

ABB BALDOR RELIANCE III

Customer information packet

RL1310A

1HP, 1725RPM, 1PH, 60HZ, 56H, 3520L, OPEN, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56H
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 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	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	13.000 A @ 115.0 V 6.500 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	A
Type	AC
Mech. spec.	35F391
Base	
Status	PRD/A
Elec. spec.	35WGK600
Layout	35LYF391
Eff. date	03-18-2025
CD Diagram	CD0052
Poles	04
Leads	6#18,1#14 #1TH
Proprietary	False
Created date	01-14-2025

KVA Code	H
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	3520L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.42 IN
Power Factor	73
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	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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	ES
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	RL1310A										
SPEC.	35F391K600G1										
HP	1										
VOLTS	115/230										
AMP	13/6.5										
RPM	1725										
FRAME	56H			HZ	60			PH	1		
SER.F.	1.15		CODE	H		DES	N	CL	F		
NEMA-NOM-EFF	66		PF	73							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	OPEN		SN								

AC Induction Motor Performance Data

Record # 111272

Typical performance - not guaranteed values

Winding: 35WGK600-R001				Type: 3520L		Enclosure: OPSB		
Nameplate Data				115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		1		Full Load Torque		3.049 LB-FT		
Volts		115/230		Start Configuration		direct on line		
Full Load Amps		13/6.5		Breakdown Torque		7.38 LB-FT		
R.P.M.		1725		Pull-up Torque		6.33 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		7.09 LB-FT		
NEMA Design Code		N	KVA Code	H		Starting Current		60.4 A
Service Factor (S.F.)		1.15		No-load Current		9.82 A		
NEMA Nom. Eff.		66	Power Factor	73		Line-line Res. @ 25°C		0.78284 Ω A Ph 1.9 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		48°C		
S.F. Amps				Temp. Rise @ S.F. Load		58°C		

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	50	63	73	80	85	77
Efficiency	47.1	62	67.1	68.2	66.5	62.6	67.2
Speed	1780.6	1765.2	1748	1727.1	1696.7	1658.3	1709
Line amperes	9.9	10.4	11.5	13.1	15.3	18.5	14.4

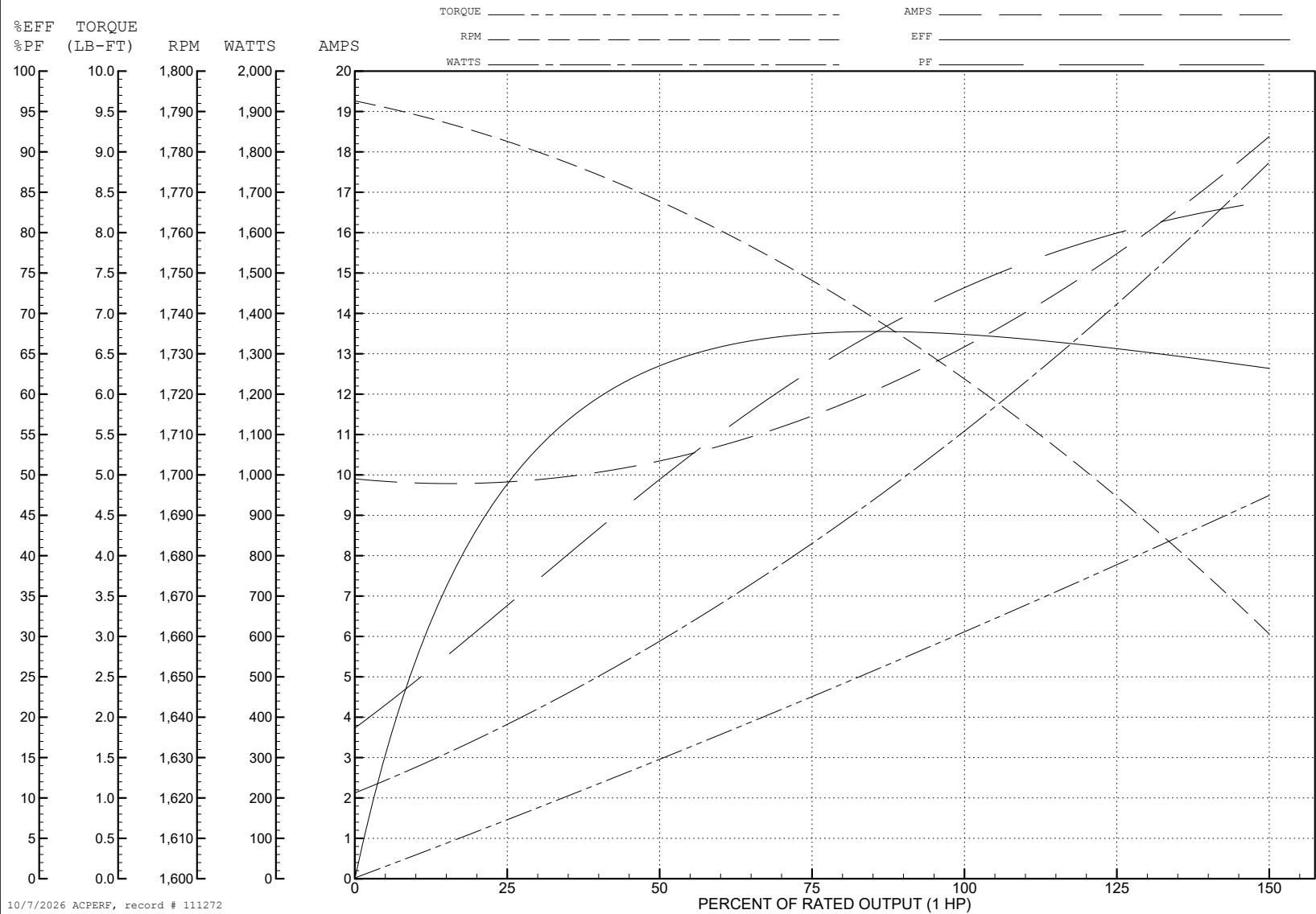
ABB Motors and Mechanical Inc.

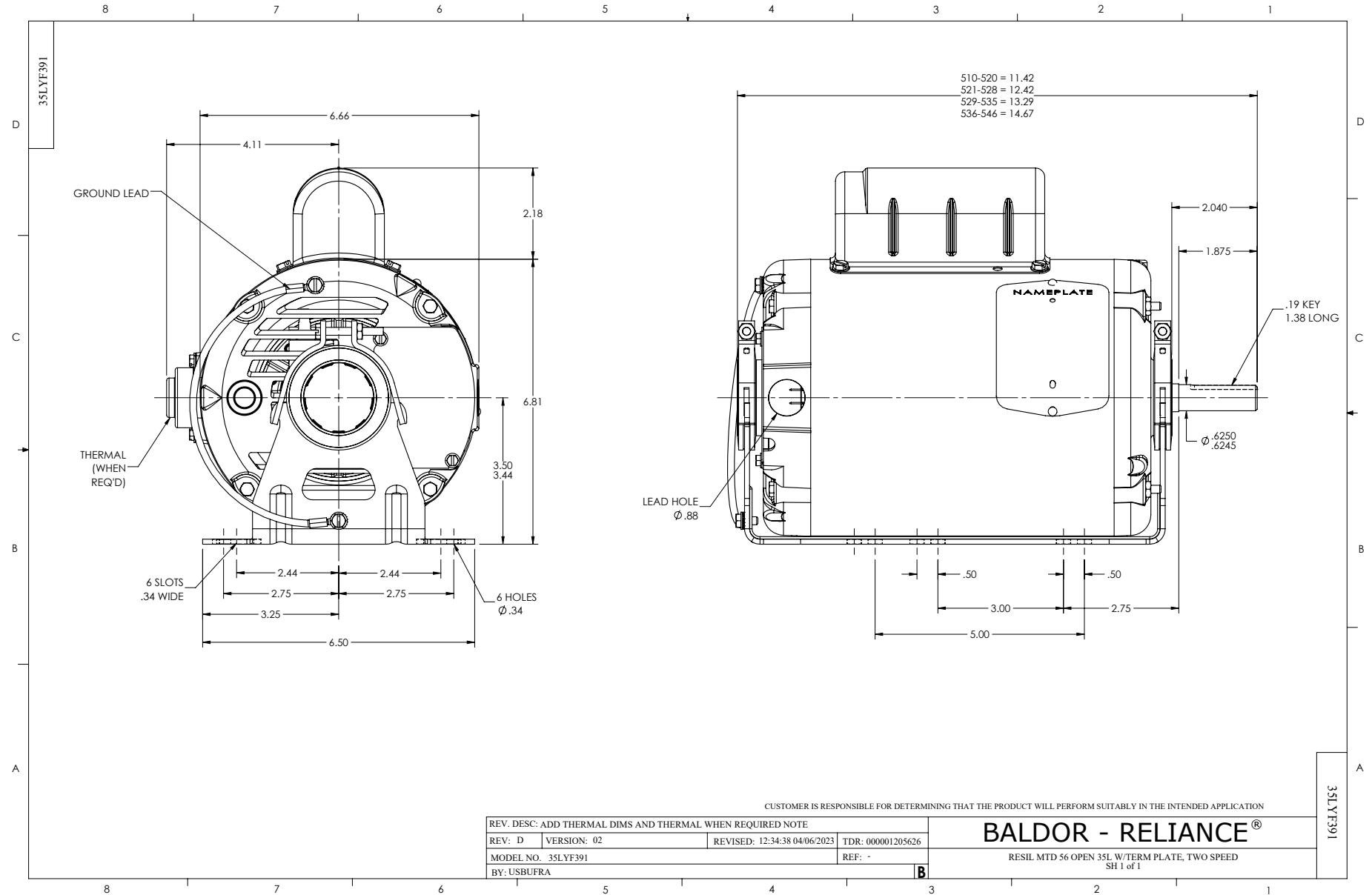
WINDING # 35WGK600

Typical performance - not guaranteed values.

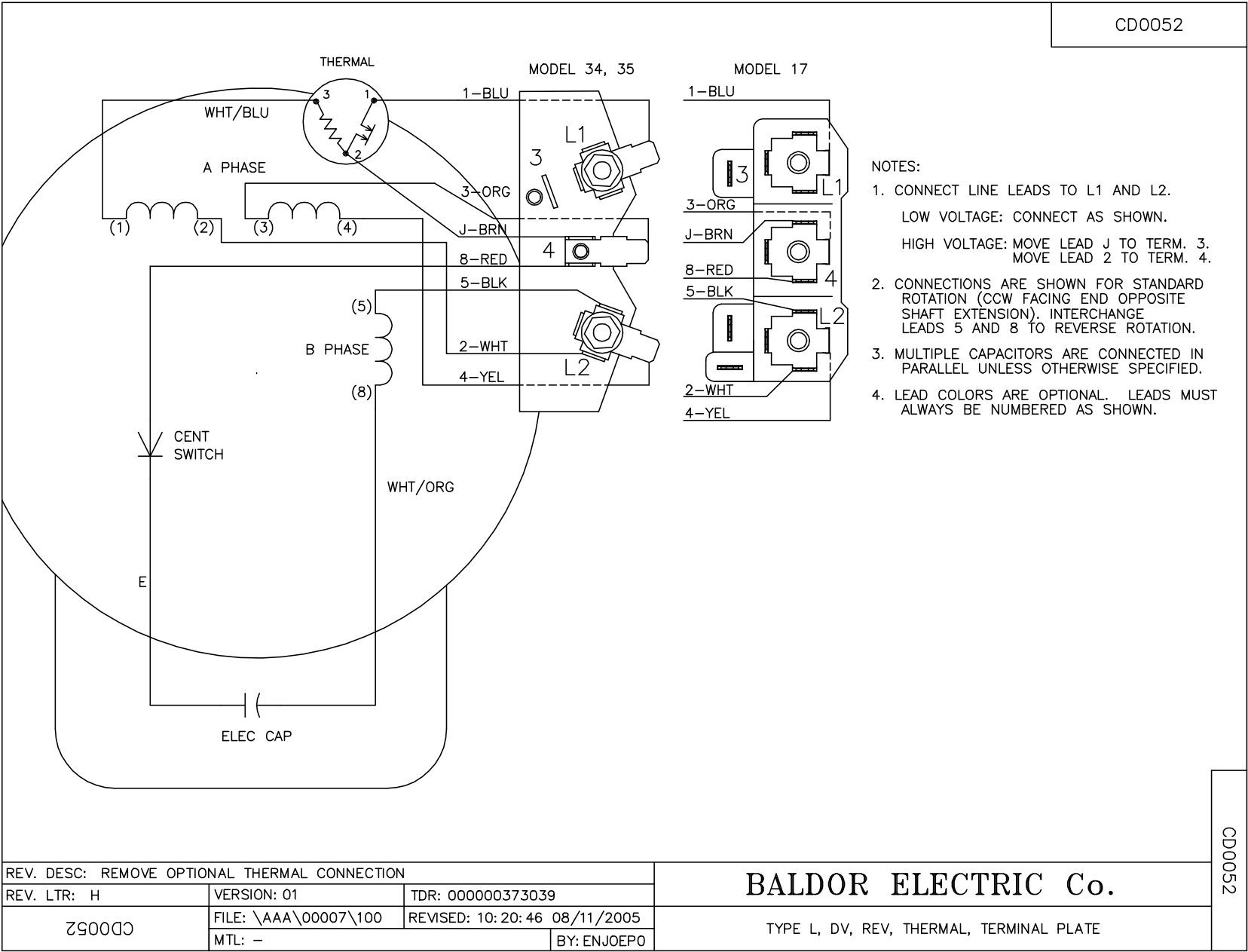
1 HP 1 PH 60 HZ 1725 RPM 115 V 3520L

TORQUES (LB-FT) : PO=7.38 PU=6.33 LR=7.09 LRA=60.4





CD0052



CD0052

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION		
REV. LTR: H	VERSION: 01	TDR: 000000373039
CD0052	FILE: \AAA\00007\100	REVISED: 10:20:46 08/11/2005
	MTL: -	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, TERMINAL PLATE