

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency Three-Phase Product code : 16122659

Frame	: 63	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B35L(E)
Duty cycle	: 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	: 6.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0001 kgm ²
Design	: N		

Output [HP]	0.25	0.25	0.25
Poles	2	2	2
Frequency [Hz]	50	50	60
Rated voltage [V]	380	415	230/460
Rated current [A]	0.518	0.550	1.01/0.504
L. R. Amperes [A]	2.28	2.42	5.04/2.52
LRC [A]	4.4	4.4	5.0
No load current [A]	0.430	0.540	0.900/0.450
Rated speed [RPM]	2735	2780	3400
Slip [%]	8.83	7.33	5.56
Rated torque [kgfm]	0.066	0.065	0.053
Locked rotor torque [%]	220	270	320
Breakdown torque [%]	229	280	350
Service factor	1.00	1.00	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²	52.0 dB(A)	52.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%		
	50%	60.0	58.0
	75%	64.0	60.0
	100%	66.0	65.0
Power Factor	25%		
	50%	0.58	0.48
	75%	0.70	0.60
	100%	0.80	0.70

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6201 ZZ	6201 ZZ	Max. traction : 4 kgf
Sealing	: Oil Seal	Oil Seal	Max. compression : 10 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

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.

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Date	30/10/2024			

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Revision

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Three Phase Induction Motor - Squirrel Cage

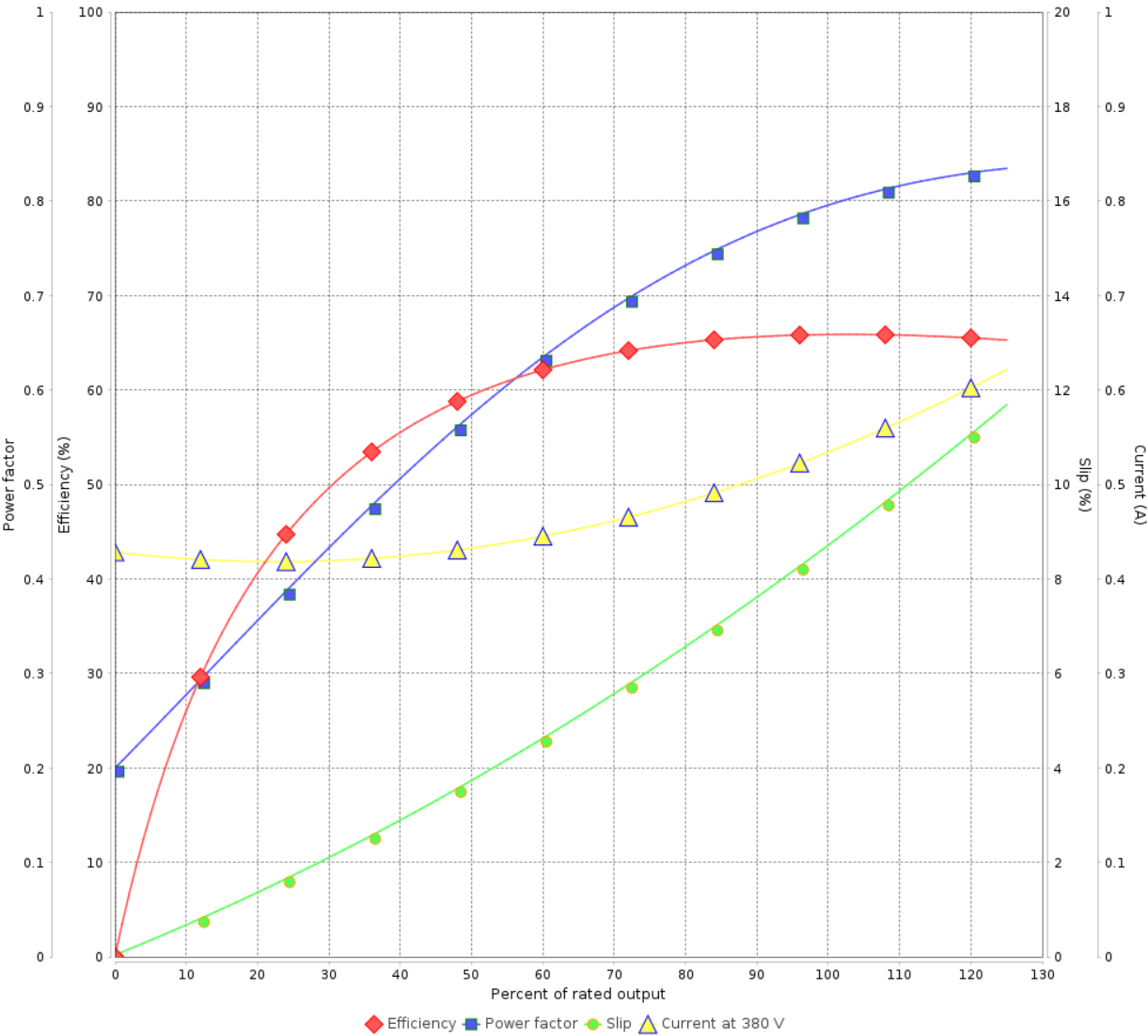


Customer :

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Three-Phase

Product code : 16122659

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Performance : 380 V 50 Hz 2P

Rated current : 0.518 A
LRC : 4.4
Rated torque : 0.066 kgfm
Locked rotor torque : 220 %
Breakdown torque : 229 %
Rated speed : 2735 rpm

Moment of inertia (J) : 0.0001 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

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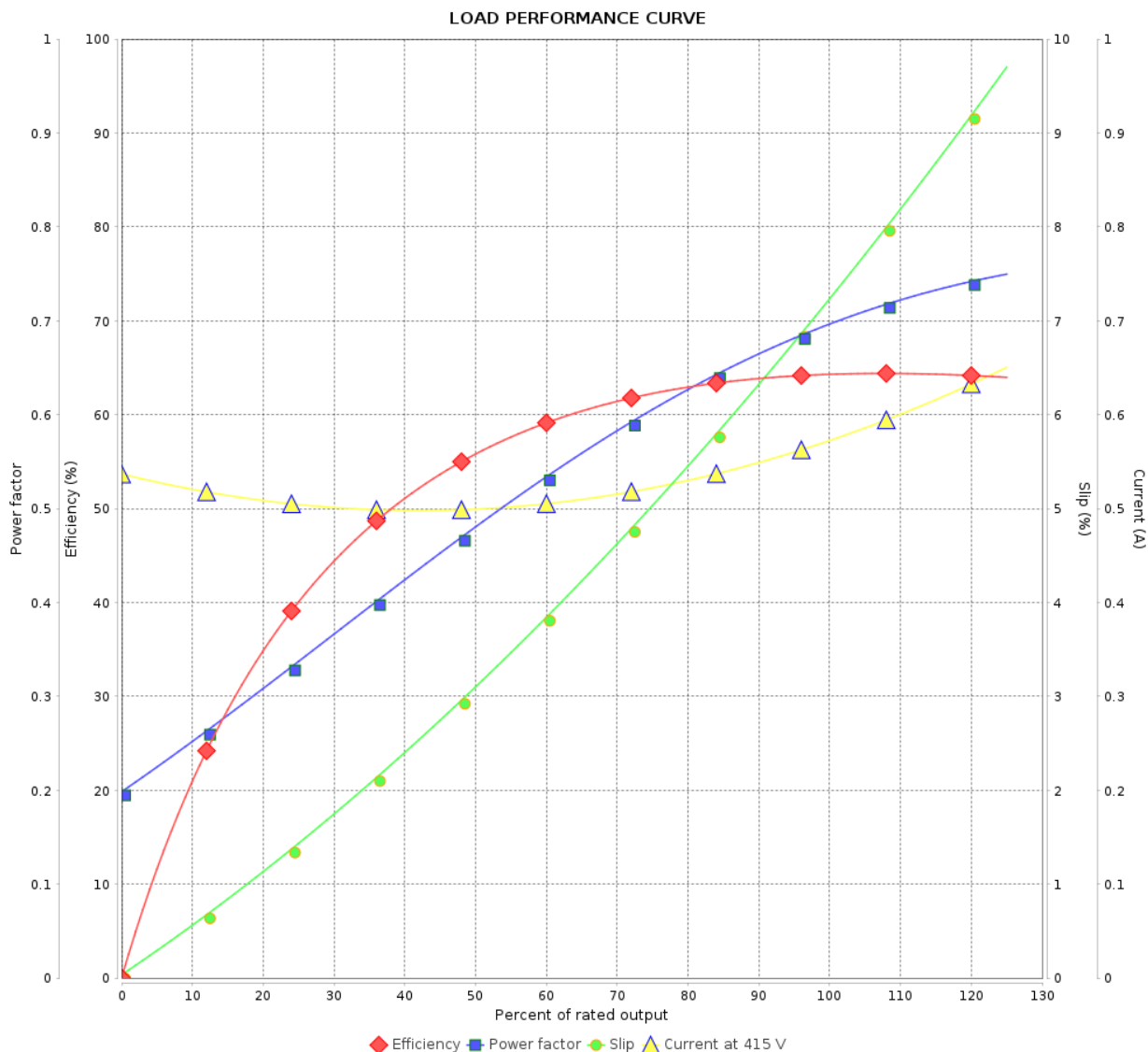
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 415 V 50 Hz 2P

Rated current : 0.550 A
LRC : 4.4
Rated torque : 0.065 kgfm
Locked rotor torque : 270 %
Breakdown torque : 280 %
Rated speed : 2780 rpm

Moment of inertia (J) : 0.0001 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

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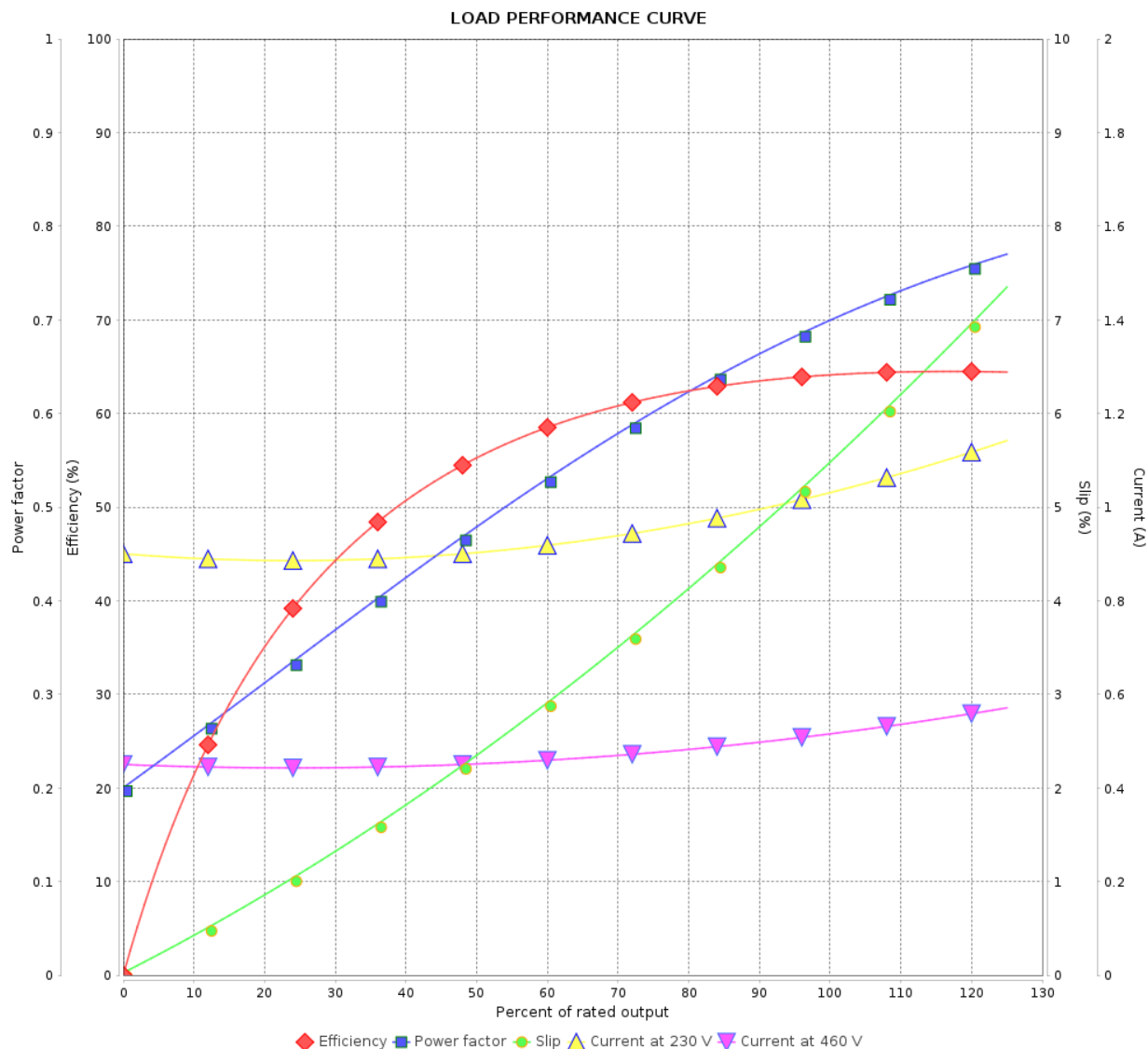
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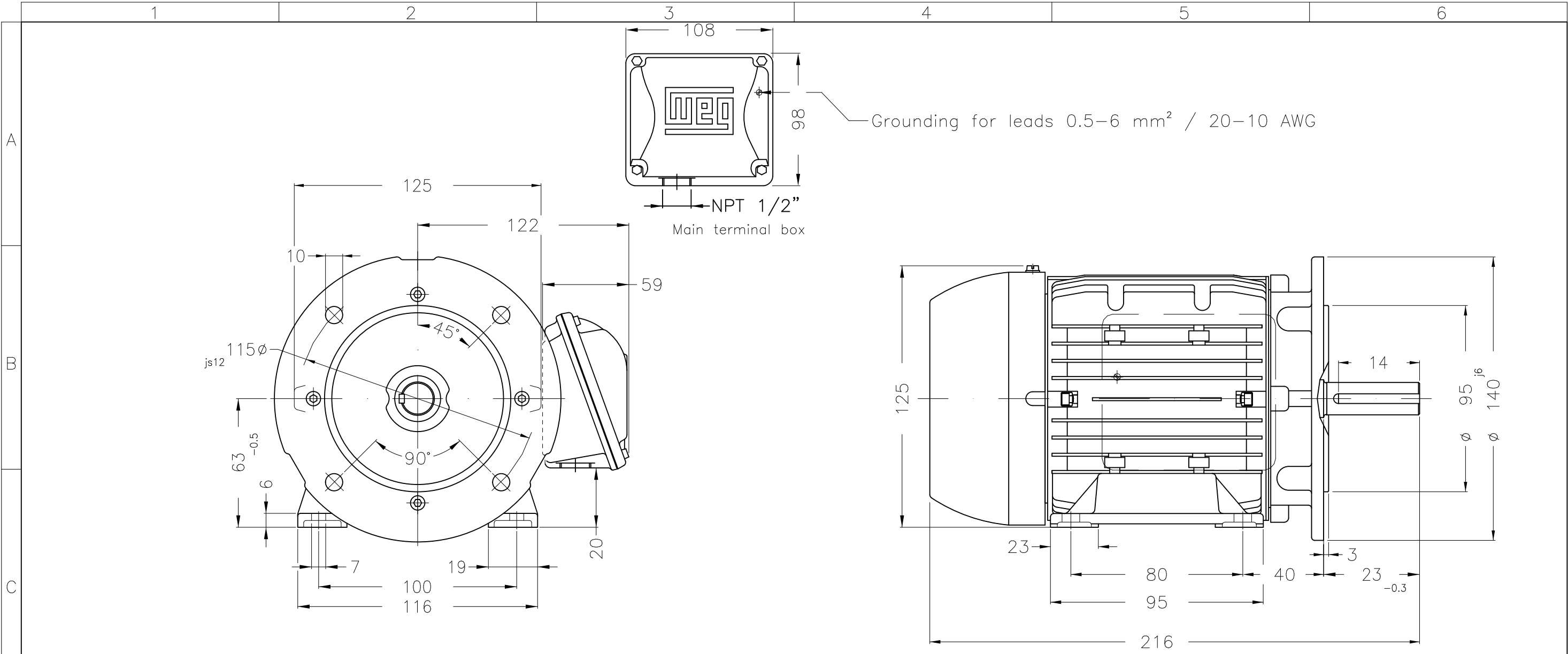


Performance : 230/460 V 60 Hz 2P

Rated current : 1.01/0.504 A
LRC : 5.0
Rated torque : 0.053 kgfm
Locked rotor torque : 320 %
Breakdown torque : 350 %
Rated speed : 3400 rpm

Moment of inertia (J) : 0.0001 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

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0.25 HP 02 Poles 60 Hz										A