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BALDOR • RELIANCE

Product Information Packet

AP7402

.25HP,3450RPM,DC,2424P,TENV

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Part Detail

Revision:	S	**Status:**	INA/A	**Change #:**		**Proprietary:**	No
Type:	DC	**Prod. Type:**	2424P	**Elec. Spec:**	24WGZ107	**CD Diagram:**	CD1899
Enclosure:	TENV	**Mfg Plant:**		**Mech. Spec:**		**Layout:**	24A174Z107
Frame:		**Mounting:**		**Poles:**	00	**Created Date:**	
Base:		**Rotation:**	R	**Insulation:**	F	**Eff. Date:**	12-13-2018
Field Type:		**Literature:**		**Elec. Diagram:**		**Replaced By:**	

Specs

Enclosure:	TENV		
Frame Material:	Steel		
Agency Approvals:	CE		
	UR		
	WEEE		
Base Indicator:	Rigid		
Duty Rating:	CONT		
Field Winding Type:	PERMANENT MAGNET		
Insulation Class:	F		
Motor Lead Quantity/Wire Size:	2 @ 18 AWG		
Mounting Arrangement:	0.000		
Product Family:	General Purpose		
RoHS Status:	ROHS COMPLIANT		
Shaft Rotation:	Reversible		
Motor Standards:	Sub-Fractional		

Nameplate NP1220A24

CAT.NO.	AP7402				
SER.NO					
SPEC.	24A174Z107				
FRAME			**TYPE**	2424P	
HP	.25 TE				
VOLTS	90DC				
AMP	2.5				
F.F.	1.5		**CLASS**	F	
RPM	3450				
AMB.	40	**DUTY**	CONT		
BRUSHES	2/BP5052BP01				
APRV-CE		**APRV-CUL**			

Parts List

Part Number	Description	Quantity
SA092689	SA 24A174Z107	1.000 EA
AA008597	AA 24A174Z107	1.000 EA
LC0899A07	CONNECTION LABEL, DCPM CW ROTATION CE CO	1.000 EA
BP5052BP01SP	BRUSH, GRADE R884 NATIONAL CARBON (FOR 1	1.000 EA
24EP3107A02L	EP,24DC DE CL 6200 PARA	1.000 EA
HW5002A45	RETAINING RING,WALDES TRUARC N5002-118	1.000 EA
BA0166A00L	BASE,24 FRAME CLOW	1.000 EA
08XN2520A06	1/4-20 X 3/8 FLAT HD PHILLIPS	2.000 EA
MJ5019A01	ADHESIVE LOCTITE #680 WAS BAD4525	0.010 EA
24EP3102A01L	EP,24DC 0DE CL 0.63P4	1.000 EA
80XN1032A04	10-32 X 1/4 SET SCREW	2.000 EA
HW5109A13	WASHER, WAVE SPRING FOR 26MM BORE SMALLE	1.000 EA
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	1.000 EA
BP4529	BRUSH TUBE HOLDER **10 pc min buy**	2.000 EA
BP4530SP	BRUSH TUBE CAP:BBR1094	1.000 EA
HA3100A10	THRUBOLT 10-32 X 6.250	2.000 EA
BCB1111-115	CABLE ASS'Y, 18-3-SJTO 24F	1.000 EA
NP1220A24	NP,DC STD AD NONE V CE CUL MOTOR ONLY	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
LB1451	WARNING LABEL, CE WARNING SYMBOLS ONLY	1.000 EA
CPA1000	PACKING GROUP STD. SINGLE	1.000 EA
MG2000A14	RUST VETO 342 RUST INHIBITOR	0.001 GA
LB1594	MYLAR WEEE WHEELIE BIN SYMBOL FOR CE MOT	1.000 EA

Accessories

Part Number	Description	Multiplier
BC130	FRAC DC ANALOG,115AC,50/60HZ,3A,1	E9
BC138	3478# KBWM-120 CN3000A57	E9
BC140	CS2934A,120/240VAC .5/1-HP SCR CTL,NEMA	E9
BC140-FBR	3479G KBMD-240D w/FBR CN3000A54	E9
BC141	Chassis SCR Control	E9
BR0050	PLUG IN RESISTOR	P1

DC Motor Performance Data

Record # 896 - Typical performance - not guaranteed values

Winding: 24WGZ107-R001	**Type:** 2424P	**Enclosure:** TENV

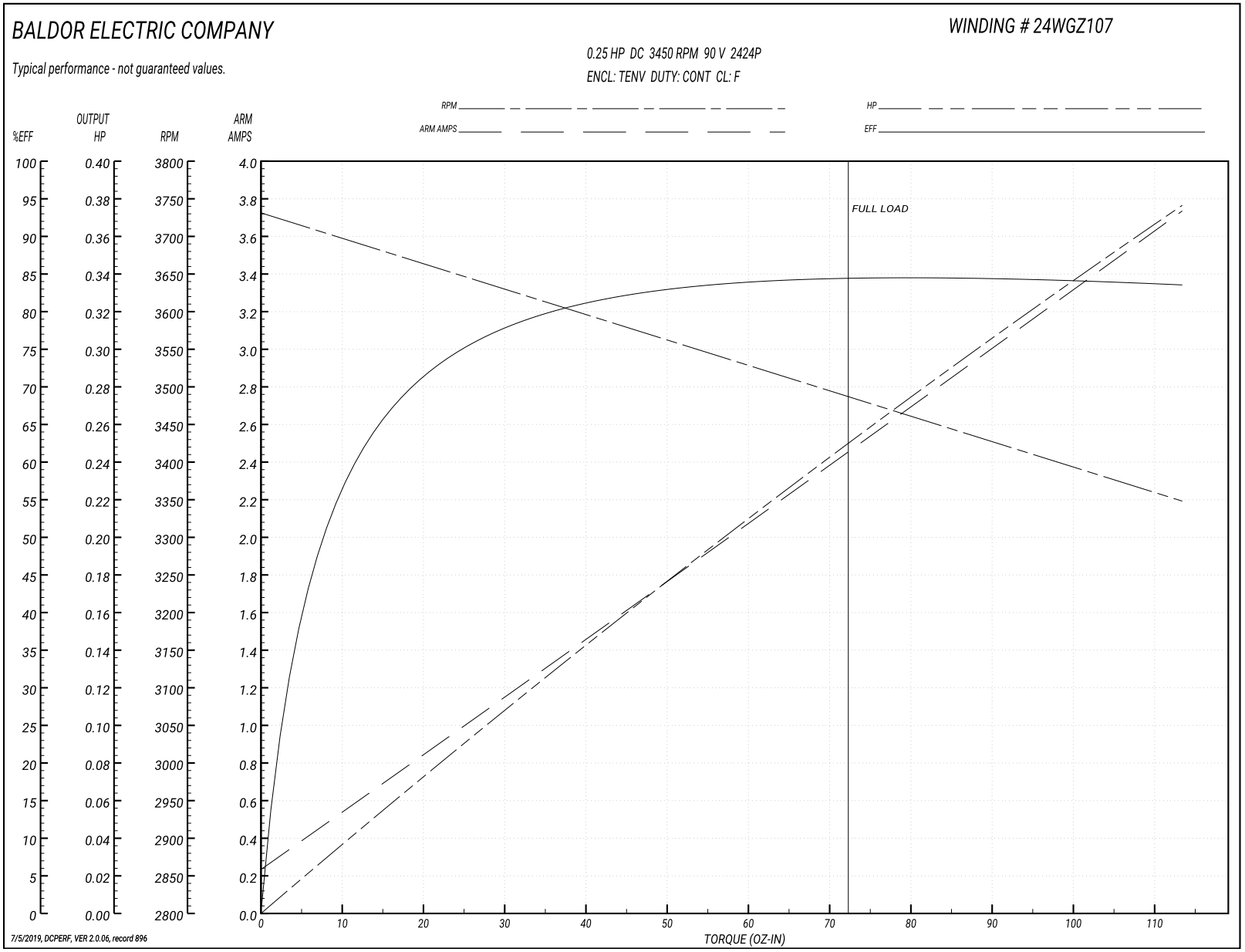
Nameplate Data	
Rated Output (HP)	0.25
R.P.M.	3450
Armature Volts	90
Armature Amps	2.5
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Form Factor	1.5

General Characteristics	
Armature Resistance @ 25ºC	2.065 Ω
Armature Inductance	5.84 mH

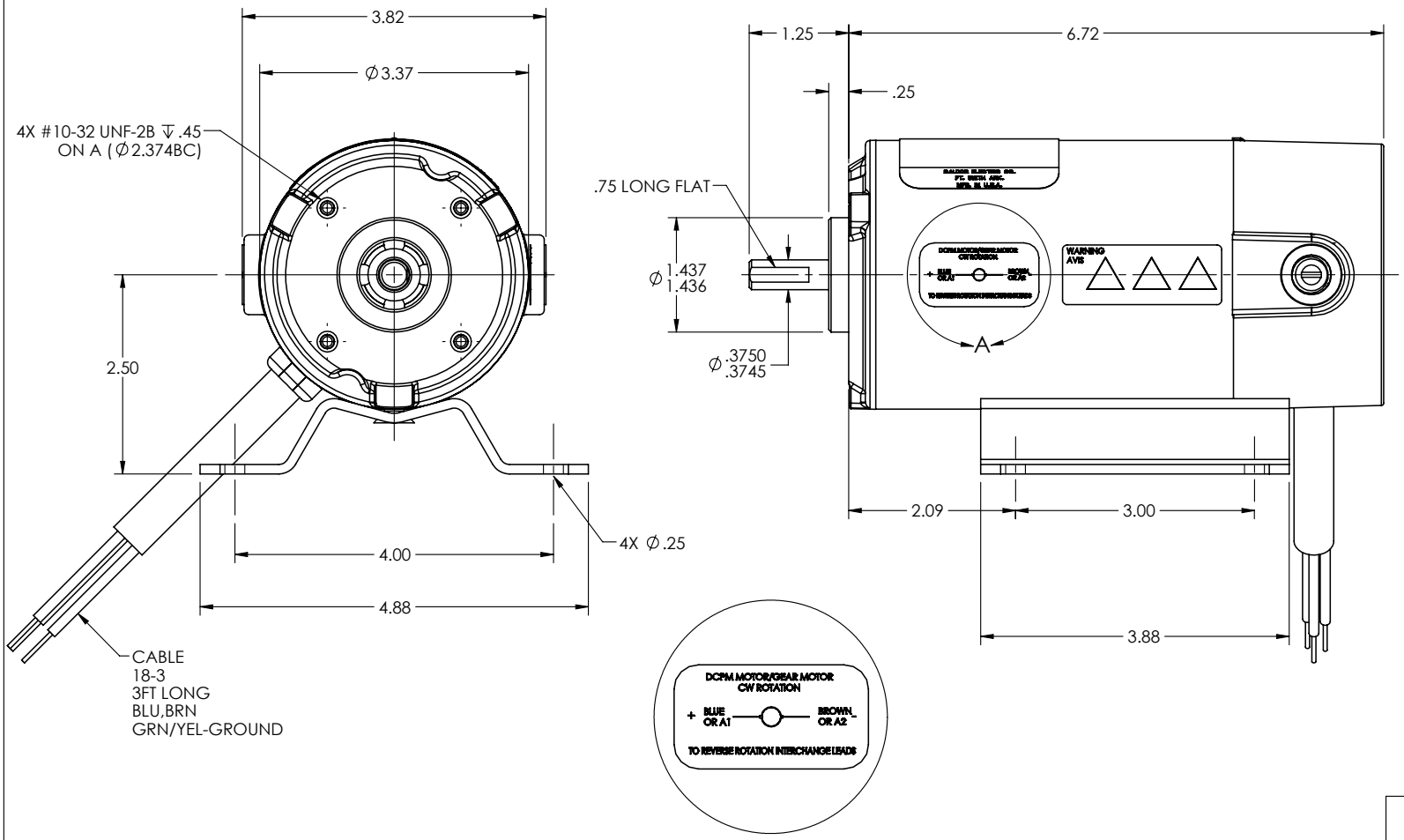
Load Characteristics at 90 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.23	0.78	1.3	1.86	2.45	3.09	3.73
R.P.M.	3730	3673	3608	3549	3500	3421	3341
Torque (OZ-IN)	0	17.4	35	53.6	72	92.4	113.4

Performance Graph at 90.0 Arm V, 0.25HP Typical performance - Not guaranteed values



24A174Z107



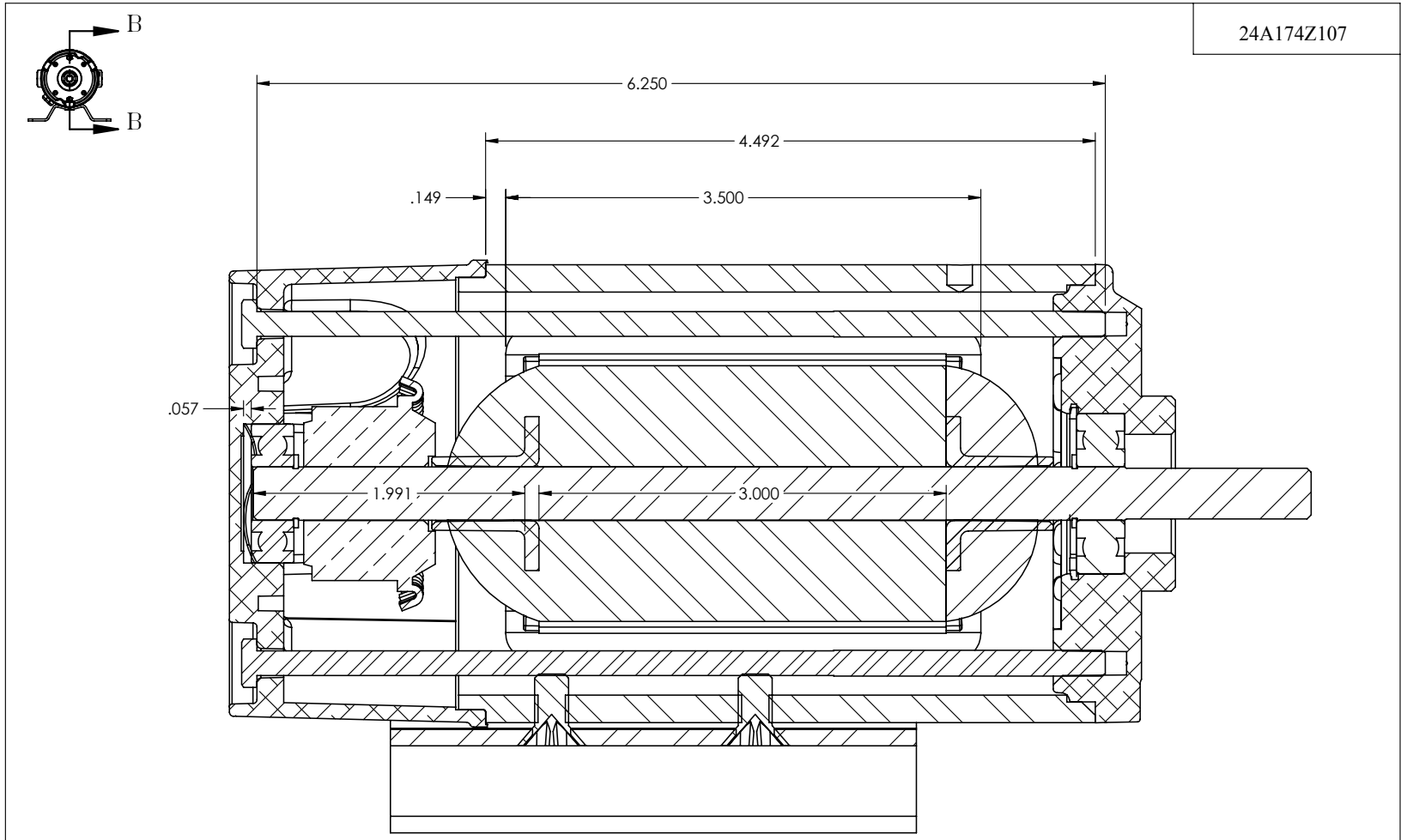
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: FIX SHAFT VIEW VH203781620			
REV: D	VERSION: 04	REVISED: 01:44:10 09/22/2017	TDR: 000001042963
24A174Z107	MODEL NO. 24A174Z107		REF:
	BY: CKMICR0		

BALDOR

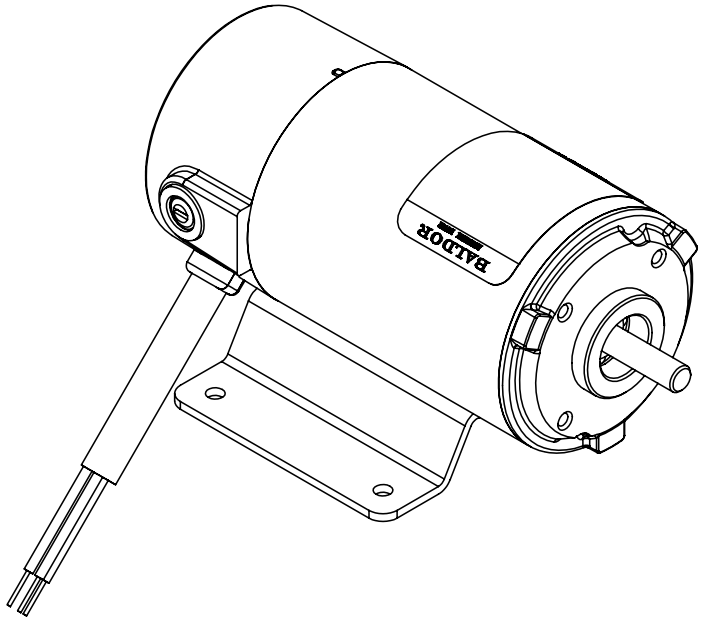
LY,24DC MTR DOM TENV 1.250 0.375 FLAT W/4X #10-32 UNF-2B

24A174Z107


B
B
24A174Z107
6.250
4.492
.149
3.500
.057
1.991
3.000
SECTION B–B
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: FIX SHAFT VIEW VH203781620
REV: D
VERSION: 04
REVISED: 01:44:10 09/22/2017
TDR: 000001042963
BALDOR
24A174Z107
MODEL NO. 24A174Z107
REF:
BY: CKMICR0
LY,24DC MTR DOM TENV 1.250 0.375 FLAT W/4X #10-32 UNF-2B
24A174Z107

ITEM NO.	PART NUMBER	QTY.
1	24EP3107A02	1
2	BG6200C03	1
3	HW5002A45	1
4	24SH4001D24	1
5	HW5060A23	2
6	24AA2024A01	1
7	BG6000C03	1
8	24SB3100D26	1
9	PM1049A06	2
10	BA0166A00	1
11	08XN2520A06	2
12	24EP3102A01	1
13	HW5109A13	1
14	BP4529	2
15	80XN1032A04	2
16	BP5052	2
17	BP4530	2
18	HA3100A10	2
19	WD4102A01	1
20	BCB1111-115	1
21	NP1220A24	1
22	LB1451	1
23	LC0899A07	1

24A174Z107



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24A174Z107

REV. DESC: FIX SHAFT VIEW VH203781620

REV: D	VERSION: 04	REVISED: 01:44:10 09/22/2017	TDR: 000001042963

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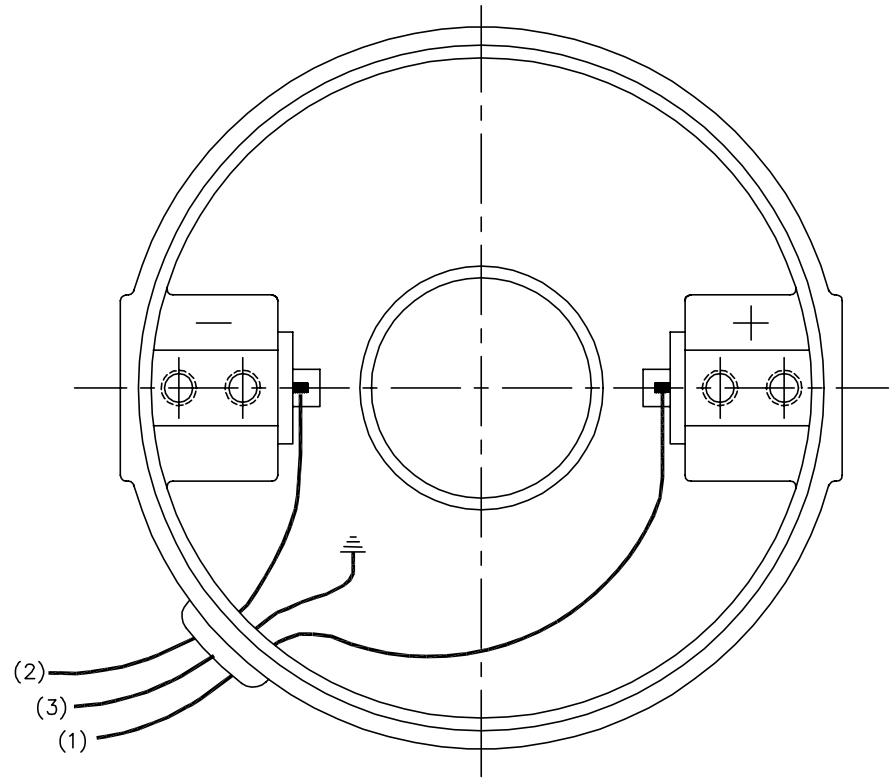
24A174Z107

MODEL NO. 24A174Z107 REF:

BY: CKMICR0

LY,24DC MTR DOM TENV 1.250 0.375 FLAT W/4X #10-32 UNF-2B

CD1899



VIEWED FROM
DRIVE END

(1) COLOR MAY BE
RED
WHT
BLU

(2) COLOR MAY BE
BLK
BRN

(3) COLOR WHEN REQ.
GRN
GRN/YEL

REV. DESC: NEW			BALDOR ELECTRIC Co.
REV. LTR: –	BY: PAW	REVISED: 09:06:34 09/16/2004	TDR: 341564
CD1899		FILE: CKA00025830	REF: CD1899
		MTL: –	PM,2LD,REV,TANG,CK

CD1899

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