DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	15280258

Frame	: 444/5HP	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 125 HP	Temperature rise	: 80 K
Poles	: 4	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	: 111 A	Protection degree	: IP55
L. R. Amperes	: 724 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: W-6
No load current	: 36.8 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1785 rpm	Noise level[2]	: 73.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 50.8 kgfm	Approx. weight[3]	: 761 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.41 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	95.0	95.4	95.4
Power Factor	0.74	0.82	0.85

Foundation loads

Max. traction

Max. compression

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.5	3.4	3.0	2.4	1.4	0.9	0.6

		Drive end	Non drive end
Bearing type	:	6319 C3	6316 C3
Sealing	:	Viton Lip Seal	Viton Seal
Lubrication interval	:	4000 h	5000 h
Lubricant amount	:	45 g	34 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	29/10/2024		1 / 2	

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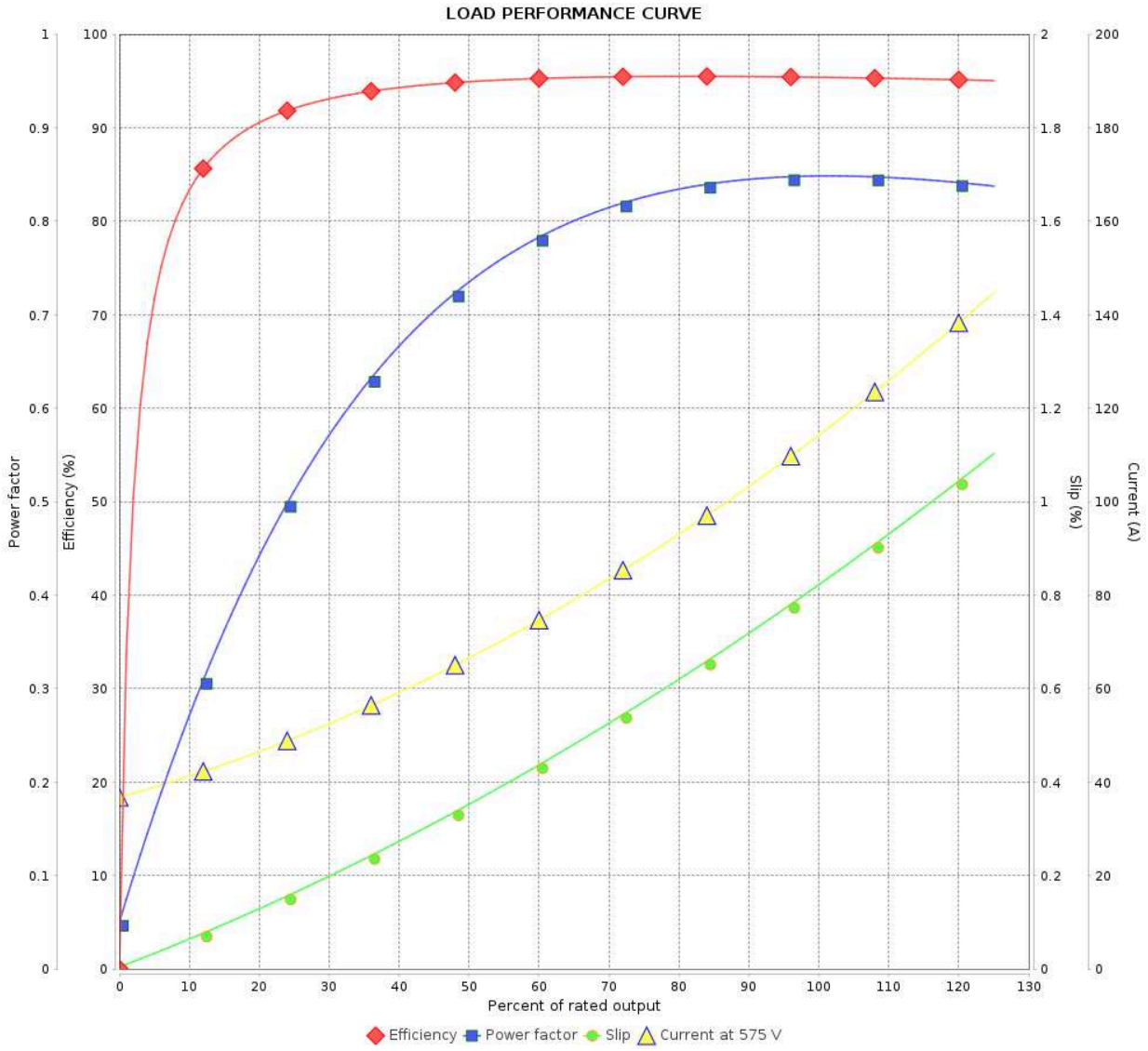
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 15280258

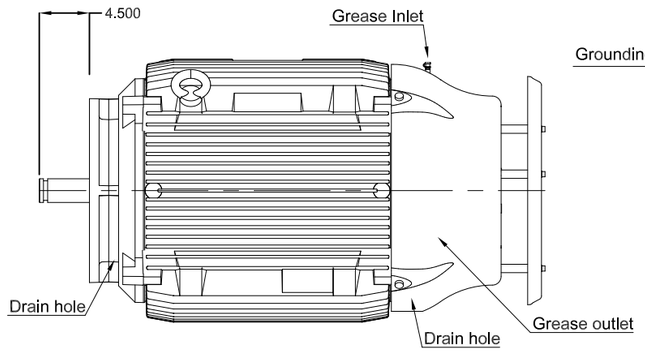


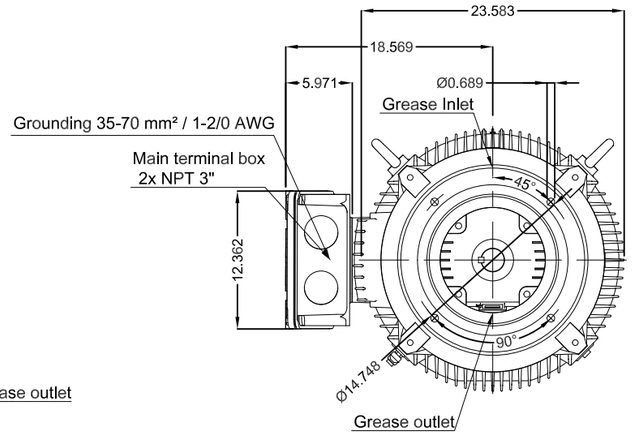
Performance	: 575 V 60 Hz 4P		
Rated current	: 111 A	Moment of inertia (J)	: 2.41 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 50.8 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: B

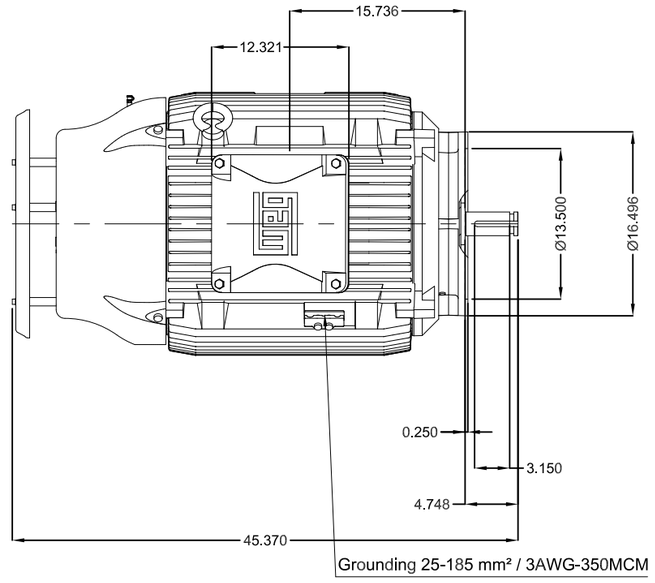
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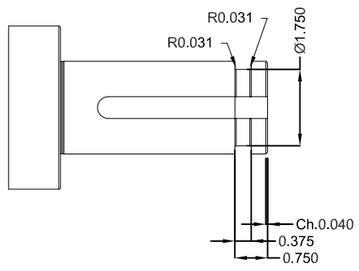
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Checked by			Page	Revision
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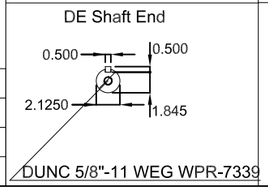
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Color RAL 5009
Painting plan 203A
Mounting NEMA W-6
Mounting V1

125 HP 04 Poles 60 Hz | A

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 P. BASE NEMA PREM. EFF.
FRAME 444/5HP IP55 TEFC

PREVIEW
WDD 00
SHEET /

Dimensions in inches
A3

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