DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase

Product code : 11439852

Frame	: 404/5T	Cooling method	: IC411 - TEFC
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]	: 566 kg
Protection degree	: IP55	Moment of inertia (J)	: 1.69 kgm²
Design	: B		

Output [HP]		75	60	60	60
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		174/87.0	86.6	84.3	81.8
L. R. Amperes [A]		1340/670	624	666	687
LRC [A]		7.7x(Code J)	7.2x(Code H)	7.9x(Code J)	8.4x(Code K)
No load current [A]		62.5/31.3	31.0	33.6	36.0
Rated speed [RPM]		1185	985	987	988
Slip [%]		1.25	1.50	1.30	1.20
Rated torque [kgfm]		45.9	44.2	44.1	44.1
Locked rotor torque [%]		250	229	260	280
Breakdown torque [%]		260	250	280	300
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level[2]		65.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
Efficiency (%)	25%				
	50%	94.1	94.0	93.6	93.6
	75%	95.0	94.0	94.5	94.5
	100%	94.5	94.0	94.0	94.5
Power Factor	25%				
	50%	0.72	0.72	0.68	0.64
	75%	0.81	0.81	0.78	0.76
	100%	0.84	0.84	0.82	0.81

		Drive end	Non drive end
Bearing type	:	6217 C3	6314 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	13507 h	14267 h
Lubricant amount	:	21 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 1020 kgf

Max. compression : 1582 kgf

Notes

USABLE @208V 192A SF 1.00 SFA 192A

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	21/10/2024		1 / 6	

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 ºC

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

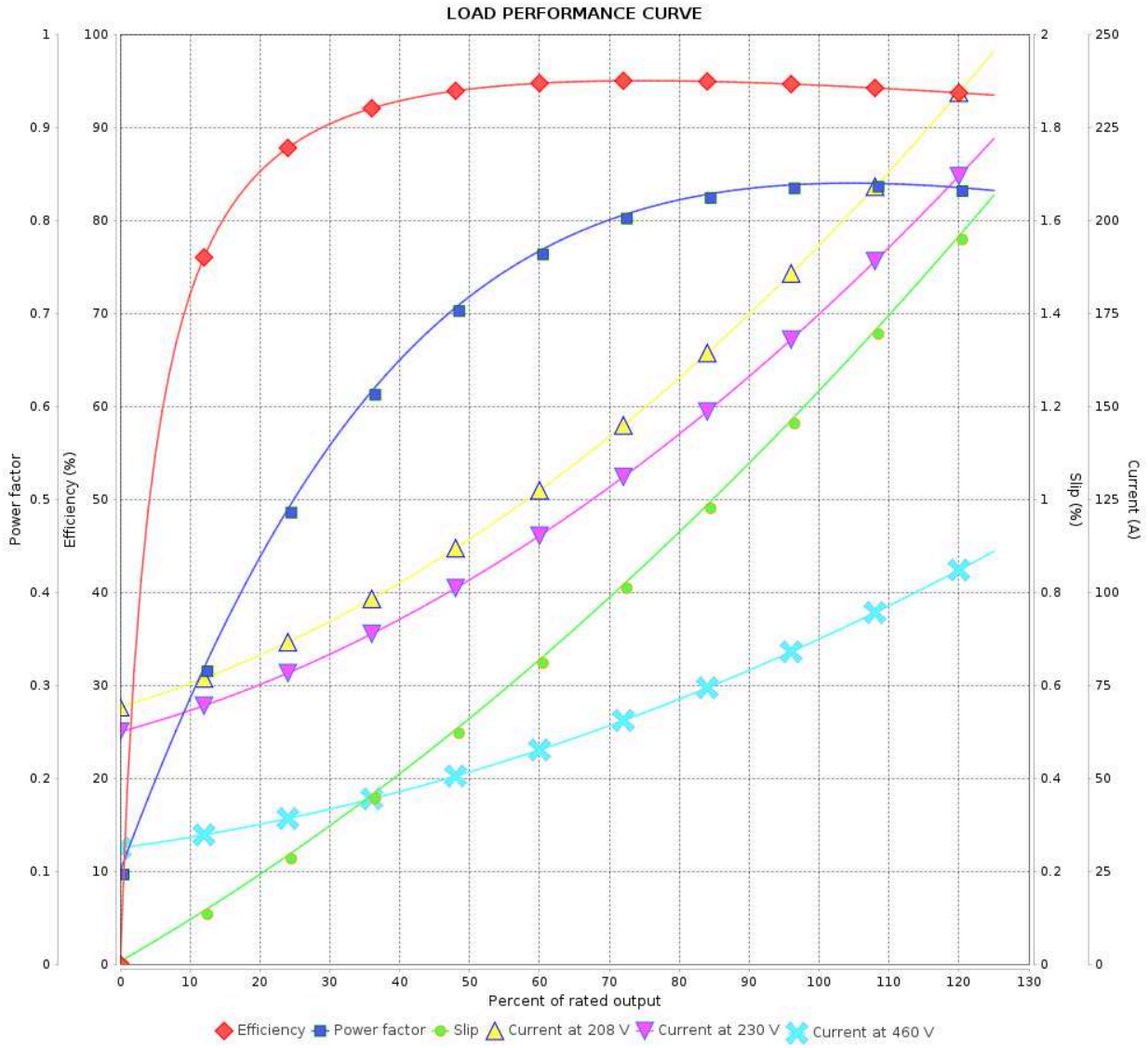
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase

Product code : 11439852



Performance	: 230/460 V 60 Hz 6P		
Rated current	: 174/87.0 A	Moment of inertia (J)	: 1.69 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 45.9 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	21/10/2024		3 / 6	

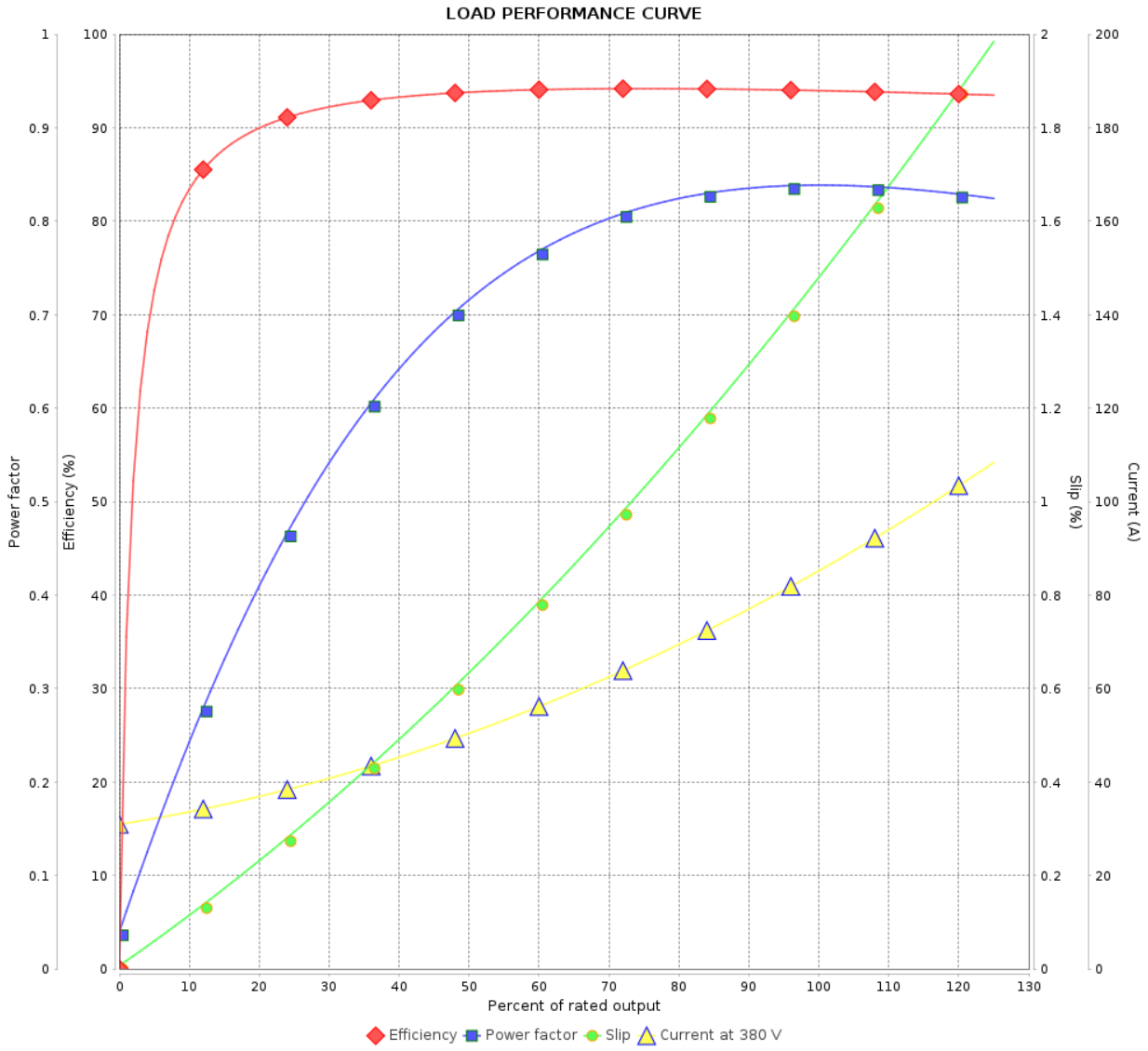
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W21 Explosion Proof NEMA Premium Efficiency Three-Phase	Product code :	11439852



Performance	: 380 V 50 Hz 6P IE3

Rated current	: 86.6 A	Moment of inertia (J)	: 1.69 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 44.2 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	21/10/2024		4 / 6	

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

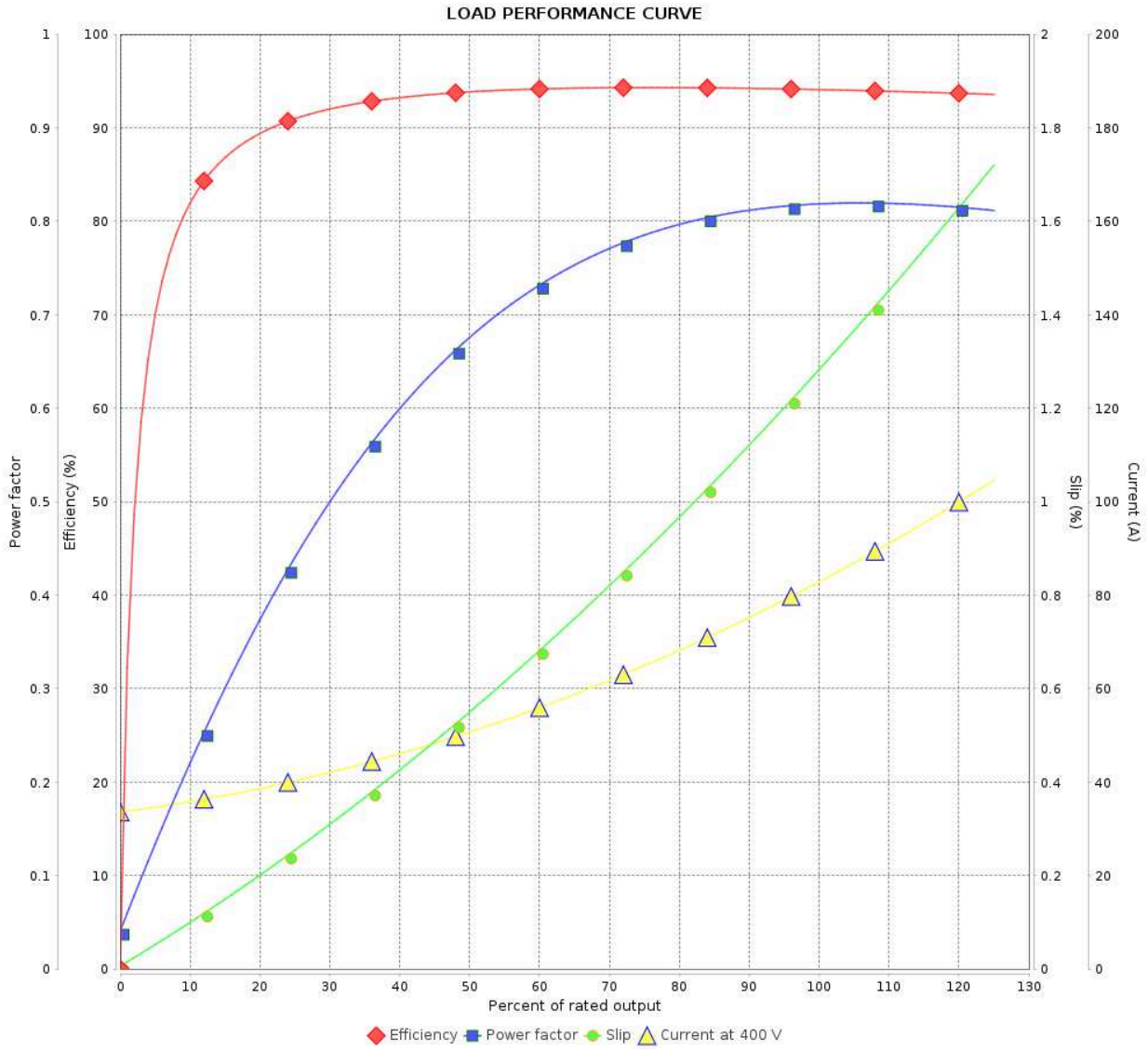
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase

Product code : 11439852



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 84.3 A	Moment of inertia (J)	: 1.69 kgm²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 44.1 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 987 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	21/10/2024		5 / 6	

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

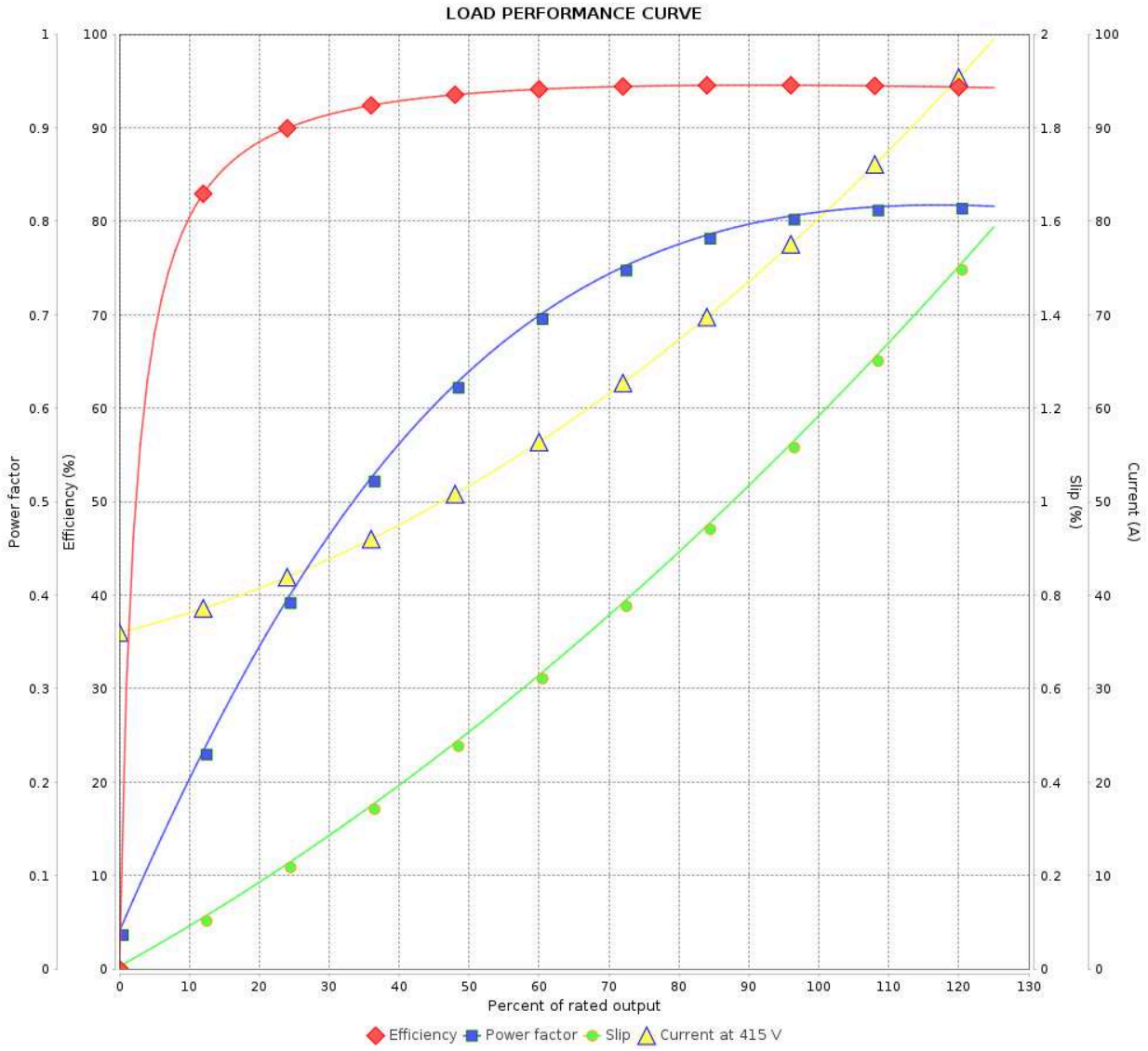
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase

Product code : 11439852

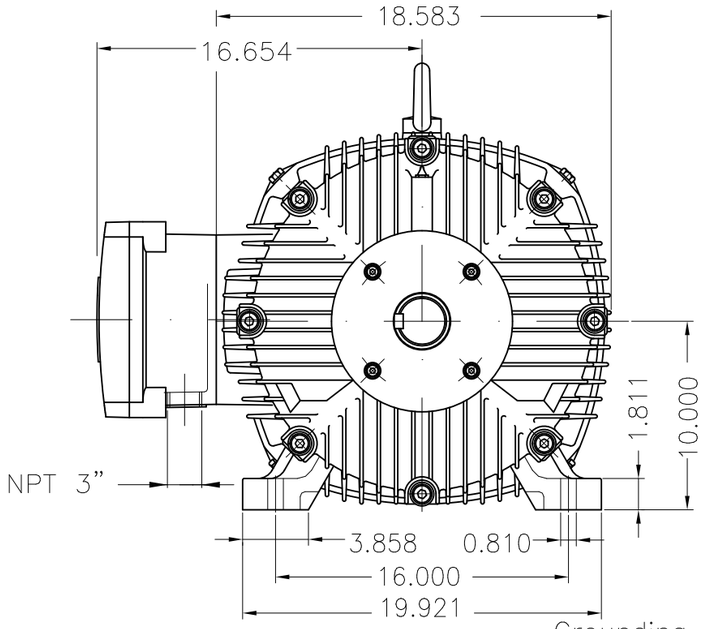


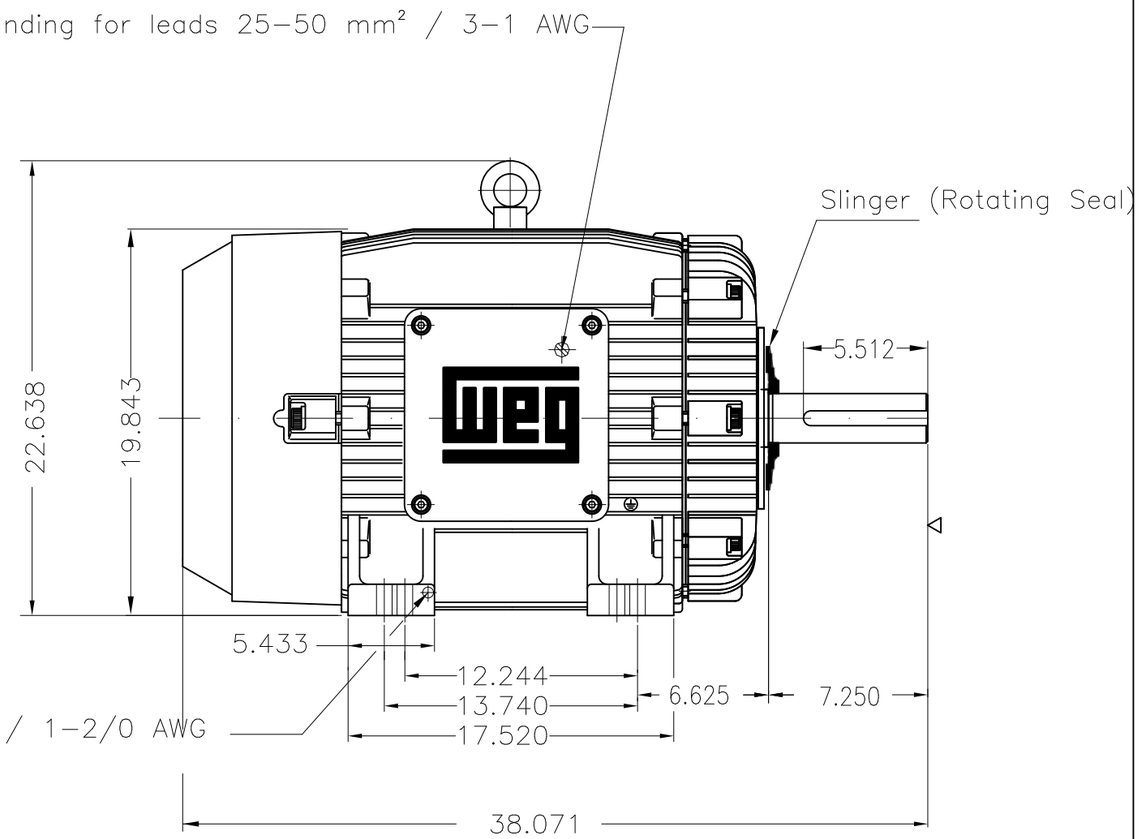
Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 81.8 A	Moment of inertia (J)	: 1.69 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 44.1 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 988 rpm	Design	: B

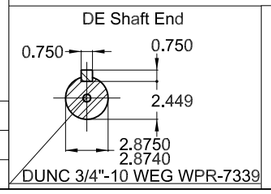
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	21/10/2024		6 / 6	

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice







Color RAL 5009

Painting plan 202P

Mounting B3R(D)

75 HP 06 Poles 60 Hz

A

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR EXPLOSION PROOF NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 404/5T IP55 TEFC	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches

XME A3

WEG's property. Forbidden reproduction without previous authorization.