

ABB BALDOR RELIANCE III

Customer information packet

AFL3510A

1HP, 1750RPM, 1PH, 60HZ, 56, 3528LC, TEAO, F1, N

Class - None

Division - Not Applicable

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	Cap Start, Cap 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.400 A @ 230.0 V 8.800 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	B
Type	AC
Mech. spec.	35V331
Base	
Status	PRD/A
Elec. spec.	35WGG397
Layout	35LYV331
Eff. date	12-30-2025
CD Diagram	CD0703
Poles	04
Leads	6#18,1#16 #1TH
Proprietary	False
Created date	11-14-2024

KVA Code	K
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	3528LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.68 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	Y
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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.	AFL3510A										
SPEC.	35V331G397G1										
HP	1										
VOLTS	115/230										
AMP	8.8/4.4										
RPM	1750										
FRAME	56			HZ		60		PH		1	
SER.F.	1.00	CODE	K	DES	L	CL	F				
NEMA-NOM-EFF	81.5	PF	89								
RATING	40C AMB-CONT										
CC											
DE	6205	ODE		6203							
ENCL	TEAO	SN									

Parts List

Part number	Description	Quantity
SA432591	SA 35V331G397G1	1.000 ea
RA424855	RA 35V331G397G1	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
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3102H01	FREP ENCL 203 BRG TERM PANEL, .50 NPT	1.000 ea
35CB3801	CAPACITOR COVER, CAST	1.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
HA7010	CAPACITOR RETENTION CLAMP	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3123A00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35CB4500	TERMINAL BOX LID STAMPED	1.000 ea
35GS1002	GASKET,1/16 THICK LEXIDE	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
MG1025C02	WILKOFASST SG, 787.105, TAN	0.017 ga
SP5065A03	34/35 TP STAT SW W/ LEADS, NO THERMAL	1.000 ea
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0052	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1088	PALLET PACK KIT, 8 PK	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
PK3085X	FOAM SHAFT SUPPORT PRECUT 4-1/4 X 6-3/4	1.000 ea

AC Induction Motor Performance Data

Record # 91210

Preliminary Data Sheet

Winding: 35WGG397-R002				Type: 3528LC		Enclosure: TEAO		
Nameplate Data				115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		1		Full Load Torque		3 LB-FT		
Volts		115/230		Start Configuration		direct on line		
Full Load Amps		8.8/4.4		Breakdown Torque		9.15 LB-FT		
R.P.M.		1750		Pull-up Torque		6.88 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		10.59 LB-FT		
NEMA Design Code		L		KVA Code	K		Starting Current	77.68 A
Service Factor (S.F.)		1		No-load Current		3.76 A		
NEMA Nom. Eff.		82.6	Power Factor	89	Line-line Res. @ 25°C		0.566 Ω A Ph 1.17 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C		
				Locked-rotor Power Factor		95.9		
				Rotor inertia		0.203 lb-ft²		

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	57	75	84	89	91	93
Efficiency	67.4	79.1	82.2	82.3	80.6	77.3
Speed	1786	1775	1762	1748	1730	1707
Line amperes	4.35	5.5	7.02	8.84	10.98	13.53

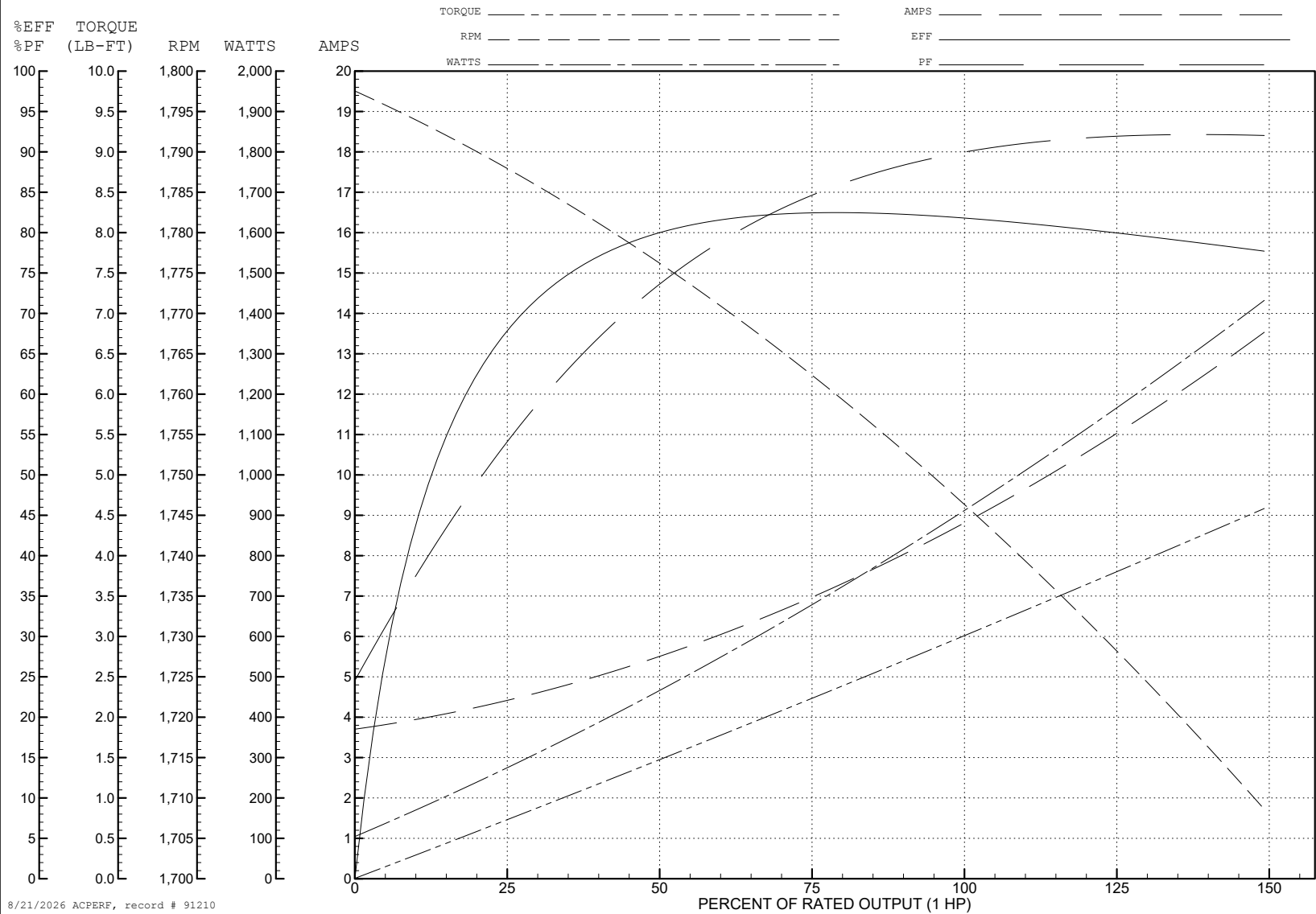
ABB Motors and Mechanical Inc.

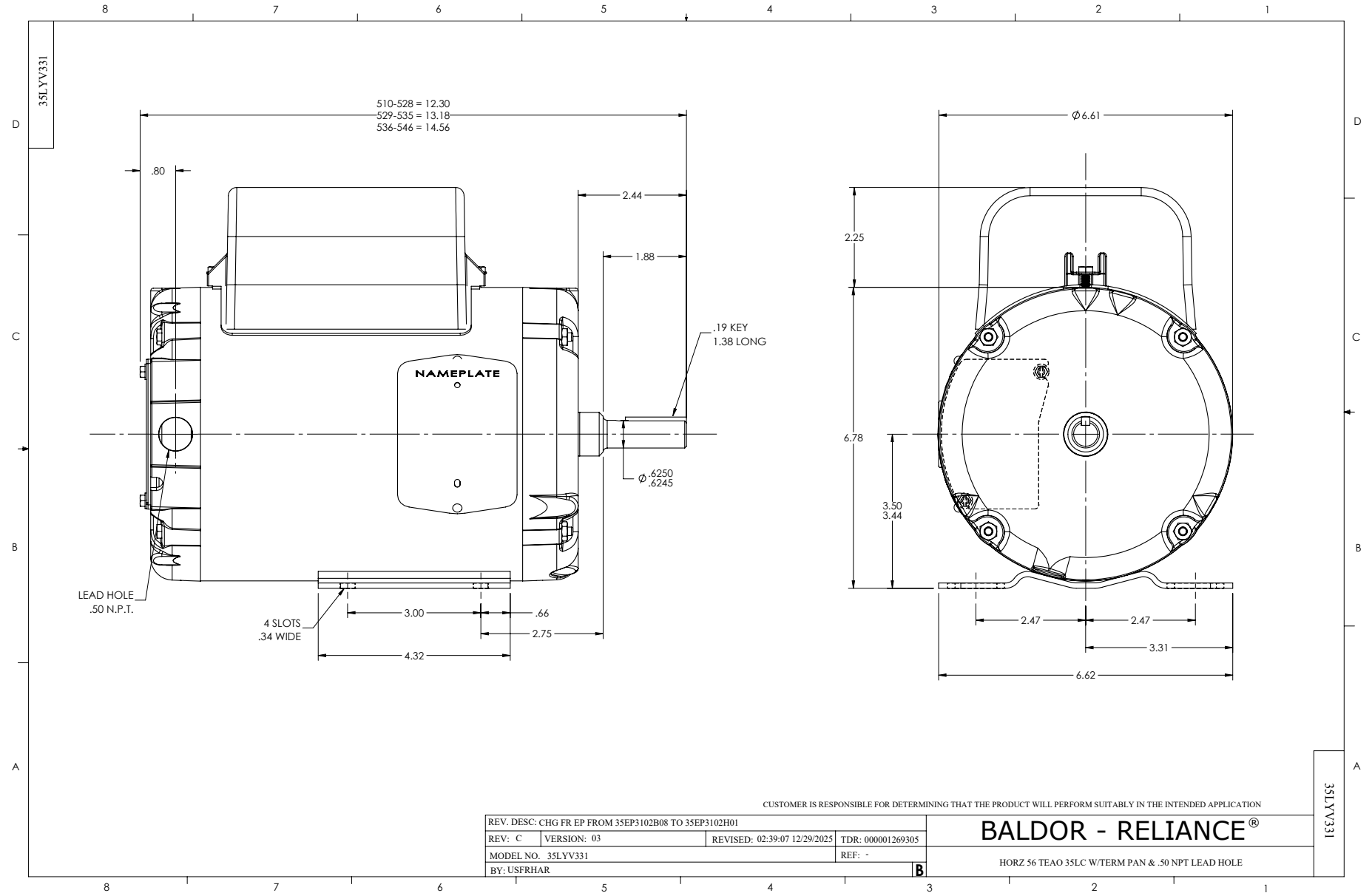
WINDING # 35WGG397

Typical performance - not guaranteed values.

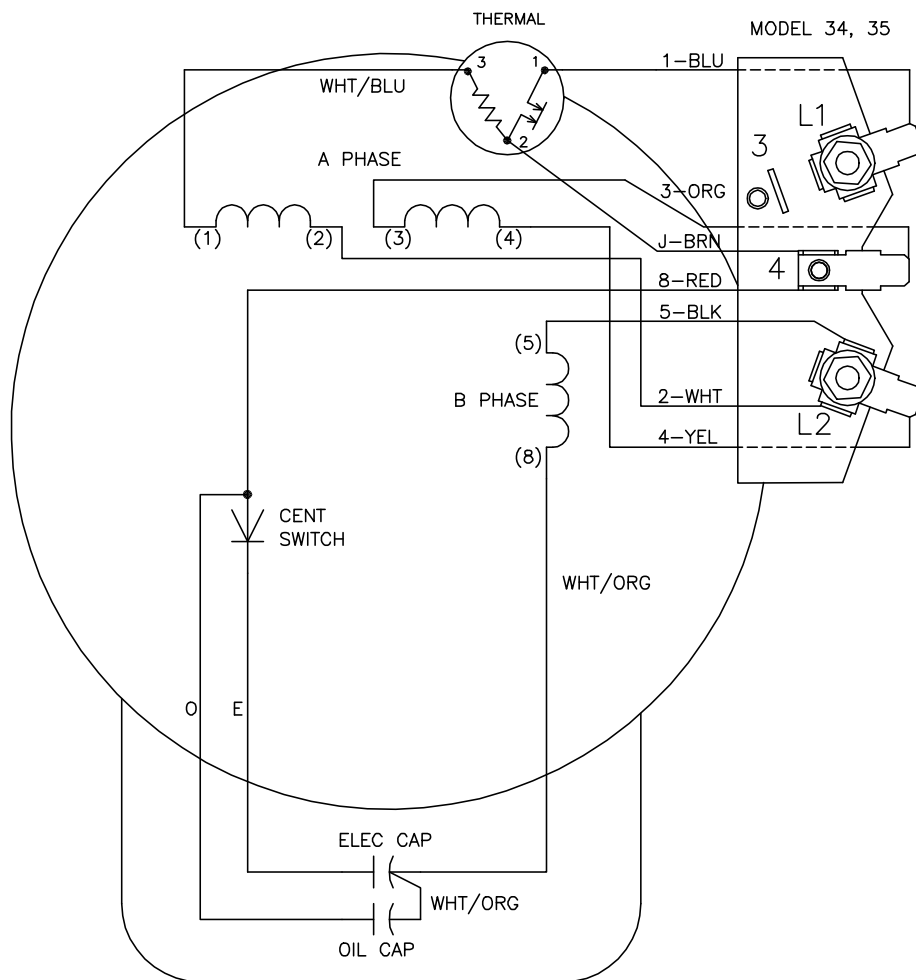
1 HP 1 PH 60 HZ 1750 RPM 115 V 3528LC

TORQUES (LB-FT) : PO=9.15 PU=6.88 LR=10.59 LRA=77.68





CD0703


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.

REV. DESC: REMOVE MODEL 17 CONNECTION

REV. LTR: G

VERSION: 02

TDR: 000001218314

FILE: \AAA\00007\140

REVISED: 08:28:11 10/11/2023

BY: ENBRIO

MTL: -


BALDOR - RELIANCE®

TYPE LC, DV, REV, THERMAL, TERMINAL PLATE

SH 1 of 1

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