

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 13025620
Catalog # : CT007408NPW22

Frame	: 254/6TC	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 8	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 22.5/11.3 A	Protection degree	: IP55
L. R. Amperes	: 119/59.7 A	Cooling method	: IC411 - TEFC
LRC	: 5.3x(Code H)	Mounting	: F-1
No load current	: 14.8/7.40 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 880 rpm	Noise level ²	: 54.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 44.8 ft.lb	Approx. weight ³	: 284 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 4.43 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	85.5	87.5	87.5	Max. traction	: 459 lb
Power Factor	0.50	0.63	0.70	Max. compression	: 735 lb

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)
13.7	11.9	12.0	8.0	6.0	4.8	3.7

	Drive end	Non drive end
Bearing type	: 6309 C3	: 6209 C3
Sealing	: V'Ring	: V'Ring
Lubrication interval	: 20000 h	: 20000 h
Lubricant amount	: 13 g	: 9 g
Lubricant type	: Mobil Polyrex EM	

Notes

USABLE @208V 24.5A SF 1.15 SFA 28.2A

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.

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Performed by				
Checked by				
Date	09/07/2026			

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Revision

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

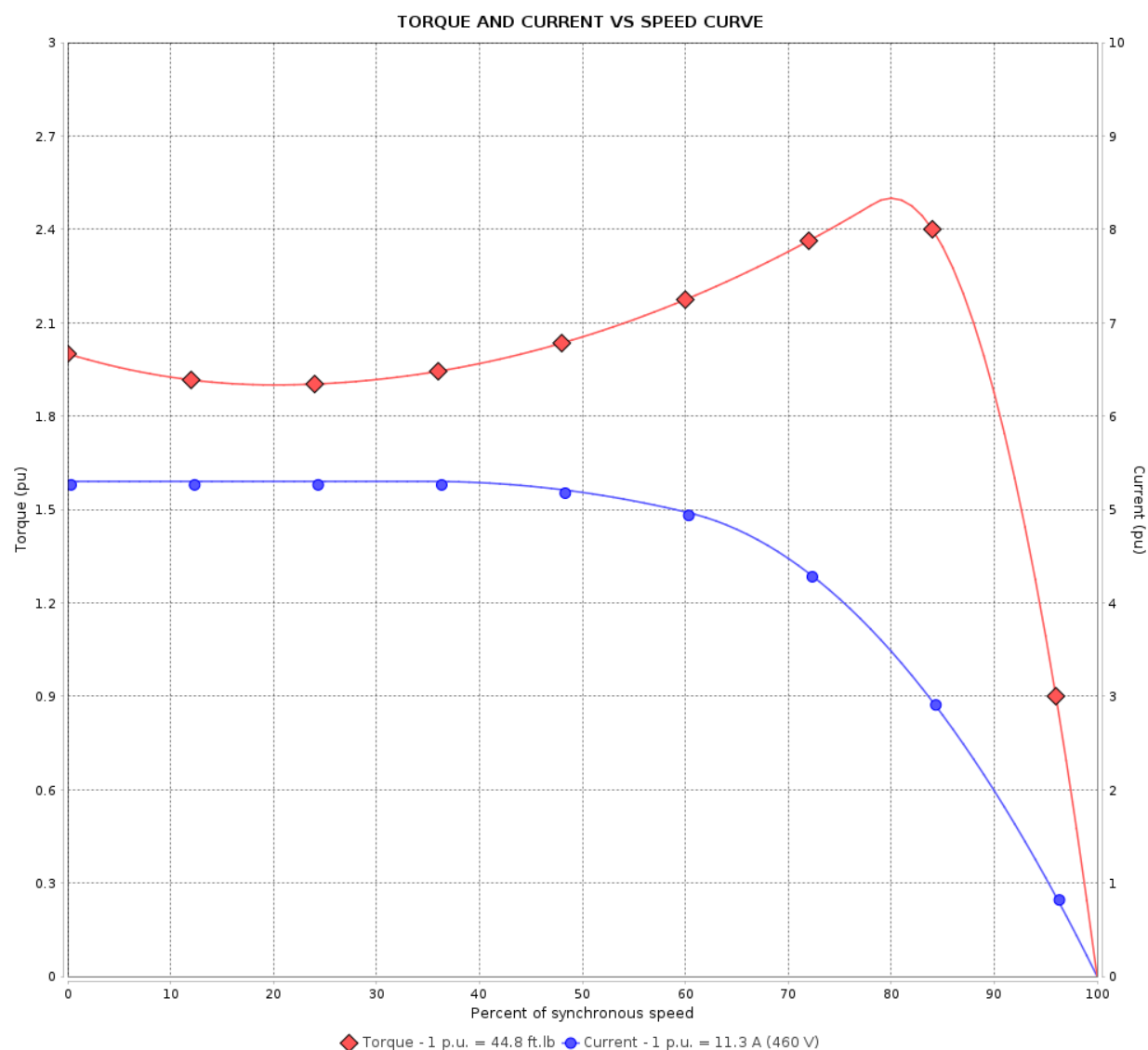


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Three-Phase

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Catalog # : CT007408NPW22



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Breakdown torque : 250 %
Rated speed : 880 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
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Design : B

Locked rotor time : 54s (cold) 30s (hot)

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Checked by				
Date	09/07/2026			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

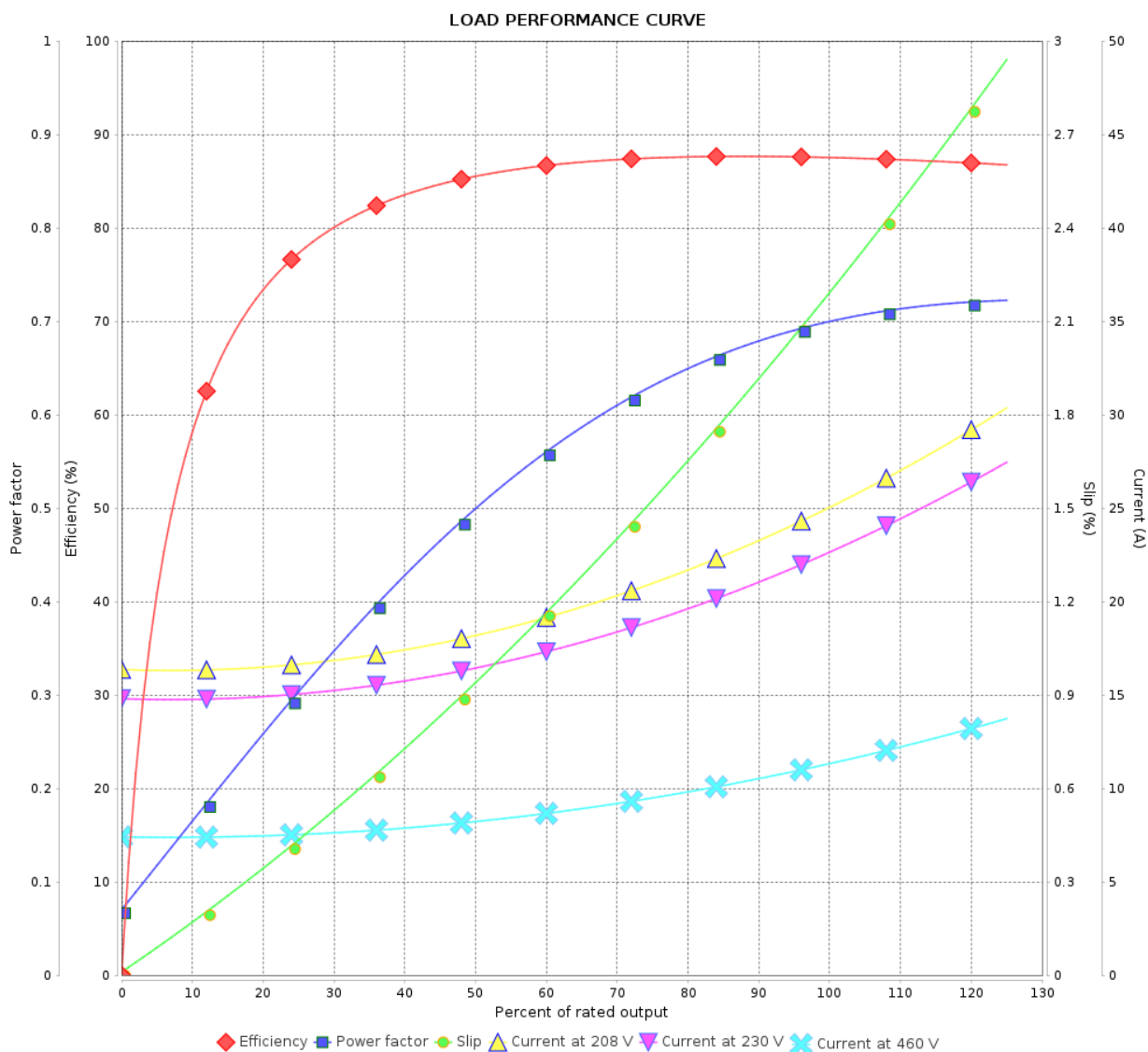


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

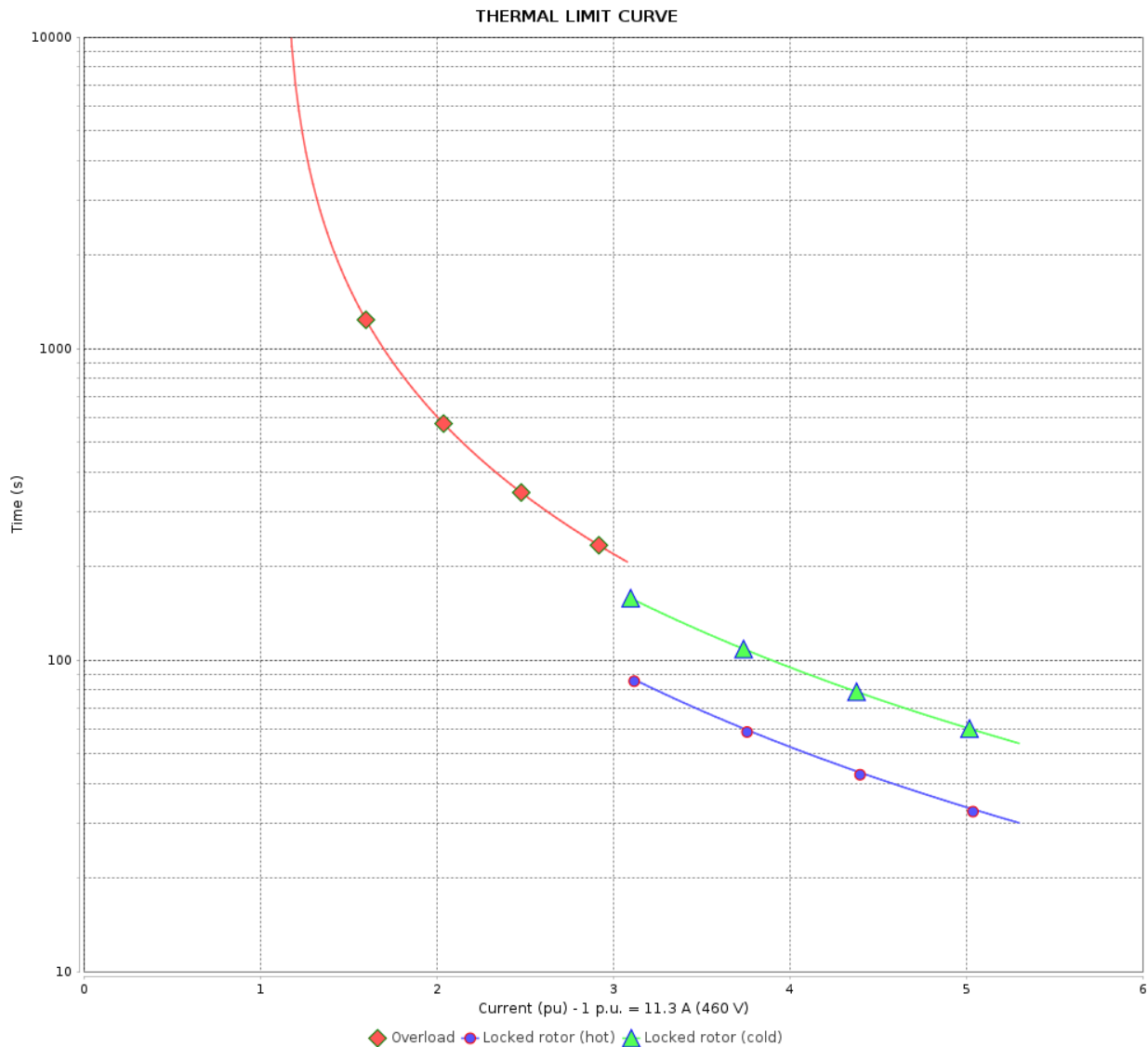
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

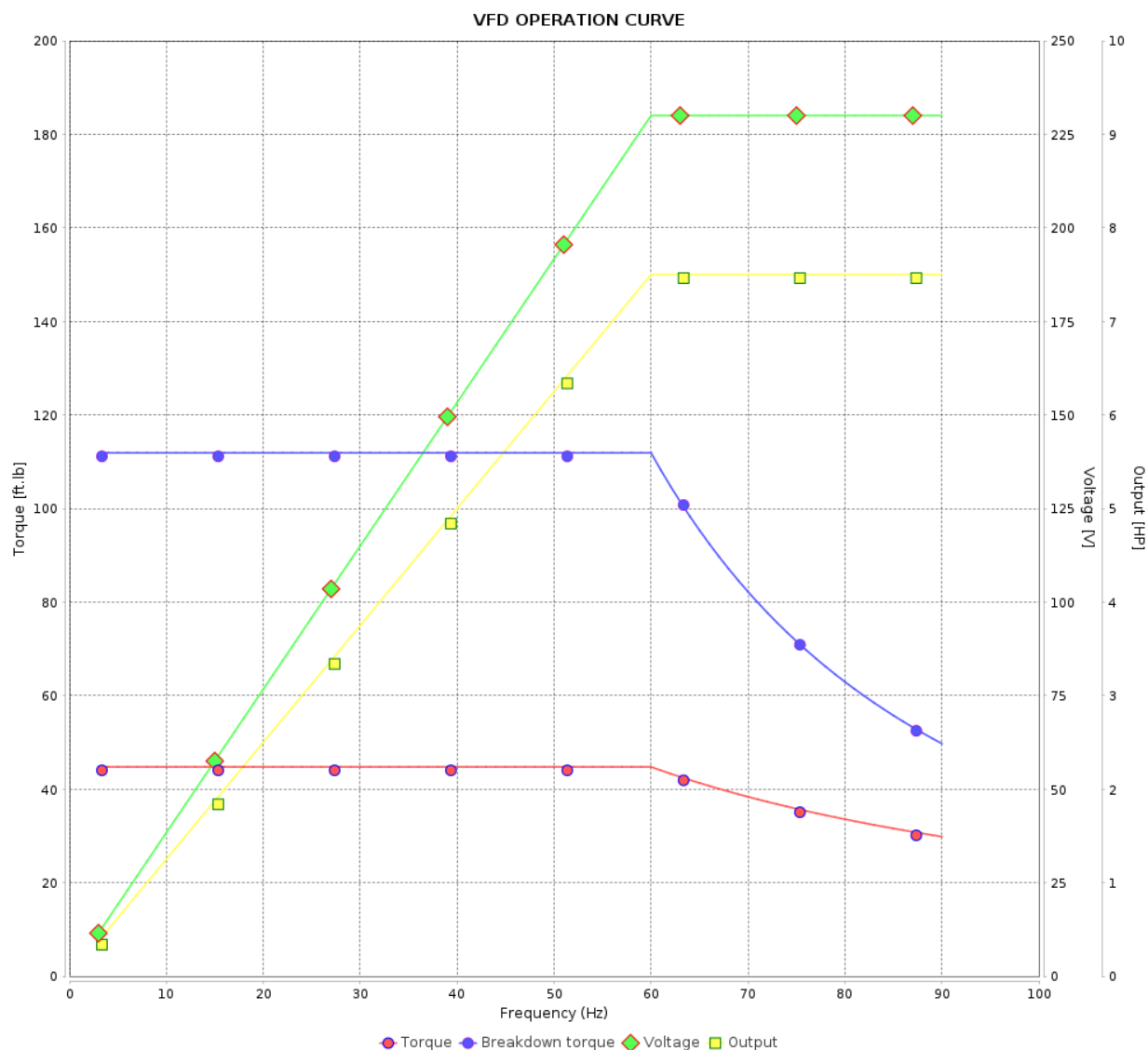


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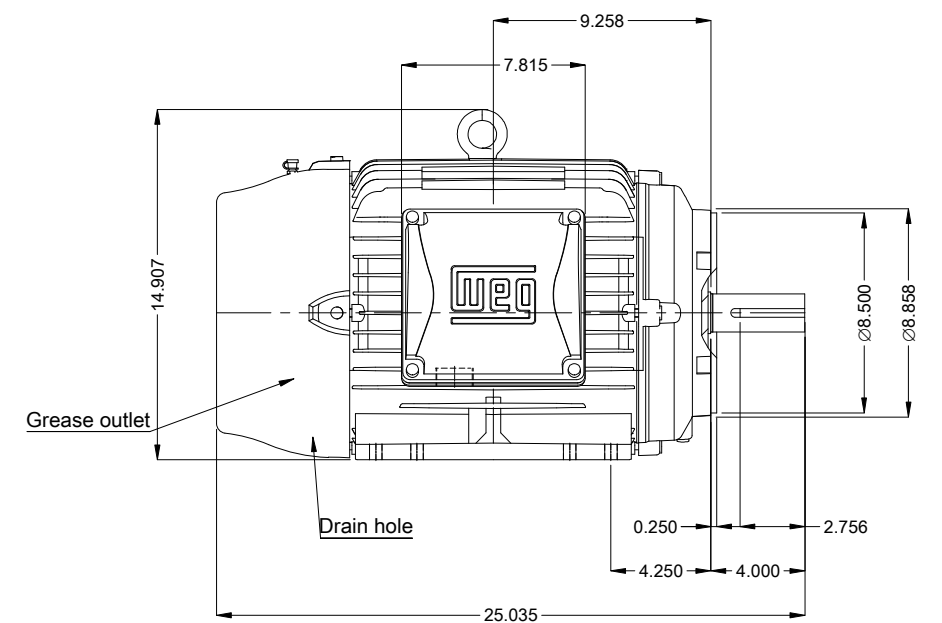


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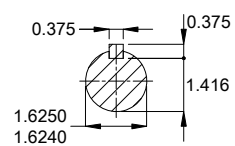
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Mounting B34D



7.5 HP 08 Poles 60 Hz

Dimensions in inches

Scale 1 : 8

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ECM

LOC

SUMMARY OF MODIFICATIONS

EXECUTED

CHECKED

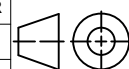
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DATE

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THREE PH. MOTOR W22 NEMA PREM. EFF.

FRAME 254/6TC IP55 TEFC

PREVIEW

WDD

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