

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: ODP High Efficiency Three-Phase	Product code : 11996630		
Frame	: 254TC	Locked rotor time	: 18s (cold) 10s (hot)		
Output	: 20 HP (15 kW)	Temperature rise	: 105 K		
Poles	: 2	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 19.4 A	Protection degree	: IP23		
L. R. Amperes	: 113 A	Cooling method	: IC01 - ODP		
LRC	: 5.8x(Code G)	Mounting	: F-1		
No load current	: 6.56 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 3525 rpm	Noise level ²	: 66.0 dB(A)		
Slip	: 2.08 %	Starting method	: Direct On Line		
Rated torque	: 4.12 kgfm	Approx. weight ³	: 92.8 kg		
Locked rotor torque	: 160 %				
Breakdown torque	: 250 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0338 kgm ²				
Design	: B				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5	90.2	90.2	Max. traction : 115 kgf	
Power Factor	0.74	0.83	0.86	Max. compression : 208 kgf	
Bearing type	:	<u>Drive end</u> 6309 Z C3	<u>Non drive end</u> 6209 Z C3		
Sealing	:	Without Bearing Seal	Without Bearing Seal		
Lubrication interval	:	20000 h	20000 h		
Lubricant amount	:	13 g	9 g		
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.		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/11/2024			1 / 2	

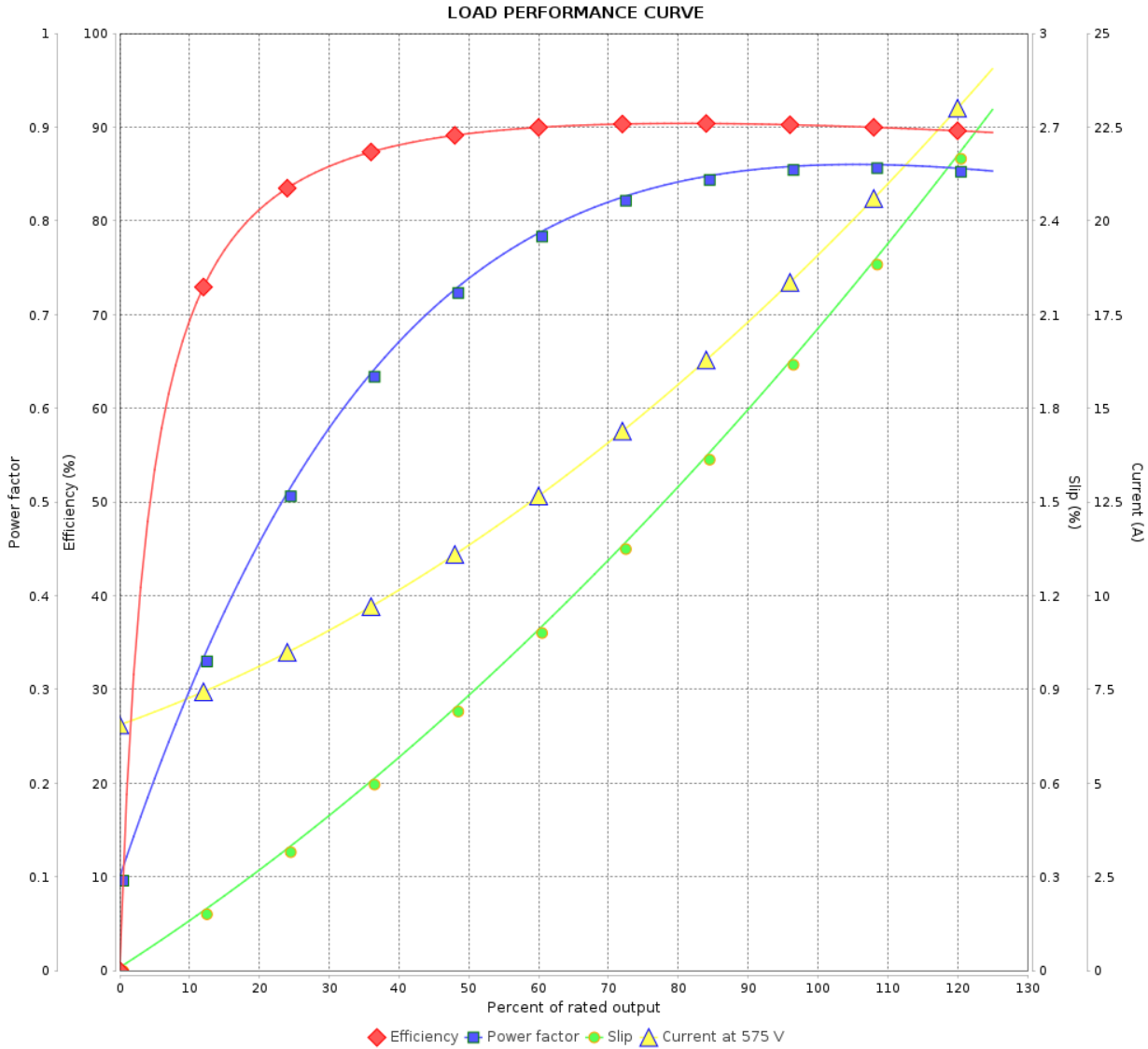
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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Product line : ODP High Efficiency Three-Phase Product code : 11996630

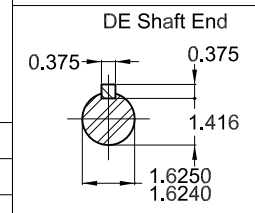
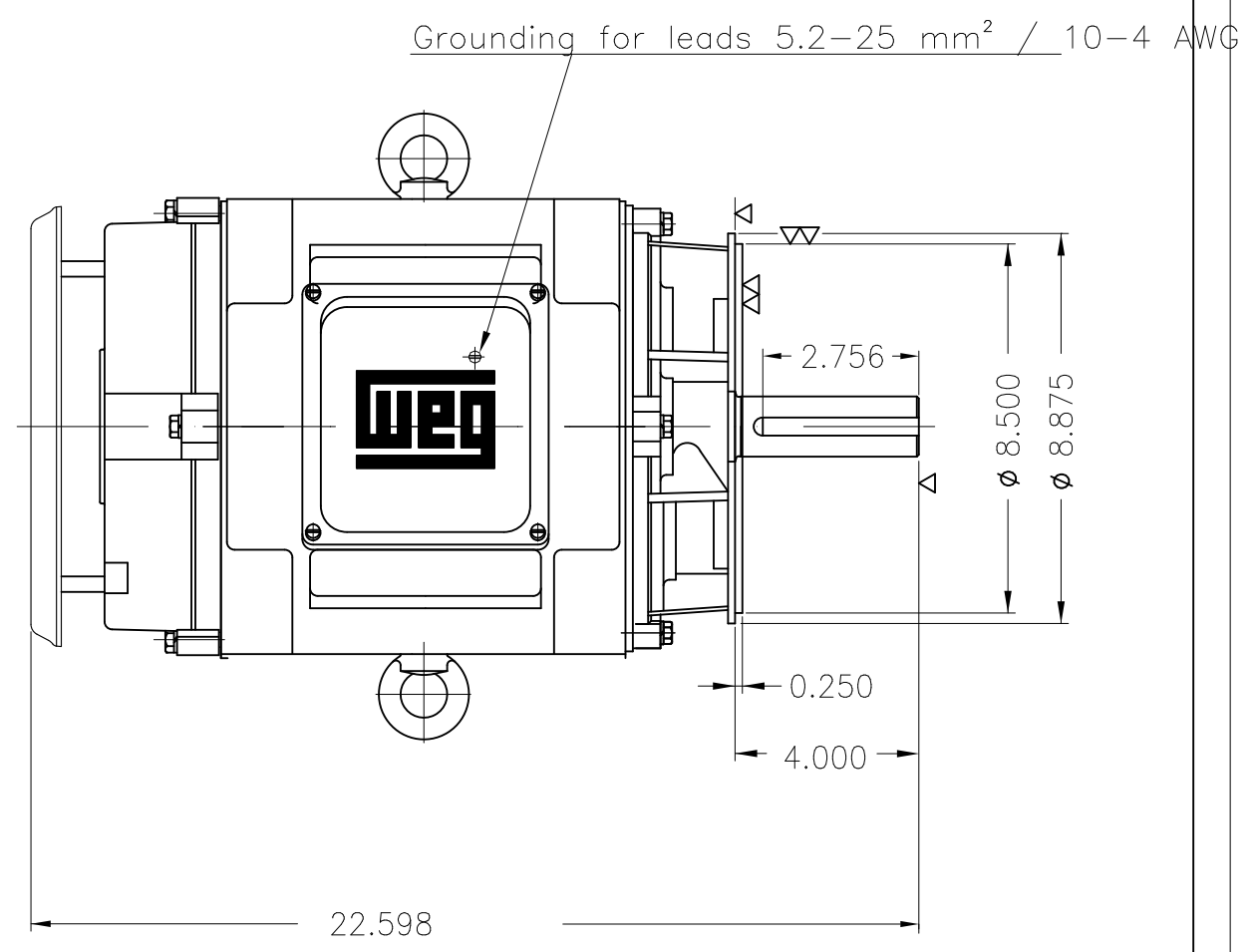
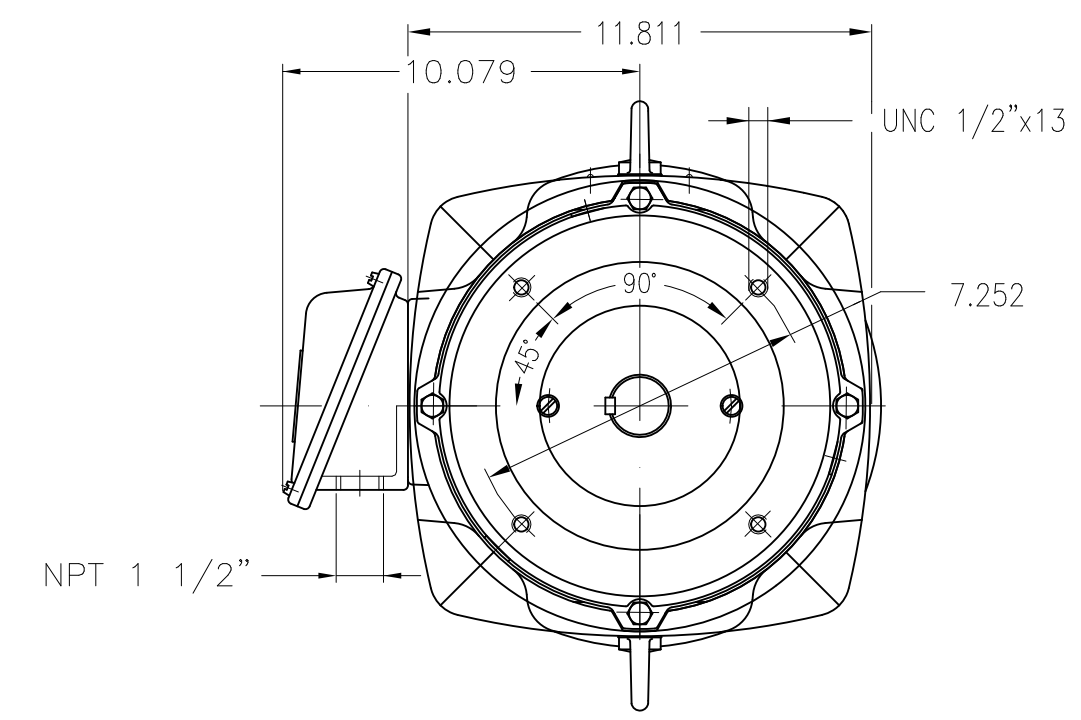


Performance : 575 V 60 Hz 2P

Rated current : 19.4 A
 LRC : 5.8
 Rated torque : 4.12 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 250 %
 Rated speed : 3525 rpm

Moment of inertia (J) : 0.0338 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 / 2	Revision
Checked by				
Date	22/11/2024			



Color RAL 5009
 Painting plan 203A
 Mounting B14R(D)

20 HP 02 Poles 60 Hz							A
ECM	LOC	SUMMARY OF MODIFICATIONS			HYBRISUSER		00
EXECUTED	HYBRISUSER	THREE PH. MOTOR GENERAL HIGH EFF.			EXECUTED	CHECKED	RELEASED
CHECKED		FRAME 254TC IP23 ODP			EXECUTED	CHECKED	RELEASED
RELEASED					EXECUTED	CHECKED	RELEASED
REL. DATE		WMO	Jaragua do Sul	Product Engineering	EXECUTED	CHECKED	RELEASED
					PREVIEW		
					WDD	00	
					SHEET	1 / 1	

