

ABB BALDOR RELIANCE III

Customer information packet

ERL1203A

.25HP, 1725RPM, 1PH, 60HZ, 48, 3411LC, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	48
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	.250 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 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	2.600 A @ 115.0 V 1.900 A @ 208.0 V 1.300 A @ 230.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.5 %
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	1.3 a

Part Detail

Revision	M
Type	AC
Mech. spec.	34G752
Base	
Status	PRD/A
Elec. spec.	34WGR219
Layout	34LYG752
Eff. date	10-29-2024
CD Diagram	CD0703
Poles	04
Leads	7#18
Proprietary	False
Created date	10-02-2014

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
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	Flying Leads
Motor Standards	NEMA
Motor Type	3411LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.97 IN
Power Factor	89
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	1.35
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	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	SB

Winding Thermal 2

None

Nameplate

NP3273L									
CAT.NO.	ERL1203A								
SPEC.	34G752R219G1								
HP	.25								
VOLTS	115/230								
AMP	2.6/1.3								
RPM	1725								
FRAME	48		HZ		60		PH		1
SER.F.	1.35	CODE		L	DES	-	CL	F	
F.L. AVG. EFF.	68.5	PF		89					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE		6203				
ENCL	OPEN	SN							
	SFA 3.4/1.7								

Parts List

Part number	Description	Quantity
SA288413	SA 34G752R219G1	1.000 ea
RA274604	RA 34G752R219G1	1.000 ea
OC3020F12SP	CAPACITORS 20 MFD 370 VAC	1.000 ea
EC1161A02	BMI 091A161B125AD2A ELEC CAP 115V 1.4 X	1.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34EP3202A01	FR ENDPLATE, MACH	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
LD5000A52	LEAD ASSY W/INTERNAL STAR RING TERMINALS	1.000 ea
11XT1032G04	10-32 X 1/4" GRD SCREW	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
34GS5003	FOAM SLEEVE, ID = 2 1/16" X 3 3/8"	2.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.014 ga
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3203A01	PU ENDPLATE, MACH	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
SP5068A03	34LC TERM PANEL STAT SWITCH #E-6" AND #O	1.000 ea
34BA4001F01	RESILIENT BASE, 417-421	1.000 ea
HA3100A44	THRUBOLT 10-32 X 8.000	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea

LC0052	CONNECTION LABEL	1.000 ea
NP3273L	ALUM SUPER-E THERMALLY PROTECTED, LASER	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

AC Induction Motor Performance Data

Record # 48687

Typical performance - not guaranteed values

Winding: 34WGR219-R001			Type: 3411LC		Enclosure: OPEN			
Nameplate Data			115 V, 60 Hz: Low Voltage Connection					
Rated Output (HP)		.25	Full Load Torque		0.754 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		2.6/1.3	Breakdown Torque		1.86 LB-FT			
R.P.M.		1725	Pull-up Torque		1.57 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		2.48 LB-FT		
NEMA Design Code		-	KVA Code	L	Starting Current		20.3 A	
Service Factor (S.F.)		1.35		No-load Current		1.53 A		
NEMA Nom. Eff.		68.5	Power Factor		89	Line-line Res. @ 25°C		3.4881 Ω A Ph 6.3165 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		27°C		
S.F. Amps		3.7/1.7		Temp. Rise @ S.F. Load		34°C		

Load Characteristics 115 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	67	79	85	90	92	94	93
Efficiency	37.2	55.5	65.1	69.7	71.4	71.1	71.3
Speed	1783.6	1770.8	1755.8	1739.1	1717.7	1691.5	1707
Line amperes	1.63	1.85	2.18	2.59	3.1	3.69	3.34

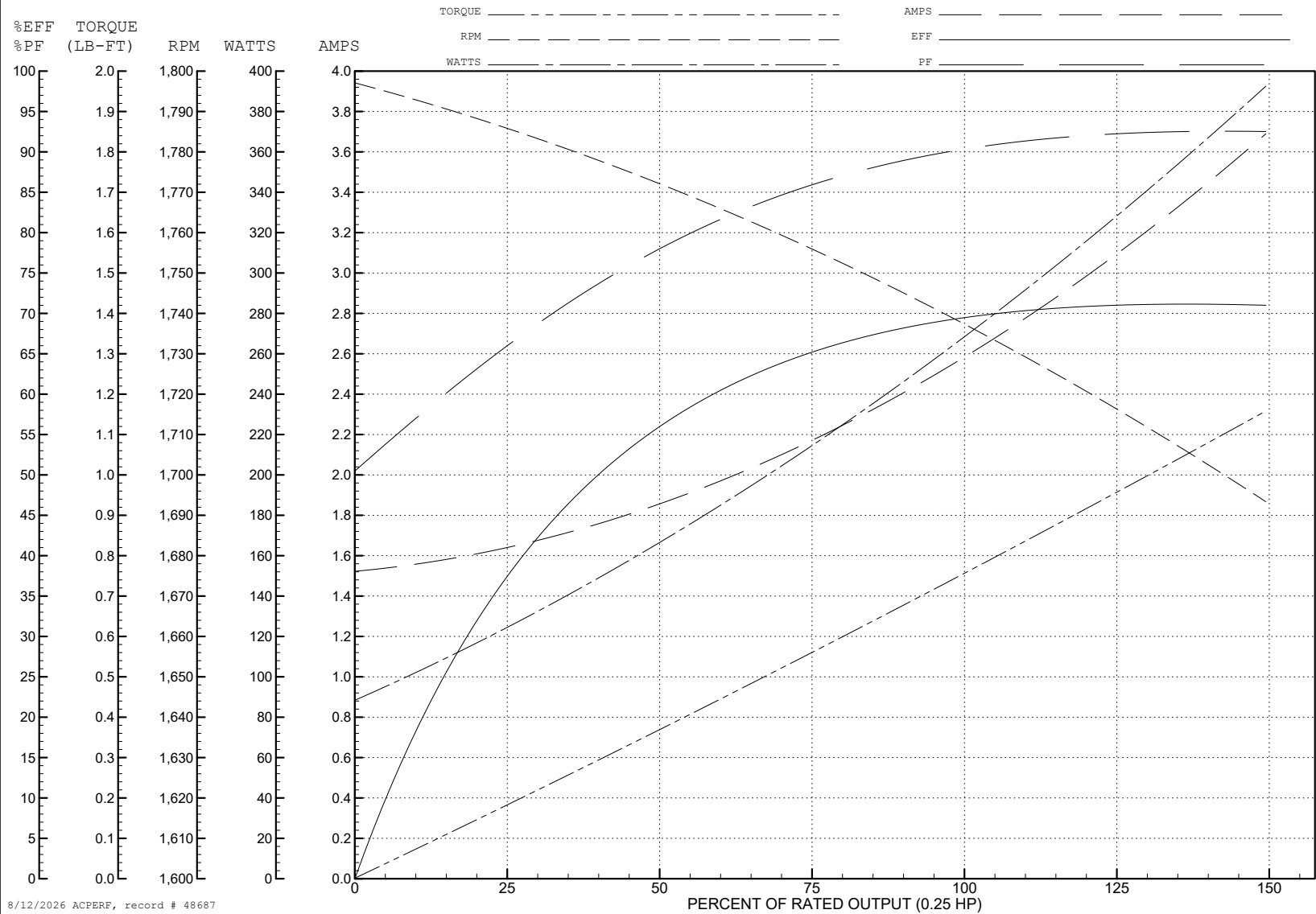
ABB Motors and Mechanical Inc.

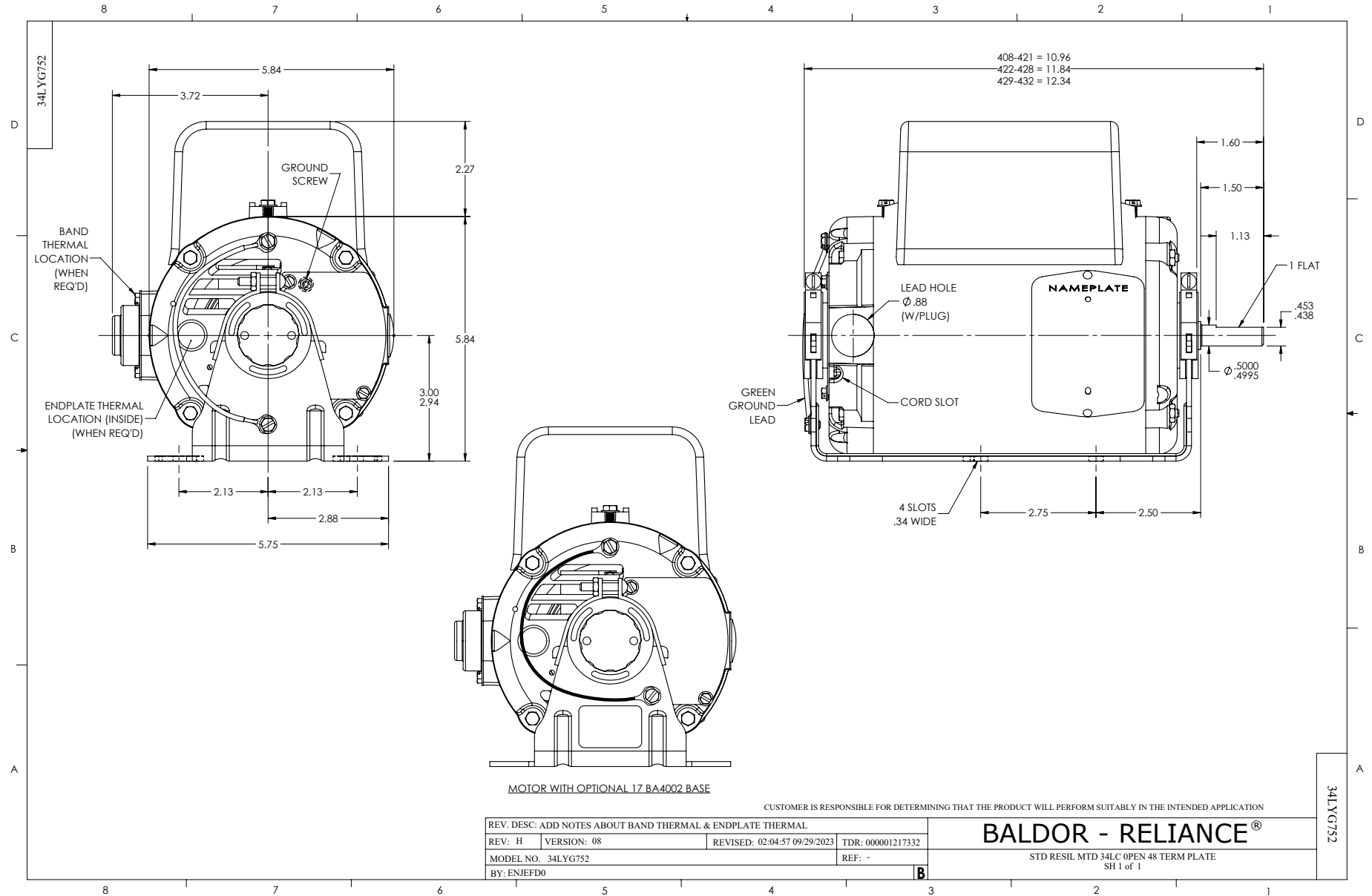
WINDING # 34WGR219

Typical performance - not guaranteed values.

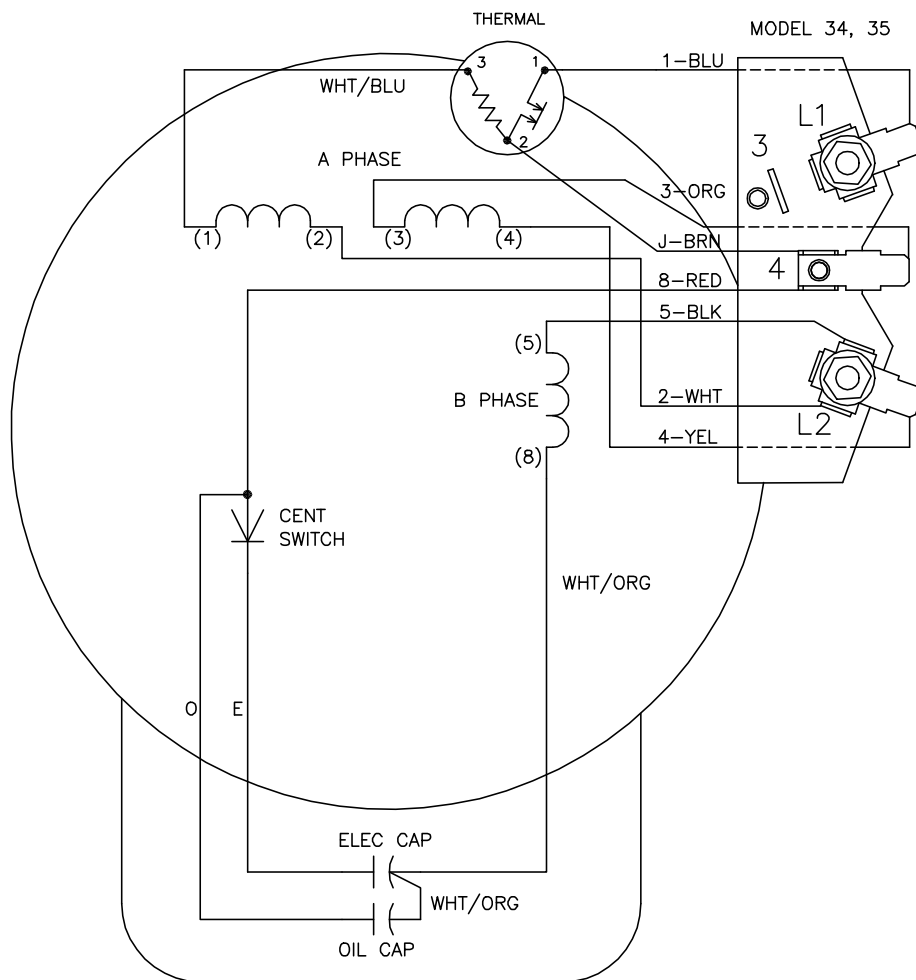
0.25 HP 1 PH 60 HZ 1725 RPM 115 V 3411LC

TORQUES (LB-FT): PO=1.86 PU=1.57 LR=2.48 LRA=20.3





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: ENBRIRO

MTL: -



BALDOR - RELIANCE®

TYPE LC, DV, REV, THERMAL, TERMINAL PLATE

SH 1 of 1

CD0703