

BALDOR® • RELIANCE

Product Information Packet

EM3704T

3HP,1160RPM,3PH,60HZ,213T,3739M,TEFC,F1

Part Detail							
Revision:	N	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3738M	Elec. Spec:	37WGS519	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	37H244	Layout:	37LYH244
Frame:	213T	Mounting:	F1	Poles:	06	Created Date:	04-11-2008
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	07-21-2016
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3441LUA

CAT.NO.	EM3704T										
SPEC.	37H244S519G1										
HP	3										
VOLTS	230/460										
AMP	9.2/4.6										
RPM	1160										
FRAME	213T				HZ		60		PH		3
SER.F.	1.15		CODE		L	DES		B	CL		F
NEMA-NOM-EFF	89.5		PF		68						
RATING	40C AMB-CONT										
CC	010A		USABLE AT 208V								9.6
DE	6307				ODE		6206				
ENCL	TEFC		SN								

VPWM INVERTER READY
CT6-60H(10:1)VT3-60H(20:1)

50Hz 3HP 190/380V 10.6/5.3A

SF1.0

AC Induction Motor Performance Data

Record # 53388 - Typical performance - not guaranteed values

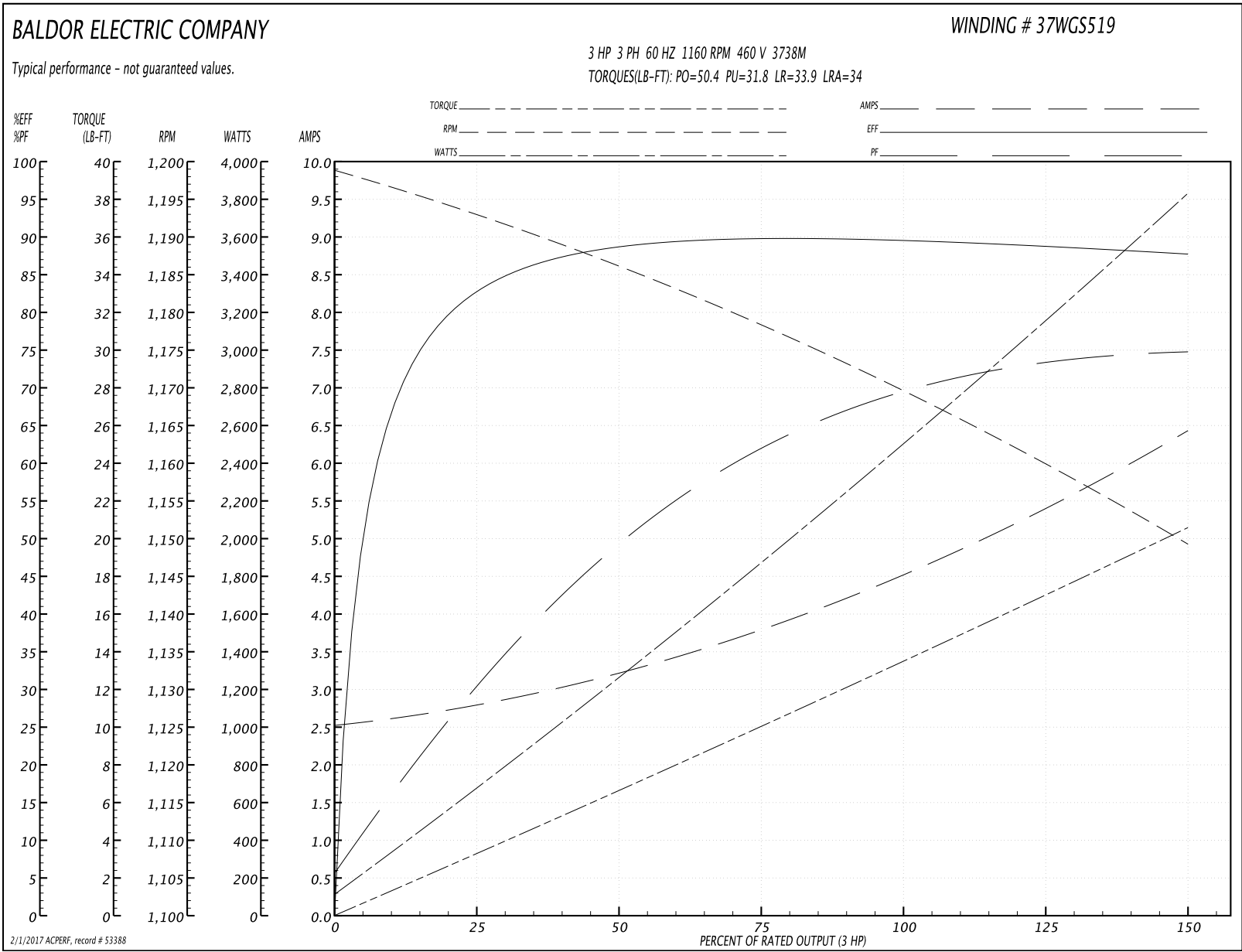
Winding: 37WGS519-R032	Type: 3738M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3			Full Load Torque	13.4 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	9.2/4.6			Breakdown Torque	50.4 LB-FT
R.P.M.	1160			Pull-up Torque	31.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	33.9 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	34 A
Service Factor (S.F.)	1.15			No-load Current	2.56 A
NEMA Nom. Eff.	89.5	Power Factor	68	Line-line Res. @ 25°C	2.67 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	38°C
S.F. Amps				Temp. Rise @ S.F. Load	45°C
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 LB-FT ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	50	62	69	73	75	70
Efficiency	82.1	88.6	89.5	89.8	89.1	87.6	89.1
Speed	1193	1186	1178	1170	1160	1149	1166
Line amperes	2.74	3.19	3.82	4.53	5.44	6.41	5.14

Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 60478 - Typical performance - not guaranteed values

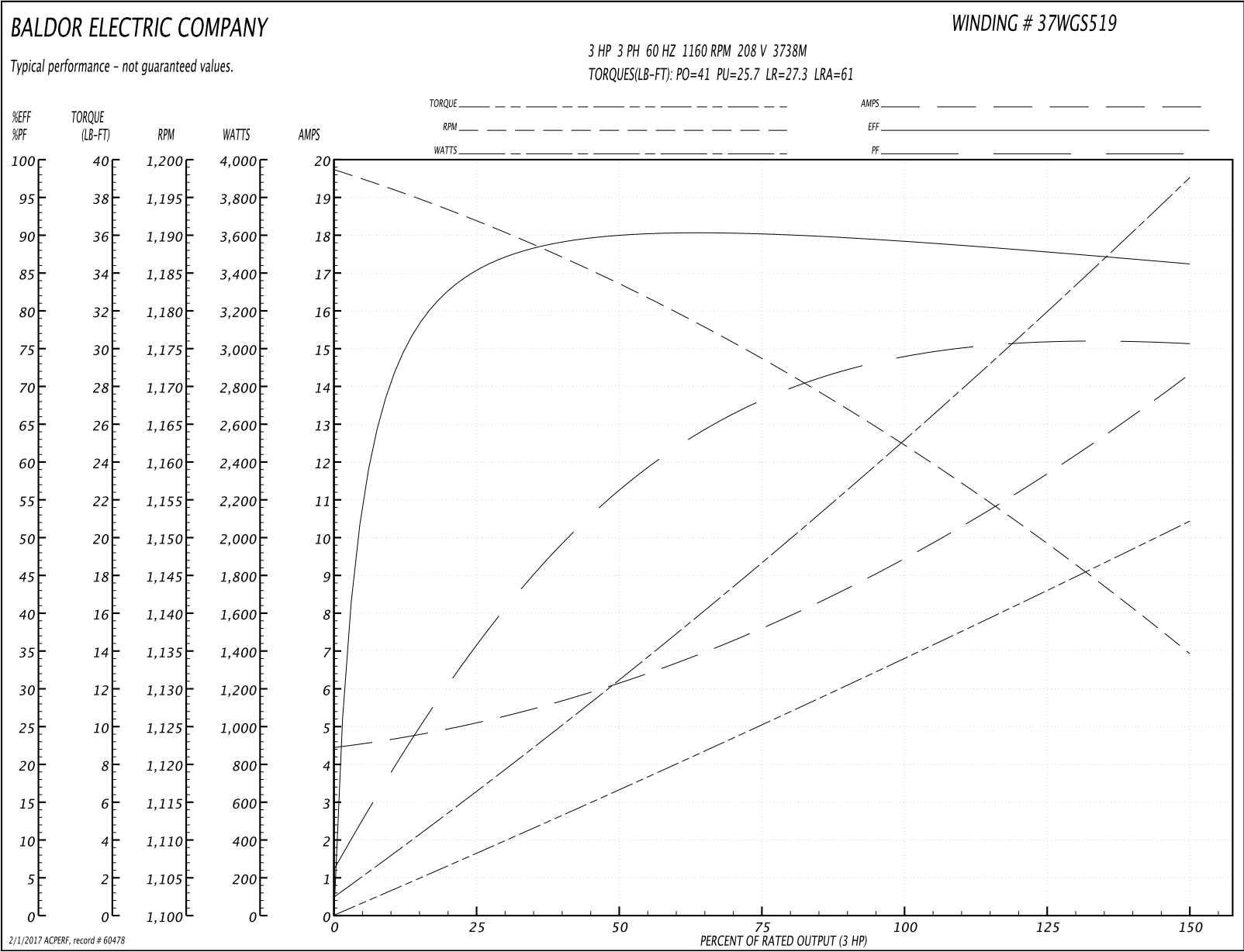
Winding: 37WGS519-R032	Type: 3738M	Enclosure: TEFC
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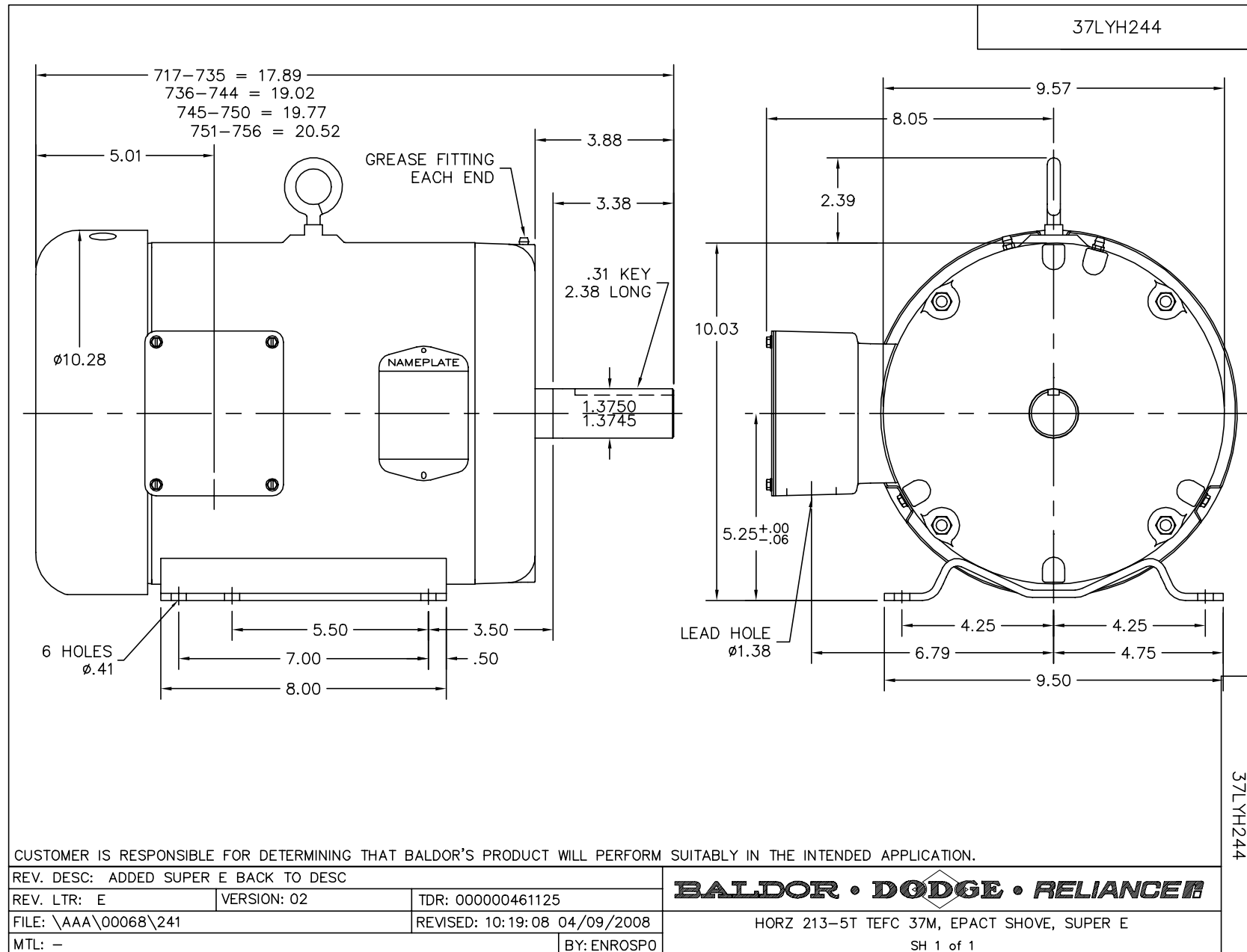
Nameplate Data				208 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	3			Full Load Torque	13.5 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	9.5-9.2/4.6			Breakdown Torque	41 LB-FT
R.P.M.	1160			Pull-up Torque	25.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	27.3 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	61 A
Service Factor (S.F.)	1.15			No-load Current	4.52 A
NEMA Nom. Eff.	89.5	Power Factor	68	Line-line Res. @ 25°C	0.668 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	39°C
S.F. Amps				Temp. Rise @ S.F. Load	49°C
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 LB-FT ²

Load Characteristics 208 V, 60 Hz, 3 HP

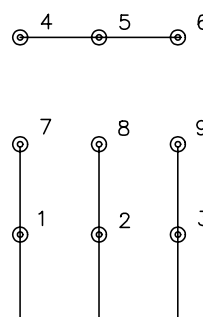
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	57	68	73	76	76	75
Efficiency	84.3	89.5	90.1	89.6	88	86.1	88.6
Speed	1192	1183	1173	1163	1150	1134	1155
Line amperes	4.98	6.11	7.69	9.46	11.7	14.3	10.8

Performance Graph at 208V, 60Hz, 3.0HP Typical performance - Not guaranteed values

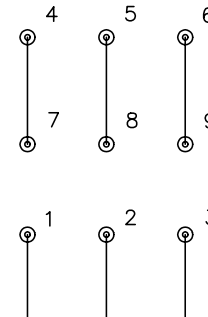




CD0005

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

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005