

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : Three-Phase		Product code : 13702735			
Frame : 56HC	Insulation class : F	Cooling method : IC01 - ODP	Mounting : F-1		
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation ¹ : Both (CW and CCW)	Starting method : Direct On Line		
Altitude : 1000 m.a.s.l.	Design : A	Approx. weight ² : 17.4 kg	Moment of inertia (J) : 0.0049 kgm ²		
Output [HP]	2	2	2		
Poles	4	4	4		
Frequency [Hz]	60	50	50		
Rated voltage [V]	230/460	190/380	220/415		
Rated current [A]	5.38/2.69	6.52/3.26	5.79/3.07		
L. R. Amperes [A]	41.4/20.7	36.5/18.3	38.8/20.6		
LRC [A]	7.7x(Code K)	5.6x(Code G)	6.7x(Code J)		
No load current [A]	2.75/1.38	2.70/1.35	3.08/1.63		
Rated speed [RPM]	1740	1410	1430		
Slip [%]	3.33	6.00	4.67		
Rated torque [kgfm]	0.834	1.03	1.02		
Locked rotor torque [%]	260	200	250		
Breakdown torque [%]	320	229	280		
Service factor		1.00	1.00		
Temperature rise	80 K	105 K	80 K		
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)		
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
Efficiency (%)	25%				
	50%	85.5	85.9	84.6	
	75%	86.5	85.0	85.2	
	100%	86.5	82.2	83.8	
Power Factor	25%				
	50%	0.61	0.69	0.61	
	75%	0.74	0.80	0.74	
	100%	0.81	0.85	0.81	
Bearing type	: Drive end 6204 ZZ	Non drive end 6202 ZZ	Foundation loads		
Sealing	: Without	Without	Max. traction	: 83 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 100 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 5.95A SF 1.00 SFA 5.95A					
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
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Three Phase Induction Motor - Squirrel Cage

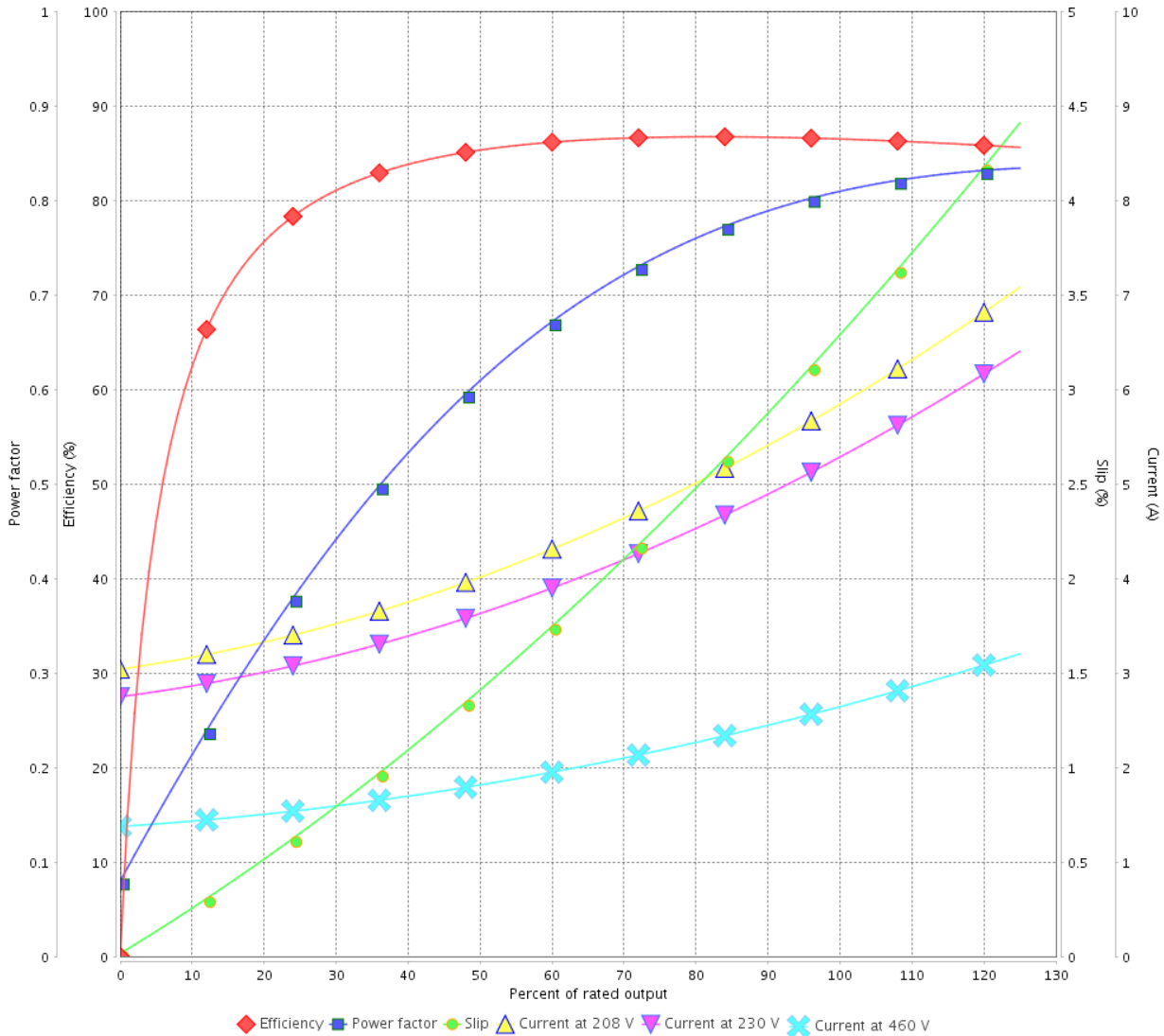


Customer :

Product line : Three-Phase

Product code : 13702735

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Performance : 230/460 V 60 Hz 4P

Rated current : 5.38/2.69 A
 LRC : 7.7
 Rated torque : 0.834 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 320 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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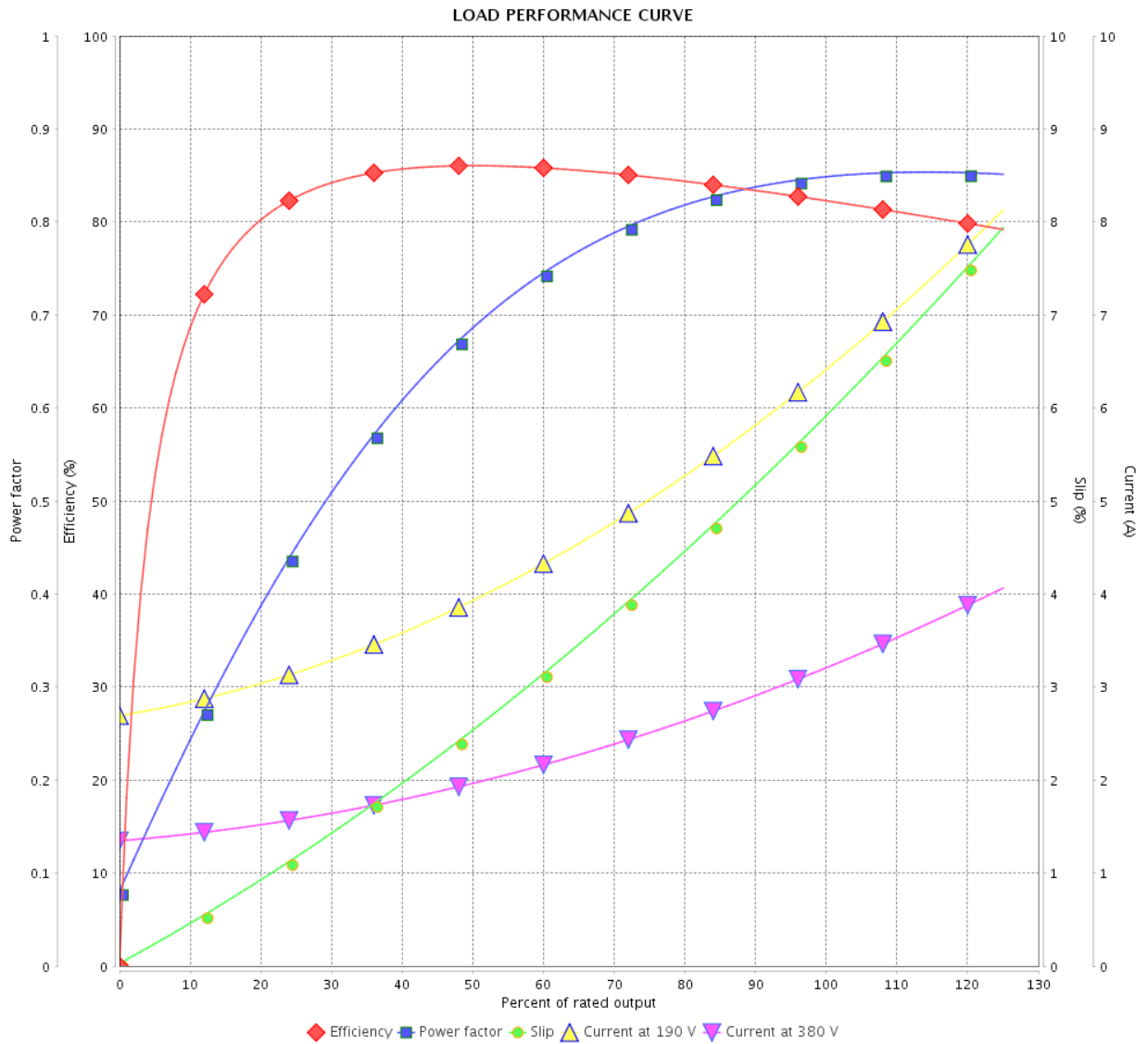
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13702735



Performance : 190/380 V 50 Hz 4P

Rated current : 6.52/3.26 A
 LRC : 5.6
 Rated torque : 1.03 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1410 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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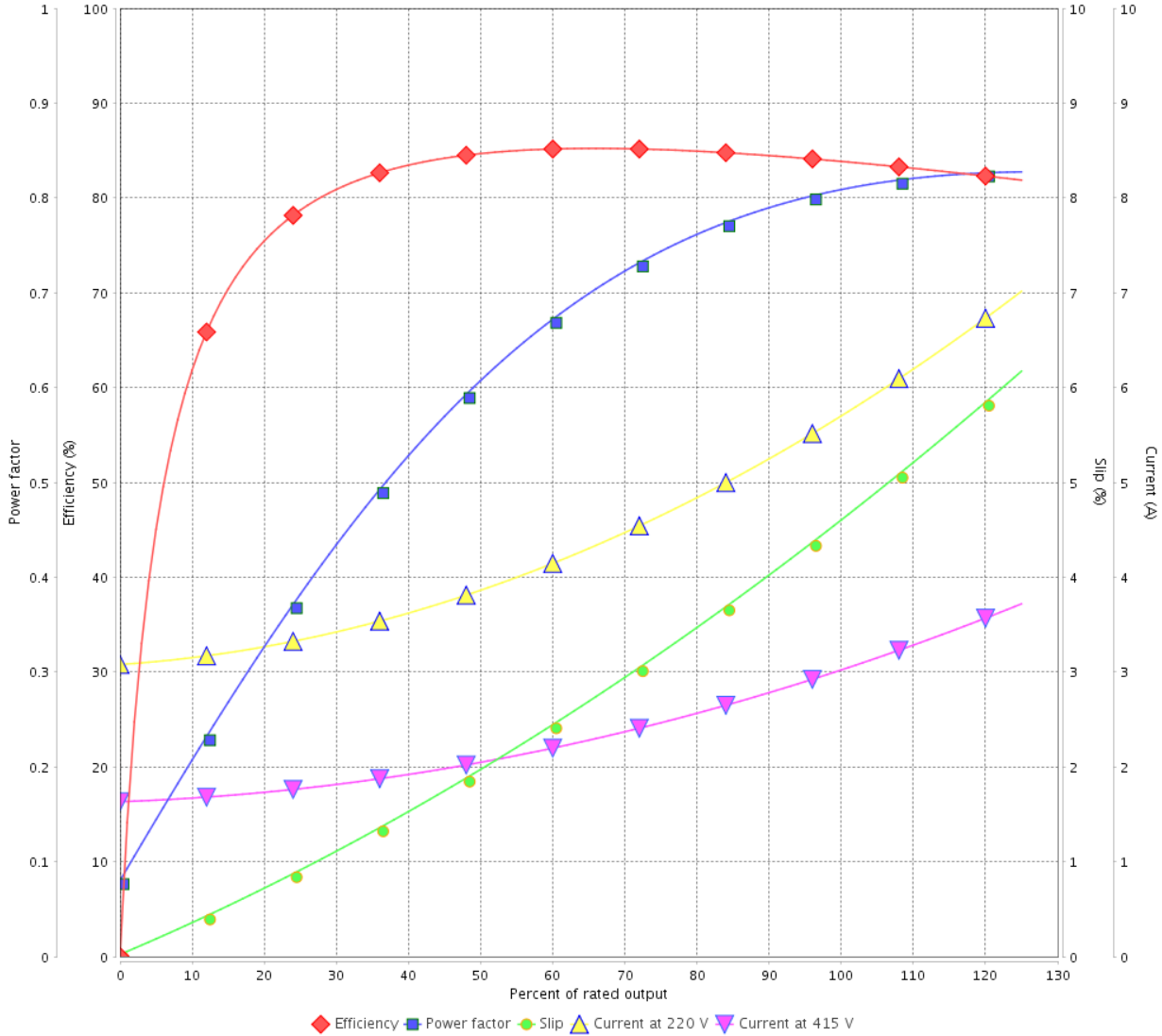


Customer :

Product line : Three-Phase

Product code : 13702735

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Performance : 220/415 V 50 Hz 4P

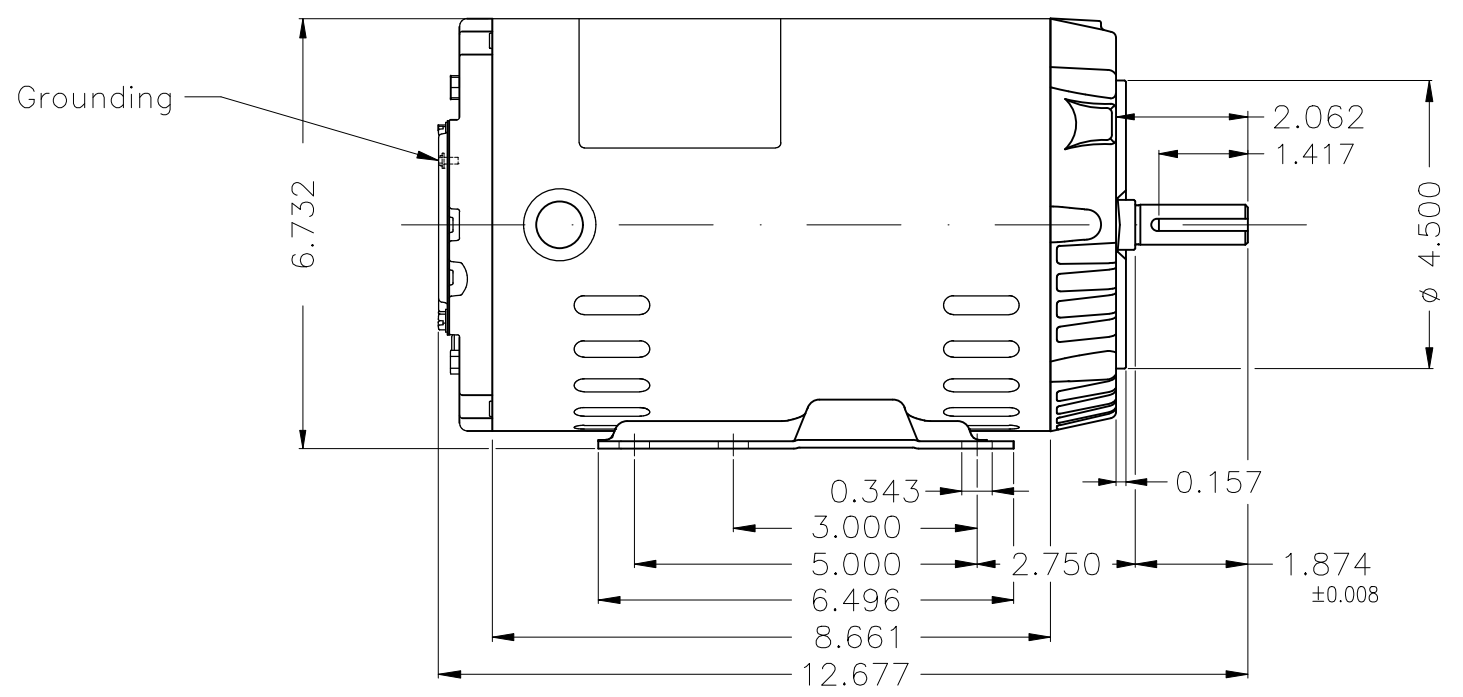
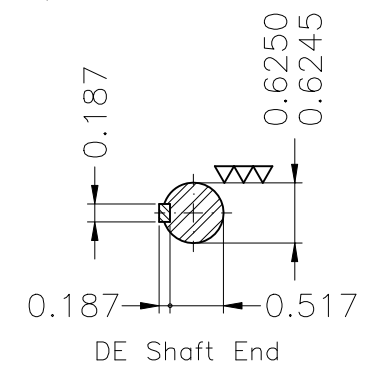
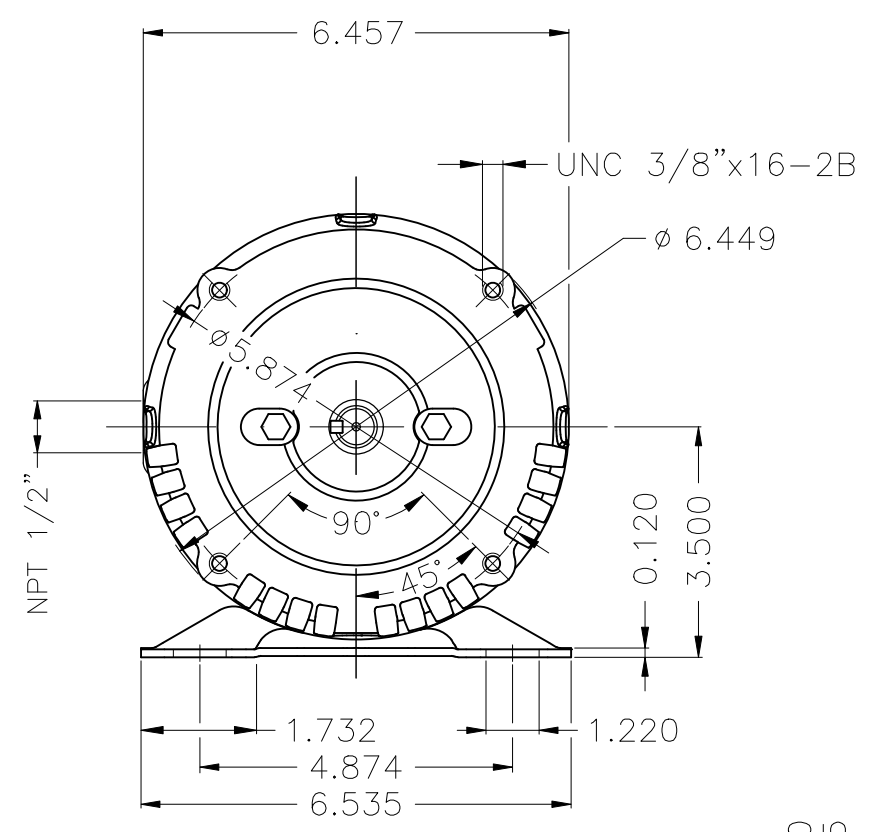
Rated current : 5.79/3.07 A
 LRC : 6.7
 Rated torque : 1.02 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 280 %
 Rated speed : 1430 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

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1 2 3 4 5 6

A
B
C
D
E



Color Munsell N 1 matte black						
Painting plan 207N						
Mounting B34D						
					HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
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	

2 HP 04 Poles 60 Hz

A



Dimensions in inches XME A3