

BALDOR® • RELIANCE 

Product Information Packet

VECP2276T

7.5HP, 1180RPM, 3PH, 60HZ, 254TC, 0954M, TEFC

Part Detail							
Revision:	AP	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGX827	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	09H181	Layout:	09LYH181	Poles:	06	Created Date:	10-30-2006
Base:	N	Eff. Date:	04-05-2022	Leads:	9#12		

Specs			
Catalog Number:	VECP2276T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	254TC	Inverter Code:	Inverter Duty
Frame Material:	Iron	KVA Code:	J
Output @ Frequency:	7.500 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 @ 12 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	CLI GP A,B,C,D	Motor Lead Termination:	Flying Leads
XP Division:	Division II	Motor Type:	0954M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	71
	CSA	Product Family:	Super-E Chemical Processing
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	No Mounting	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Constant Torque Speed Range:	1.0	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	10.700 A @ 460.0 V	Shaft Rotation:	Reversible
	21.400 A @ 230.0 V	Shaft Slinger Indicator:	Shaft Slinger
	25.000 A @ 208.0 V	Speed Code:	Single Speed
Design Code:	A	Motor Standards:	NEMA
Drip Cover:	Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None
		XP Temp Code:	T3C

Nameplate NP3995ABAL											
CAT # VECP2276T			SER			CC 010A					
SPEC 09H181X827			RATING 40C AMB-CONT								
HZ	VOLTS		AMPS		RPM	HP	CODE	SF	DES	PF	NEMA NOM. EFF
60	230/460		21.4/10.7		1180	7.5	J	1.15	A	71 %	91 %
										%	%
PH 3	CL F	MAX RPM 1800		MAX CORR KVAR 4.15		USABLE AT 208V		25			
IP55	FR 254TC	ENCL TEFC		DE BRG 6309		ODE BRG 6309					
GREASE POLYREX EM						MTR WT 338		LBS			
USABLE AT 50HZ 5HP 190/380V 18.6/9.3A						SF1.0					
CL I DIV 2 GRPS A,B,C,D				CL I ZONE 2 GRPS				IIA,IIB,IIC		TEMP T 160 C	
1.0 SF ON PWM INVERTER				POWER		INV TEMP CL 180		C			
CHP 60-90	HZ 1.5:1		CT 1.0-60		HZ 60:1		VT 0-60		HZ 1000:1		
SPACE HEATER LEADS H1-H2:						TIE LIKE NUMBERS TOGETHER					
V	A	W		MAX SPACE HEATER TEMP							

Parts List		
Part Number	Description	Quantity
SA150799	SA 09H181X827	1.000 EA
RA139650	RA 09H181X827	1.000 EA
09FN3001D01SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 EA
09CB1002A12P	KOBX W/1.25 NPT LEAD HOLE & 2.38 MTG HOL	1.000 EA
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
WD1000B17	T&B CX35TN OR L35P TERMINAL LUG	1.000 EA
10XN2520K08	1/4-20 X .50 GRADE #5, STL, ZINC PLATE	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
HA3400A39	STUD- 3/8-16 X 6.44 OAL HEX	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HA4017A08	.125X3.50 GREASER EXTEN.	1.000 EA
HA4017A02	.125X2.50 GREASER EXTENS.F/S	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	2.000 EA
09EP1300A12P	ENDPLATE, MACH EPOXY PRIMER	1.000 EA
10XN3816K24	3/8-16 X 1.50 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA
09FH1000A03P	FAN HOUSING, MACH W/EPOXY PRIMER	1.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	4.000 EA
09FH1500A01P	DRIP COVER, MACH W/EPOXY PRIMER	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	4.000 EA
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 EA
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	1.000 EA
12CB1503P	CONDUIT BOX LID, CAST W/EPOXY PRIMER	1.000 EA
12GS1002	GASKET, CONDUIT BOX LID, NEOP	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.023 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
PK6014	STEEL STRAP FOR 309-312 BASELESS MOTORS	3.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
LD7020D09	LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS	1.000 EA
19XW3118A08	.31-18 X .50 HEX WASHER HEAD TAPTITE II	3.000 EA
09EP1118A05LP5	FREP MACH, 309 BRG. EPOXY PRIMER	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
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.080 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA

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HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MG1025N19	WILKOFASST, 778.50, RELIANCE BLUE-GREEN	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
NP3995ABAL	SS SUPER-E SD XEX CLI DIV2 UR CSA-C-US E	1.000 EA
40PA1024	PKGP WOOD BASE, RISER SIDE LIFT GRUNDFOS	1.000 EA

AC Induction Motor Performance Data

Record # 47260

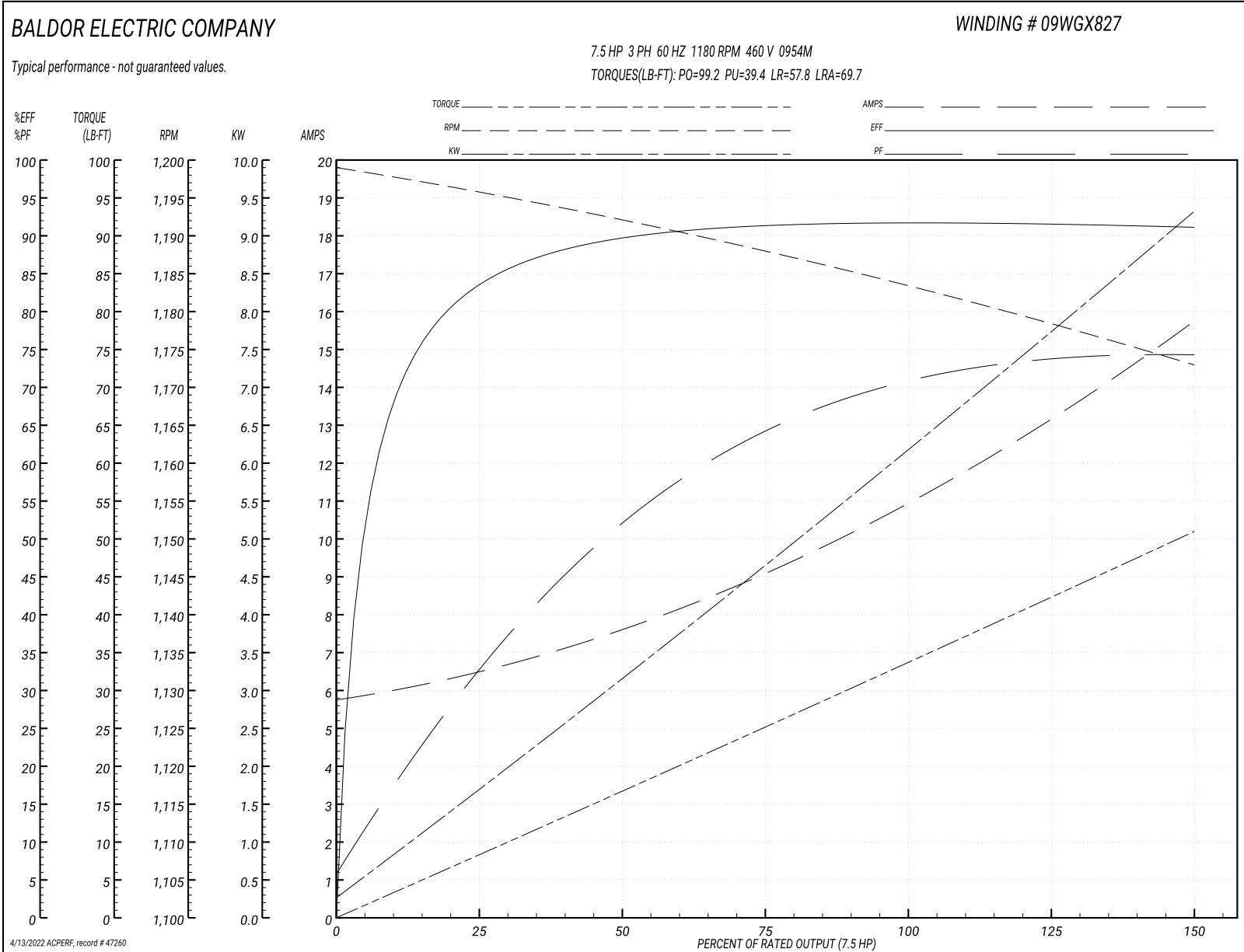
Typical performance - not guaranteed values

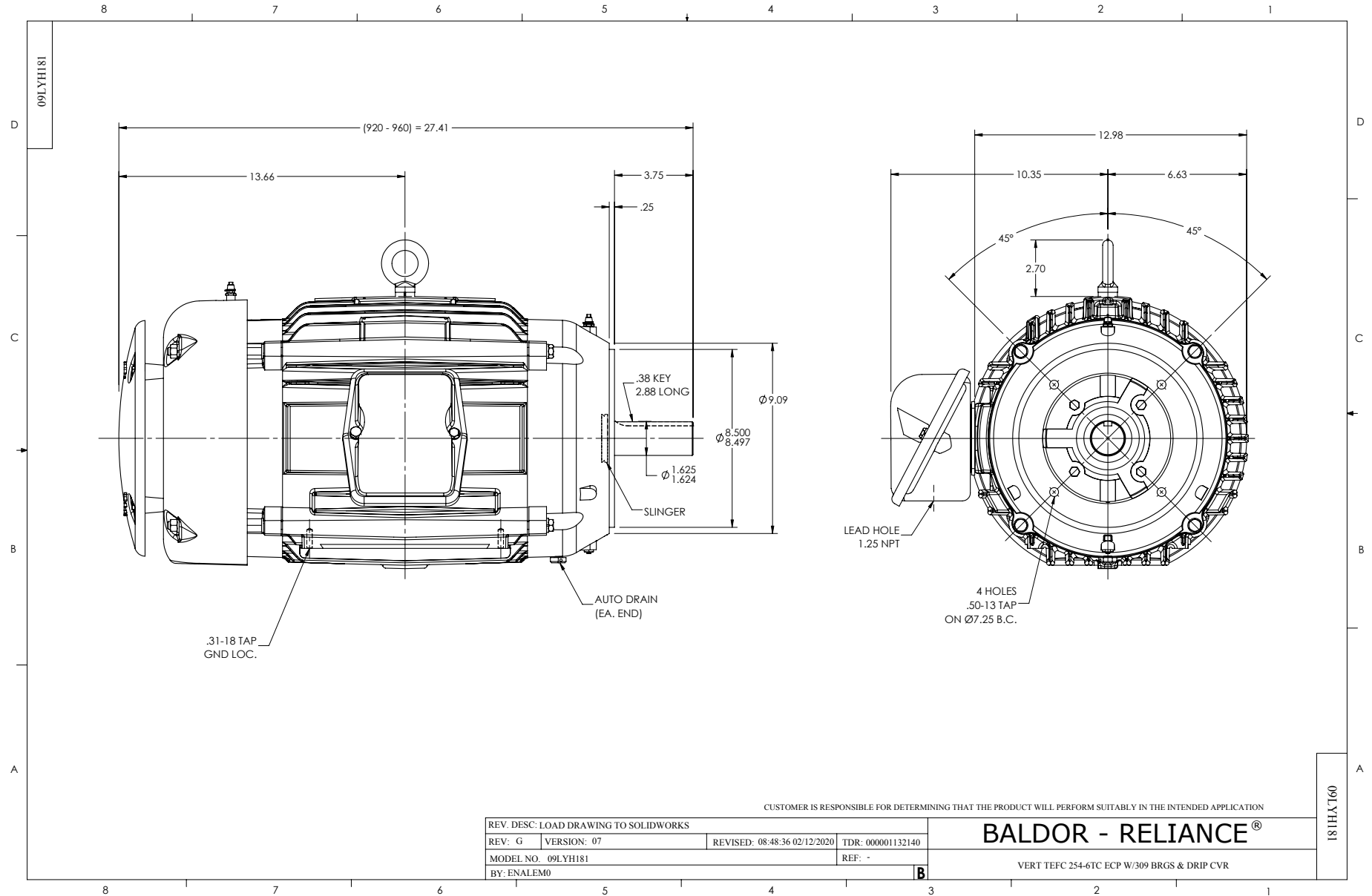
Winding: 09WGX827-R040		Type: 0954M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	7.5	Full Load Torque	32.4 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	21.4/10.7	Breakdown Torque	99.2 LB-FT		
R.P.M.	1180	Pull-up Torque	39.4 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	57.8 LB-FT	
NEMA Design Code	A	KVA Code	J	Starting Current	69.7 A
Service Factor (S.F.)	1.15		No-load Current	5.84 A	
NEMA Nom. Eff.	91	Power Factor	71	Line-line Res. @ 25°C	0.89 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	31°C	
S.F. Amps			Temp. Rise @ S.F. Load	36°C	
			Rotor inertia	4.34 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	63	71	73	75	72
Efficiency	83	89.7	91.5	91.5	91.8	91.2	91.9
Speed	1196	1192	1189	1184	1179	1173	1181
Line amperes	6.34	7.49	8.87	10.7	12.9	15.7	12

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values





CD0005

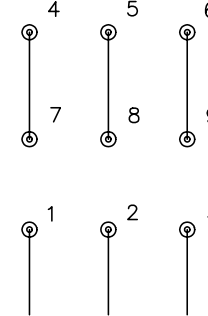


LOW VOLTAGE
(2Y)



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
9000D		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005

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