ZZ	Foundation loads
	: Without	Without	
Sealing	: Bearing Seal	Bearing Seal	Max. traction : 20 kgf
			Max. compression : 30 kgf
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				
Checked by				
Date	17/05/2022			

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Revision

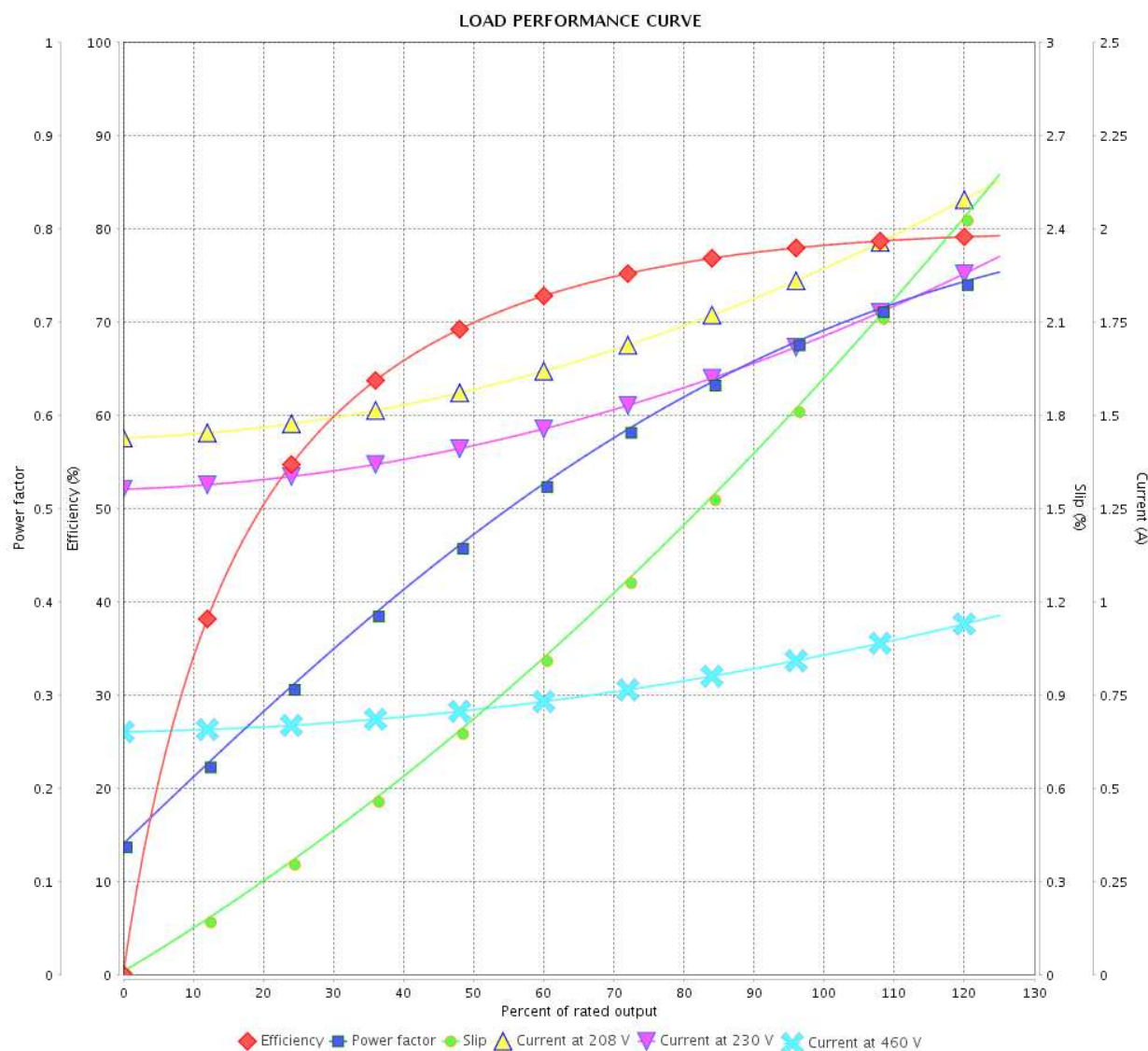
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 14595231



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

Rated current : 1.90-1.72/0.861 A
 LRC : 7.2
 Rated torque : 0.206 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 330 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0025 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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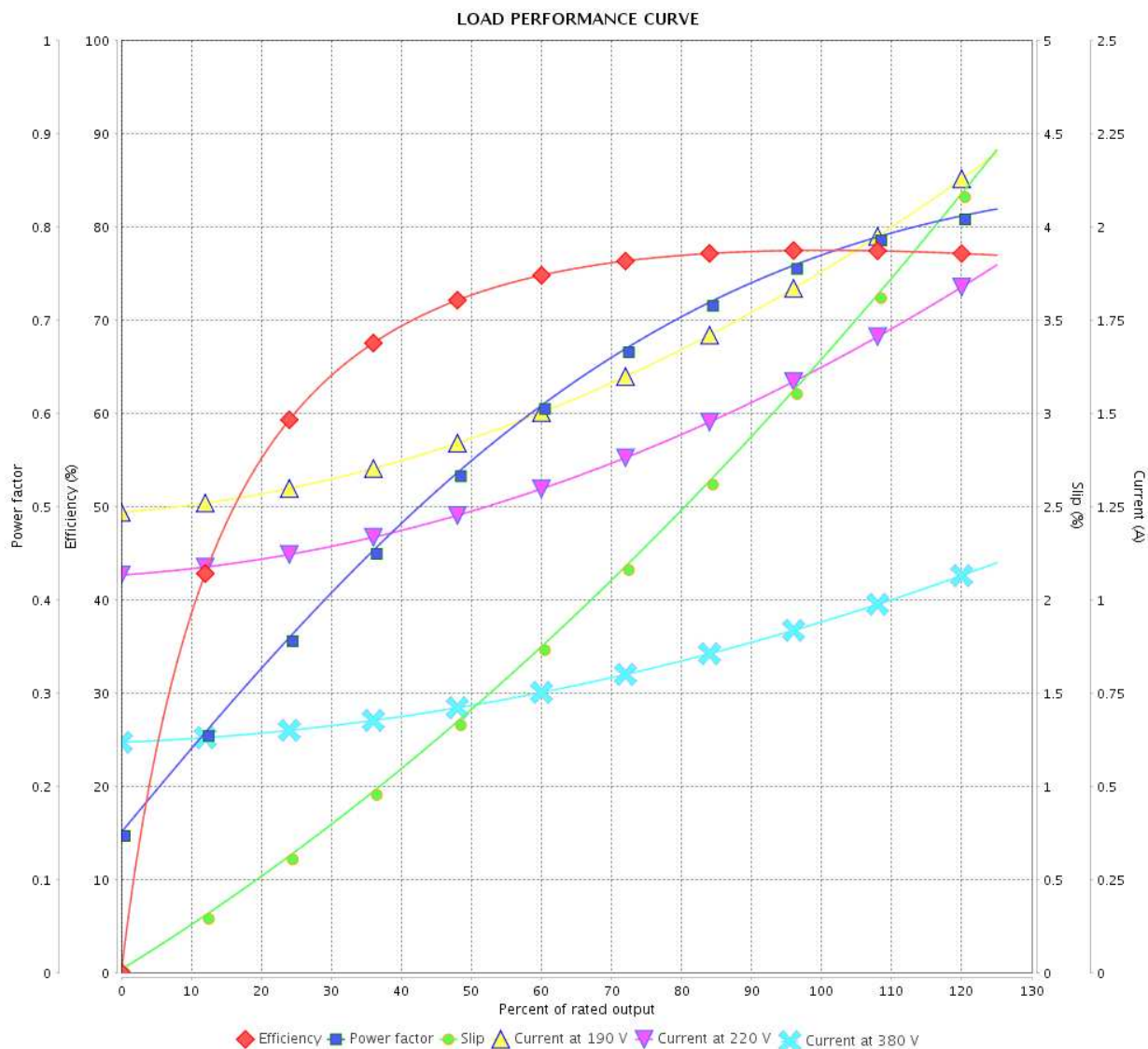
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Three Phase Induction Motor - Squirrel Cage



Customer :

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

Rated current : 1.89-1.63/0.943 A
 LRC : 5.8
 Rated torque : 0.250 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 260 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0025 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K

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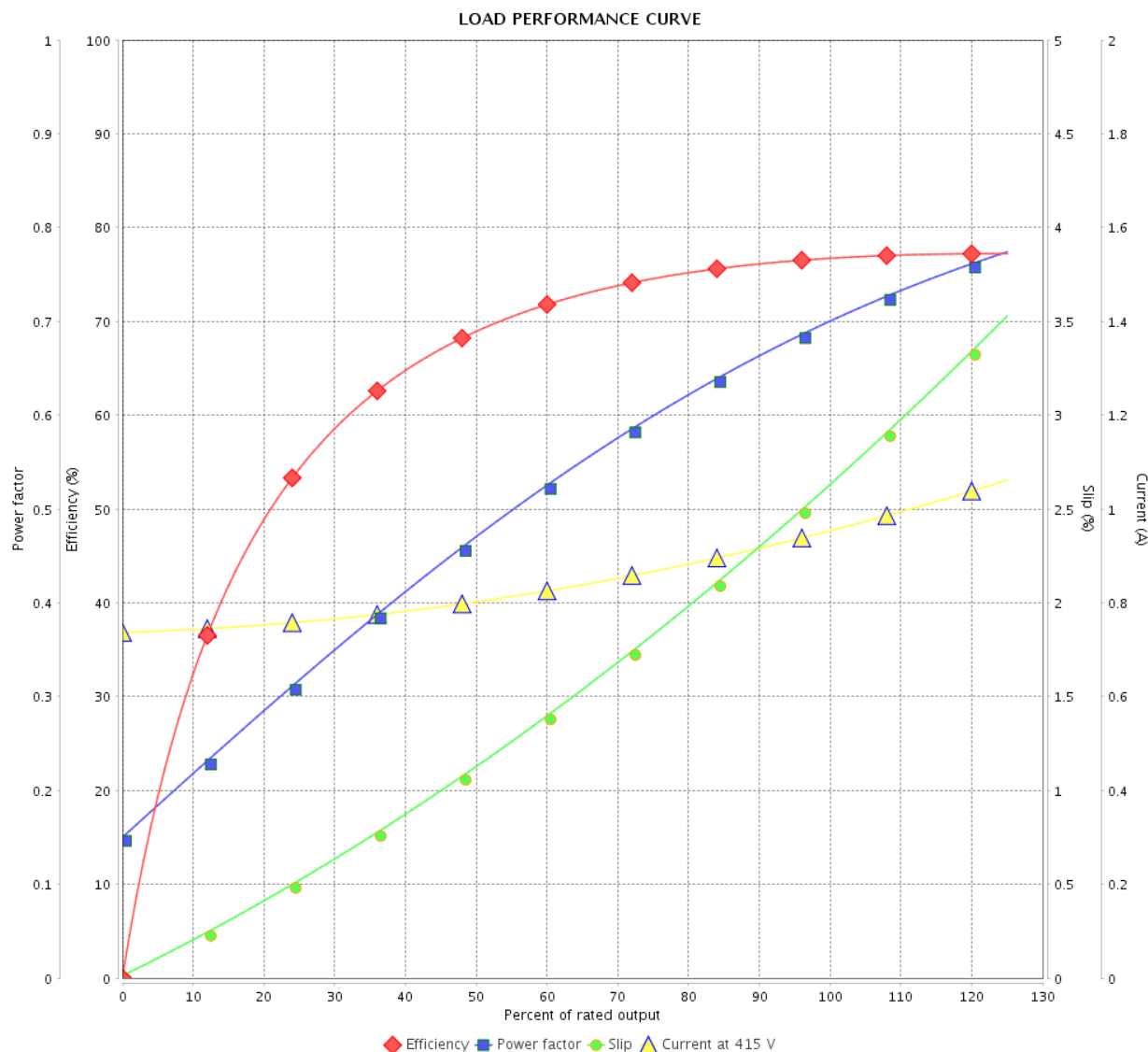
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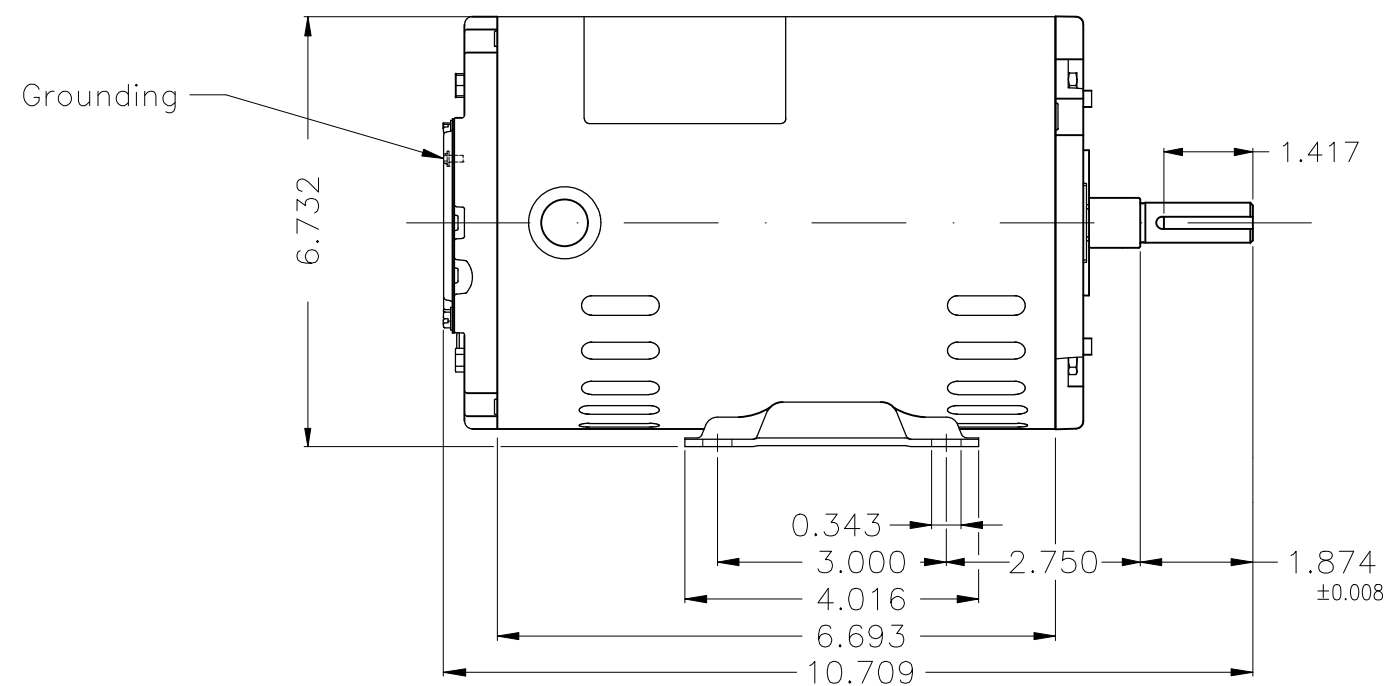
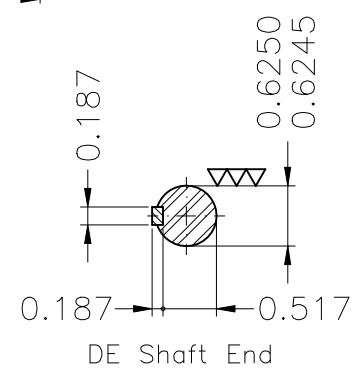
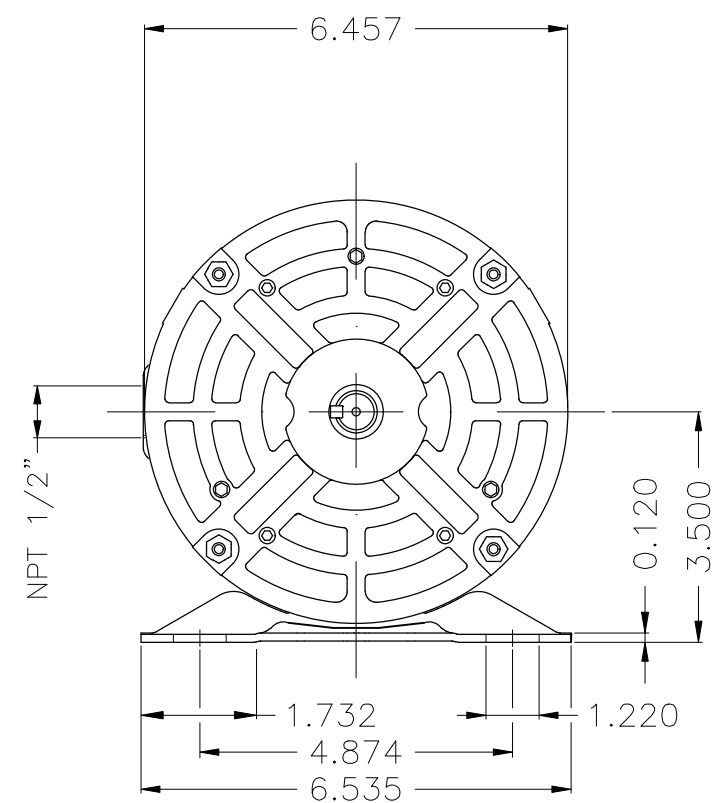


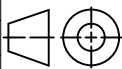
Performance : 415 V 50 Hz 4P

Rated current : 0.959 A
 LRC : 6.3
 Rated torque : 0.249 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 320 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0025 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K

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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B3R(D)									
				HYBRISUSER					00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 56 IP21 ODP			PREVIEW WDD 00			
CHECKED									
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			