ABB BALDOR RELIANCE

Customer information packet

CHC565A

1 AIR OVERHP, 1090RPM, 1PH, 60HZ, 56, 3534C, T
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	56
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	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	C UR US
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	10.100 A @ 115.0 V
	5.100 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	B

Part Detail

Revision	-
Type	AC
Mech. spec.	35E3460
Base	
Status	PRD/A
Elec. spec.	35WGZ929
Layout	35LYE3460
Eff. date	12-02-2024
CD Diagram	CD0381
Poles	06
Leads	6#18,1#14 #1TH Y
Proprietary	False
Created date	02-23-2023

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3534C
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.28 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1090 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	SB
Winding Thermal 2	None

Nameplate

NP1257L								
CAT.NO.	CHC565A							
SPEC.	35E3460Z929G1							
HP	1 AIR OVER							
VOLTS	115/230							
AMP	10.1/5.1							
RPM	1090							
FRAME	56	**HZ**	60	**PH**	1			
SER.F.	1.00	**CODE**	B	**DES**	-	**CL**	F	
NEMA-NOM-EFF		**PF**						
RATING	40C AMB-CONT							
CC								
DE	6203	**ODE**	6203					
ENCL	TEAO	**SN**						

AC Induction Motor Performance Data
Record # 89162
Typical performance - not guaranteed values

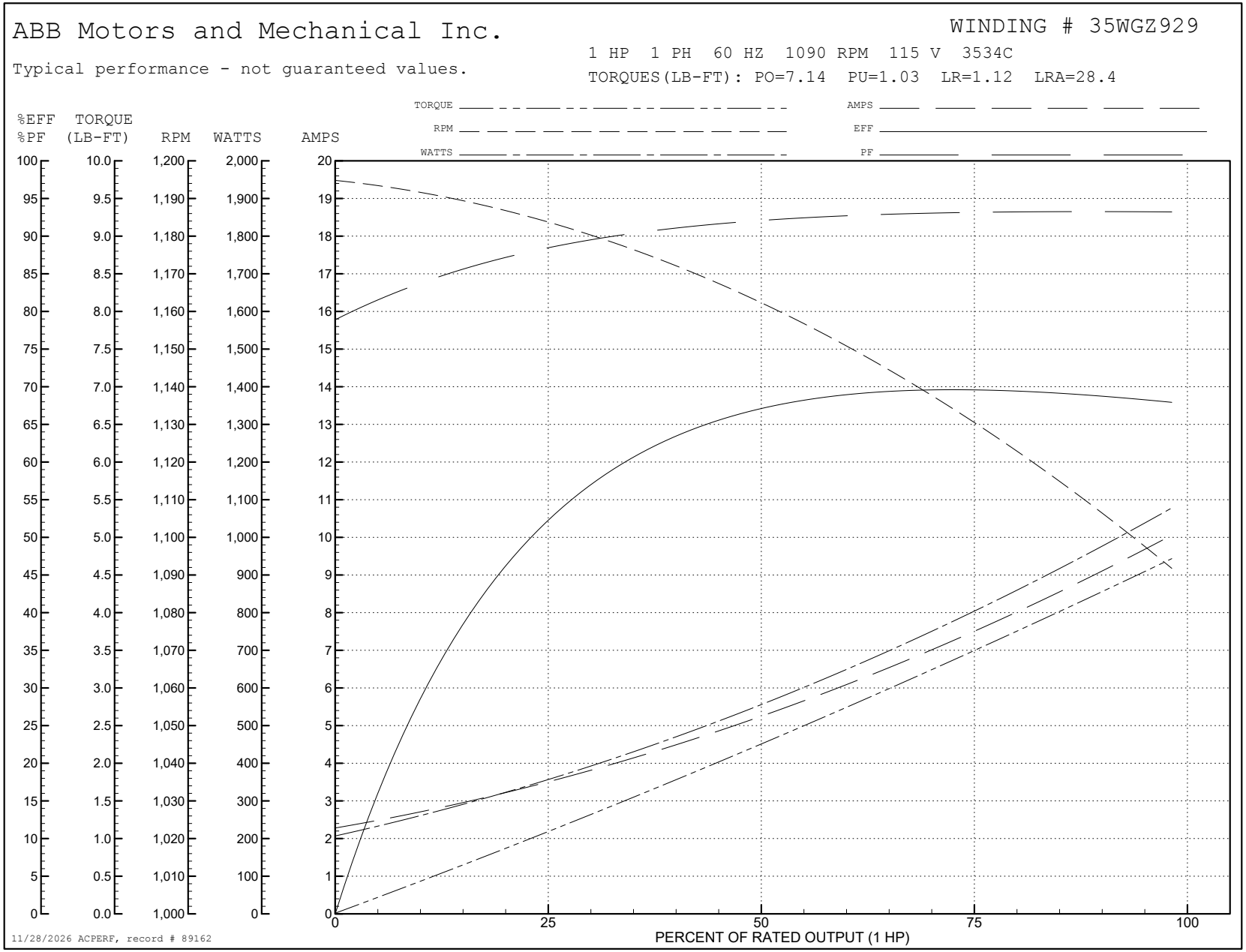
Winding: 35WGZ929-R001	**Type:** 3534C	**Enclosure:** TEAO

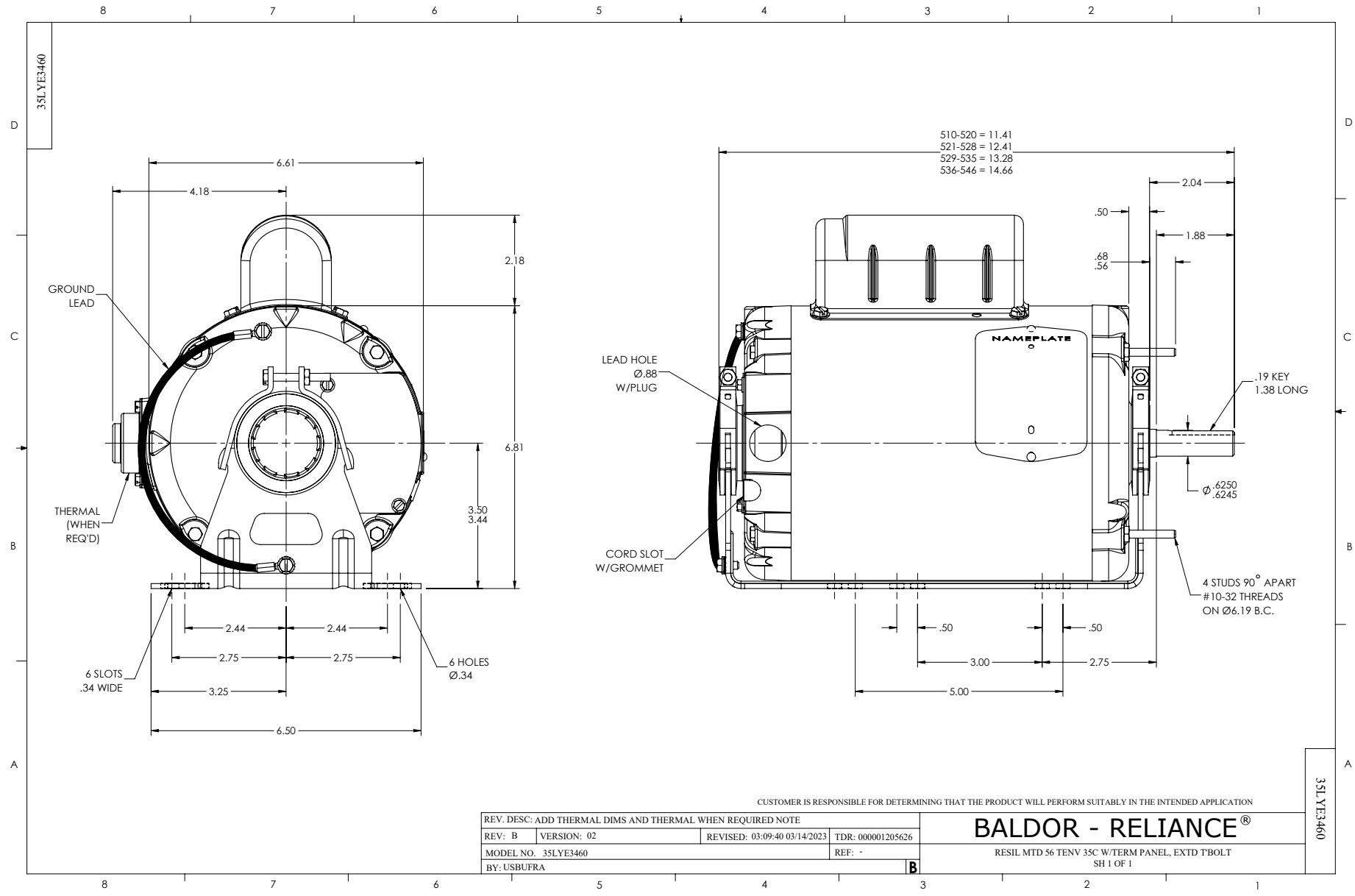
Nameplate Data			
Rated Output (HP)			1
Volts			115/230
Full Load Amps			10.1/5.1
R.P.M.			1090
Hz	60	**Phase**	1
NEMA Design Code	-	**KVA Code**	B
Service Factor (S.F.)			1
NEMA Nom. Eff.	66	**Power Factor**	93
Rating - Duty			40C AMB-CONT

115 V, 60 Hz: Low Voltage Connection	
Full Load Torque	4.73 LB-FT
Start Configuration	direct on line
Breakdown Torque	7.14 LB-FT
Pull-up Torque	1.03 LB-FT
Locked-rotor Torque	1.12 LB-FT
Starting Current	28.4 A
No-load Current	2.23 A
Line-line Res. @ 25ºC	1.28 Ω A Ph 13.3 Ω B Ph
Temp. Rise @ Rated Load	91°C
Locked-rotor Power Factor	72.2
Rotor inertia	0.246 lb-ft²

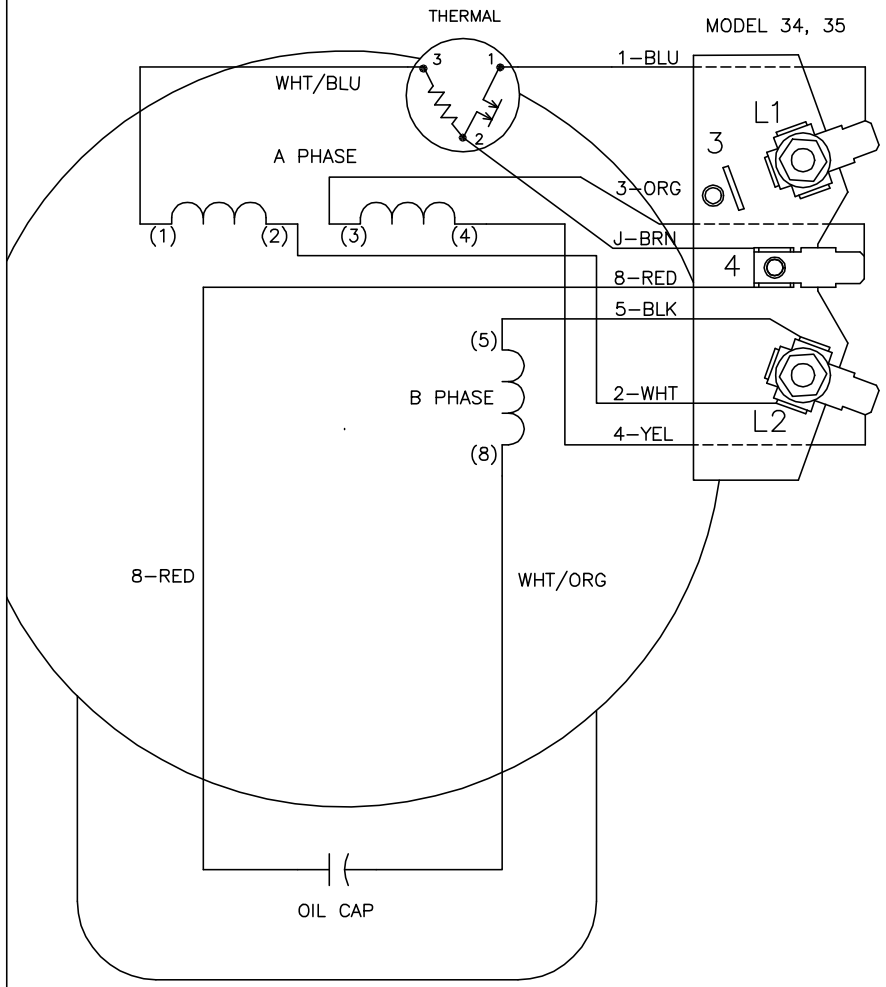
Load Characteristics 115 V, 60 Hz, 1 HP

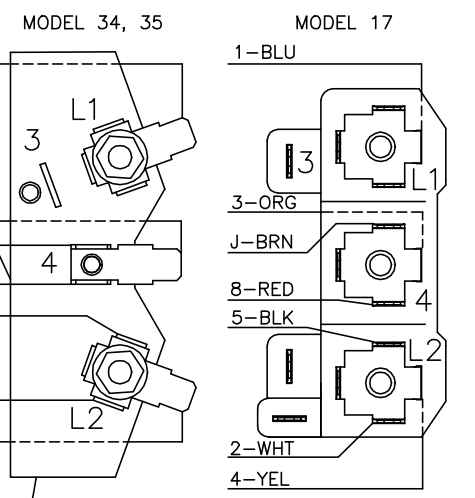
% of Rated Load	**25**	**50**	**75**	**100**
Power Factor	89	92	93	93
Efficiency	52.8	67.7	70.6	67.5
Speed	1180	1159	1131	1090
Line amperes	3.73	5.48	7.56	10.13


ABB Motors and Mechanical Inc.
WINDING # 35WGZ929
Typical performance - not guaranteed values.
1 HP 1 PH 60 HZ 1090 RPM 115 V 3534C
TORQUES(LB-FT): PO=7.14 PU=1.03 LR=1.12 LRA=28.4
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/28/2026 ACPERF, record # 89162


35LYE3460
6.61
4.18
2.18
6.81
3.50
3.44
GROUND LEAD
THERMAL (WHEN REQ'D)
2.44
2.44
2.75
2.75
3.25
6.50
6 SLOTS .34 WIDE
6 HOLES Ø.34
510-520 = 11.41
521-528 = 12.41
529-535 = 13.28
536-546 = 14.66
2.04
.50
1.88
.68
.56
NAMEPLATE
LEAD HOLE Ø.88 W/PLUG
.19 KEY 1.38 LONG
Ø .6250 .6245
CORD SLOT W/GROMMET
4 STUDS 90° APART #10-32 THREADS ON Ø6.19 B.C.
.50
.50
3.00
2.75
5.00
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: B
VERSION: 02
REVISED: 03:09:40 03/14/2023
TDR: 000001205626
MODEL NO. 35LYE3460
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
RESIL MTD 56 TENV 35C W/TERM PANEL, EXTD T'BOLT
SH 1 OF 1
35LYE3460

CD0381





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.

CD0381

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000373051	
CD0381	FILE: \AAA\00007\119	REVISED: 08:56:57 09/08/2005	TYPE C, DV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	