ABB BALDOR RELIANCE

Customer information packet

CHC244A

.33HP, 1700RPM, 1PH, 60HZ, 48Z, 3414C, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	48Z
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Oil Capacitor Start and Run
Output @ Frequency	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.700 A @ 230.0 V
	3.400 A @ 115.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	B

Part Detail

Revision	N
Type	AC
Mech. spec.	34M212
Base	
Status	PRD/A
Elec. spec.	34WGR057
Layout	34LYM212
Eff. date	10-28-2024
CD Diagram	CD0804
Poles	04
Leads	7#18
Proprietary	False
Created date	05-14-2013

Inverter Code	Not Inverter
KVA Code	E
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3414C
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	1700 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	WG

Nameplate

NP1257L								
CAT.NO.	CHC244A							
SPEC.	34M212R057G1							
HP	.33							
VOLTS	115/230							
AMP	3.4/1.7							
RPM	1700							
FRAME	48Z	**HZ**	60	**PH**	1			
SER.F.	1.15	**CODE**	E	**DES**	-	**CL**	B	
NEMA-NOM-EFF	70	**PF**	90					
RATING	40C AMB-CONT							
CC								
DE	6203	**ODE**	6203					
ENCL	TEAO	**SN**						

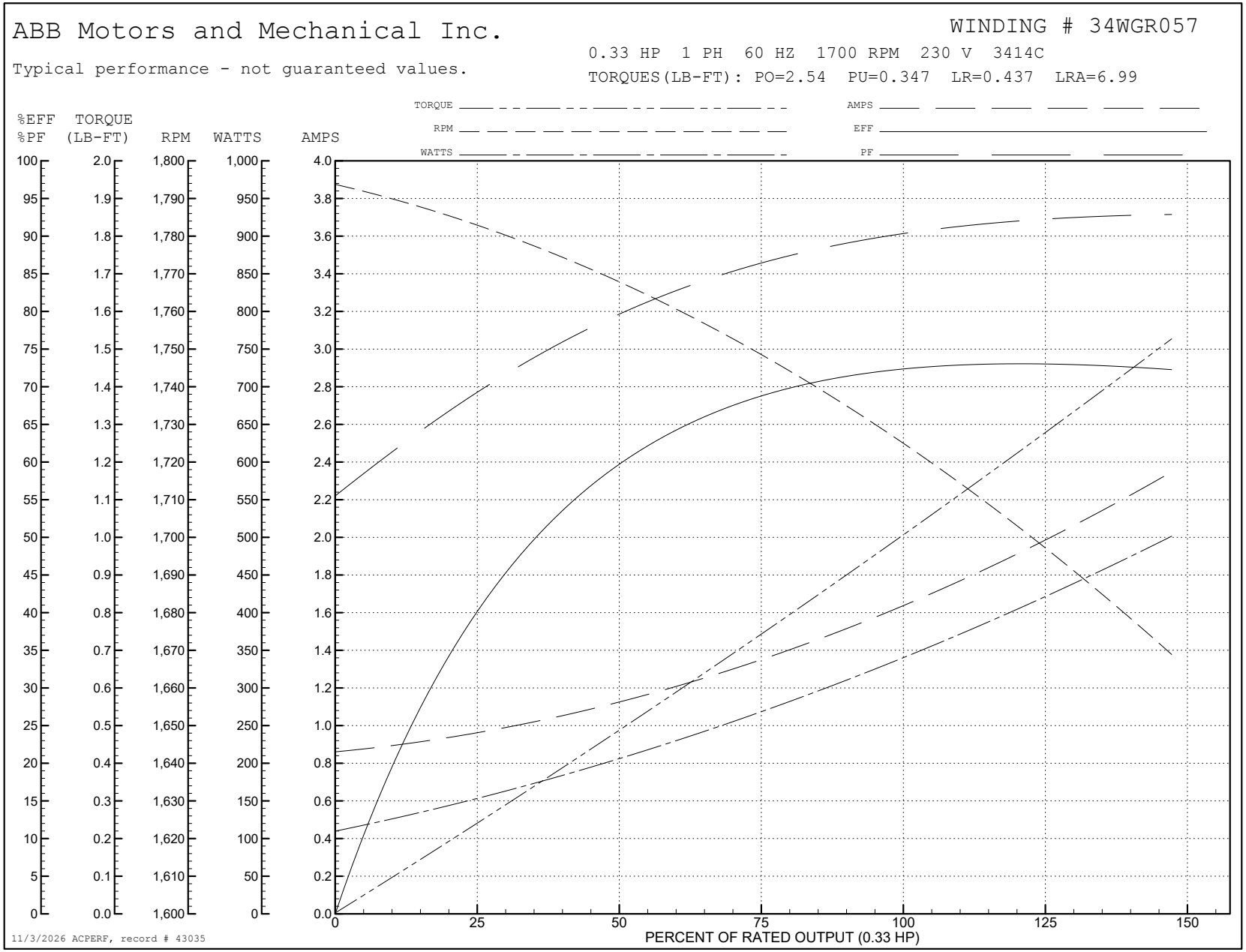
AC Induction Motor Performance Data
Record # 43035
Typical performance - not guaranteed values

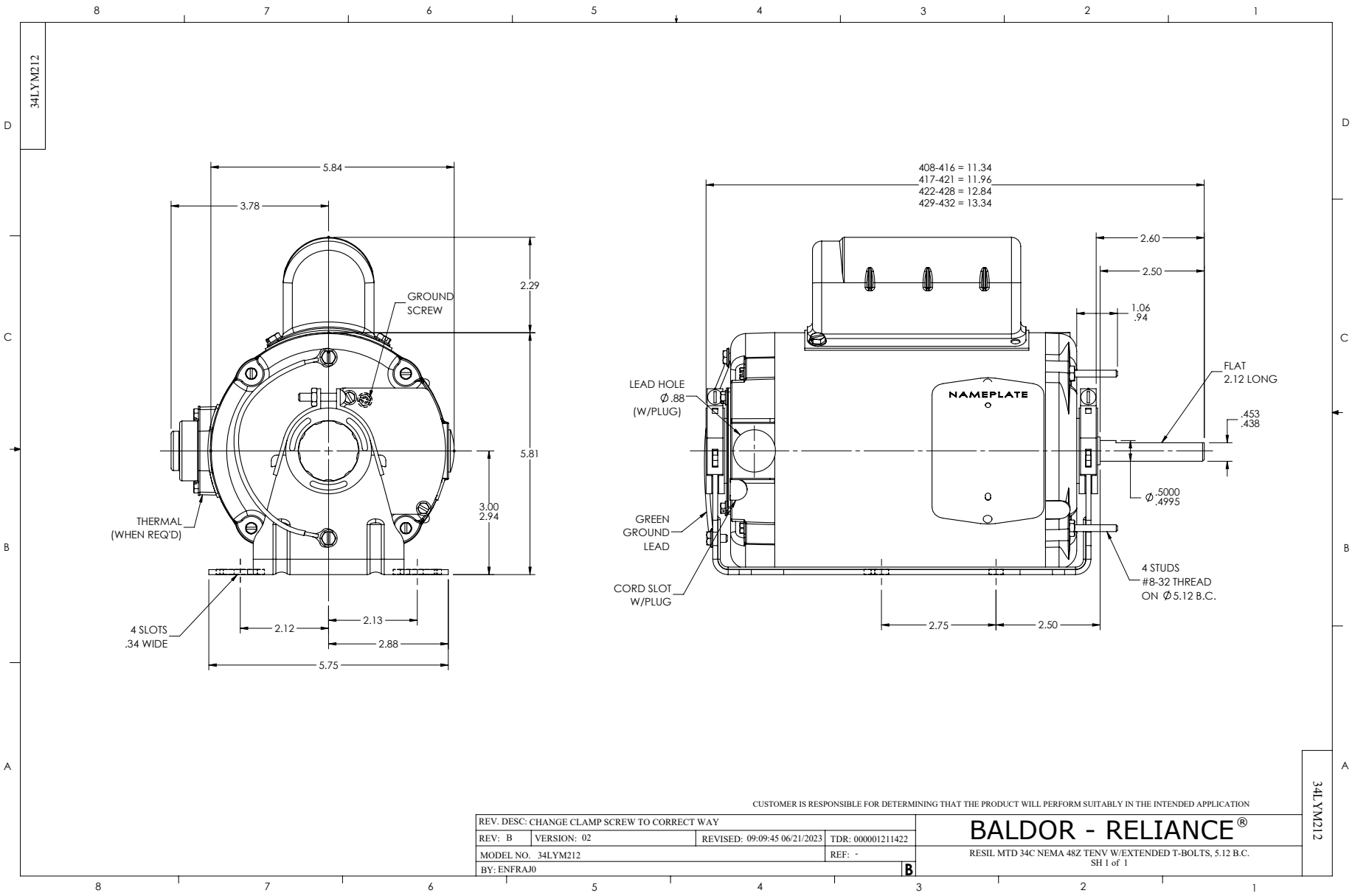
Winding: 34WGR057-R001	**Type:** 3414C	**Enclosure:** TEAO

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.33 AIR OVER	**Full Load Torque**	1.03 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			3.4/1.7	**Breakdown Torque**	2.54 LB-FT
R.P.M.			1700	**Pull-up Torque**	0.347 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	0.437 LB-FT
NEMA Design Code	-	**KVA Code**	E	**Starting Current**	6.99 A
Service Factor (S.F.)			1.15	**No-load Current**	0.856 A
NEMA Nom. Eff.	70	**Power Factor**	90	**Line-line Res. @ 25ºC**	10.817 Ω A Ph 9.0175 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	

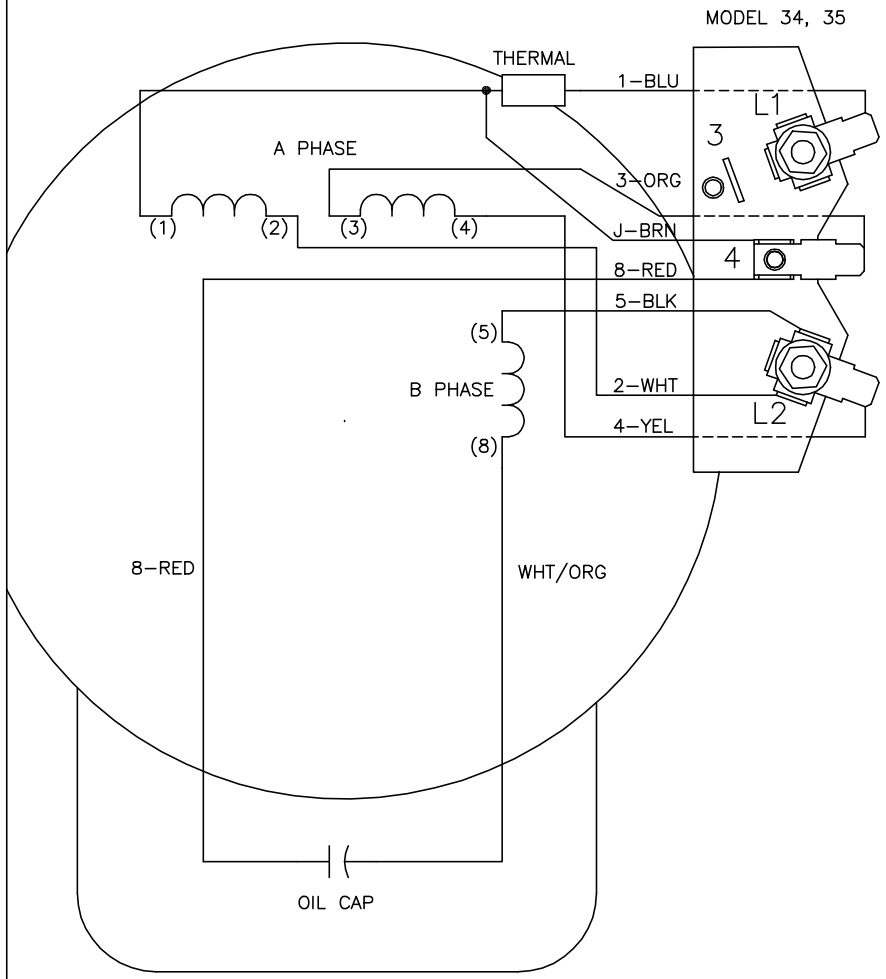
Load Characteristics 230 V, 60 Hz, 0.33 HP

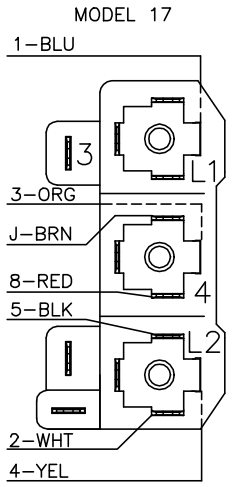
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	72	81	87	90	92	93	91
Efficiency	40.9	60	69.7	73.2	73	71.8	73.1
Speed	1781.1	1764.1	1747.9	1725	1697.9	1667.8	1709
Line amperes	0.975	1.15	1.36	1.66	1.98	2.35	1.85


ABB Motors and Mechanical Inc.
WINDING # 34WGR057
Typical performance - not guaranteed values.
0.33 HP 1 PH 60 HZ 1700 RPM 230 V 3414C
TORQUES(LB-FT): PO=2.54 PU=0.347 LR=0.437 LRA=6.99
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
11/3/2026 ACPERF, record # 43035


34LYM212
5.84
3.78
2.29
GROUND SCREW
5.81
3.00
2.94
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.12
2.13
2.88
5.75
408-416 = 11.34
417-421 = 11.96
422-428 = 12.84
429-432 = 13.34
2.60
2.50
1.06
.94
FLAT 2.12 LONG
.453
.438
LEAD HOLE Ø.88 (W/PLUG)
NAMEPLATE
Ø.5000
.4995
GREEN GROUND LEAD
CORD SLOT W/PLUG
4 STUDS #8-32 THREAD ON Ø5.12 B.C.
2.75
2.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: B
VERSION: 02
REVISED: 09:09:45 06/21/2023
TDR: 000001211422
MODEL NO. 34LYM212
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL MTD 34C NEMA 48Z TENV W/EXTENDED T-BOLTS, 5.12 B.C.
SH 1 of 1
34LYM212

CD0804





NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3. MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0804

REV. DESC: OMIT (WHT/BLU) MARKER			BALDOR ELECTRIC Co.
REV. LTR: E	BY: MEM	REVISED: 10:37:34 11/25/2002	TDR: 288036
CD0804		FILE: AAA00007297	REF: CD0804
		MTL: –	TYPE C, DV, REV, THERMAL (T'STAT IN LINE), TERM PLATE