

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : Three-Phase		Product code : 13997115			
Frame	: 56HC	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	: 18.1 kg		
Design	: A	Moment of inertia (J)	: 0.0054 kgm ²		
Output [HP]	3	3	3		
Poles	2	2	2		
Frequency [Hz]	60	50	50		
Rated voltage [V]	230/460	190/380	220/415		
Rated current [A]	7.18/3.59	8.78/4.39	7.56/4.01		
L. R. Amperes [A]	57.4/28.7	53.6/26.8	56.0/29.7		
LRC [A]	8.0x(Code J)	6.1x(Code G)	7.4x(Code J)		
No load current [A]	2.60/1.30	2.60/1.30	2.91/1.54		
Rated speed [RPM]	3480	2825	2860		
Slip [%]	3.33	5.83	4.67		
Rated torque [kgfm]	0.626	0.771	0.761		
Locked rotor torque [%]	229	190	240		
Breakdown torque [%]	300	229	270		
Service factor		1.00	1.00		
Temperature rise	80 K	105 K	105 K		
Locked rotor time	16s (cold) 9s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)		
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)		
Efficiency (%)	25%				
	50%	84.0	86.6	86.2	
	75%	85.5	85.0	85.9	
	100%	85.5	81.8	83.9	
Power Factor	25%				
	50%	0.76	0.83	0.76	
	75%	0.86	0.90	0.86	
	100%	0.90	0.93	0.91	
Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ	Foundation loads			
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction	: 57 kgf		
		Max. compression	: 75 kgf		
Lubrication interval	: -				
Lubricant amount	: -				
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 7.94A SF 1.00 SFA 7.94A					
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				Page	Revision
Date	11/05/2022			1 / 4	

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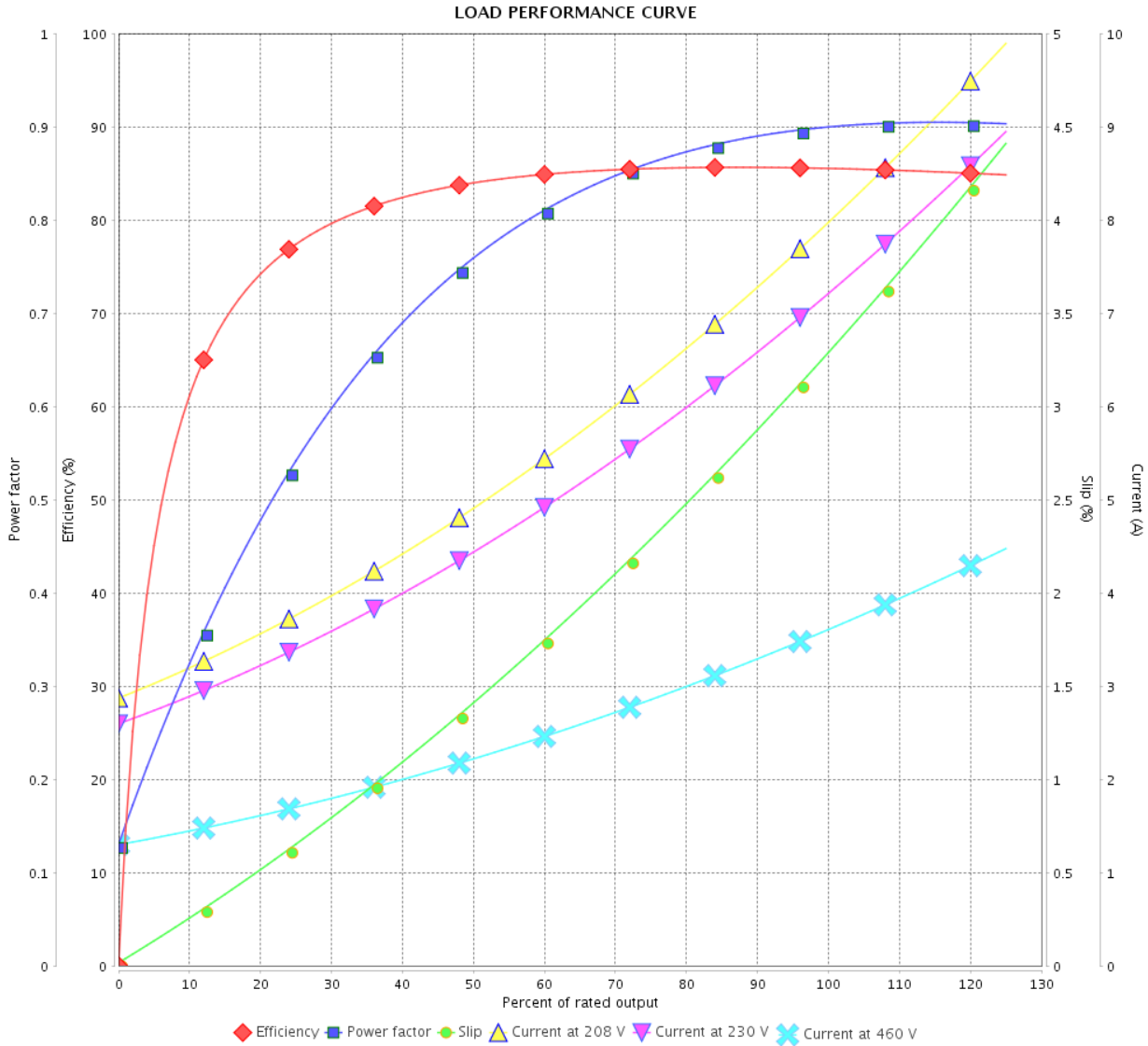
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

Product code : 13997115



Performance : 230/460 V 60 Hz 2P

Rated current : 7.18/3.59 A
 LRC : 8.0
 Rated torque : 0.626 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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Date				

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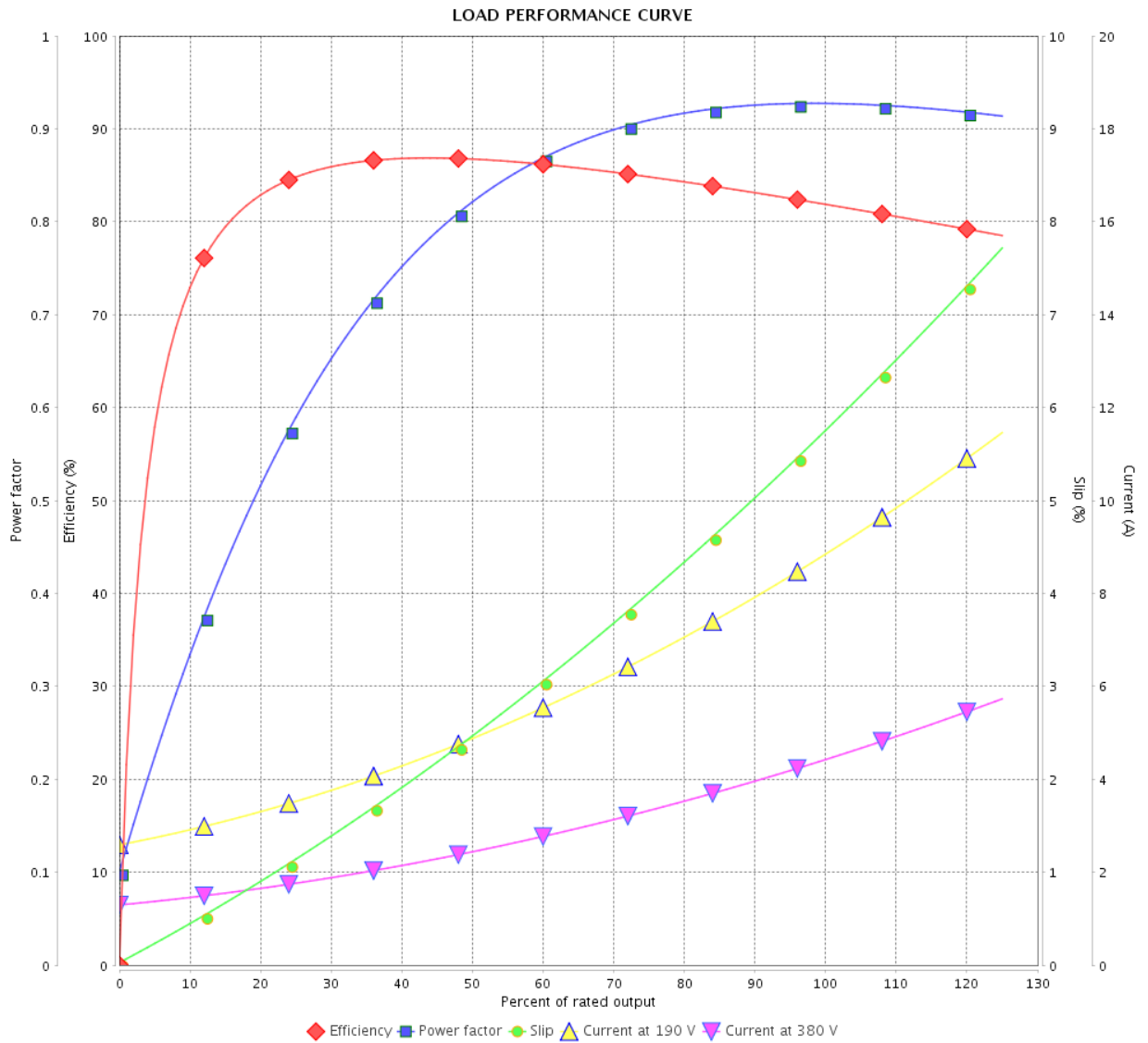
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

Product code : 13997115



Performance : 190/380 V 50 Hz 2P

Rated current : 8.78/4.39 A
 LRC : 6.1
 Rated torque : 0.771 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 2825 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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Three Phase Induction Motor - Squirrel Cage

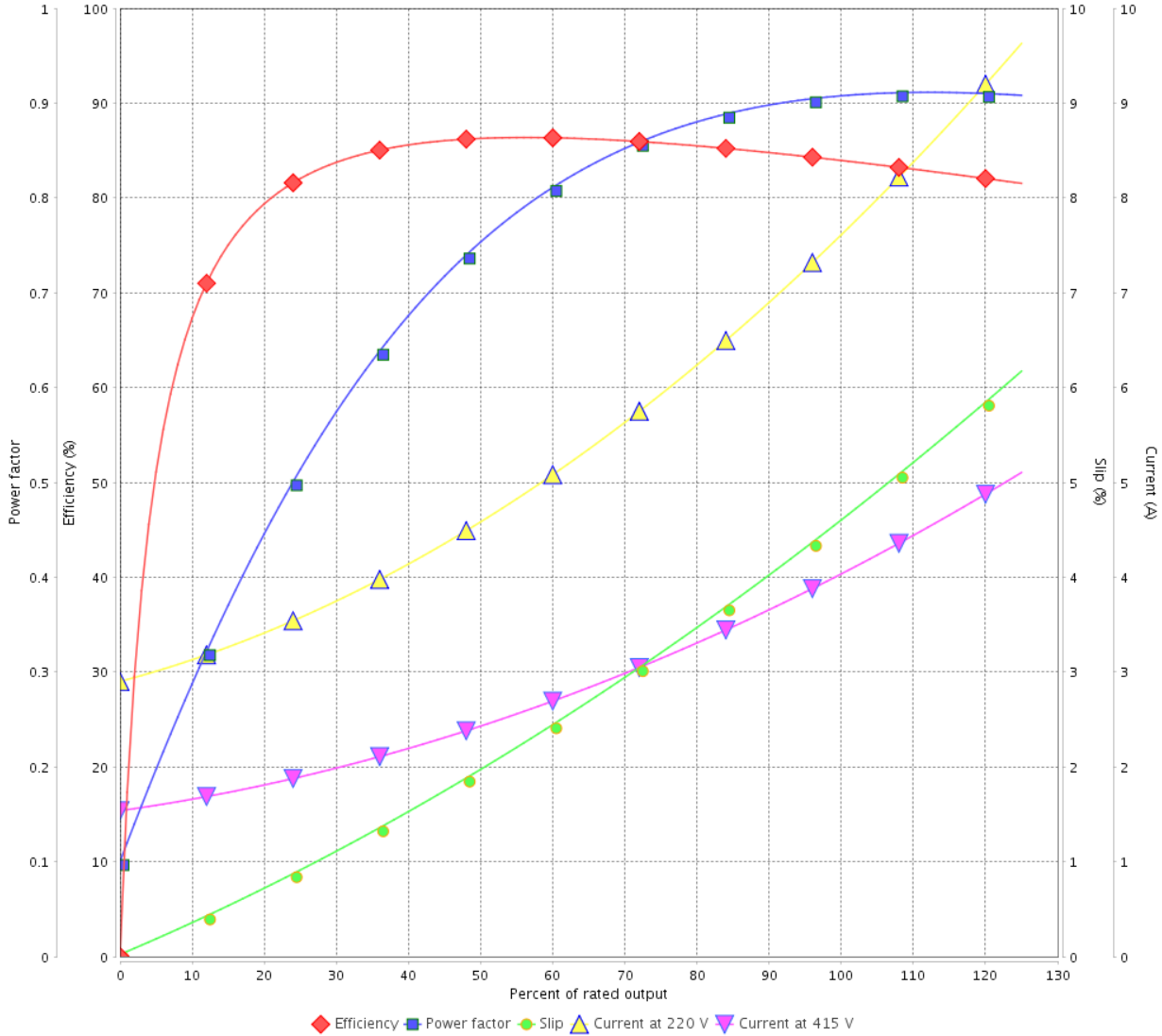


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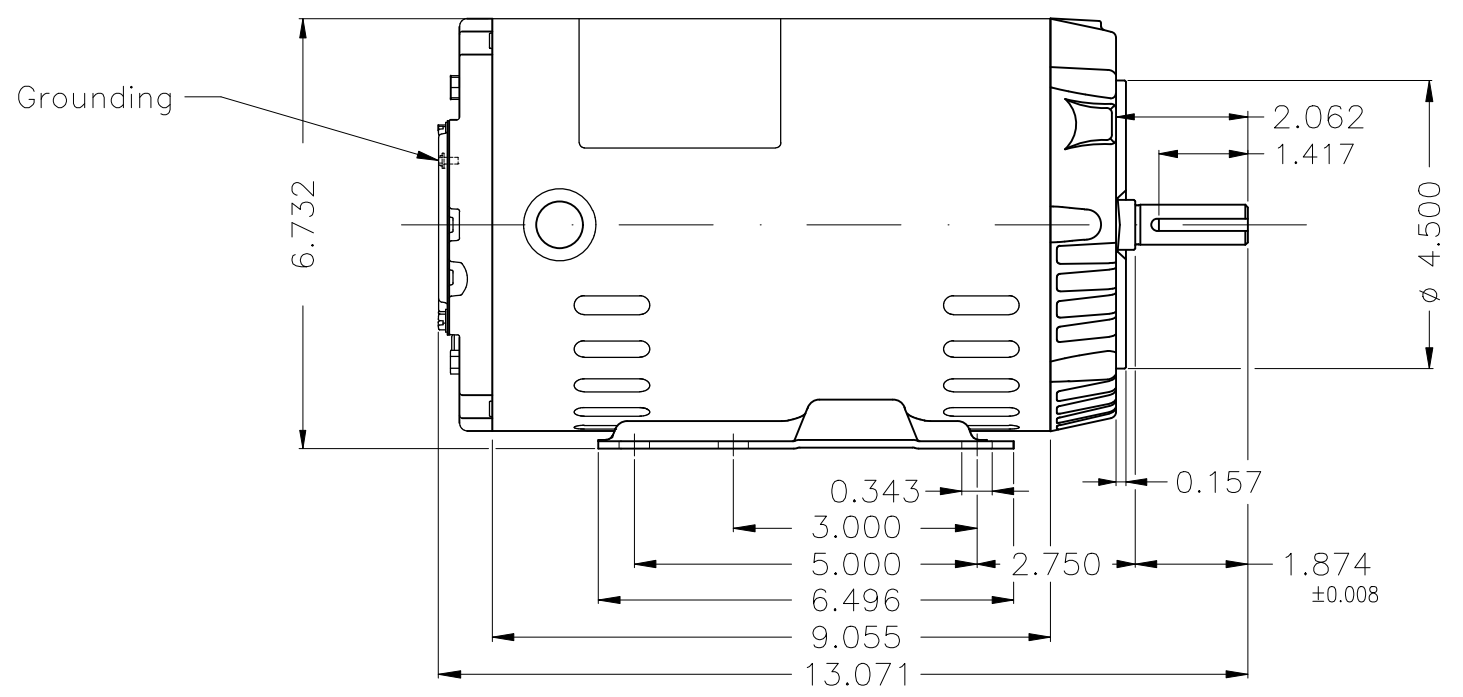
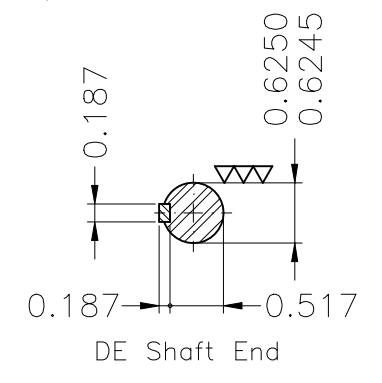
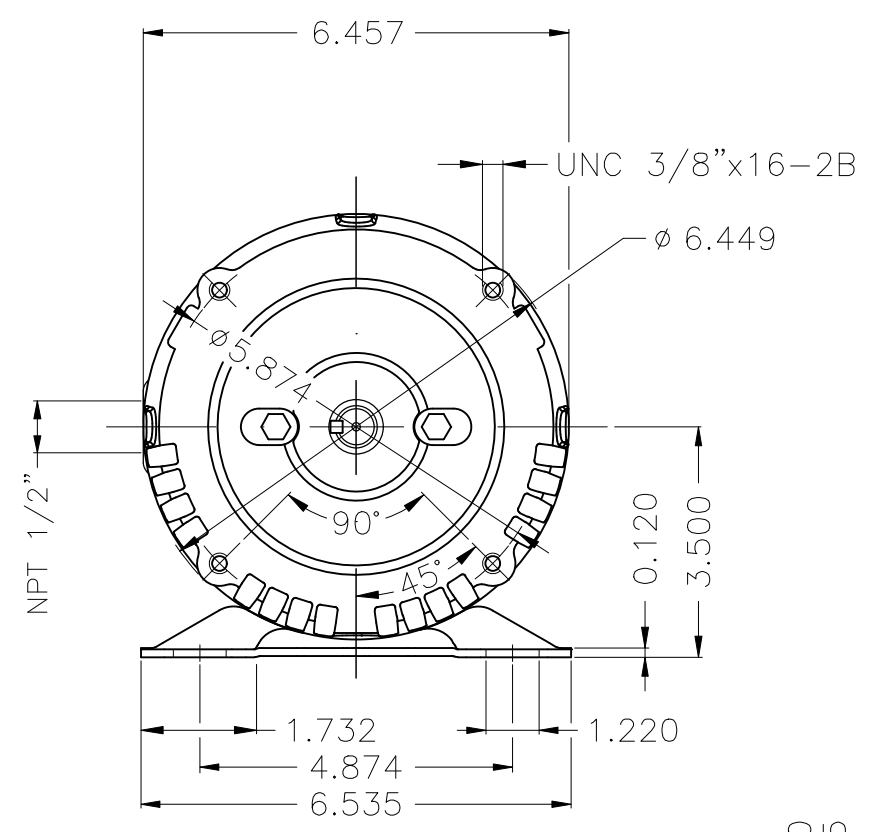


Performance : 220/415 V 50 Hz 2P

Rated current : 7.56/4.01 A
 LRC : 7.4
 Rated torque : 0.761 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 2860 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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Color Munsell N 1 matte black						
Painting plan 207N						
Mounting B34D						
					HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED DATE VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.				
CHECKED		FRAME 56HC IP21 ODP				
RELEASED						
REL. DATE		WMO	Jaragua do Sul	Product Engineering	PREVIEW	
					WDD	00
				SHEET	1 / 1	

3 HP 02 Poles 60 Hz

A

