

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: General High Efficiency Three-Phase	Product code : 11996047		
Frame	: 184TC	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	: 31.6 kg		
Protection degree	: IP21	Moment of inertia (J)	: 0.0069 kgm ²		
Design	: B				
Output [HP]	7.5	7.5	7.5	7.5	
Poles	2	2	2	2	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	17.9/8.97	11.1	10.6	10.3	
L. R. Amperes [A]	126/62.8	59.9	63.6	65.9	
LRC [A]	7.0x(Code H)	5.4x(Code F)	6.0x(Code G)	6.4x(Code H)	
No load current [A]	6.20/3.10	3.00	3.50	4.00	
Rated speed [RPM]	3485	2835	2855	2870	
Slip [%]	3.19	5.50	4.83	4.33	
Rated torque [kgfm]	1.56	1.92	1.91	1.90	
Locked rotor torque [%]	220	150	180	190	
Breakdown torque [%]	300	210	229	250	
Service factor	1.15	1.00	1.00	1.00	
Temperature rise	105 K	105 K	105 K	105 K	
Locked rotor time	23s (cold) 13s (hot)	21s (cold) 12s (hot)	18s (cold) 10s (hot)	14s (cold) 8s (hot)	
Noise level ²	65.0 dB(A)				
Efficiency (%)	25%				
	50%	86.5	85.5	85.5	
	75%	87.5	85.5	86.5	
	100%	87.5	84.0	85.5	
Power Factor	25%				
	50%	0.75	0.78	0.74	
	75%	0.84	0.87	0.85	
	100%	0.88	0.90	0.89	
Bearing type	: <u>Drive end</u> 6206 ZZ	<u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: Without	Without	Max. traction	: 83 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 115 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 19.8A SF 1.15 SFA 22.8A					
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	01/04/2025			1 / 5	

LOAD PERFORMANCE CURVE

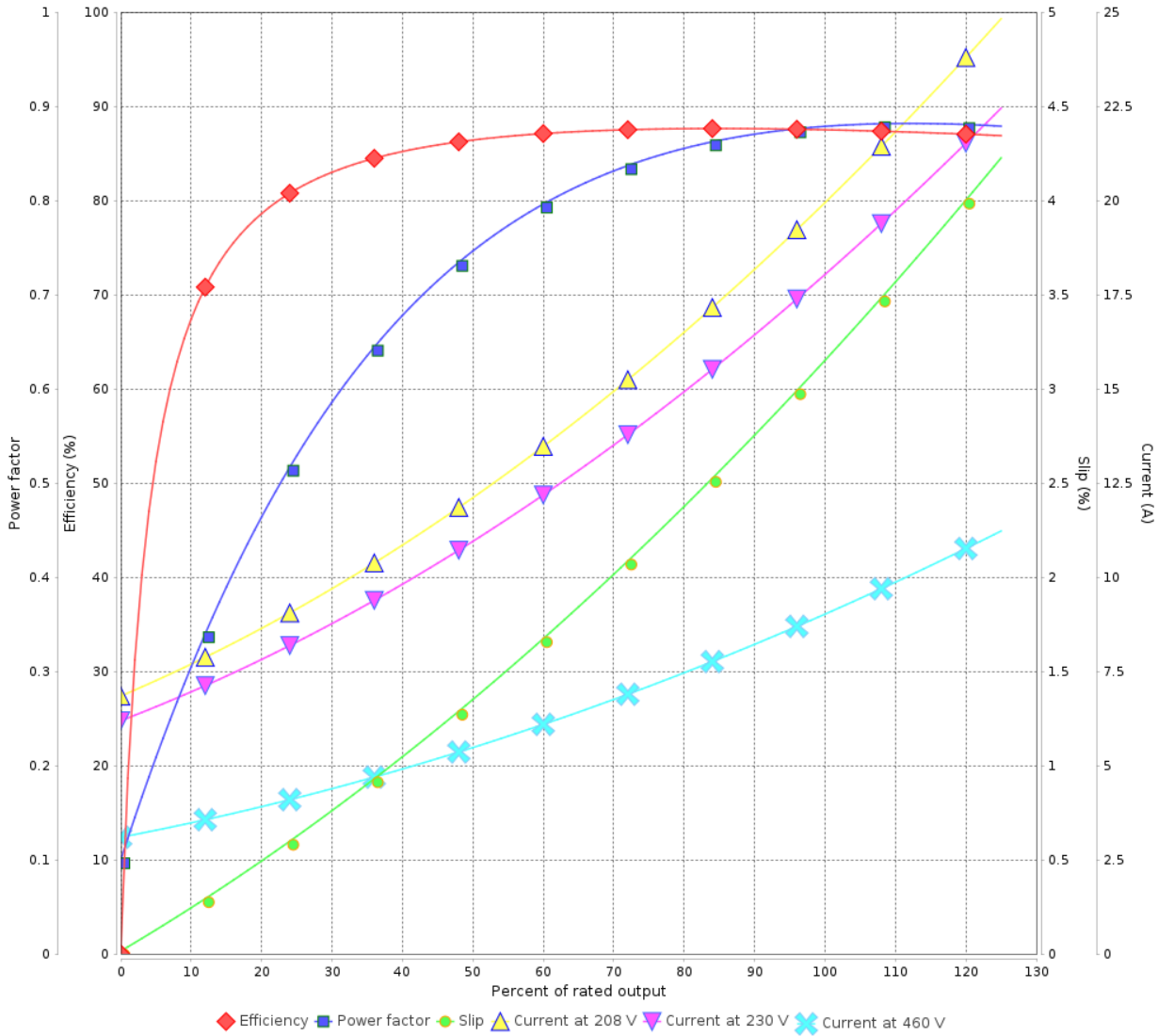
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase Product code : 11996047

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 17.9/8.97 A
 LRC : 7.0
 Rated torque : 1.56 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
 Rated speed : 3485 rpm

Moment of inertia (J) : 0.0069 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 5	Revision
Checked by				
Date	01/04/2025			

LOAD PERFORMANCE CURVE

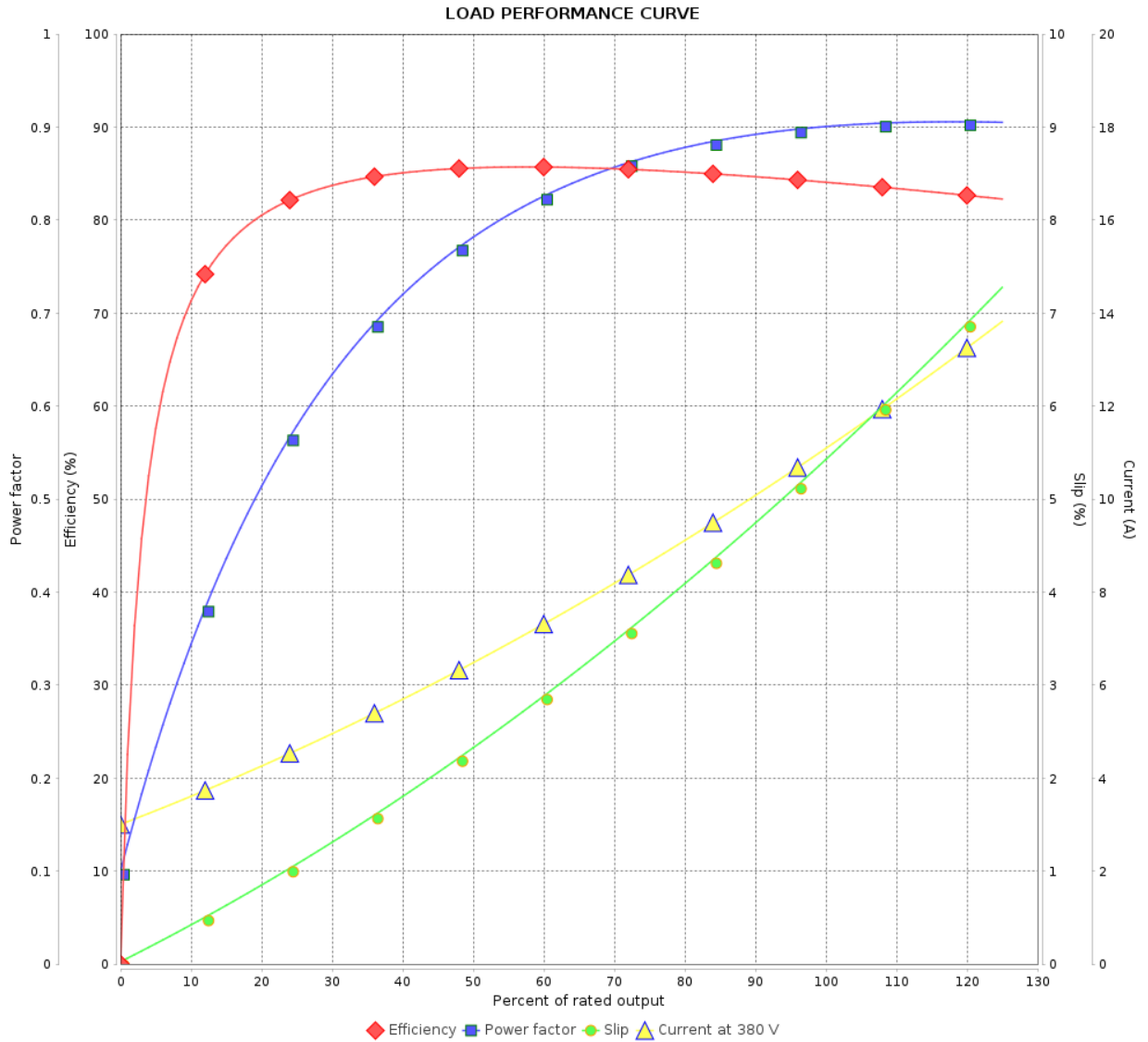
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase

Product code : 11996047



Performance : 380 V 50 Hz 2P

Rated current : 11.1 A
 LRC : 5.4
 Rated torque : 1.92 kgfm
 Locked rotor torque : 150 %
 Breakdown torque : 210 %
 Rated speed : 2835 rpm

Moment of inertia (J) : 0.0069 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				
			3 / 5	

LOAD PERFORMANCE CURVE

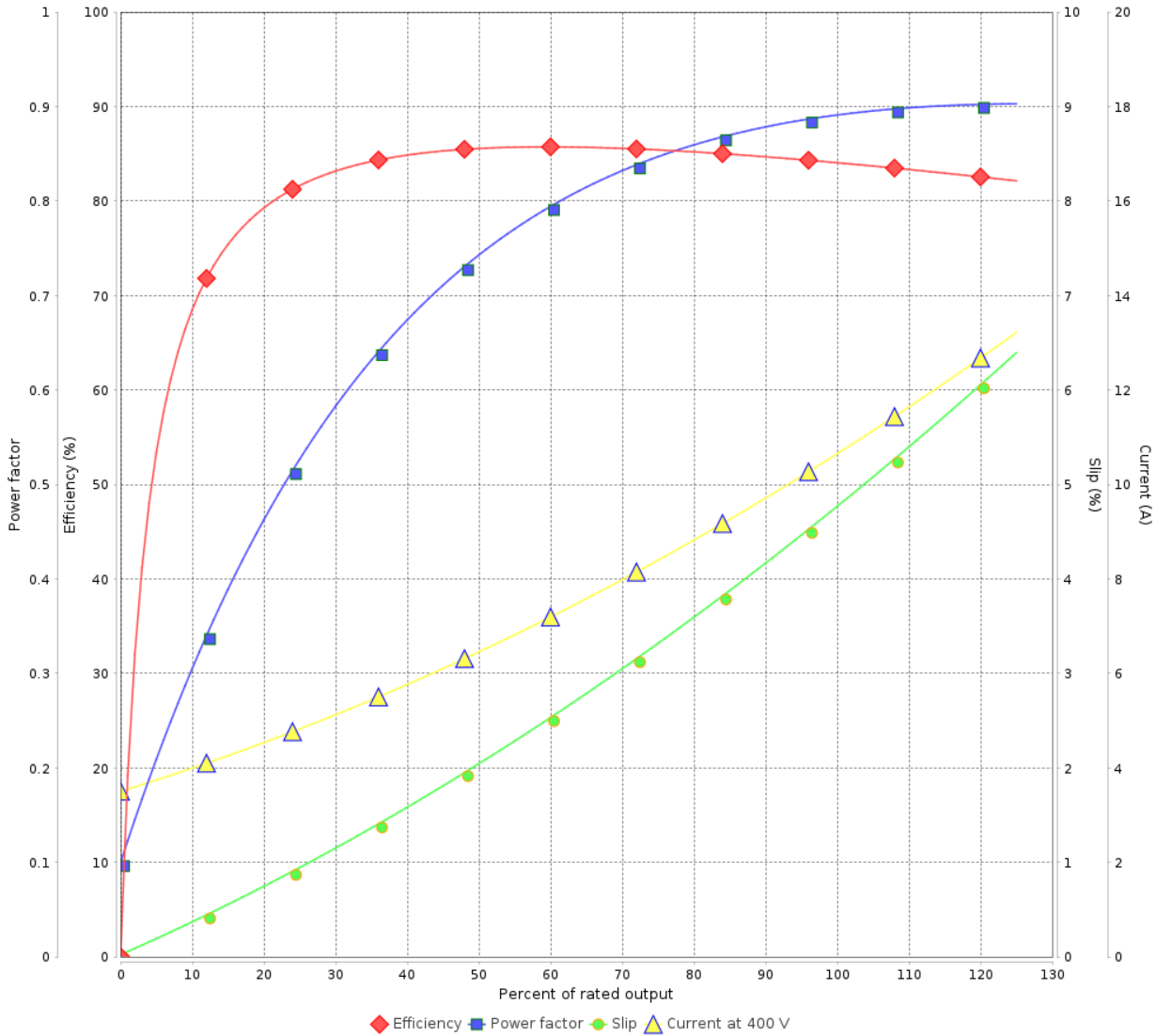
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase Product code : 11996047

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 2P

Rated current	: 10.6 A	Moment of inertia (J)	: 0.0069 kgm ²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 1.91 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2855 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 5	Revision
Checked by				
Date	01/04/2025			

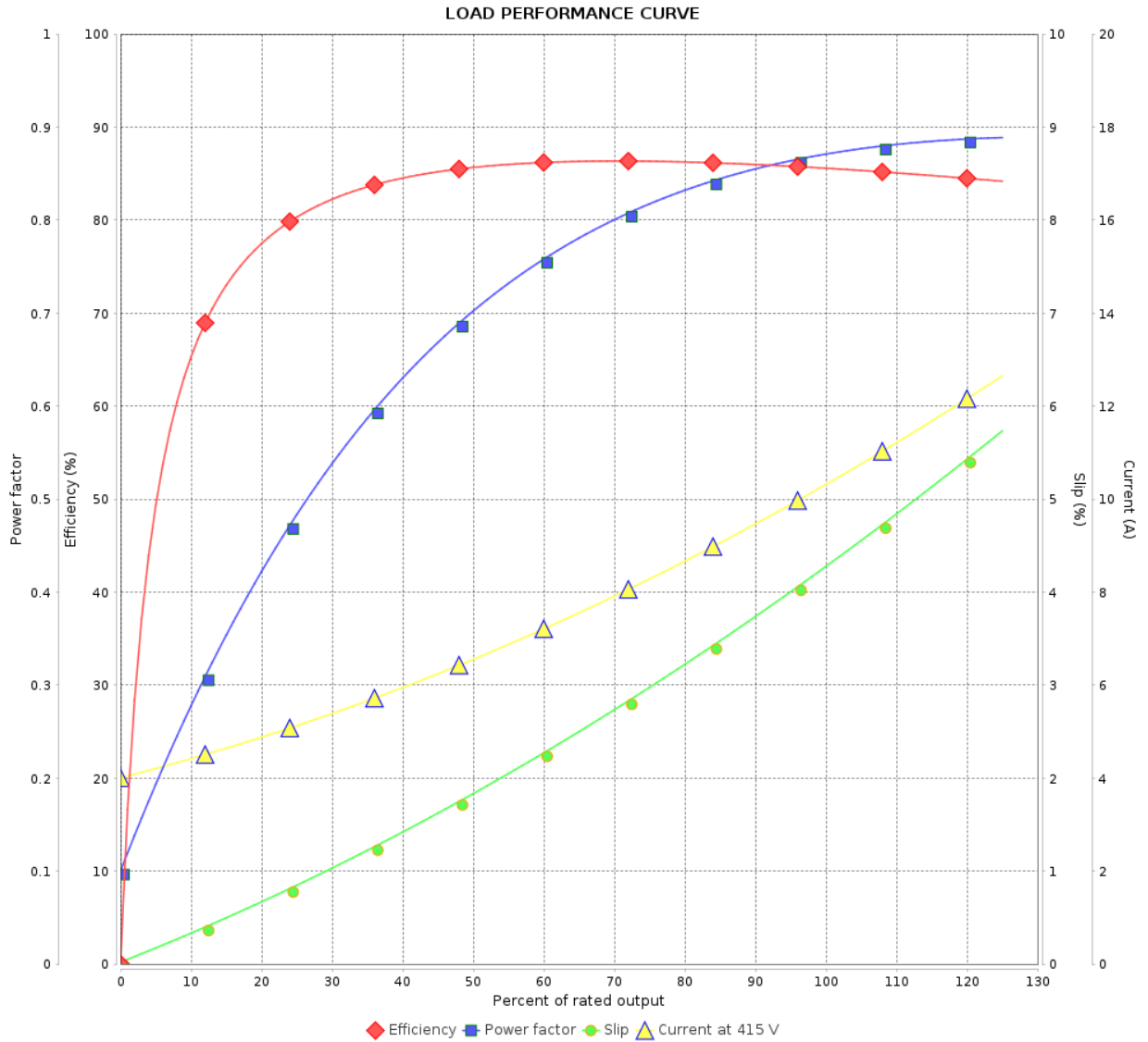
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

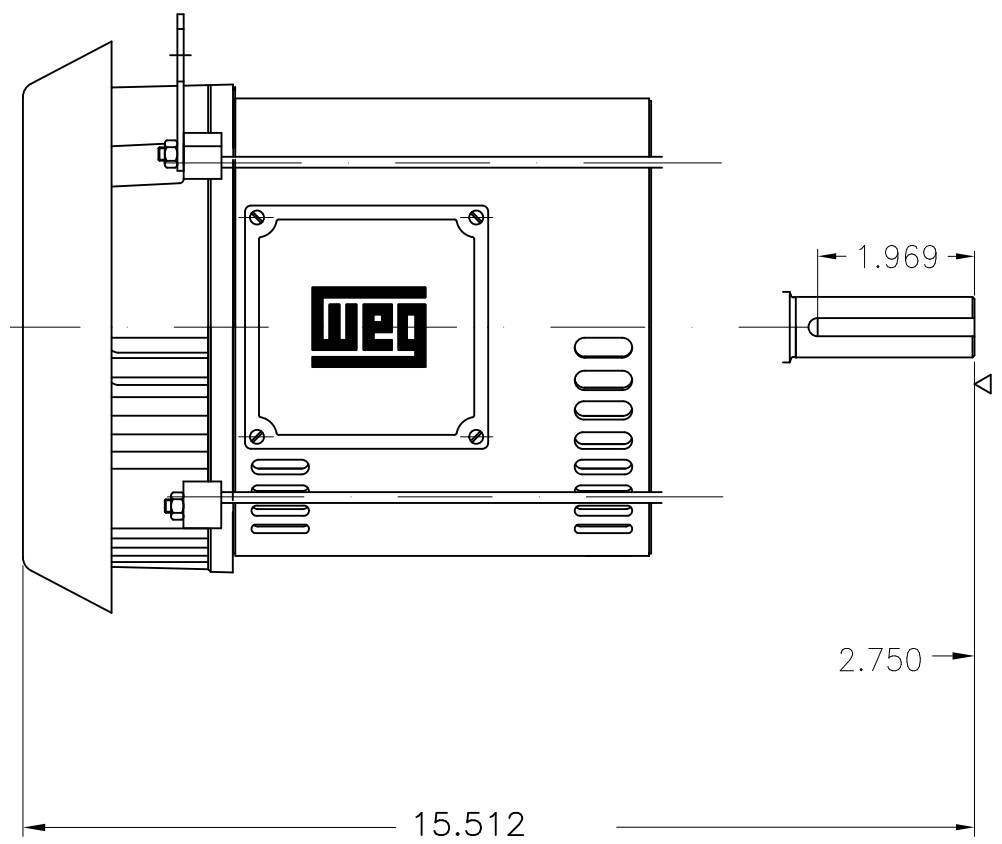
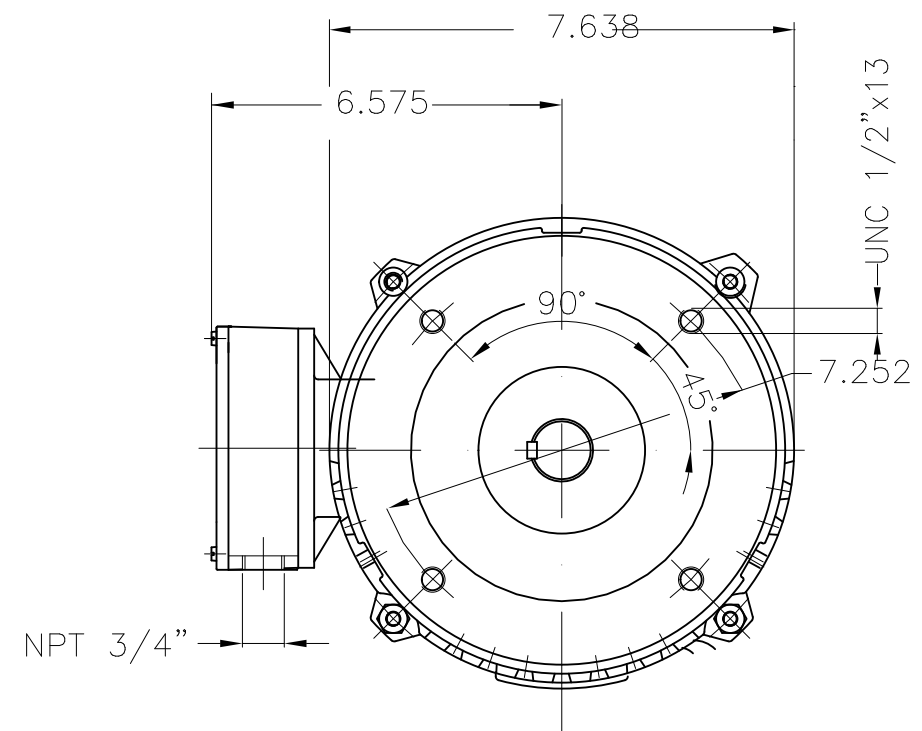
Product line : General High Efficiency Three-Phase Product code : 11996047



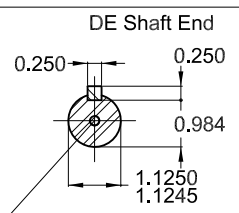
Performance : 415 V 50 Hz 2P IE1

Rated current	: 10.3 A	Moment of inertia (J)	: 0.0069 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 1.90 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2870 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 5 / 5	Revision
Checked by				
Date	01/04/2025			



- Plastic flat plug
- Packing - crate
- Color RAL 5009
- Painting plan 207A
- Mounting B14R(D)



7.5 HP 02 Poles 60 Hz A

ECM		LOC	SUMMARY OF MODIFICATIONS			HYBRISUSER					00
EXECUTED	HYBRISUSER			THREE PH. MOTOR GENERAL HIGH EFF.			PREVIEW				
CHECKED				FRAME 184TC IP21 ODP			WDD	00			
RELEASED							SHEET	1 / 1			
REL. DATE		WMO		Jaragua do Sul	Product Engineering						