ABB BALDOR RELIANCE

Customer information packet

248-151TD

28L 2P GRNDR PIVOTAL

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Specifications

Enclosure	TEFC
Frame Material	Steel
Frequency	60.00 Hz
	60.00 Hz
Motor Letter Type	Cap Start, Induction Run
Number of Poles	2
	2
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
	1
Product Style	PIVOT BELT SANDER
Speed	3450 rpm
	3450 rpm
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage	115 V
	230 V
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
Ambient Temperature	40 °C
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	15.000 A @ 115.0 V
	7.500 A @ 230.0 V
Design Code	L
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Feedback Device	NO FEEDBACK
Insulation Class	B
KVA Code	H
Motor Lead Quantity/Wire Size	4 @ 16 AWG
Motor Standards	Other
Motor Type	3528L

Part Detail

Revision	AR
Type	AC
Mech. spec.	B2-5
Base	
Status	PRD/A
Elec. spec.	35WGW811
Layout	B2LY0005
Eff. date	12-15-2021
CD Diagram	CD0093
Poles	02
Leads	4#16
Proprietary	False
Created date	01-01-0001

Mounting Arrangement	F1
Overall Length	16.62 IN
Power Factor	82
Product Family	Pivot Belt Sander
Service Factor	1.00
Shaft Extension Location	Pulley End
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None

Nameplate

NP3118			
CAT.NO.	248-151TD		
HP	1.5	**VOLTS**	115/230
PHASE	1	**AMPS**	15/7.5
HZ	60	**RPM**	3450
SER.NO			
SPEC.	B2-5A		

Accessories

Part number	Description	Multiplier
GA16	PEDESTAL INDUSTRIAL, CAST IRON 6" - 10"	A8
GA14	PEDESTAL FABRICATED STEEL W/SHELVES	A8
GA20	PEDESTAL INDUSTRIAL, CAST IRON 8"-14"	A8
GA20E	PEDESTAL LIGHT INDUSTRIAL,STEEL	A8
AB248	2' X 48" 80 GRIT GRINDER BELT	A8
BQ1-015-CC	1PH Brake, NEMA 1,110-125 VAC, 50/60Hz	P1
BQ1-015-CP	1PH Brake, Panel 110-125 VAC, 50/60 Hz	
BQ2-015-CC	1PH Brake,NEMA 1 208-230 VAC,50/60Hz	
BQ2-015-CP	1PH Brake, Panel 208-230 VAC, 50/60 Hz	

AC Induction Motor Performance Data
Record # 9881
Typical performance - not guaranteed values

Winding: 35WGW811-R001	**Type:** 3528L	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	2.3 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			15/7.5	**Breakdown Torque**	5.6 LB-FT
R.P.M.			3450	**Pull-up Torque**	5.2 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	5.5 LB-FT
NEMA Design Code	L	**KVA Code**	H	**Starting Current**	42 A
Service Factor (S.F.)			1	**No-load Current**	4.5 A
NEMA Nom. Eff.	70	**Power Factor**	82	**Line-line Res. @ 25ºC**	1.26 Ω A Ph 1.23 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C
S.F. Amps				**Temp. Rise @ S.F. Load**	84°C

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	47	64	73	80	84	86	82
Efficiency	51.9	65.3	68.4	71.2	70.6	68.4	70.8
Speed	3567	3541	3514	3475	3439	3397	3453
Line amperes	5	5.8	6.9	8.6	10.2	12.1	9.6

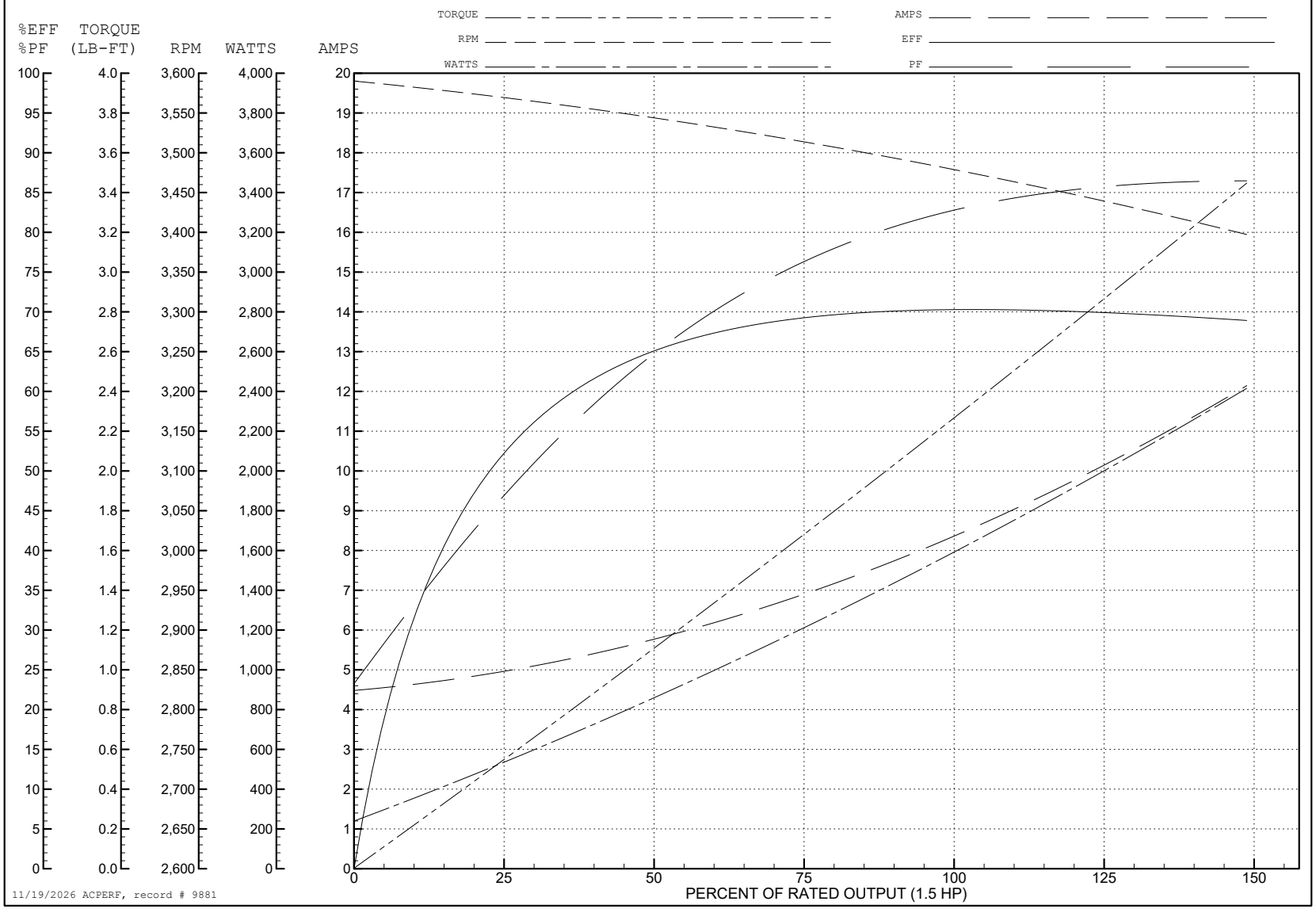
ABB Motors and Mechanical Inc.

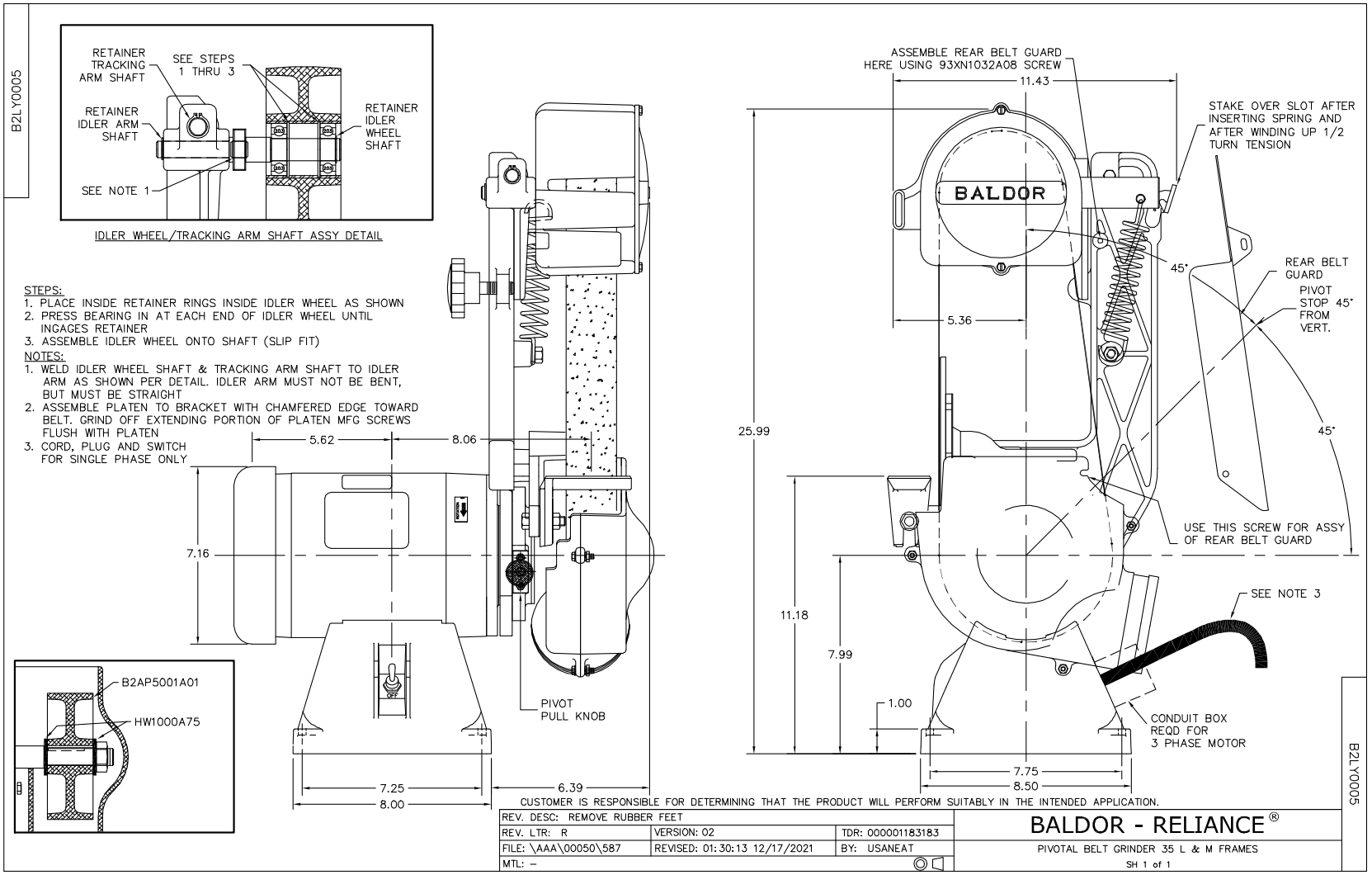
WINDING # 35WGW811

1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3528L

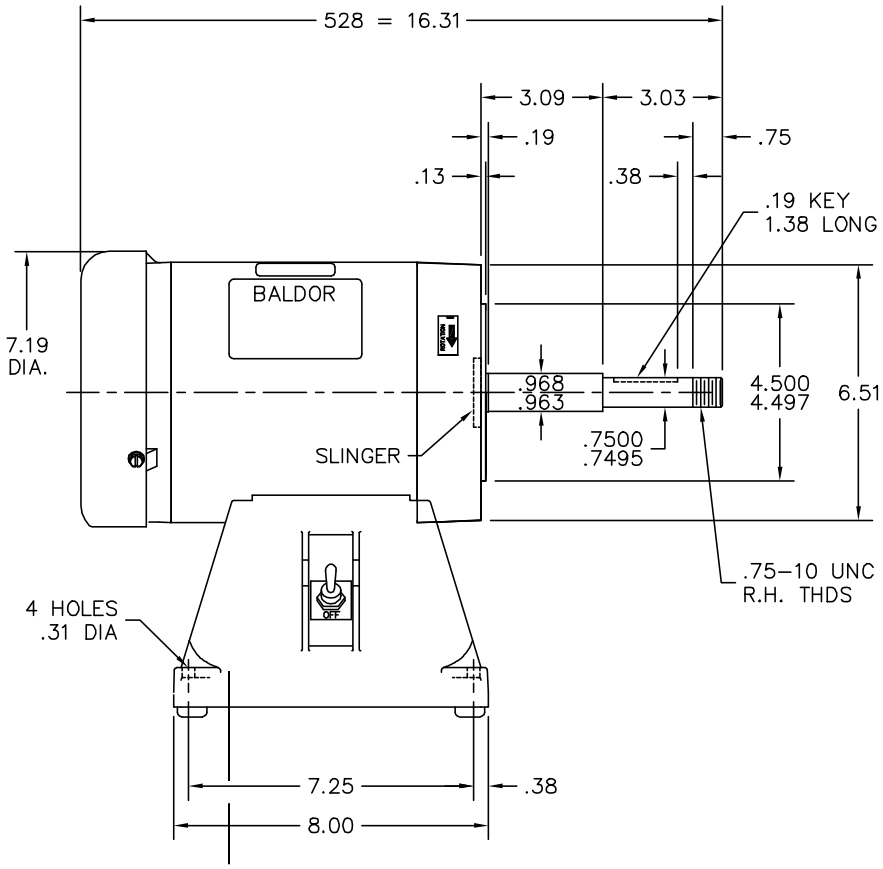
Typical performance - not guaranteed values.

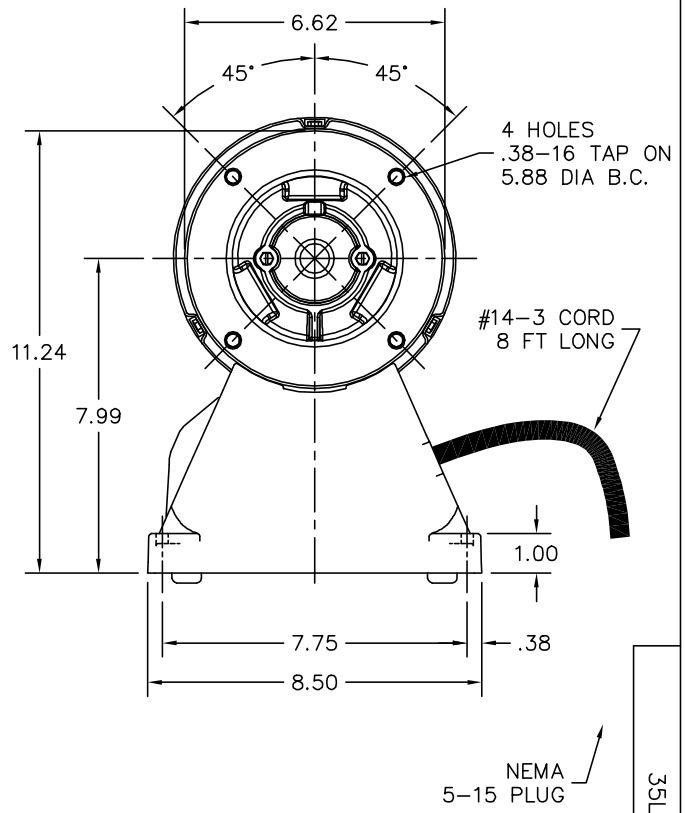
TORQUES(LB-FT): PO=5.6 PU=5.2 LR=5.5 LRA=42




B2LY0005
RETAINER TRACKING ARM SHAFT
SEE STEPS 1 THRU 3
RETAINER IDLER ARM SHAFT
RETAINER IDLER WHEEL SHAFT
SEE NOTE 1
IDLER WHEEL/TRACKING ARM SHAFT ASSY DETAIL
STEPS:
1. PLACE INSIDE RETAINER RINGS INSIDE IDLER WHEEL AS SHOWN
2. PRESS BEARING IN AT EACH END OF IDLER WHEEL UNTIL INGAGES RETAINER
3. ASSEMBLE IDLER WHEEL ONTO SHAFT (SLIP FIT)
NOTES:
1. WELD IDLER WHEEL SHAFT & TRACKING ARM SHAFT TO IDLER ARM AS SHOWN PER DETAIL. IDLER ARM MUST NOT BE BENT, BUT MUST BE STRAIGHT
2. ASSEMBLE PLATEN TO BRACKET WITH CHAMFERED EDGE TOWARD BELT. GRIND OFF EXTENDING PORTION OF PLATEN MFG SCREWS FLUSH WITH PLATEN
3. CORD, PLUG AND SWITCH FOR SINGLE PHASE ONLY
5.62
8.06
7.16
B2AP5001A01
HW1000A75
PIVOT PULL KNOB
7.25
8.00
6.39
ASSEMBLE REAR BELT GUARD HERE USING 93XN1032A08 SCREW
11.43
STAKE OVER SLOT AFTER INSERTING SPRING AND AFTER WINDING UP 1/2 TURN TENSION
BALDOR
45°
REAR BELT GUARD
PIVOT STOP 45° FROM VERT.
5.36
25.99
45°
USE THIS SCREW FOR ASSY OF REAR BELT GUARD
SEE NOTE 3
11.18
7.99
1.00
CONDUIT BOX REQD FOR 3 PHASE MOTOR
7.75
8.50
B2LY0005
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REMOVE RUBBER FEET
REV. LTR: R
VERSION: 02
TDR: 000001183183
FILE: \AAA\00050\587
REVISED: 01:30:13 12/17/2021
BY: USANEAT
MTL: –
BALDOR - RELIANCE®
PIVOTAL BELT GRINDER 35 L & M FRAMES
SH 1 of 1

35LYG400





35LYG400

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

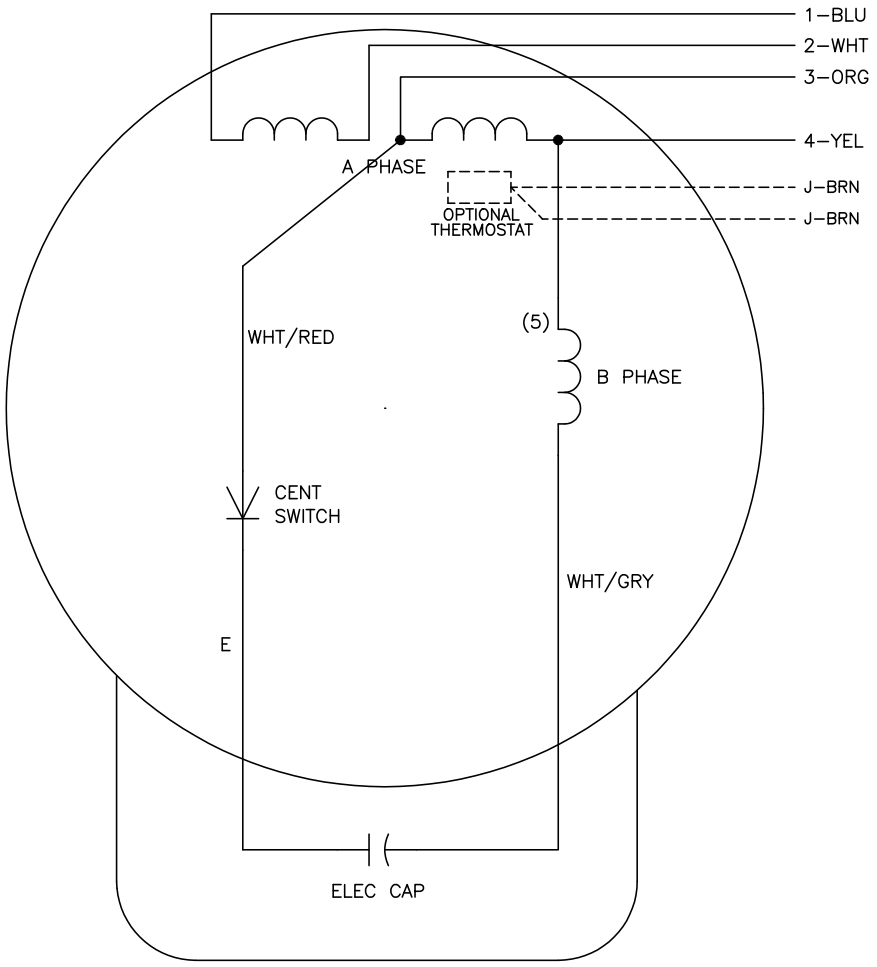
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MTL: –		

BALDOR

HORZ 56C TEFC 35L B2–5 PIVOTAL BELT GRINDER

SH 1 of 1

CD0093



	LINE A	LINE B	JOIN
HIGH	1	4	2,3
LOW	1,3	2,4	–

NOTES:

1. CONNECTIONS ARE SHOWN FOR CCW ROTATION FACING END OPPOSITE SHAFT EXTENSION (STD). FOR CW ROTATION, INTERCHANGE 5 AND 8 INTERNALLY.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0093

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 04/08/99 3:51	TDR: 0178636
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