ABB BALDOR RELIANCE

Customer information packet

VP3458D

.75/1KW, 3000RPM, DC, D80D, 3428P, TEFC, F2
Class - None
Division -

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Specifications

Armature Voltage	180 V
Base Speed	3000 rpm
Enclosure	TEFC
Frame	D80D
Frame Material	Steel
Haz Area Class and Group	None
Output Power	0.750 HP
Agency Approvals	CE
	CSA
	UR
Ambient Temperature	40 °C
Armature Current	5.1 a
Armature Inertia	10.926 lb-ft2
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	D
Heater Indicator	No Heater
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Mounting Arrangement	B35
Overall Length	14.35 IN
Product Family	BISSIC
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00
Shaft Diameter	0.748 IN
Shaft Extension Location	Pulley End

Part Detail

Revision	P
Type	DC
Mech. spec.	34-6483
Base	
Status	PRD/A
Elec. spec.	34WGZ145
Layout	34LY6483
Eff. date	10-25-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP1049L					
CAT.NO.	VP3458D				
SPEC.	34-6483Z145				
KW/HP	.75/1 TE		**I.P.**	54	
RPM	3000 TE				
IEC FRAME	D80D	**TYPE**	3428P		
ARM V	180		**ARM A**	5.1	
FLD V			**FLD A**		
INSUL	F	**AMB.**	40		
DUTY	CONT		**SUPPLY**	1.5	
BRG/DE	6206	**BRG/ODE**	6203		
BRUSHES	2/BP5000AW14				
			BLANK		
SER.					
BLANK					
APRV-CE		**APRV-CSA**		**APRV-UL**	

Parts List

Part number	Description	Quantity
SA053029	SA 34-6483Z145	1.000 ea
AA005947	AA 34-6483Z145	1.000 ea
BP5000AW14SP	CARBON BRUSH - 33P, 180 VOLTS	1.000 ea
HA3210B66	.125 DIA X .281 (AUTO)	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3103B14	FR ENDPLATE MACH 34PM TEFC F-2 MTG W/PG-	1.000 ea
WD4100A17	PLUG STIMPSON D4036	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP2505A01	FLG MTG EP IEC F165 ENCL 205 BRG MACH.	1.000 ea
HW4600H11	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 ea
51XN1032A24	10-32 X 1 1/2 HX WS SL SR	2.000 ea
BP5201A11SP	BRUSH HOLDER ASSY W/BP4511A01, BP3000A01	1.000 ea
80XN1032J03	10-32 X 3/16 SET SCREW, HEX SOC, CUP PT	2.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH5002A01SP	FAN COVER ASSY W/SHAFT COVER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4504SP	CONDUIT BOX LID, STAMPED	1.000 ea
34GS1011SP	GASKET, CONDUIT BOX LID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	1.000 ea
HW2504E10	KEY, 6 MM X 1.000	1.000 ea
HA7000A11	KEY RETAINER 0.750 DIA SHAFTS	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.001 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
ML14A1B14	14 AWG,A1,BLACK	8.500 in
ML14A2B14	14 AWG,A2,BLACK	8.500 in
HA3100A47	THRUBOLT 10-32 X 7.625	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0194	CONNECTION LABEL	1.000 ea
NP1049L	NP STD LASER ENGRAVED IEC DC MOTORS, UL	1.000 ea
27PA1006	PKG GRP, PRINT PK1027A07	1.000 ea

Accessories

Part number	Description	Multiplier
TK3400	TACHO MOUNTING KIT FOR TK3400	A8
TK3400-HPU	HPU10 MOUNTING KIT 34P/35P TEFC	

DC Motor Performance Data
Record # 1440
Typical performance - not guaranteed values

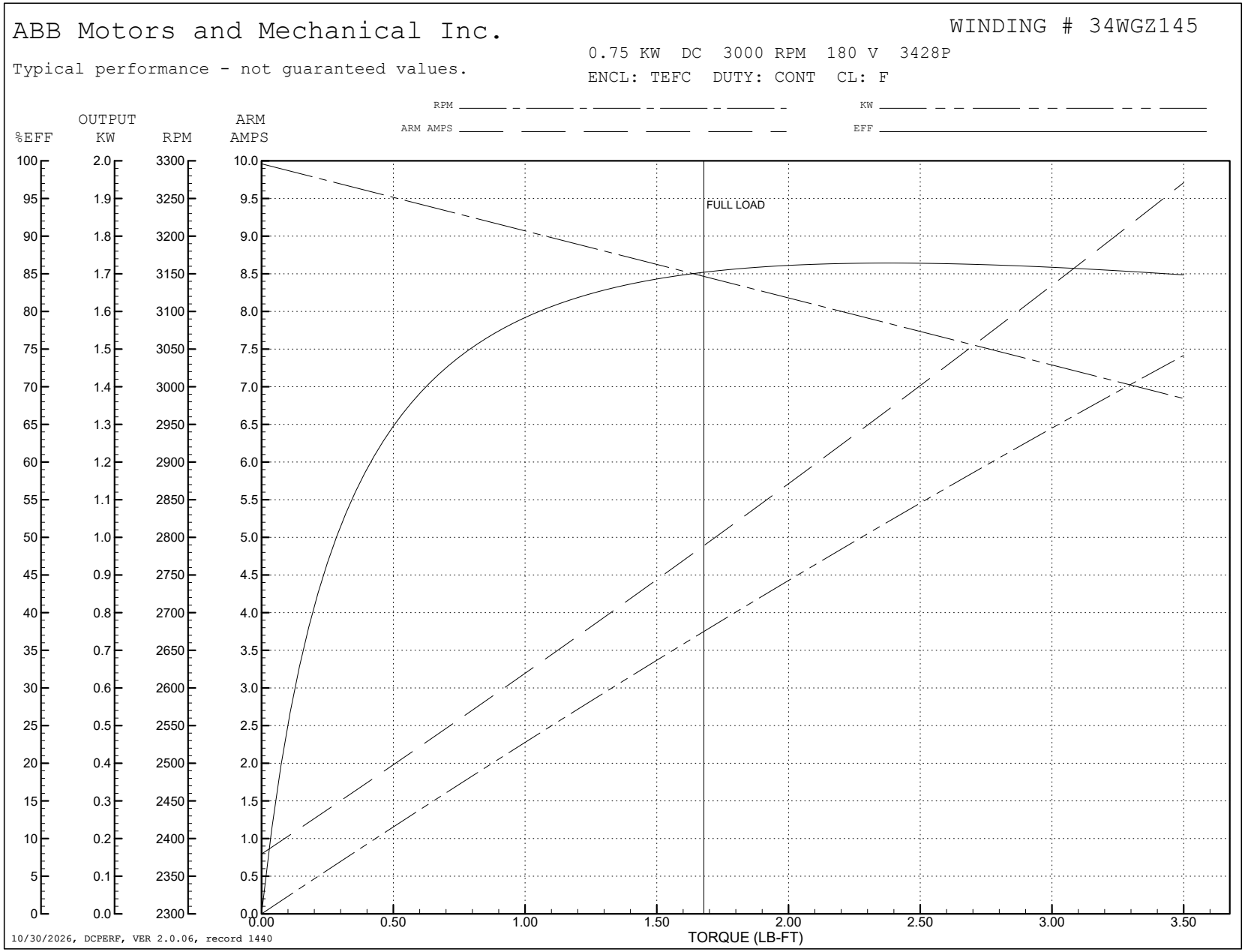
Winding: 34WGZ145-R001	**Type:** 3428P	**Enclosure:** TEFC

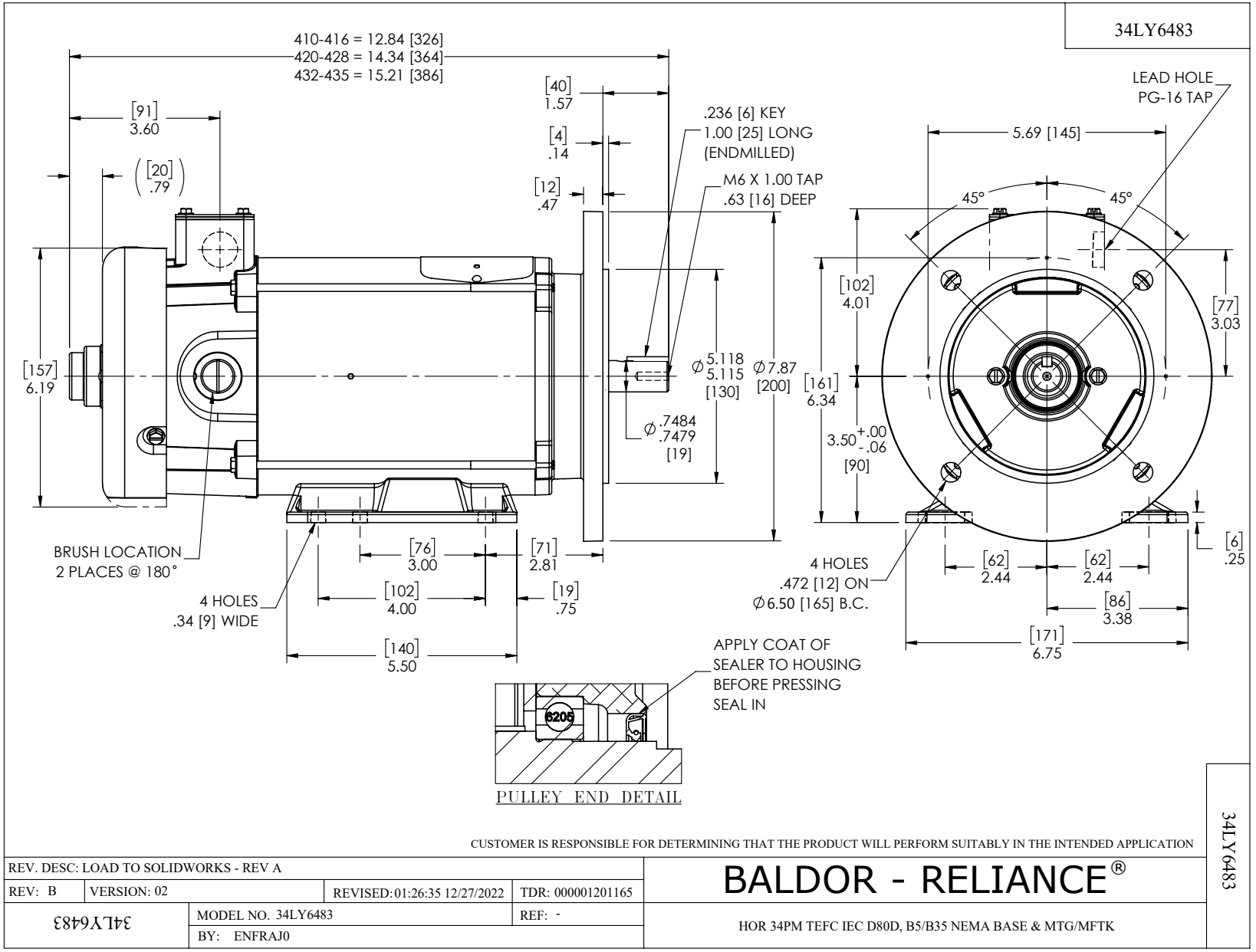
Nameplate Data	
Rated Output (KW)	0.75
R.P.M.	3000
Armature Volts	180
Armature Amps	5.1
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	D

General Characteristics	
Armature Resistance @ 25ºC	1.05 Ω
Armature Inductance	10.111 mH
Armature Inertia	10.93 LI²

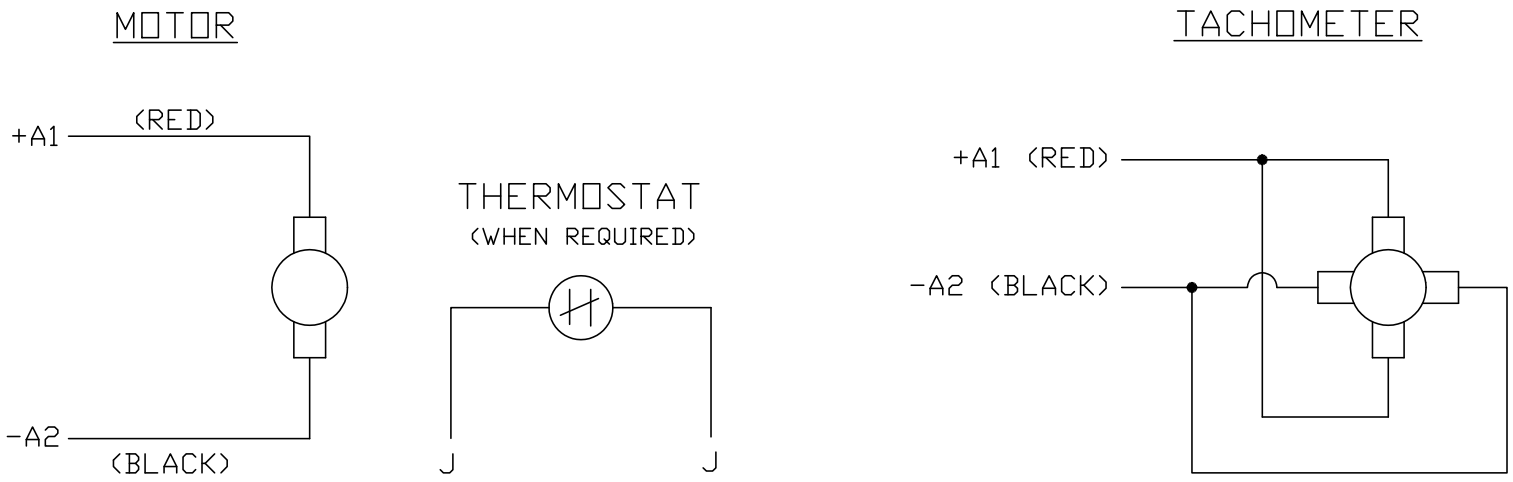
Load Characteristics at 180 Armature Volts

Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	0.8	2.9	4.1	5.1	6.3	7.4	9.7
R.P.M.	3296	3219	3180	3135	3094	3056	2990
Torque (LB-FT)	0	0.875	1.375	1.75	2.25	2.625	3.5


ABB Motors and Mechanical Inc.
WINDING # 34WGZ145
Typical performance - not guaranteed values.
0.75 KW DC 3000 RPM 180 V 3428P
ENCL: TEFC DUTY: CONT CL: F
RPM
ARM AMPS
KW
EFF
%EFF
OUTPUT KW
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
10/30/2026, DCPERF, VER 2.0.06, record 1440


34LY6483
410-416 = 12.84 [326]
420-428 = 14.34 [364]
432-435 = 15.21 [386]
[91] 3.60
([20] .79)
[40] 1.57
[4] .14
[12] .47
.236 [6] KEY
1.00 [25] LONG
(ENDMILLED)
M6 X 1.00 TAP
.63 [16] DEEP
[157] 6.19
Ø5.118
5.115
[130]
Ø7.87
[200]
Ø.7484
.7479
[19]
BRUSH LOCATION
2 PLACES @ 180°
4 HOLES
.34 [9] WIDE
[76] 3.00
[71] 2.81
[102] 4.00
[19] .75
[140] 5.50
LEAD HOLE
PG-16 TAP
5.69 [145]
45°
45°
[102] 4.01
[77] 3.03
[161] 6.34
3.50 +.00 -.06
[90]
[6] .25
4 HOLES
.472 [12] ON
Ø6.50 [165] B.C.
[62] 2.44
[62] 2.44
[86] 3.38
[171] 6.75
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
SEAL IN
6205
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS - REV A
REV: B
VERSION: 02
REVISED: 01:26:35 12/27/2022
TDR: 000001201165
BALDOR - RELIANCE®
34LY6483
MODEL NO. 34LY6483
REF: -
BY: ENFRAJ0
HOR 34PM TEFC IEC D80D, B5/B35 NEMA BASE & MTG/MFTK
34LY6483

CD0194



NOTES:

1. CCW ROTATION AS SHOWN FACING COMMUTATOR END. TO REVERSE MOTOR ROTATION OR TACHOMETER OUTPUT POLARITY INTERCHANGE LEADS A1(RED) & A2(BLACK)

2. LEAD COLORS FOR REFERENCE ONLY & NOT SPECIFIED BY THIS DRAWING. LEAD COLORS SPECIFIED BY LAYOUT DRAWING & BILL OF MATERIAL ONLY.

CD0194

MATL: –				BALDOR ELECTRIC Co.
REV: E	ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &....			
CD0194	SCALE: –	BY: CK	REVISED: 07/28/95	CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS
	FILE: AAA00004503		TDR: 0078737	