

BALDOR® • RELIANCE 

Product Information Packet

2048-153D

1.5HP,3600RPM,3PH,60HZ,3516M,3516M,TEFC

Part Detail							
Revision:	AT	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WG0082	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	B2-3	Layout:	B2LY0003	Poles:	02	Created Date:	
Base:	RG	Eff. Date:	04-10-2017	Leads:	9#18		

Specs			
Nameplate Output:	1 1/2		
Product Style:	BELT SANDER		

Nameplate NP3118	
CAT.NO.	2048-153D
HP	1 1/2
PHASE	3
HZ	50//60
SER.NO.	
SPEC.	B2-3C
	VOLTS 208-230/460
	AMPS 5-4.6/2.3
	RPM 3000//3600

Parts List		
Part Number	Description	Quantity
HA6218A02	MOUNTING BRACKET	1.000 EA
91XN3816A16	3/8-16X1 HEX SOC CNTRSK	4.000 EA
HA6068A02	BRACKET, TOOL REST MACH	1.000 EA
MG1000G01	MUNSELL 5.93PB 3.81/ 2.71	0.017 GA
35H714-82	1 1/2HP,3600RPM,3PH,60HZ,56CYZ,3516M,TEF	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
10XN3118A14	5/16-18 X 7/8 HEX HEAD CAP	1.000 EA
HW1000A31	5/16 SAE FL WSHR NARROW, ID=.344, OD=.62	1.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	1.000 EA
G8AP1003A01SP	TOOL REST	1.000 EA
10XN3816A24	3/8-16 X 1 1/2 HEX HD CAP SCREW	1.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 EA
XY3816A12	3/8-16 FINISHED NUT	1.000 EA
HW1000A38	WASHER, 3/8" FLAT, SAE Z/P	2.000 EA
B2AP1005A02	PLATEN FOR BELT GRINDER WELKER	1.000 EA
12XN0832A08	15194-125	2.000 EA
HW1001A08	WASHER, #8 SPLT LK, ZN	2.000 EA
B2FH2806A01SP	CONTACT WHEEL GUARD	1.000 EA
HA6225	SPACER (WELKER)	2.000 EA
10XN2520A26	1/4-20X 1 5/8 HEX HD	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
B2AP5002A01	TRACK ARM & SHAFT ASSY	1.000 EA
B2FH2801A01SP	GRINDER GUARD, MACH	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	2.000 EA
B2AP3003A01SP	IDLER WHEEL -- BELT GRINDER	1.000 EA
HW5000A51	N5000-156 RETAINER RING (F/S)	2.000 EA
BG6203E03	6203 D.SL,C3,POLYREX EM	2.000 EA
HW5010A32	RET RING 5100-66 (WALDES)	1.000 EA
B2AP1000A01	LATCH, IDLER ARM -- MACH	1.000 EA
HA7001A01	TORSION SPRING,4.5" FREE-LENGTH, .855 I.	1.000 EA
HA7002A01	TORSION SPRING, .843 FREELNGTH, .437 I.	1.000 EA
MN902	MANUAL FOR BELT GRINDERS	1.000 EA
10XN3816A20	3/8-16X1 1/4 HEX HD CAP	1.000 EA
80XN2520A06	1/4-20 X 3/8 SET SCREW	1.000 EA
HA5000A01	KNOB AND STUD ASSY	1.000 EA
B2AP5001A01SP	CONTACT WHEEL ASSY WITH RUBBER THREAD	1.000 EA
HW1000A75	WASHER, 3/4 FLAT, ZN	2.000 EA
XY7510A12SP	3/4-10 NUT R.H. HEX (NC) ZINC PLATED	1.000 EA
AB248	ABRASIVE BELT, 2" X 48" ZGR300501	1.000 EA
B2FH2810A01SP	GUARD (HALF) MACHINED, USE W/B2FH2811A01	1.000 EA
B2FH2810A01SP	GUARD (HALF) MACHINED, USE W/B2FH2810A01	1.000 EA
51XN1032A12	10-32 X 0.750 HX WS SL SR	3.000 EA
HW1023A10	WASHER,#10 INT/EX TH LK, ZN X TDR#2	3.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	3.000 EA
93XN1032A12	10-32X3/4 SHOULDER/TYPE T TDR 1	2.000 EA

Product Information Packet: 2048-153D - 1.5HP,3600RPM,3PH,60HZ,3516M,3516M,TEFC

HW1003A10	WASHER, #10 EX TH LK, ZN X	2.000 EA
B2FH2808A01SP	GUARD COVER, MACH	1.000 EA
93XN1032A12	10-32X3/4 SHOULDER/TYP T TDR 1	2.000 EA
HW1003A10	WASHER, #10 EX TH LK, ZN X	2.000 EA
B2FH2809A01SP	GUARD COVER, MACH	1.000 EA
93XN1032A08	10-32X1/2 SHOULDER/TYP T	1.000 EA
HW1003A10	WASHER, #10 EX TH LK, ZN X	1.000 EA
B2PA1001	PACKAGING GROUP	1.000 EA
LB1008	LABEL, UL	1.000 EA

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

AC Induction Motor Performance Data

Record # 8025 - Typical performance - not guaranteed values

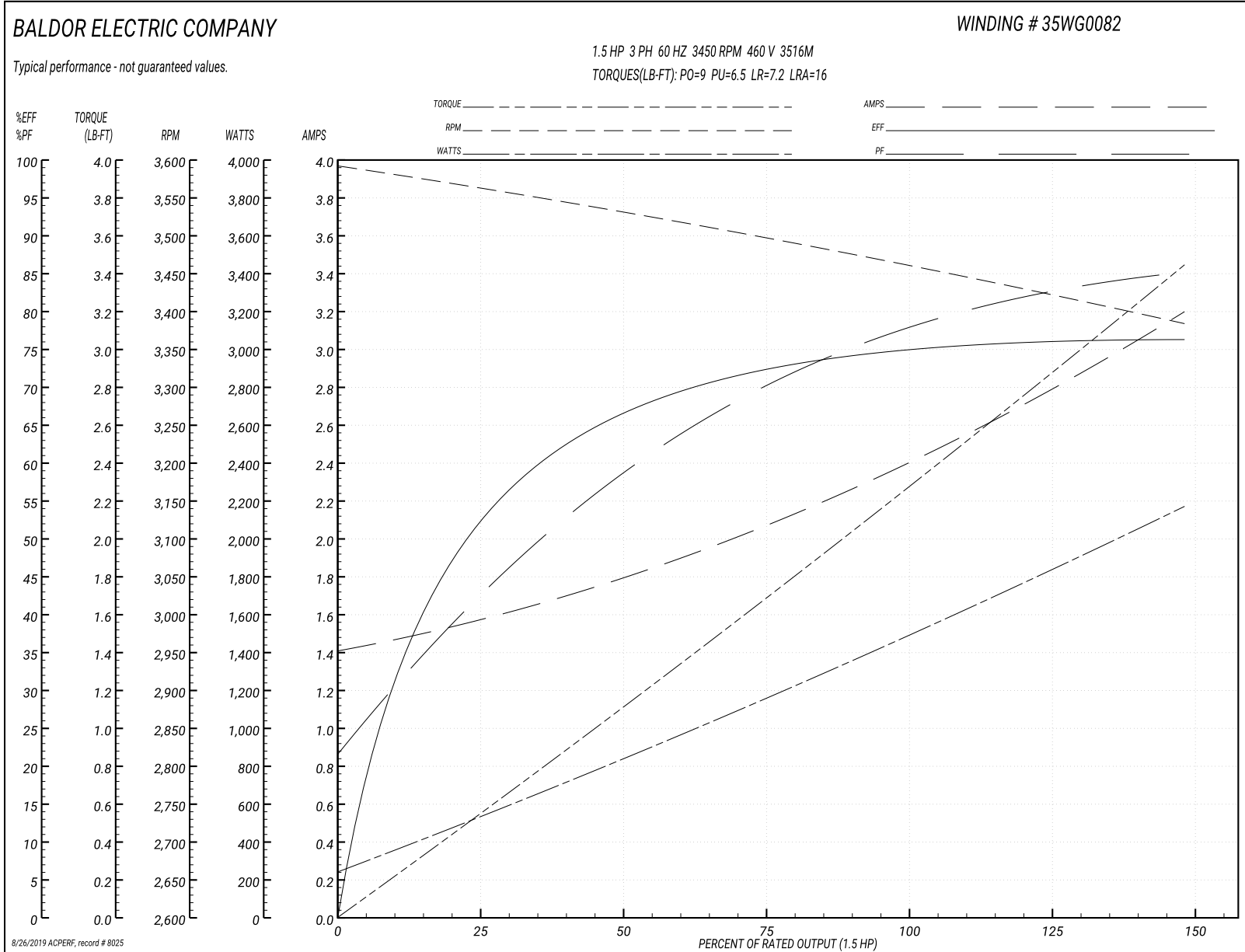
Winding: 35WG0082-R001	Type: 3516M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.3 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	5-4.6/2.3			Breakdown Torque	9 LB-FT
R.P.M.	3450			Pull-up Torque	6.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	7.2 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	16 A
Service Factor (S.F.)	1.15			No-load Current	1.4 A
NEMA Nom. Eff.	75.5	Power Factor	76	Line-line Res. @ 25°C	11.8 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
S.F. Amps				Temp. Rise @ S.F. Load	70°C
				Locked-rotor Power Factor	67
				Rotor inertia	0.0443 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	59	71	79	83	86	81
Efficiency	52.2	66.7	72.7	75.5	76.2	76.1	75.9
Speed	3558	3528	3496	3461	3424	3382	3439
Line amperes	1.6	1.8	2.1	2.4	2.8	3.2	2.64

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 20302 - Typical performance - not guaranteed values

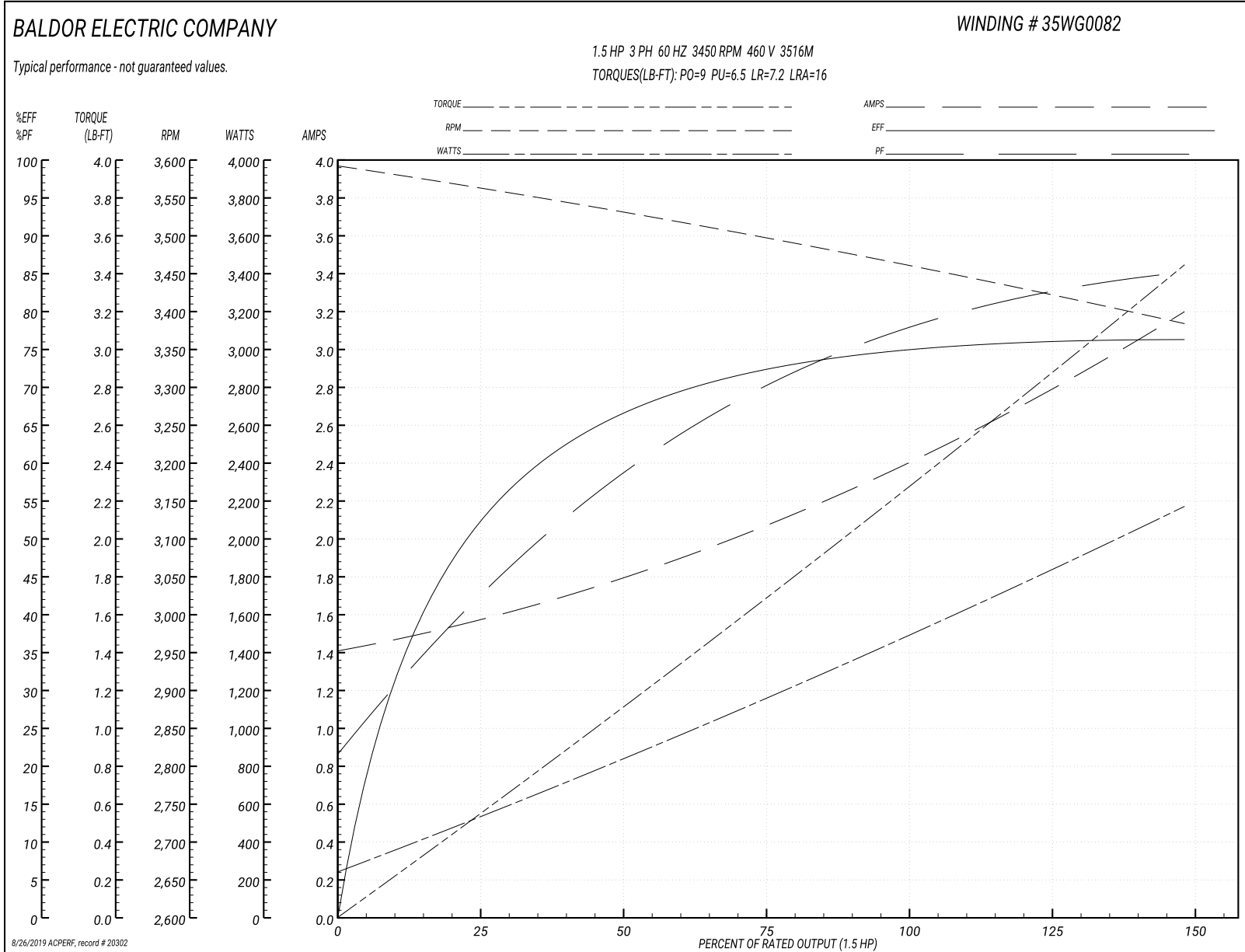
Winding: 35WG0082-R008	Type: 3516M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.3 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	5-4.6/2.3			Breakdown Torque	9 LB-FT
R.P.M.	3450			Pull-up Torque	6.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	7.2 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	16 A
Service Factor (S.F.)	1.15			No-load Current	1.4 A
NEMA Nom. Eff.	75.5	Power Factor	76	Line-line Res. @ 25°C	11.8 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
S.F. Amps				Temp. Rise @ S.F. Load	70°C
				Locked-rotor Power Factor	67
				Rotor inertia	0.0443 LB-FT ²

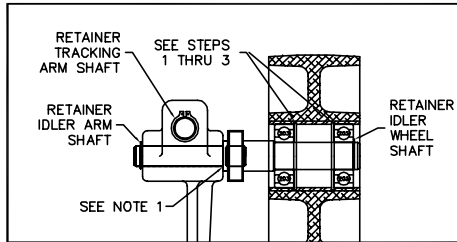
Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	59	71	79	83	86	81
Efficiency	52.2	66.7	72.7	75.5	76.2	76.1	75.9
Speed	3558	3528	3496	3461	3424	3382	3439
Line amperes	1.6	1.8	2.1	2.4	2.8	3.2	2.64

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values



B2LY0003



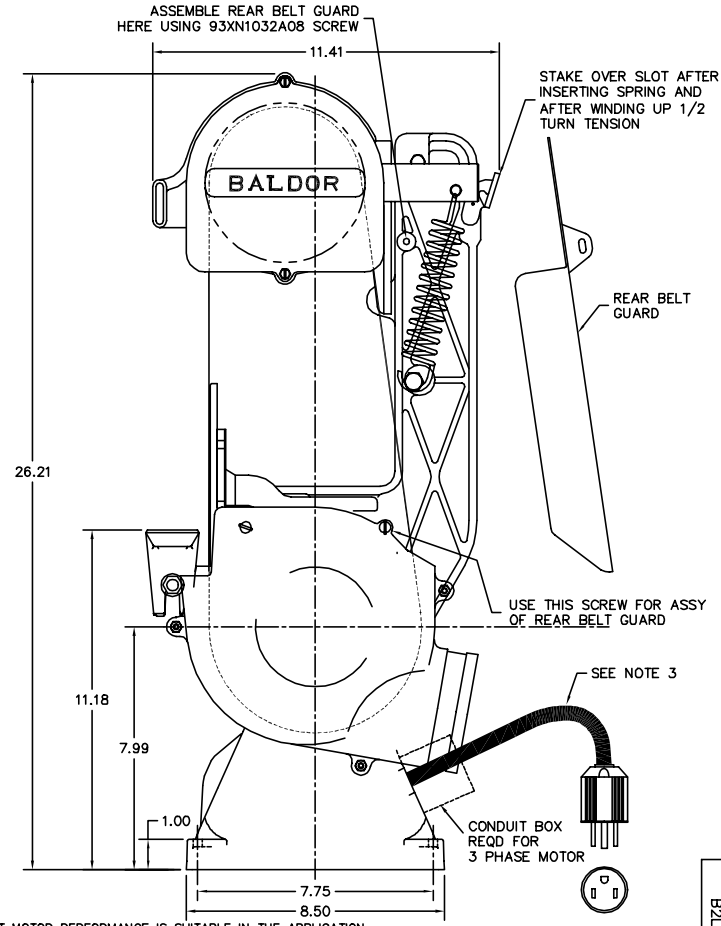
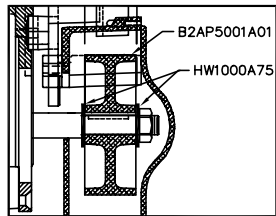
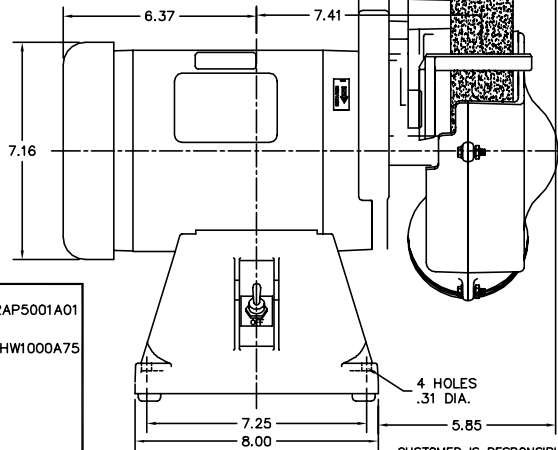
IDLER WHEEL/TRACKING ARM SHAFT ASSY DETAIL

STEPS:

1. PLACE INSIDE RETAINER RINGS INSIDE IDLER WHEEL AS SHOWN
2. PRESS BEARING IN AT EACH END OF IDLER WHEEL UNTIL ENGAGES 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 AND PLUG FOR SINGLE PHASE ONLY



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

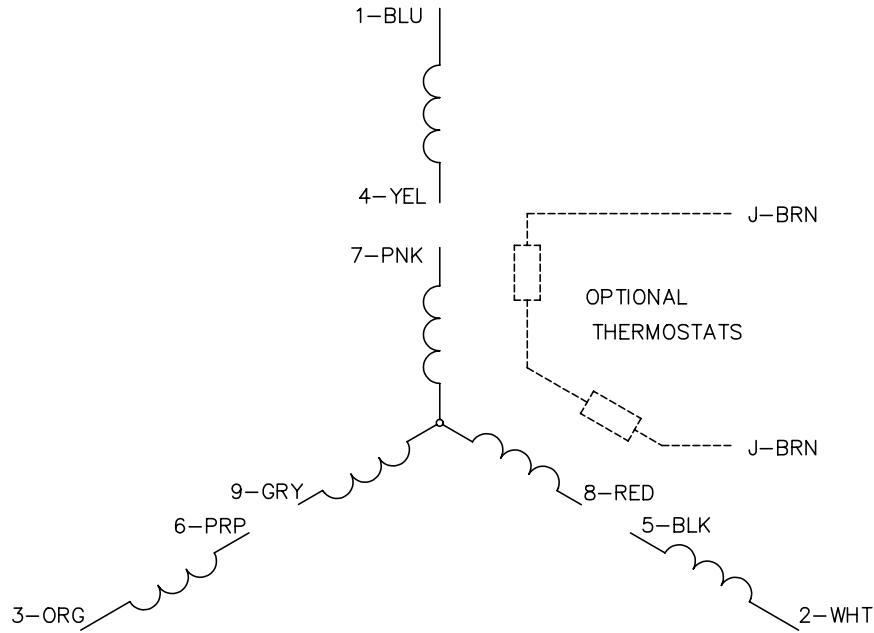
REV. DESC: CORRECTED NOTE #3 (EC09)			
REV. LTR: Q	BY: SSS	REVISED: 14:11:41 03/16/2004	TDR: 327576
FILE: AAA00035405		REF: B2LY0003	
MTL: -			

BALDOR ELECTRIC Co.

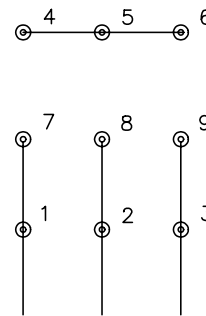
NON PIVOTAL BELT GRINDER 35 L & M FRAMES

B2LY0003

CD0005

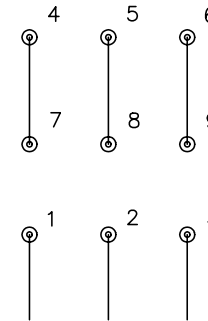


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

9000D

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005