

ABB BALDOR RELIANCE III

Customer information packet

EL11319M

1.5HP, 1755RPM, 1PH, 60HZ, 56H, 3540LC, OPEN, F

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, Cap Run
Output @ Frequency	1.500 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	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.600 A @ 115.0 V 6.300 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	83.8 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.3 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	D
Type	AC
Mech. spec.	35E007
Base	
Status	PRD/A
Elec. spec.	35WGK254
Layout	35LYE007
Eff. date	01-08-2025
CD Diagram	CD0320
Poles	04
Leads	4#16 A&J,2#18 B PH,1#14 #4TH
Proprietary	False
Created date	02-12-2024

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.00 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 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	Manual Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP3273L											
CAT.NO.	EL11319M										
SPEC.	35E007K254G1										
HP	1.5										
VOLTS	115/230										
AMP	12.6/6.3										
RPM	1755										
FRAME	56H		HZ	60				PH	1		
SER.F.	1.15	CODE	K	DES	L	CL	F				
F.L. AVG. EFF.	83.8	PF	91								
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	OPEN	SN									

Parts List

Part number	Description	Quantity
SA422481	SA 35E007K254G1	1.000 ea
RA414487	RA 35E007K254G1	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	1.000 ea
EC1540A06SP	ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.	1.000 ea
WD3006A01	RSS-2-103JT 2W 10K RES. METAL OXIDE 5%	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3209G00	MASTER ODE,203 BRG	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
35CB3801	CAPACITOR COVER, CAST	1.000 ea
HA7010	CAPACITOR RETENTION CLAMP	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3210B00	MASTER DE,205 BRG,1.000SH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.017 ga
HA3100A26	THRUBOLT 10-32 X 11.500	4.000 ea
SP5181A01	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0269	1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H	1.000 ea
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP3273L	ALUM SUPER-E THERMALLY PROTECTED, LASER	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 109835

Typical performance - not guaranteed values

Winding: 35WGK254-R001			Type: 3540LC		Enclosure: OPEN		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		4.49 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		12.6/6.3	Breakdown Torque		12.5 LB-FT		
R.P.M.		1755	Pull-up Torque		8.9 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		13.7 LB-FT	
NEMA Design Code		L	KVA Code	K	Starting Current		107 A
Service Factor (S.F.)		1.15	No-load Current		4.43 A		
NEMA Nom. Eff.		83.8	Power Factor	91	Line-line Res. @ 25°C		0.462 Ω A Ph 1.51 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		32°C
S.F. Amps					Temp. Rise @ S.F. Load		39°C
					Locked-rotor Power Factor		88.9
					Rotor inertia		0.289 lb-ft²

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	81	88	91	93	94	92
Efficiency	68.8	80.8	84.3	84.2	83.6	81.1	84
Speed	1788	1778	1768	1756	1742	1725	1748
Line amperes	5.42	7.5	9.86	12.59	15.71	19.23	14.5

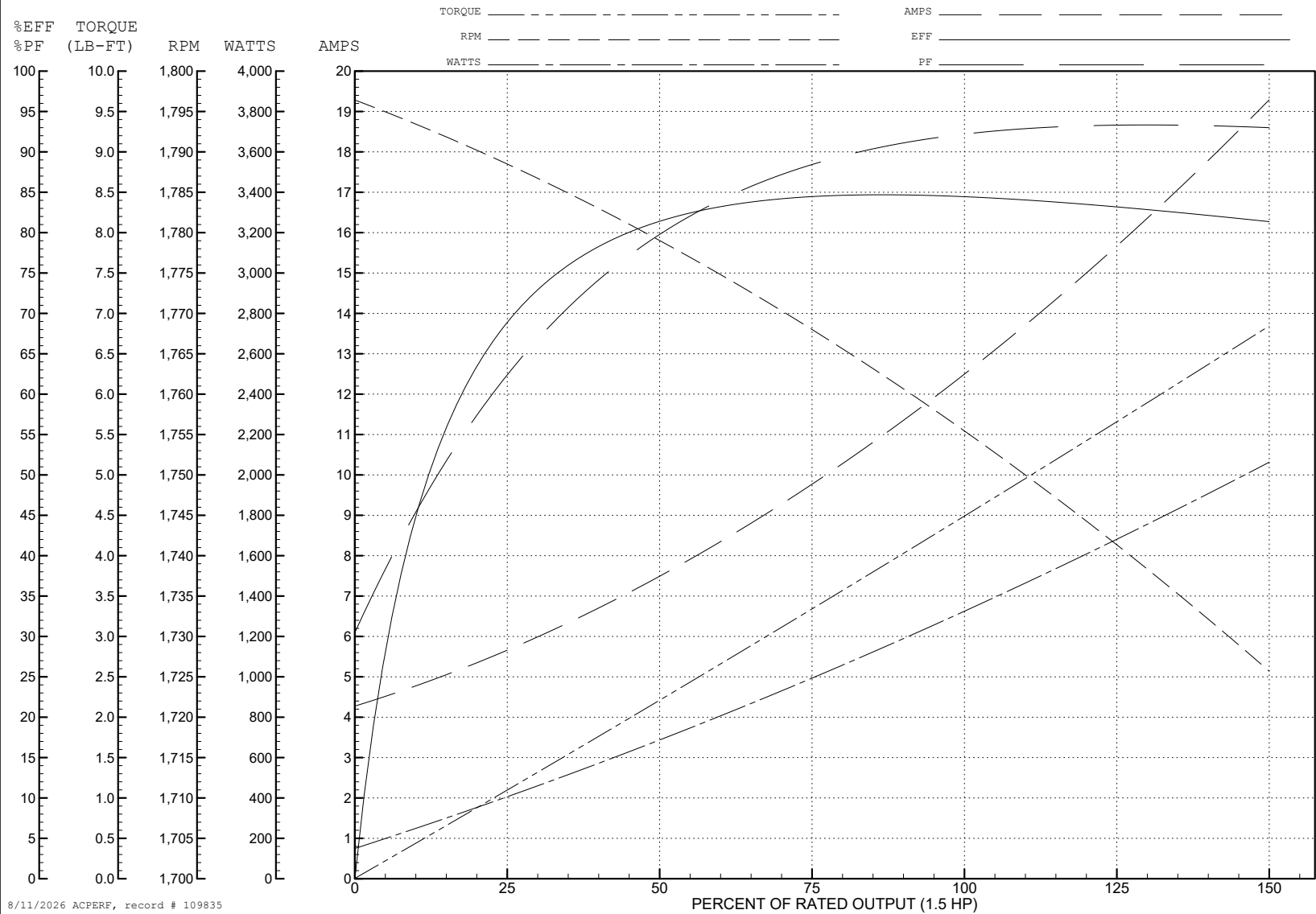
ABB Motors and Mechanical Inc.

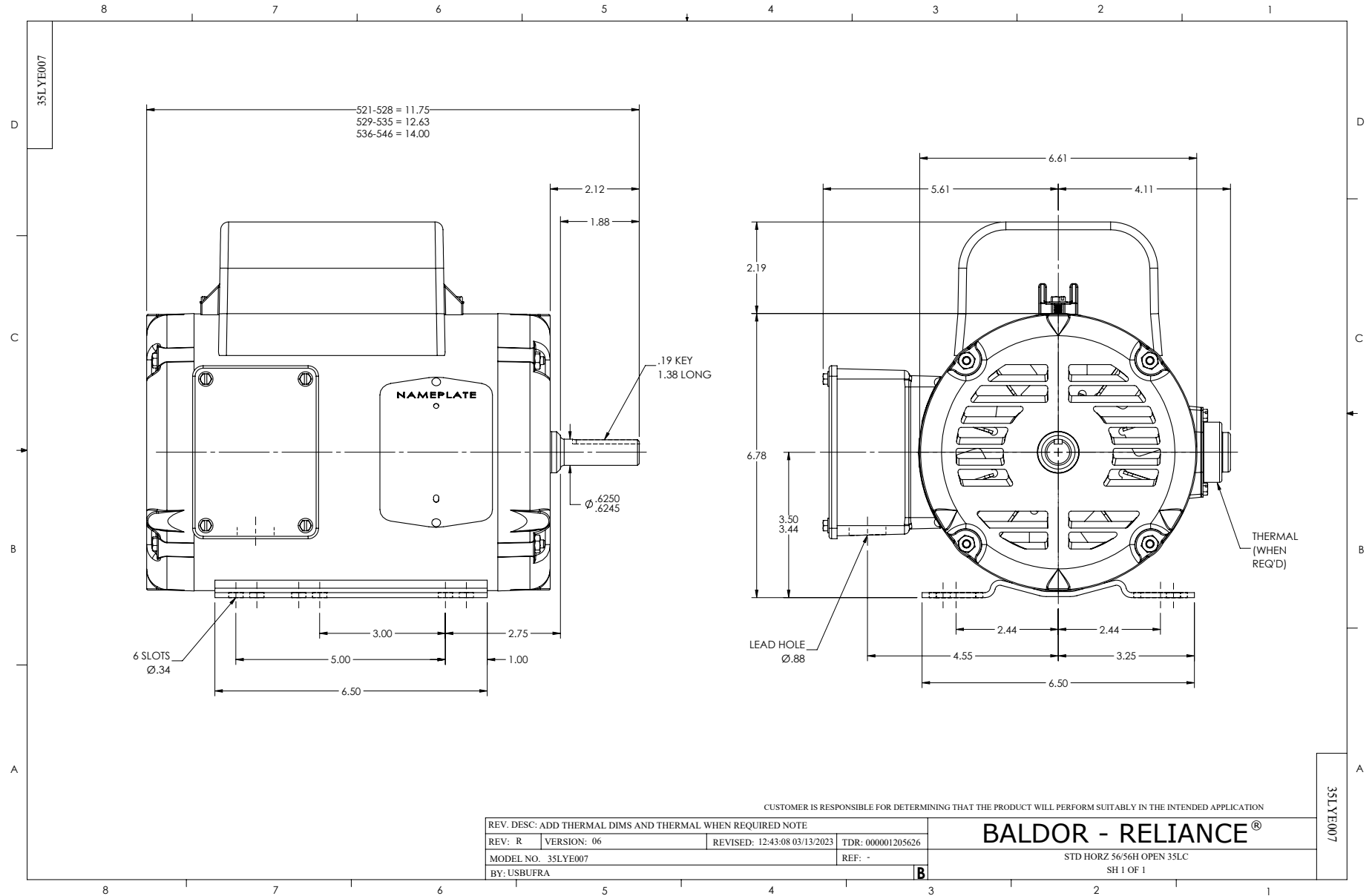
WINDING # 35WGK254

Typical performance - not guaranteed values.

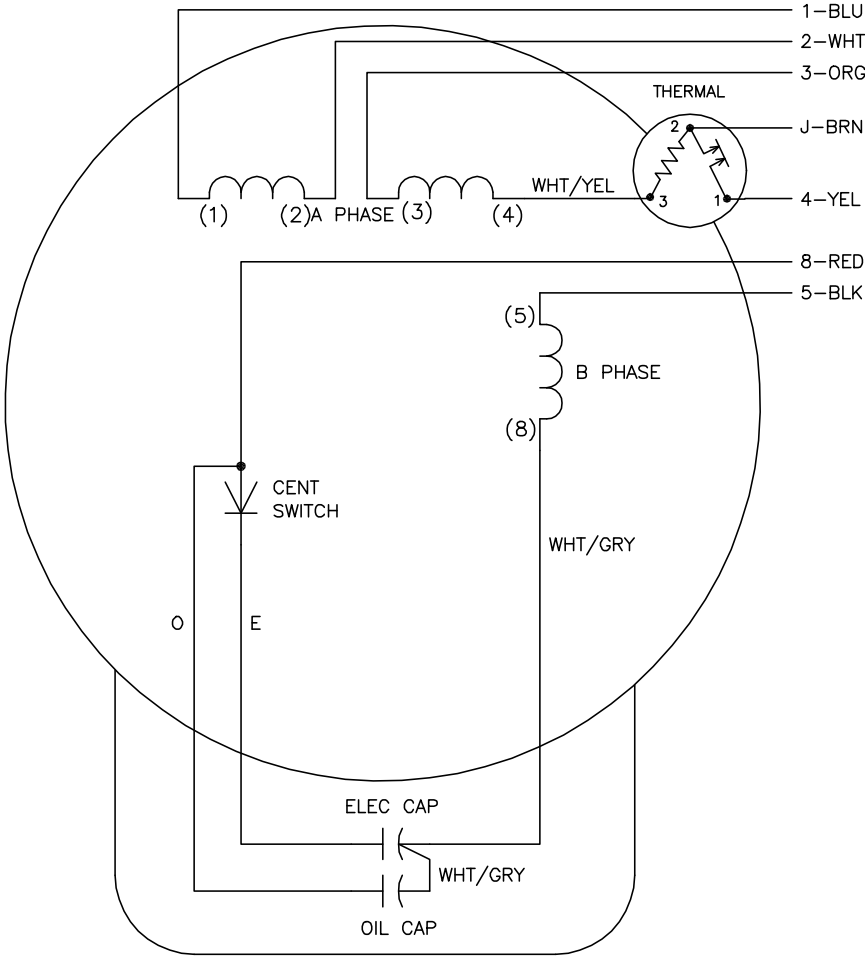
1.5 HP 1 PH 60 HZ 1755 RPM 115 V 3540LC

TORQUES (LB-FT): PO=12.5 PU=8.9 LR=13.7 LRA=107





CD0320



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4	2,3,5	J
HIGH OPP	1,5	4	2,3,8	J
LOW STD	1,3,8	4	—	2,J,5
LOW OPP	1,3,5	4	—	2,J,8

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0320

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 000000941594
FILE: \AAA\00007\422	REVISED: 02:21:00 08/28/2015	BY: ENALEMO
MTL: —	© □	

BALDOR

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD
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