ABB BALDOR RELIANCE

Customer information packet

1411W

40M 4P GRINDER

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Specifications

Enclosure	TENV
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
	50.00 Hz
	60.00 Hz
Motor Letter Type	Three Phase
Nameplate Output	7.5
Number of Poles	4
	4
Output @ Frequency	7.500 HP @ 60 HZ
	7.500 HP @ 50 HZ
Phase	3
	3
Product Style	GRINDER
Speed	1500 rpm
	1800 rpm
	1500 rpm
	1800 rpm
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage	208 V
	230 V
	460 V
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 50 HZ
	460.0 V @ 60 HZ
	208.0 V @ 60 HZ
	208.0 V @ 50 HZ
	230.0 V @ 50 HZ
Agency Approvals	UR
	CSA
Ambient Temperature	40 °C
Base Indicator	Rigid

Part Detail

Revision	R
Type	AC
Mech. spec.	G14-116
Base	
Status	PRD/A
Elec. spec.	G4WG0040
Layout	G4LY0116
Eff. date	06-05-2026
CD Diagram	CD0258
Poles	04
Leads	9#14
Proprietary	False
Created date	07-12-2007

Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	9.400 A @ 230.0 V
	18.800 A @ 208.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Insulation Class	B
KVA Code	G
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Standards	Other
Motor Type	3740M
Mounting Arrangement	F1
Overall Length	37.39 IN
Product Family	Grinder
Service Factor	1.00
Shaft Extension Location	Double Shaft
Shaft Rotation	Phase Seq-Opp Std Rot (CWODE)
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3361L			
CAT.NO.	1411W		
HP	7.5	**VOLTS**	208-230/460
PHASE	3	**AMPS**	18.8/9.4
HZ	50//60	**RPM**	1500//1800
SER.NO			
SPEC.	G14-116C-0040		
BLANK			

Accessories

Part number	Description	Multiplier
GA20	PEDESTAL INDUSTRIAL, CAST IRON 8"-14"	A8
GA9	PAIR LIGHTED EYESHIELDS	A8
GA9-1	SINGLE LIGHTED EYESHIELD	A8
GA9S	PAIR EYESHIELDS W/ ON-OFF SWITCH	A8
GA11	PAIR EYESHIELDS	A8
B147	14" 30 GRIT GRINDING WHEEL	A8
B148	14" 46 GRIT GRINDING WHEEL	A8
DC14-3	DUST CONTROL FOR 14 IN GRINDER	A8

AC Induction Motor Performance Data
Record # 94757
Typical performance - not guaranteed values

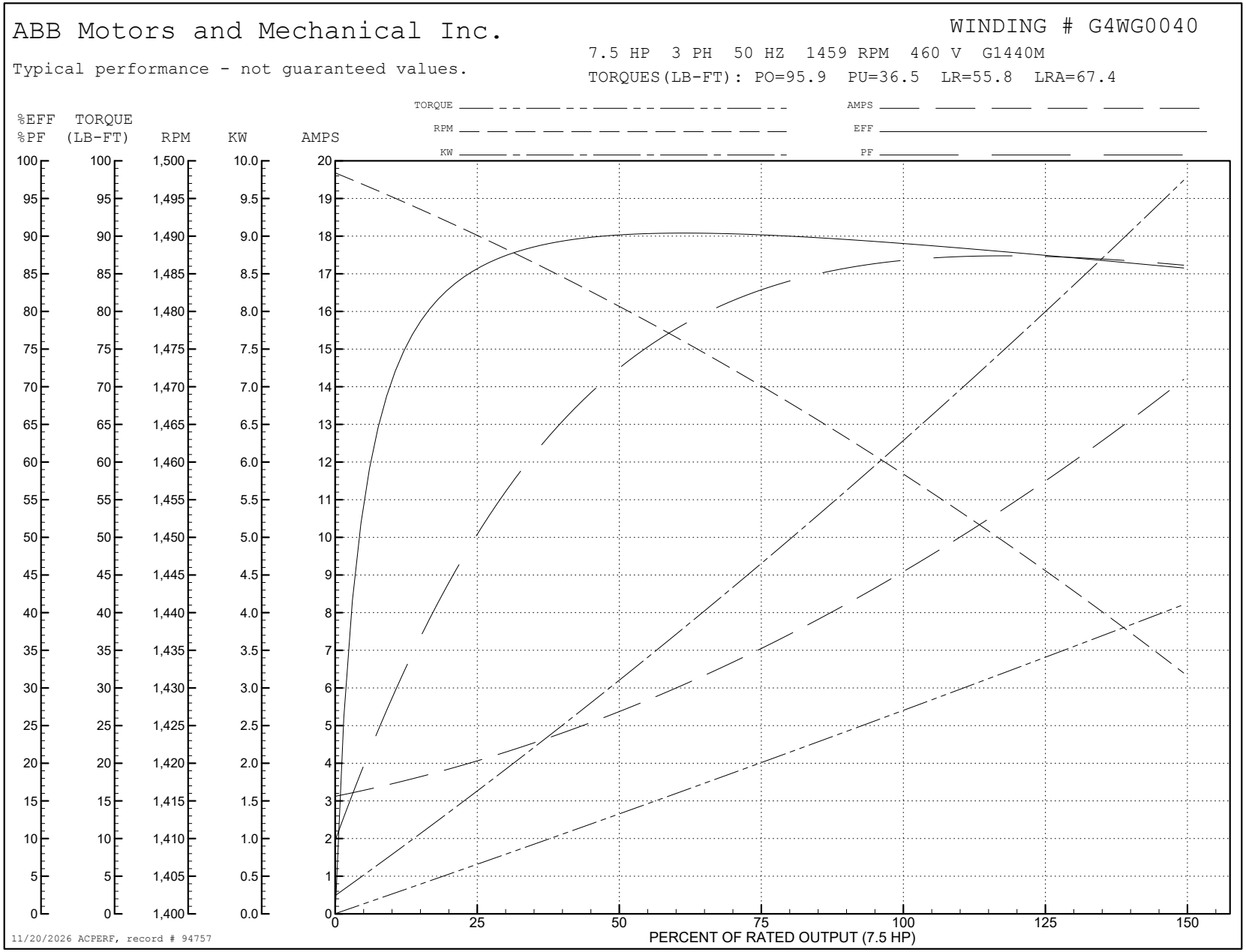
Winding: G4WG0040-R001	**Type:** G1440M	**Enclosure:** TENV

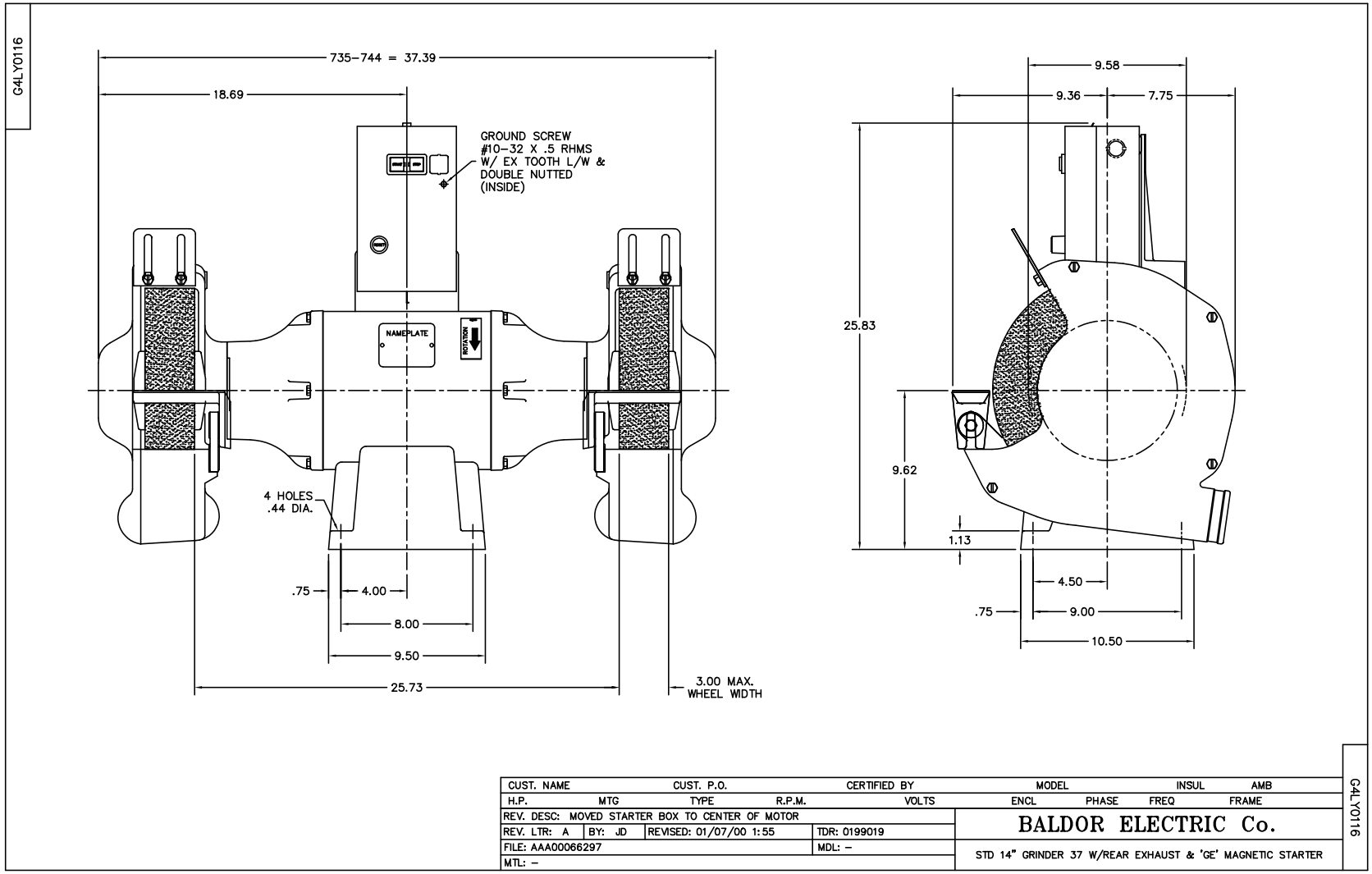
Nameplate Data			
Rated Output (HP)			7.5
Volts			208-230/460
Full Load Amps			18.8/9.4
R.P.M.			1500//1800
Hz	50//60	**Phase**	3
NEMA Design Code	-	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT

460 V, 50 Hz: High Voltage Connection	
Full Load Torque	27.03 LB-FT
Start Configuration	direct on line
Breakdown Torque	95.9 LB-FT
Pull-up Torque	36.5 LB-FT
Locked-rotor Torque	55.8 LB-FT
Starting Current	67.4 A
No-load Current	3.26 A
Line-line Res. @ 25ºC	1.94 Ω
Temp. Rise @ Rated Load	36°C
Locked-rotor Power Factor	36.9
Rotor inertia	0.984 lb-ft²

Load Characteristics 460 V, 50 Hz, 7.5 HP

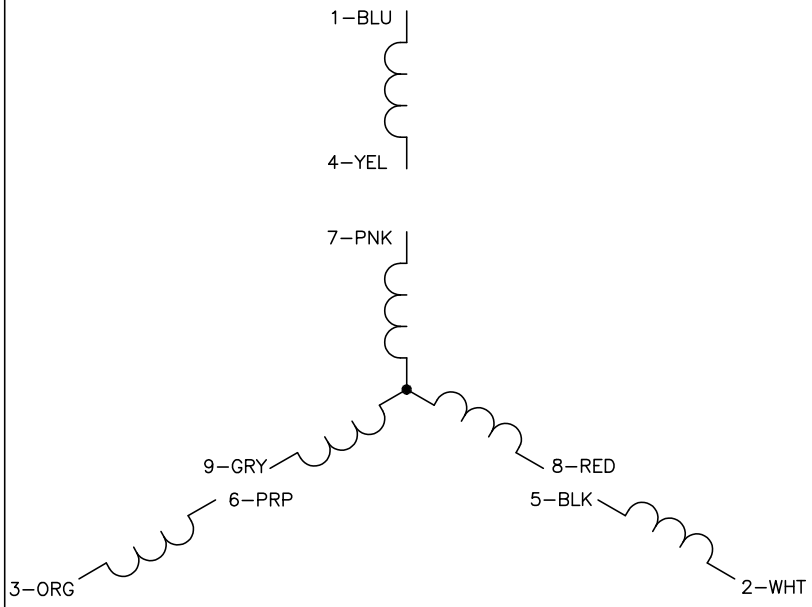
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	53	74	82	85	87	87
Efficiency	83.8	89.2	89.9	89.5	87.9	85.4
Speed	1490	1480	1470	1459	1447	1431
Line amperes	3.86	5.23	7.1	9.2	11.5	14.12


ABB Motors and Mechanical Inc.
WINDING # G4WG0040
7.5 HP 3 PH 50 HZ 1459 RPM 460 V G1440M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=95.9 PU=36.5 LR=55.8 LRA=67.4
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/20/2026 ACPERF, record # 94757


G4LY0116
735–744 = 37.39
18.69
GROUND SCREW
#10–32 X .5 RHMS
W/ EX TOOTH L/W &
DOUBLE NUTTED
(INSIDE)
NAMEPLATE
ROTATION
4 HOLES
.44 DIA.
.75
4.00
8.00
9.50
25.73
3.00 MAX.
WHEEL WIDTH
9.58
9.36
7.75
25.83
9.62
1.13
4.50
.75
9.00
10.50
CUST. NAME
CUST. P.O.
CERTIFIED BY
MODEL
INSUL
AMB
H.P.
MTG
TYPE
R.P.M.
VOLTS
ENCL
PHASE
FREQ
FRAME
REV. DESC: MOVED STARTER BOX TO CENTER OF MOTOR
REV. LTR: A
BY: JD
REVISED: 01/07/00 1:55
TDR: 0199019
FILE: AAA00066297
MDL: –
MTL: –
BALDOR ELECTRIC Co.
STD 14" GRINDER 37 W/REAR EXHAUST & 'GE' MAGNETIC STARTER
G4LY0116

CD0258

MOTOR

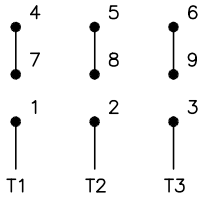


NOTES:

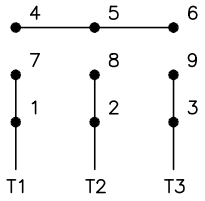
1. GROUND BASE TO BAND.
2. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

STARTER BRACKET CONDUIT BOX

HIGH VOLTAGE



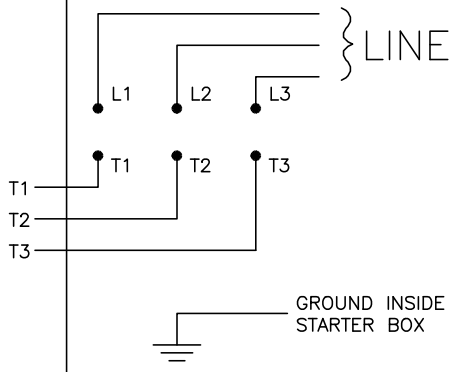
LOW VOLTAGE



NOTE:

THE MOTOR IS FACTORY CONNECTED FOR THE SAME VOLTAGE AS THE MAGNETIC STARTER. A MAGNETIC STARTER FOR THE PROPER VOLTAGE EQUIPPED WITH THE CORRECT HEATER ELEMENTS WILL BE NEEDED FOR A VOLTAGE CONNECTION CHANGE.

STARTER

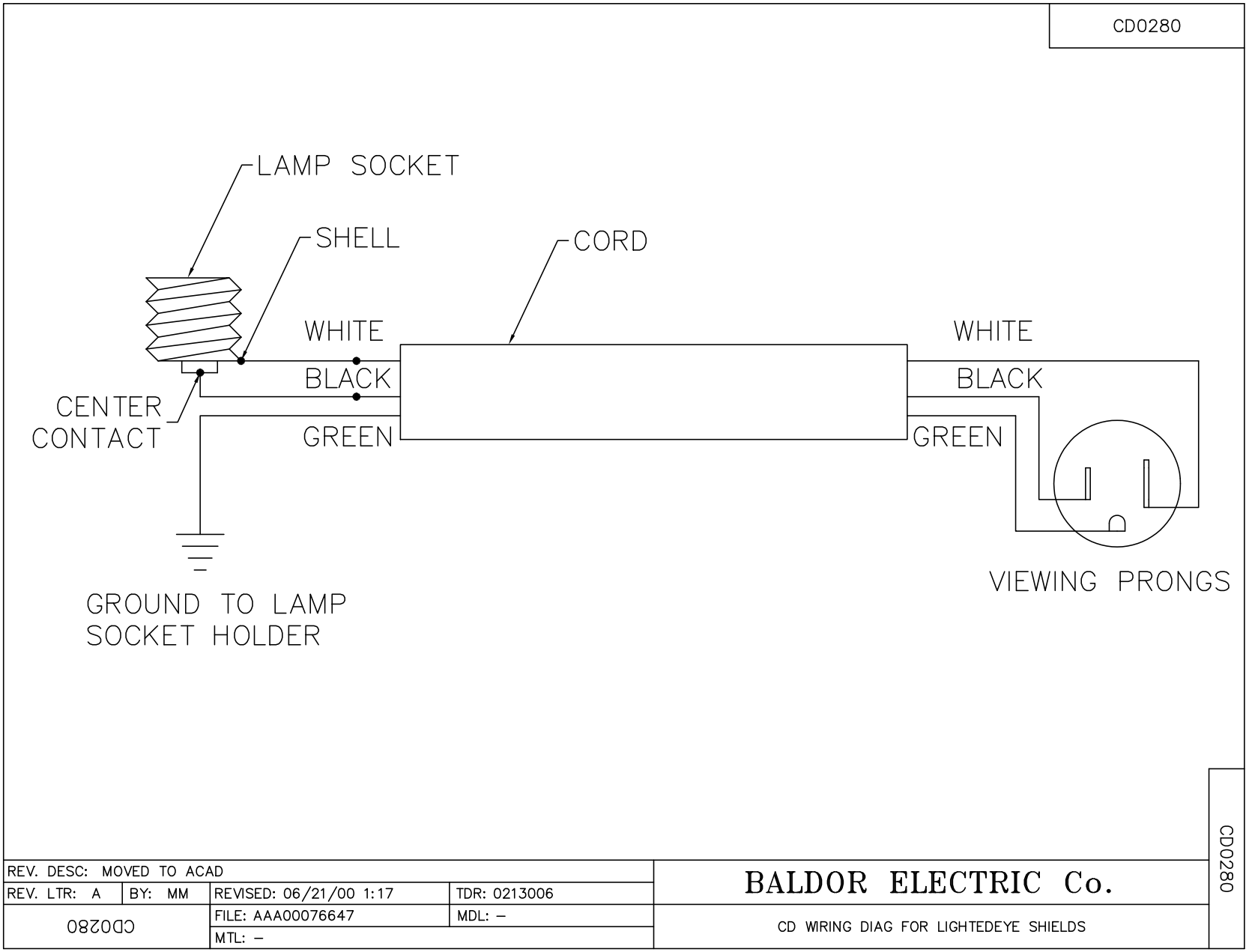


NOTE:

INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.

CD0258

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: C	BY: EAH	REVISED: 05/05/99 11:35	TDR: 0179909
CD0258		FILE: AAA00051260	MDL: –
		MTL: –	3PH, DV, 9 LEAD, GRINDER OR BUFFER W/MAGNETIC STARTER


CD0280
LAMP SOCKET
SHELL
CORD
WHITE
BLACK
GREEN
CENTER CONTACT
WHITE
BLACK
GREEN
GROUND TO LAMP SOCKET HOLDER
VIEWING PRONGS
CD0280
REV. DESC: MOVED TO ACAD
REV. LTR: A
BY: MM
REVISED: 06/21/00 1:17
TDR: 0213006
FILE: AAA00076647
MDL: –
MTL: –
CD0280
BALDOR ELECTRIC Co.
CD WIRING DIAG FOR LIGHTEDEYE SHIELDS