

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : General High Efficiency Three-Phase      Product code : 11074488

Frame	: 182TC	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 27.8 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0054 kgm <sup>2</sup>
Design	: B		

Output [HP]	5	5	5	5
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	12.5/6.24	7.74	7.39	7.30
L. R. Amperes [A]	88.6/44.3	43.3	45.8	48.2
LRC [A]	7.1x(Code H)	5.6x(Code G)	6.2x(Code H)	6.6x(Code H)
No load current [A]	5.60/2.80	2.70	3.30	3.80
Rated speed [RPM]	3510	2875	2890	2900
Slip [%]	2.50	4.17	3.67	3.33
Rated torque [kgfm]	1.03	1.26	1.26	1.25
Locked rotor torque [%]	180	150	160	180
Breakdown torque [%]	290	210	240	260
Service factor	1.15	1.00	1.00	1.00
Temperature rise	105 K	105 K	105 K	105 K
Locked rotor time	21s (cold) 12s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)
Noise level <sup>2</sup>	64.0 dB(A)			
Efficiency (%)	25%			
	50%	85.5	82.5	82.5
	75%	86.5	84.0	84.0
	100%	86.5	82.5	84.0
Power Factor	25%			
	50%	0.70	0.76	0.71
	75%	0.80	0.85	0.82
	100%	0.86	0.88	0.86

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6206 ZZ	6205 ZZ	Max. traction	: 54 kgf
Sealing	: Without	Without	Max. compression	: 82 kgf
	Bearing Seal	Bearing Seal		
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes  
USABLE @208V 13.6A SF 1.15 SFA 15.7A

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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# LOAD PERFORMANCE CURVE

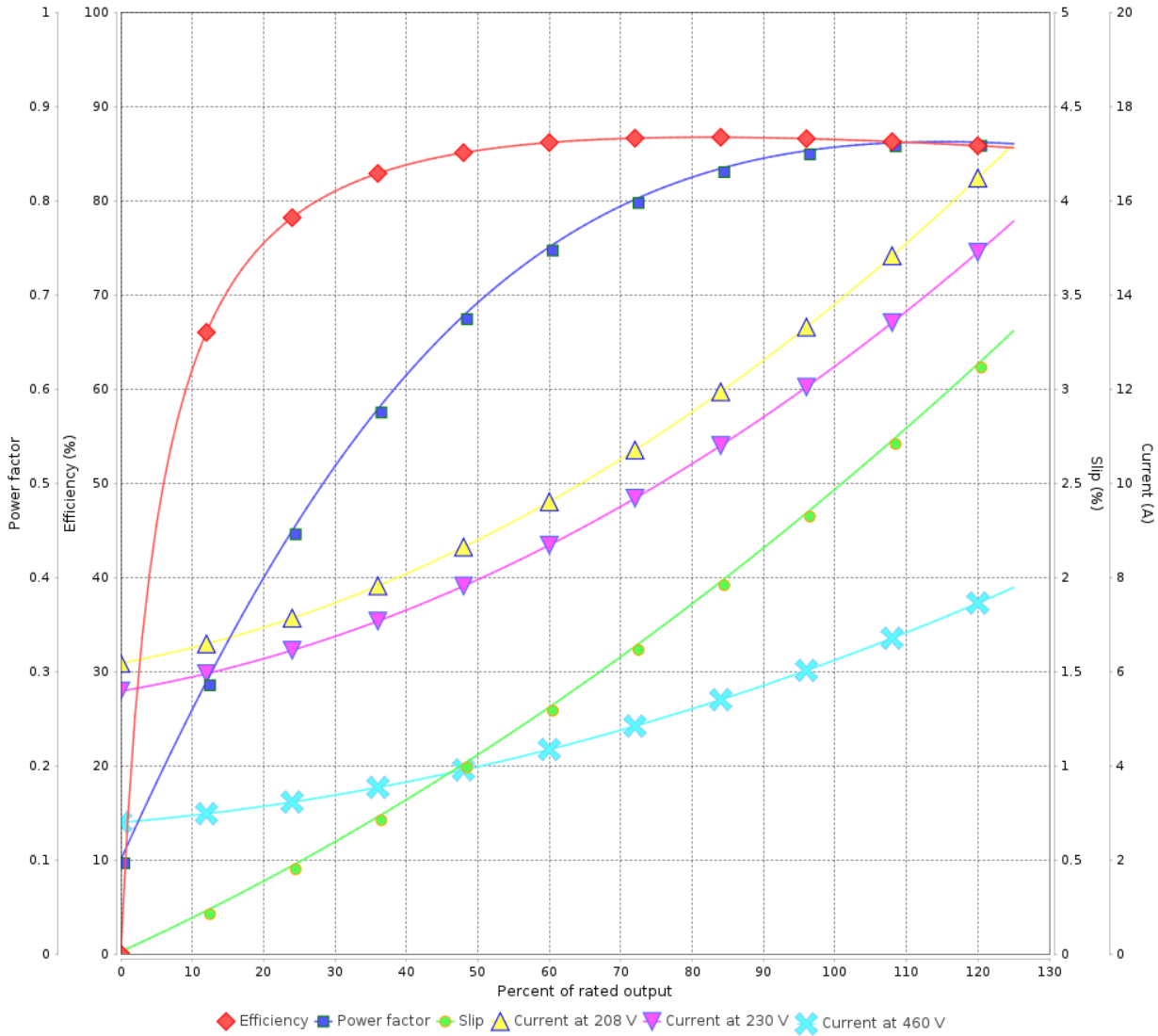
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : General High Efficiency Three-Phase      Product code : 11074488

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 12.5/6.24 A  
 LRC : 7.1  
 Rated torque : 1.03 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 290 %  
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.0054 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 105 K  
 Design : B

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# LOAD PERFORMANCE CURVE

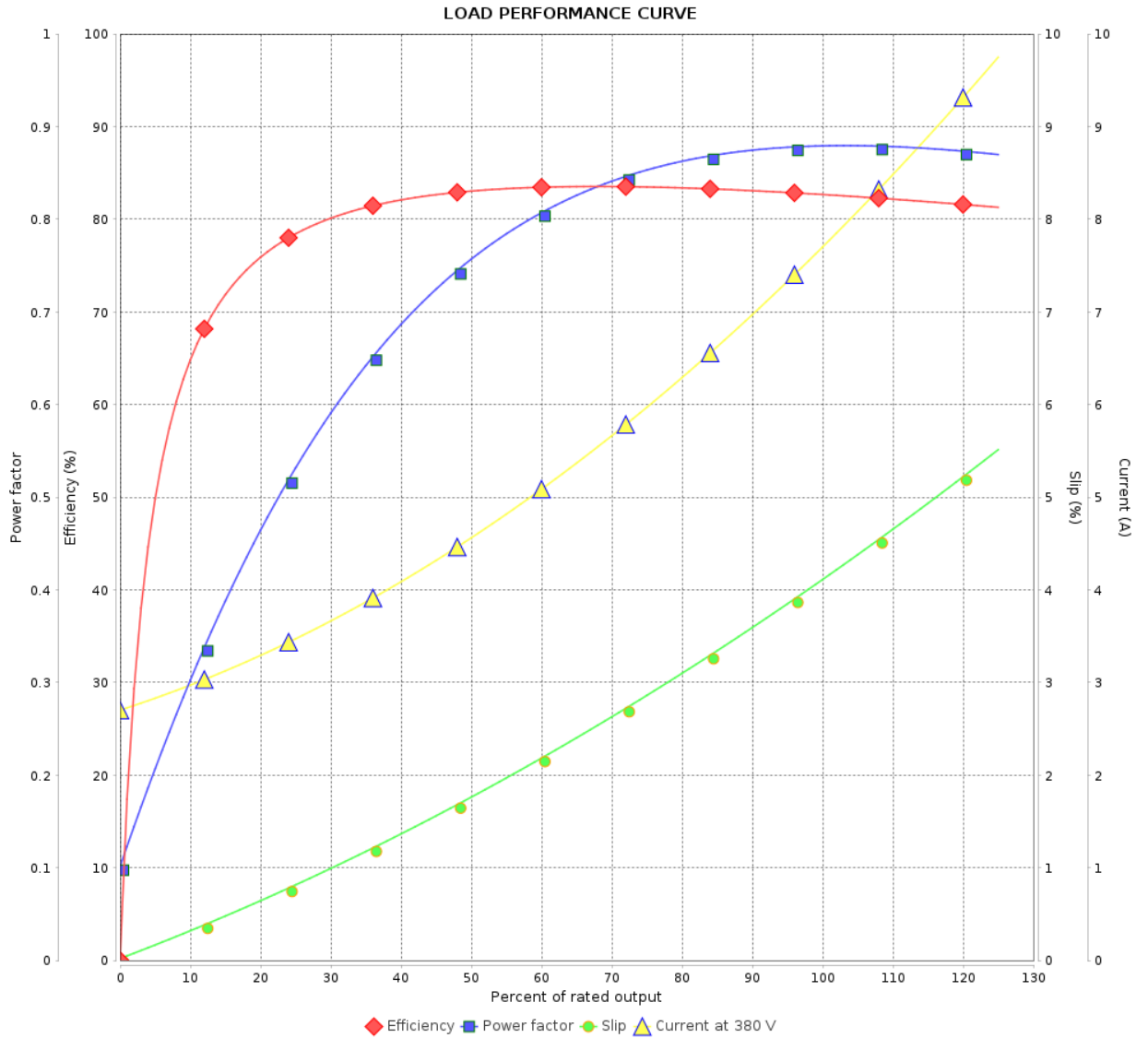
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase

Product code : 11074488



Performance : 380 V 50 Hz 2P

Rated current : 7.74 A  
 LRC : 5.6  
 Rated torque : 1.26 kgfm  
 Locked rotor torque : 150 %  
 Breakdown torque : 210 %  
 Rated speed : 2875 rpm

Moment of inertia (J) : 0.0054 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

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# LOAD PERFORMANCE CURVE

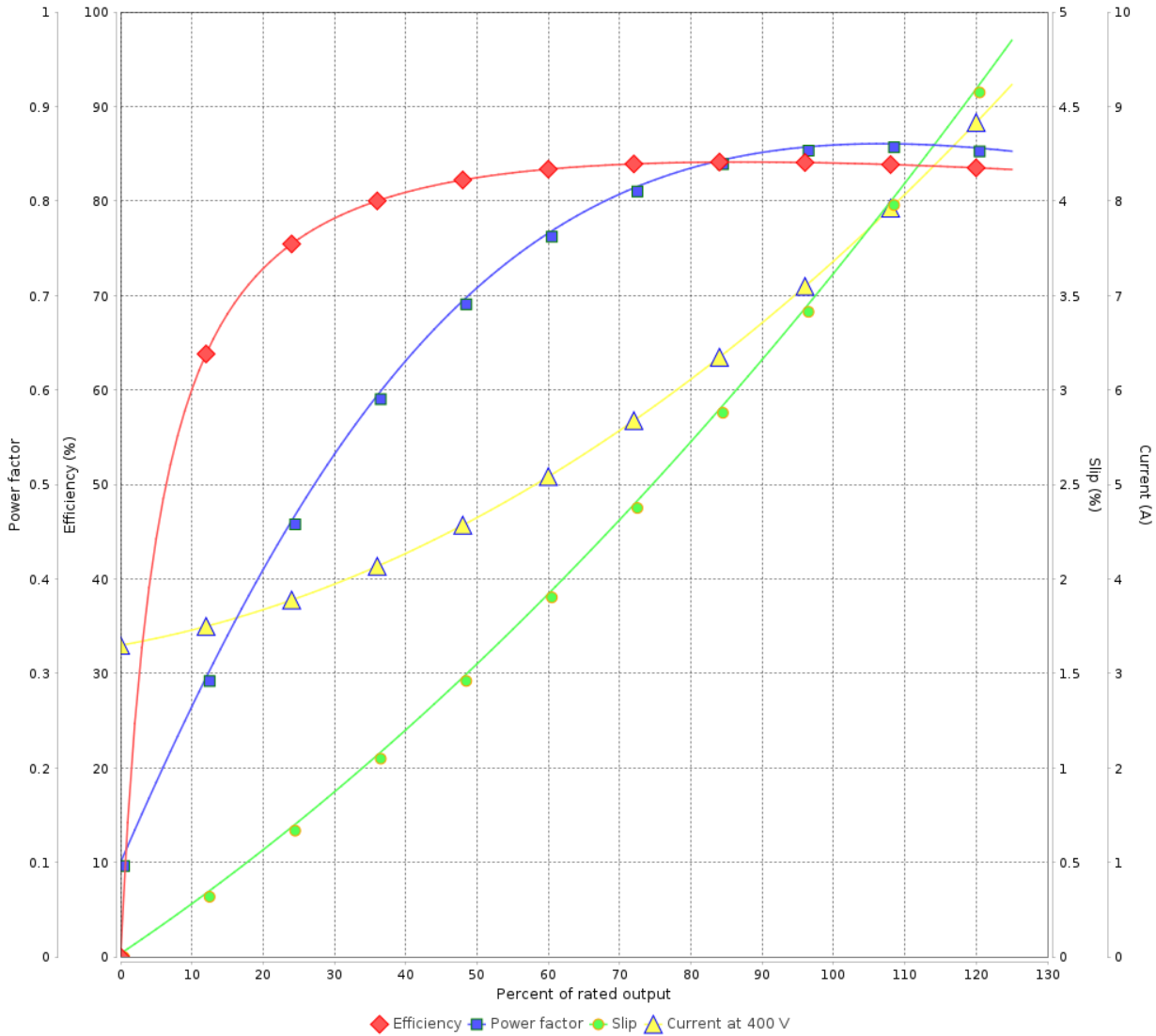
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase      Product code : 11074488

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 2P IE1

Rated current	: 7.39 A	Moment of inertia (J)	: 0.0054 kgm <sup>2</sup>
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 1.26 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2890 rpm	Design	: B

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# LOAD PERFORMANCE CURVE

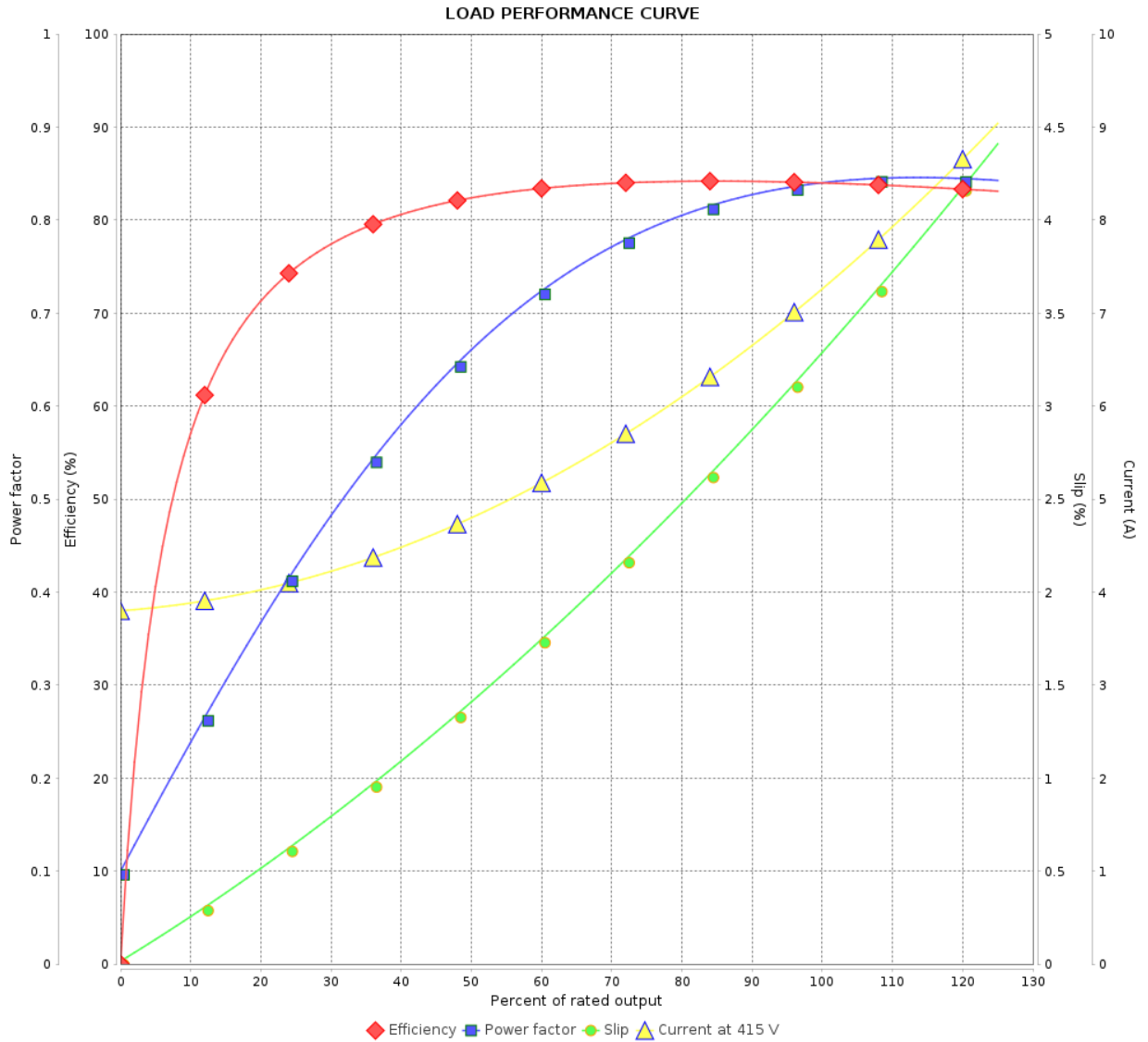
Three Phase Induction Motor - Squirrel Cage



Customer :

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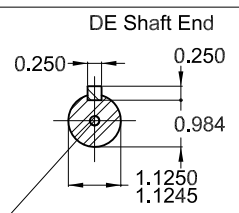
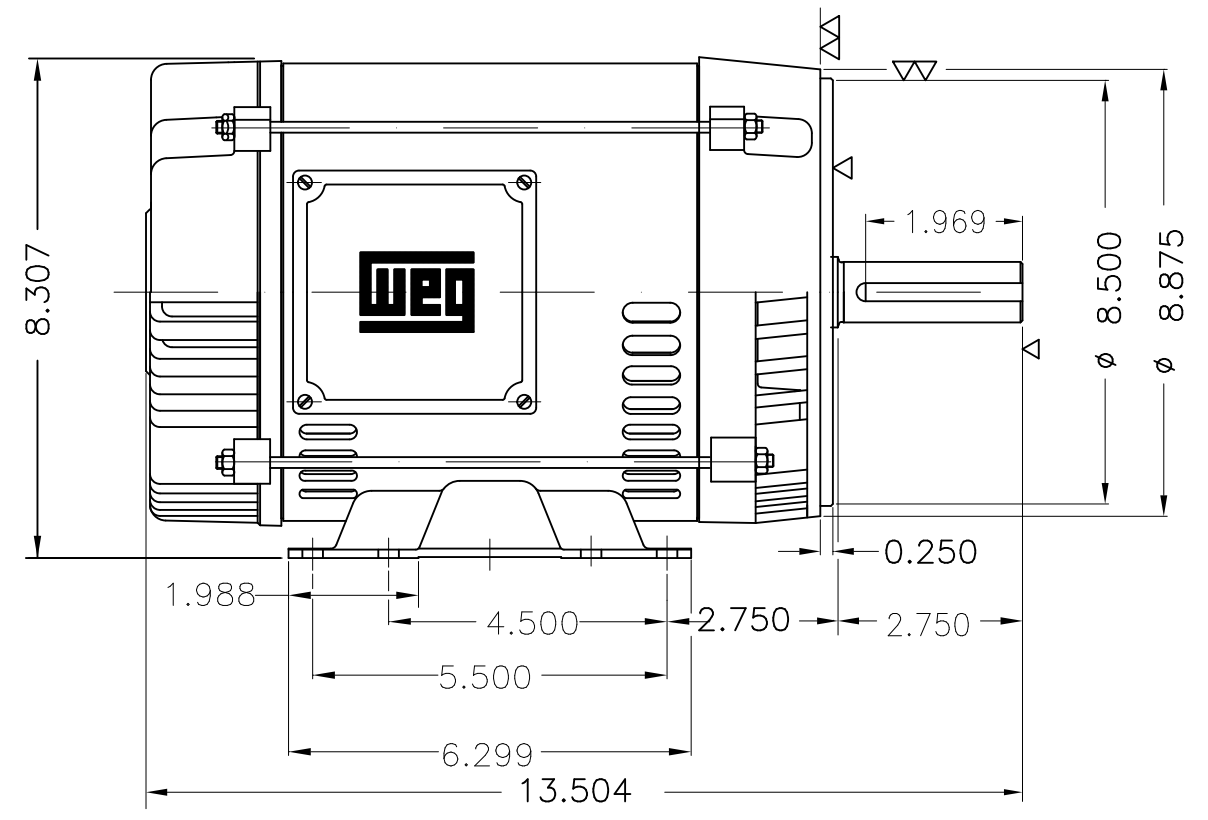
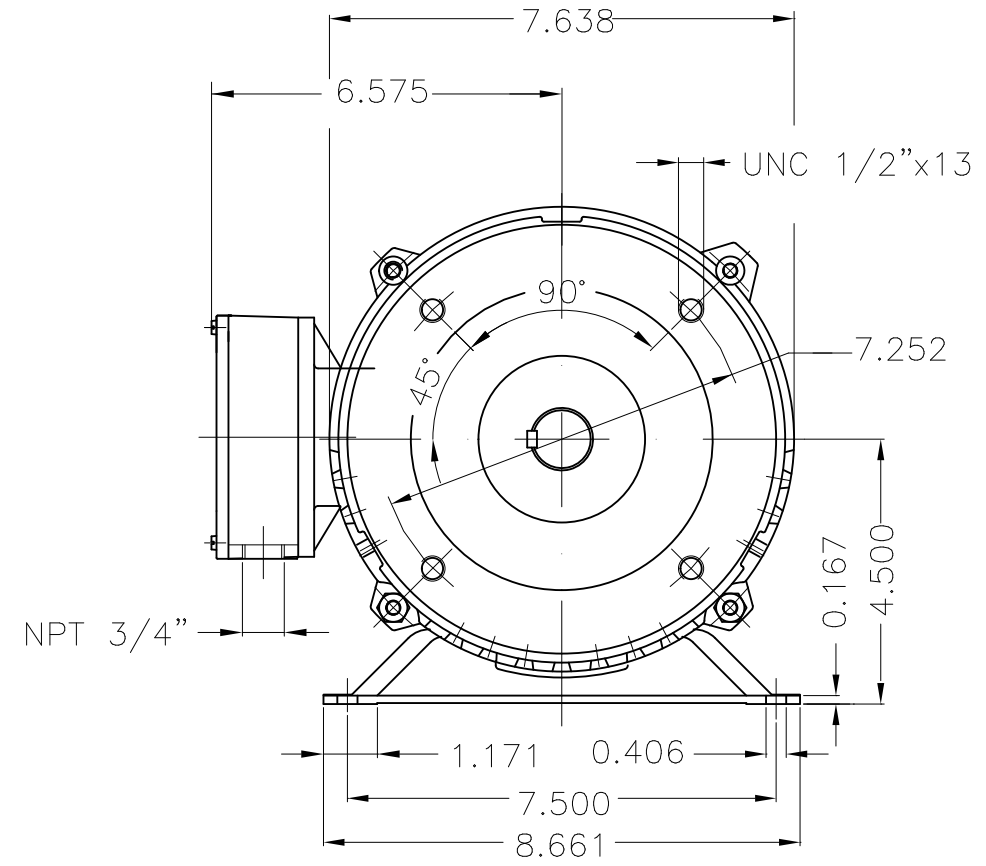


Performance : 415 V 50 Hz 2P IE1

Rated current : 7.30 A  
 LRC : 6.6  
 Rated torque : 1.25 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 260 %  
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0054 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

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Without switch off thermal protection  
 Bearing cap  
 Color RAL 5009  
 Painting plan 207A  
 Mounting B34R(D)

5 HP 02 Poles 60 Hz A

						HYBRISUSER								00		
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER						
EXECUTED	HYBRISUSER	THREE PH. MOTOR GENERAL HIGH EFF.														
CHECKED		FRAME 182TC IP21 ODP														
RELEASED																
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1									

**PREVIEW**  
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