

**BALDOR® • RELIANCE** 

**Product Information Packet**

**ECR9306T**

**30HP,1180RPM,3PH,60HZ,326T,1272M,TEFC,F1**

Part Detail							
Revision:	N	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY876	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	12H518	Layout:	12LYH518	Poles:	06	Created Date:	01-07-2015
Base:	RG	Eff. Date:	11-17-2020	Leads:	9#8		

Specs			
Catalog Number:	ECR9306T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	326T	Inverter Code:	Inverter Duty
Frame Material:	Iron	KVA Code:	K
Output @ Frequency:	30.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	1272M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	72
	UR	Product Family:	Super-E Chemical Processing
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

<b>Constant Torque Speed Range:</b>	6	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
<b>Current @ Voltage:</b>	90.000 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
	84.000 A @ 230.0 V	<b>Shaft Slinger Indicator:</b>	Shaft Slinger
	42.000 A @ 460.0 V	<b>Speed Code:</b>	Single Speed
<b>Design Code:</b>	A	<b>Motor Standards:</b>	NEMA
<b>Drip Cover:</b>	No Drip Cover	<b>Starting Method:</b>	Direct on line
<b>Duty Rating:</b>	CONT	<b>Thermal Device - Bearing:</b>	None
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Winding:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Face Code:</b>	Standard	<b>Winding Thermal 1:</b>	None
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 2:</b>	None

Nameplate NP3293														
CAT.NO.	ECR9306T			P/N				ENCLOSURE	TEFC					
SPEC.	12H518Y876G1		CC	010A	FRAME	326T		S/N						
HP	30		CLASS	F	HZ	60		DES	A					
RPM	1180		RPM MAX	1800		PH	3		KVA-CODE	K				
VOLT	230/460			I.P.	55									
AMP	84/42			SER.F.	1.25		PF	72		ODE BRG	6312	DE BRG	6313	
RATING	40C AMB-CONT			NEMA-NOM-EFF	93		GREASE	POLYREX EM						
HTR-VOLTS			HTR-AMPS			HTR-WATTS			INV.TYPE					
	SFA 102/51			C HP FR	60		C HP TO	90		CT HZ TO	60		VT HZ TO	60
				CT HZ FROM	6		VT HZ FROM	6						
				MOTOR WEIGHT	560									

Parts List		
Part Number	Description	Quantity
SA292131	SA 12H518Y876G1	1.000 EA
RA278250	RA 12H518Y876G1	1.000 EA
09FN3001B03SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 EA
10CB1000A203P	KOBX W/2.00 NPT & .31 GND MTG, EPOXY PRI	1.000 EA
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	1.000 EA
HA4017A11	1/8 X 2.75 GREASE EXT (F/S)	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA3400A32	STUD, 1/2-13 X 7.38	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
HW4600B42	V-RING SLINGER 2.375 X 3.070 X .28 VITON	1.000 EA
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA
HW5100A15	W4997-050 WVY WSHR (WB)	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
10XN3816K48	3/8-16 X 3 HEX HD CAP SCREW,Z/P	4.000 EA
12EP1110A01P	PULLEY ENDPLATE-313 BRG-MACH	1.000 EA
10XN5013K28	1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
12FH1002A13P	FAN COVER, MACH W/EPOXY PRIMER	1.000 EA
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
10CB1503A01P	CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR	1.000 EA
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 EA
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 EA
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.030 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 EA
12EP1111A57PP44	FR ENDPLATE, MACH W/EPOXY PRIMER & PAINT	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.200 LB
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA

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51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025G96	WILKOFASG SG, 779.7048, MOUSE GRAY #7048	0.080 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP3293	SS CRUSHER DUTY INV UL CSA-EEV PREM CC	1.000 EA
12PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

**AC Induction Motor Performance Data**

Record # 50077

Typical performance - not guaranteed values

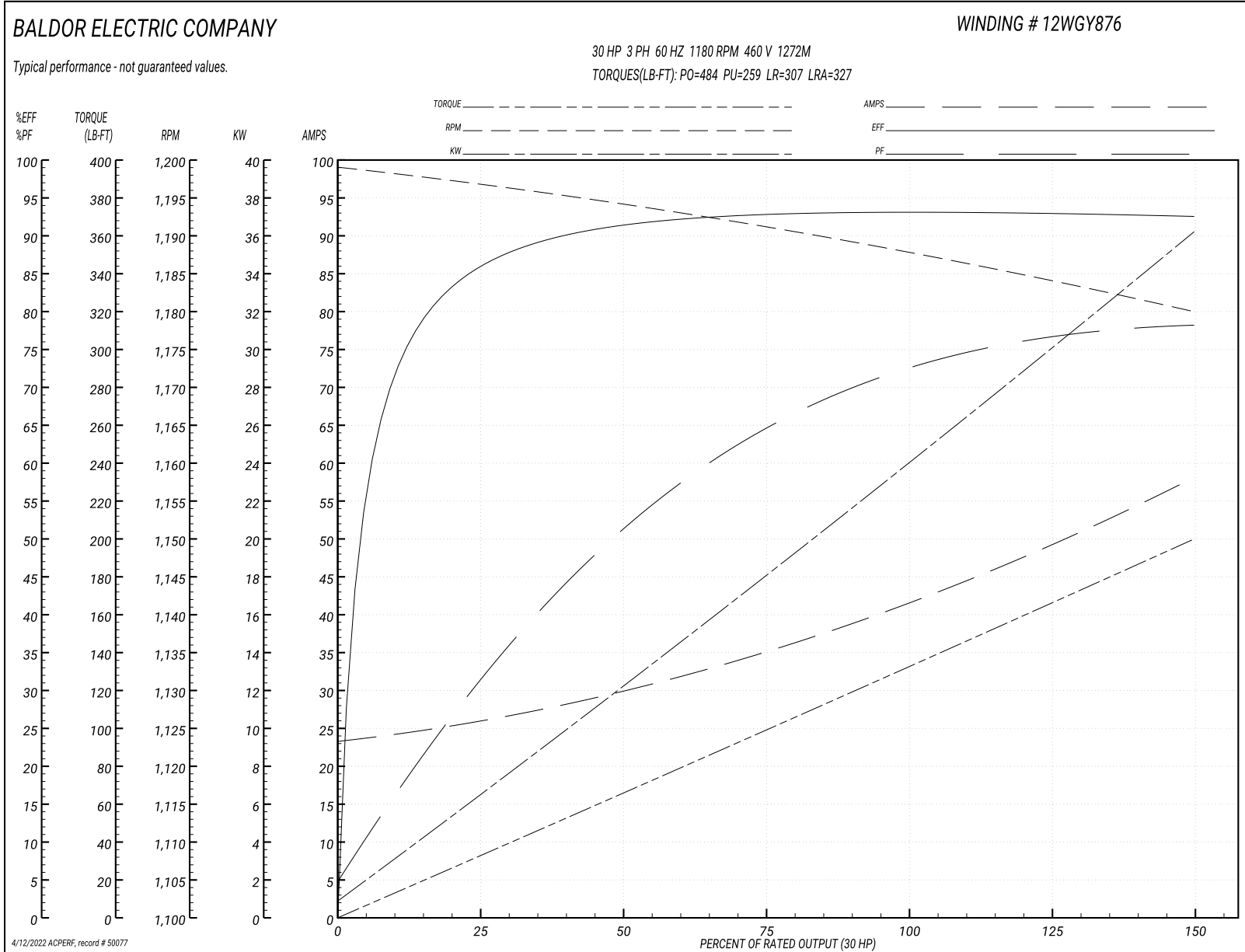
Winding: 12WGY876-R001			Type: 1272M			Enclosure: TEFC		
<b>Nameplate Data</b>				<b>460 V, 60 Hz: High Voltage Connection</b>				
Rated Output (HP)	30		Full Load Torque	133 LB-FT				
Volts	230/460		Start Configuration	direct on line				
Full Load Amps	84/42		Breakdown Torque	484 LB-FT				
R.P.M.	1180		Pull-up Torque	259 LB-FT				
Hz	60 Phase	3	Locked-rotor Torque	307 LB-FT				
NEMA Design Code	A KVA Code	K	Starting Current	327 A				
Service Factor (S.F.)	1.25		No-load Current	23.8 A				
NEMA Nom. Eff.	93 Power Factor	72	Line-line Res. @ 25°C	0.22 Ω				
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	53°C				
S.F. Amps	102/51		Temp. Rise @ S.F. Load	71°C				
			Locked-rotor Power Factor	27.8				
			Rotor inertia	13.8 LB-FT <sup>2</sup>				

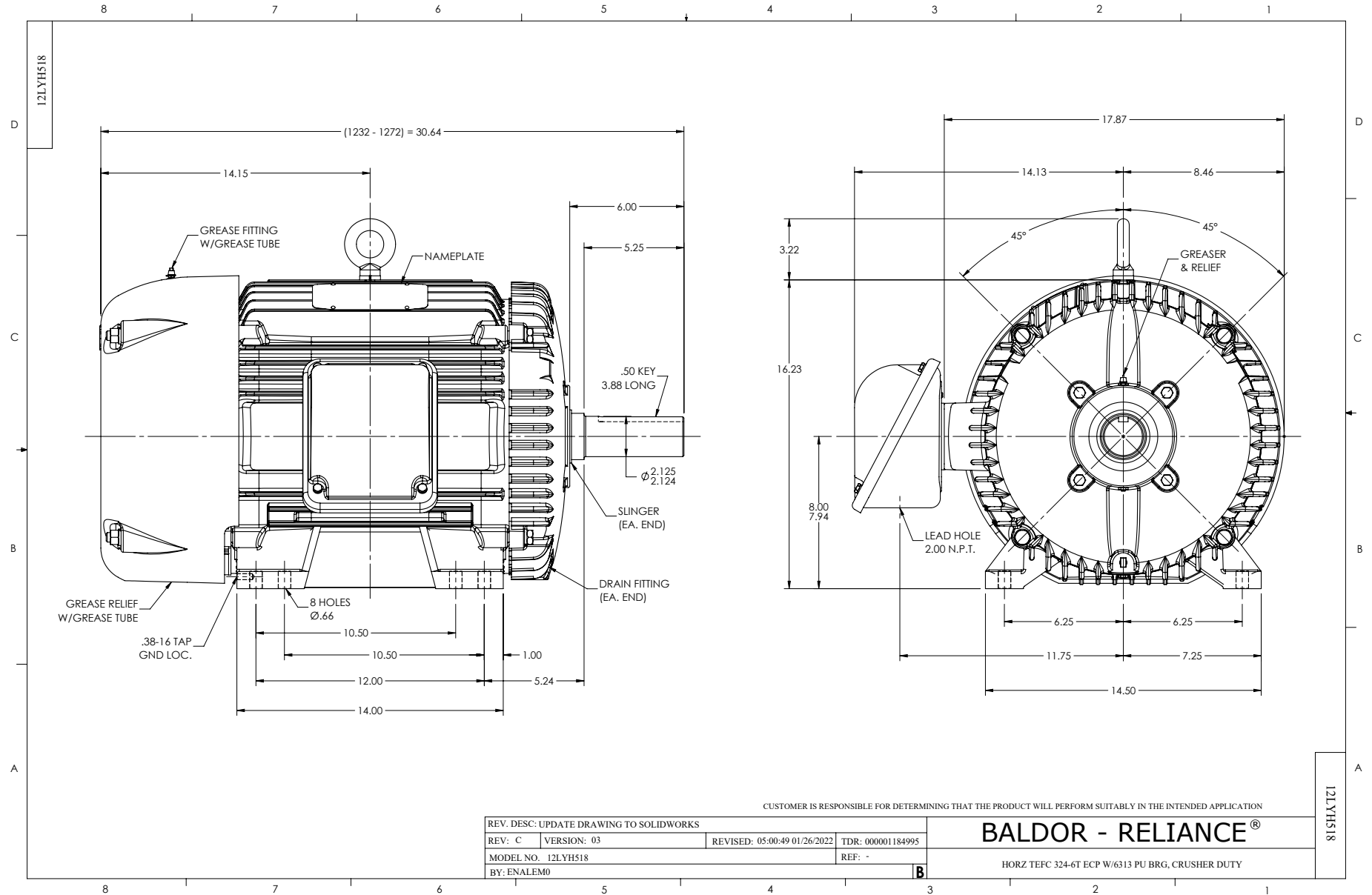
**Load Characteristics 460 V, 60 Hz, 30 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	65	72	76	79	76
Efficiency	85.7	91.3	92.9	93.4	92.9	92.6	92.9
Speed	1197	1194	1191	1188	1184	1180	1184
Line amperes	25.3	29.7	35.3	42	49.6	57.7	49.6



Performance Graph at 460V, 60Hz, 30.0HP Typical performance - Not guaranteed values





CD0005

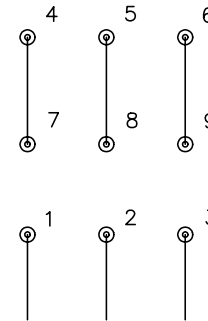


LOW VOLTAGE  
(2Y)



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

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FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005

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