ABB BALDOR RELIANCE

Customer information packet

FSWDM3615T-E

5HP, 1750RPM, 3PH, 60HZ, 184T, 3646M, TEFC, F1

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Part Detail

Revision	J
Type	AC
Mech. spec.	36R625
Base	
Status	PRD/A
Elec. spec.	36WGS953
Layout	36LYR625
Eff. date	10-06-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-26-2018

Nameplate

NP4427AAA01												
CAT #	FSWDM3615T-E			**WT**	101	**LBS**						
SPEC	36R625S953G1			**ENCL**	TEFC							
SER #				**CC**	010A	**IP**	69					
HP	5			**MAG CUR**	5.8/2.9							
VOLTS	230/460					**NEMA NOM. EFF**	89.5					
AMPS	13/6.5					**PF**	81					
RATING	40C AMB-CONT											
RPM	1750				**MAX RPM**	2700						
FRAME	184T	**HZ**	60	**CODE**	J	**CLASS**	H					
SER.F.	1.15	**SF AMP**	14.8/7.4			**PH**	3	**DES**	B			
DE	6206			**ODE**	6206							
LUBRICATION	POLYREX EM											
ID LOGO		**INVERTER TYPE**		**VPWM**		**CHP**	60	**TO**	90		1.5:1	
ID LOGO	**WK2**	0.428	**CT**	15	**TO**	60		4:1				
ID LOGO	**SL HZ**	1.7	**VT**	6	**TO**	60		10:1				
						QR						
YR												

Parts List

Part number	Description	Quantity
SA361143	SA 36R625S953G1	1.000 ea
RA350314	RA 36R625S953G1	1.000 ea
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
35CB1017A02	5/36 MID SECT - 3 PC. CONDUIT BOX 3/4 N	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
HA3424S48	STUD - M6X1.0 THDS X 3.00"	1.000 ea
11XW1032G08	10-32 X .50, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP1920A02	FREP TEFC 206 BRG WD11/12 (STAINLESS)	1.000 ea
RM1070A42	O-RING,(#70-7.239) FLOUROELASTOMER COMPO	1.000 ea
HW4600G02	30 X 47 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600F25	30 X 48 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
36EP1920A04	PUEP TEFC 206 BRG WD11/12 (STAINLESS)	1.000 ea
RM1070A42	O-RING,(#70-7.239) FLOUROELASTOMER COMPO	1.000 ea
HW4600G02	30 X 47 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600F25	30 X 48 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 ea
RM1070A14	O-RING, -010 VITON/FKM .070CS X .239ID	4.000 ea
11XB1214S16	12-14X1.00 HXWSSLD TYP B STAINLESS	1.000 ea
36FH4007	FAN COVER #304 STAINLESS W/OUT GREASER	1.000 ea
10XN1032FS06	HEX HD CAP SCREW 10-32 X 3/8 SS FOOD SAF	3.000 ea
35CB1513A01	35-36-37 MACH. LID - 3 PC. CONDUIT BOX	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
HW2502E16	#303 SS,SQ KEY 1/4 X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.005 qt
MJ5004A93	FOOD GRADE (H1 RATED) ANTISEIZE THRD COM	0.005 ea
HA1025A21	WSHR,FELT .125" THK	1.000 ea
HA5027A09	DRAIN KIT,(2)HA4002A03 BAGGED W/LABEL	1.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
WD5603A01	KIT, CLOSED-END LEAD SPLICE (18-14GA)	1.000 ea
HA3101FS55	THRUBOLT, 1/4-20 X 13.250 SS FOOD SAFE	4.000 ea
G0PA1000	PKG GRP, PRINT PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000016	ZTRG FE ASSEMBLY	1.000 ea
PE-0000010	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 57384
Typical performance - not guaranteed values

Winding: 36WGS953-R006	**Type:** 3646M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	15.03 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			13/6.5	**Breakdown Torque**	57.4 LB-FT
R.P.M.			1750	**Pull-up Torque**	28.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	32.3 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	47.9 A
Service Factor (S.F.)			1.15	**No-load Current**	2.91 A
NEMA Nom. Eff.	89.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	2.34 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C
S.F. Amps				**Temp. Rise @ S.F. Load**	91°C
				Locked-rotor Power Factor	39
				Rotor inertia	0.428 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	90	83	84	86
Efficiency	86.7	90.5	90.8	89.3	88.4	86.6	88.8
Speed	1788	1776	1763	1748	1732	1714	1738
Line amperes	3.27	4.1	5.2	6.53	8.02	9.69	7.42

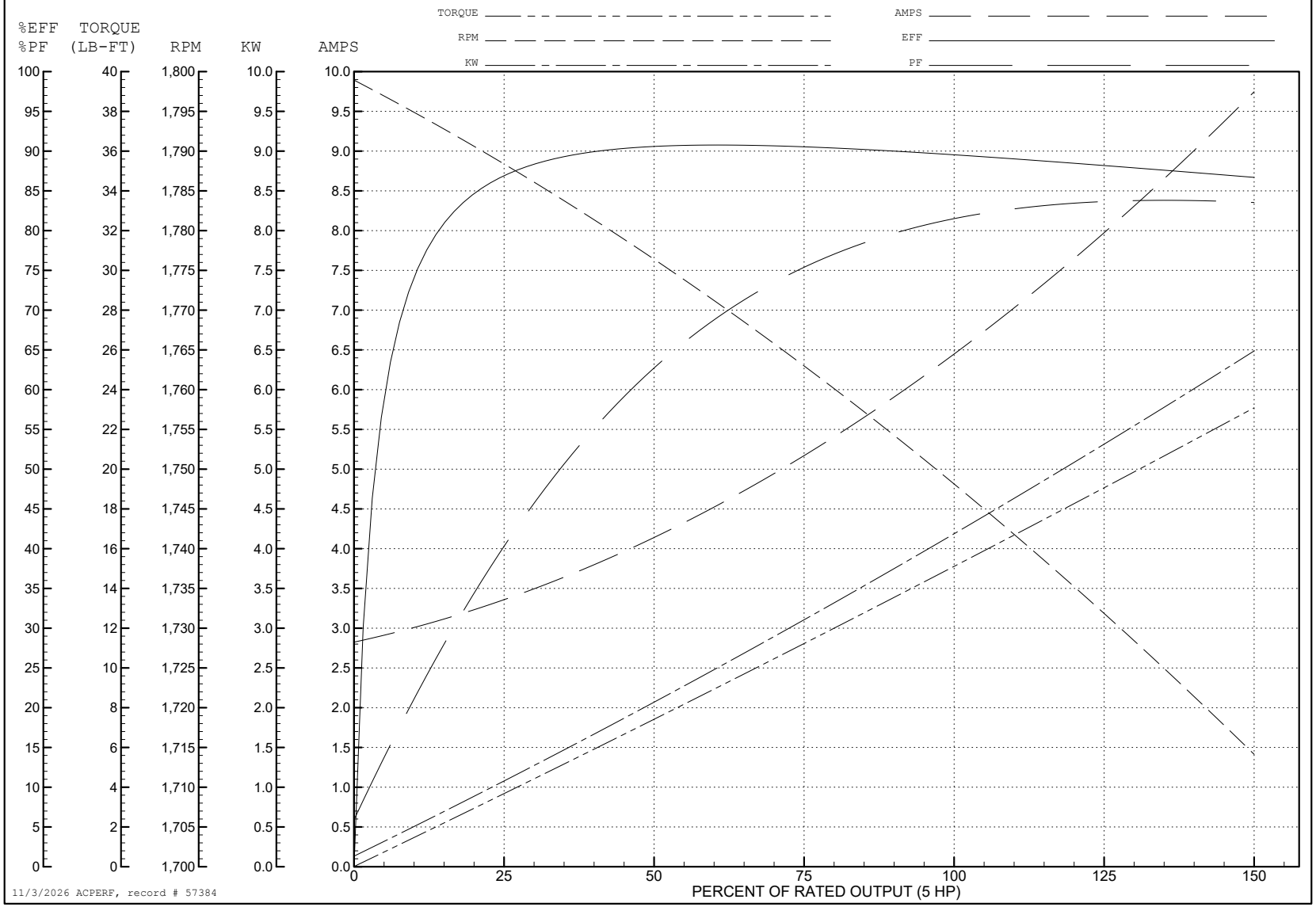
ABB Motors and Mechanical Inc.

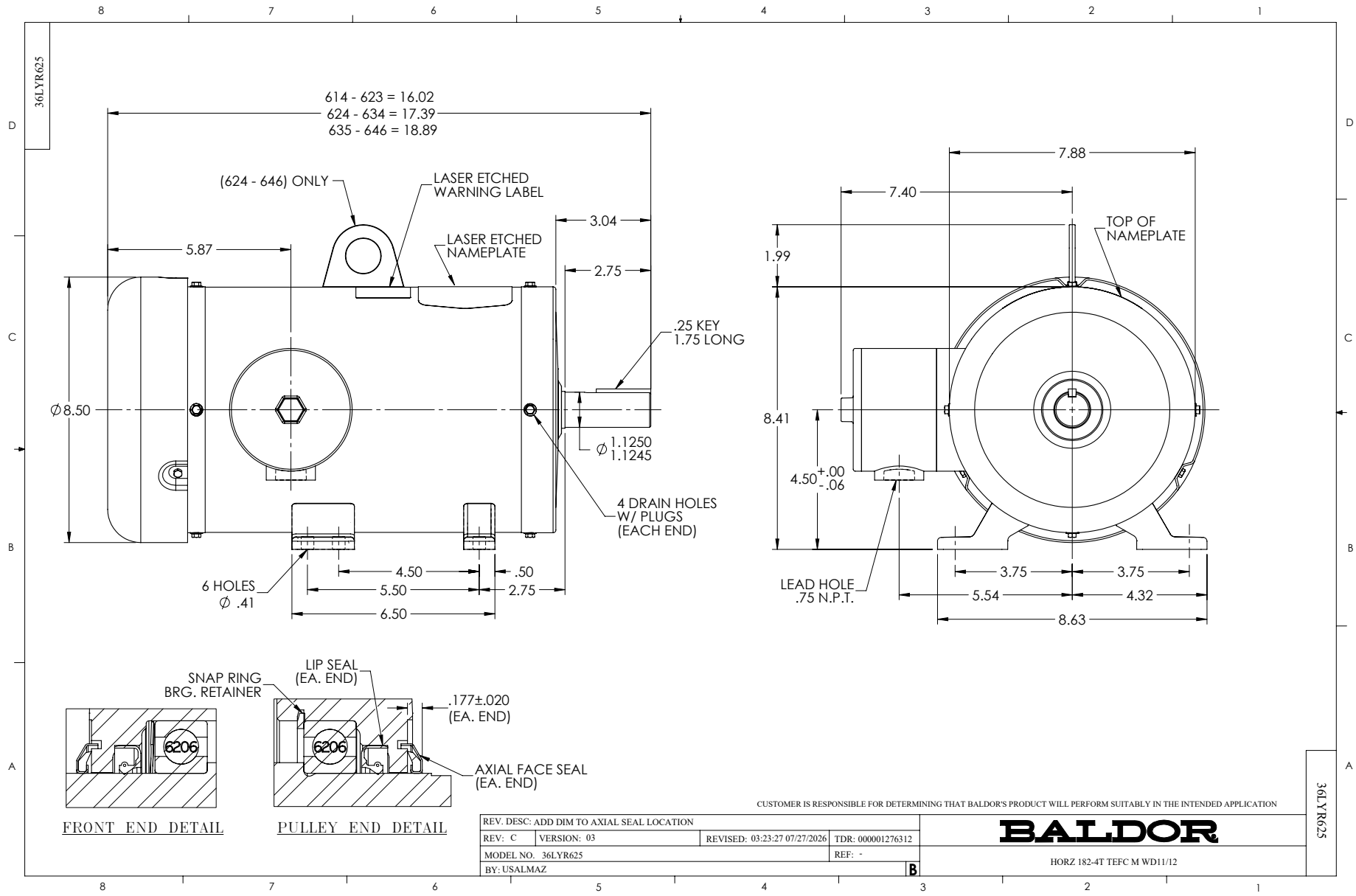
WINDING # 36WGS953

5 HP 3 PH 60 HZ 1750 RPM 460 V 3646M

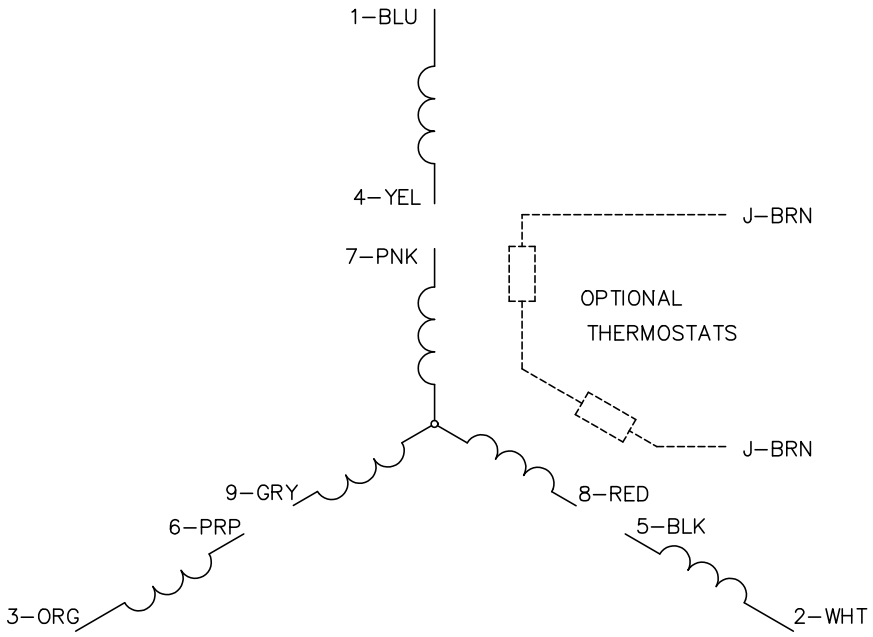
Typical performance - not guaranteed values.

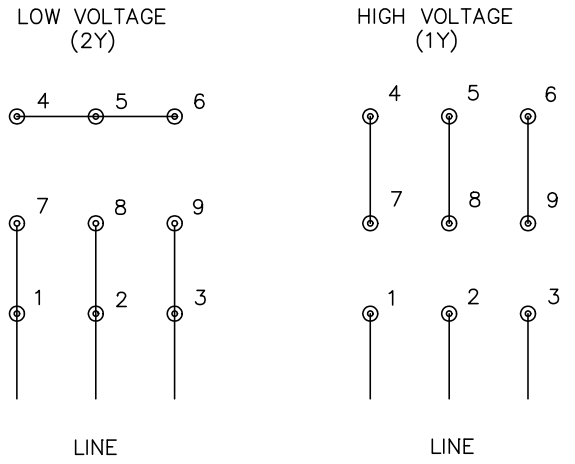
TORQUES(LB-FT): PO=57.4 PU=28.9 LR=32.3 LRA=47.9




36LYR625
614 - 623 = 16.02
624 - 634 = 17.39
635 - 646 = 18.89
(624 - 646) ONLY
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
5.87
3.04
2.75
.25 KEY 1.75 LONG
∅8.50
∅ 1.1250 1.1245
4 DRAIN HOLES W/ PLUGS (EACH END)
6 HOLES ∅ .41
4.50
.50
5.50
2.75
6.50
7.88
7.40
TOP OF NAMEPLATE
1.99
8.41
4.50 +.00 -.06
LEAD HOLE .75 N.P.T.
3.75
3.75
5.54
4.32
8.63
SNAP RING BRG. RETAINER
LIP SEAL (EA. END)
.177±.020 (EA. END)
AXIAL FACE SEAL (EA. END)
6206
6206
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: C
VERSION: 03
REVISED: 03:23:27 07/27/2026
TDR: 000001276312
MODEL NO. 36LYR625
REF: -
BY: USALMAZ
B
BALDOR
HORZ 182-4T TEFC M WD11/12
36LYR625

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS