DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP High Efficiency Three-Phase Product code : 11997249

Frame	: 256TC	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 25 HP (18.5 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	: 23.4 A	Protection degree	: IP23
L. R. Amperes	: 141 A	Cooling method	: IC01 - ODP
LRC	: 6.0x(Code G)	Mounting	: F-1
No load current	: 7.52 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level[2]	: 67.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 5.14 kgfm	Approx. weight[3]	: 103 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0412 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	90.2	91.0	91.0
Power Factor	0.76	0.84	0.87

Foundation loads

Max. traction : 150 kgf

Max. compression : 254 kgf

		Drive end	Non drive end
Bearing type	:	6309 Z C3	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

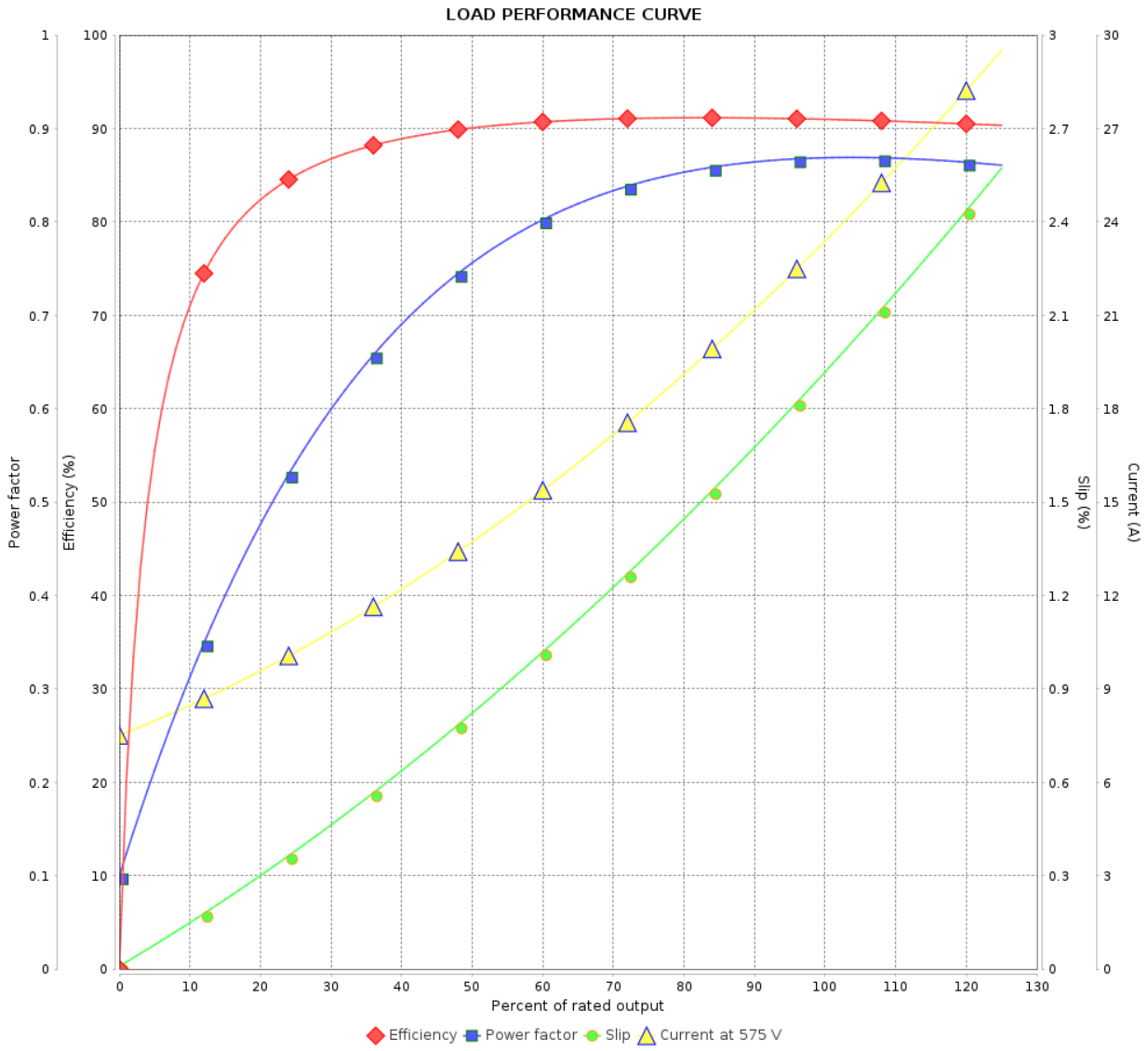
Performed by				
Checked by			Page	Revision
Date	24/08/2025		1 / 2	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

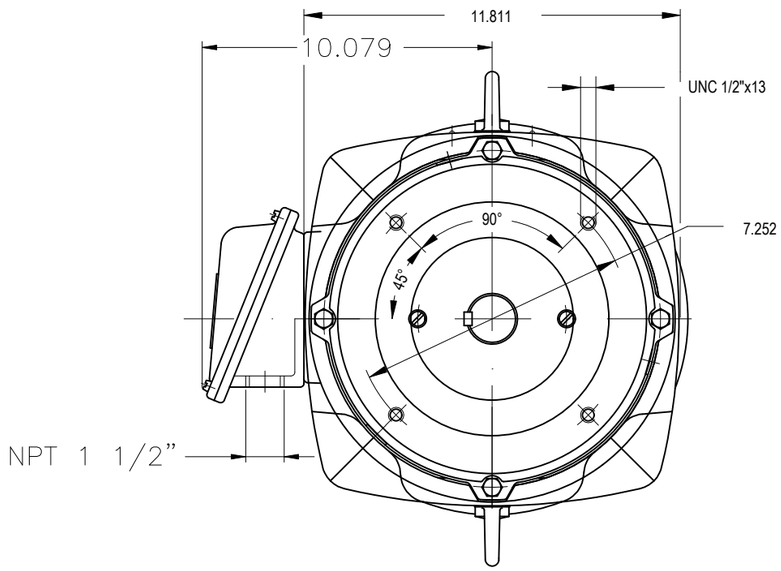
Product line : ODP High Efficiency Three-Phase Product code : 11997249

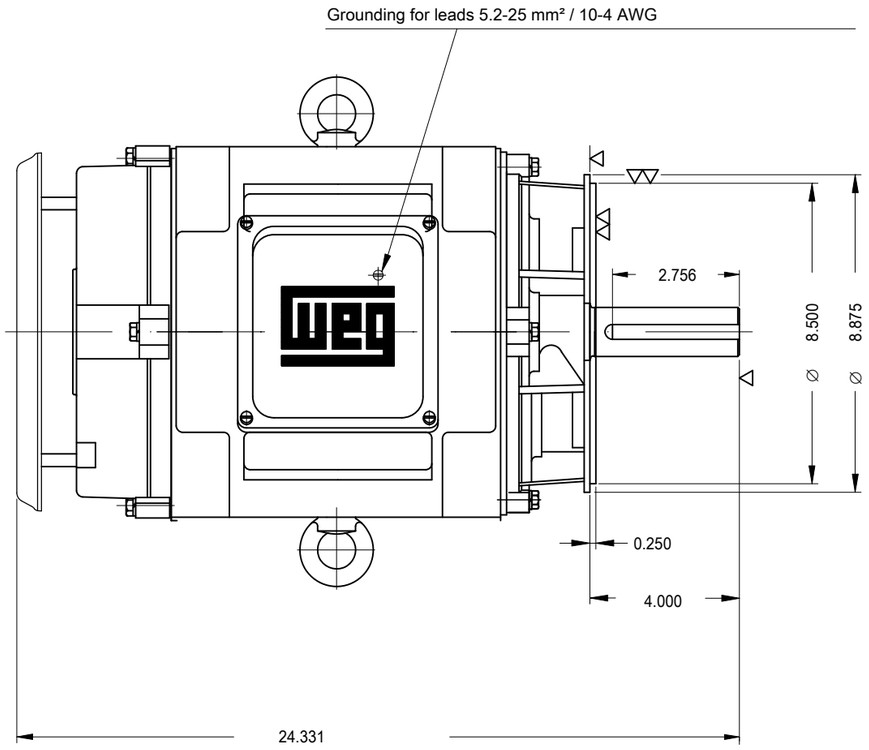


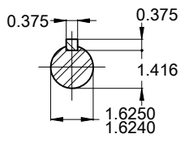
Performance	: 575 V 60 Hz 2P		
Rated current	: 23.4 A	Moment of inertia (J)	: 0.0412 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 5.14 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 3530 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	24/08/2025		2 / 2	







Color RAL 5009

Painting plan 203A

Mounting B14R(D)

25 HP 02 Poles 60 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER	THREE PH. MOTOR GENERAL HIGH EFF.	PREVIEW
CHECKED		FRAME 256TC IP23 ODP	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches

XME A3