

BALDOR[®] • RELIANCE 

Product Information Packet

EM2540T

40HP, 1180RPM, 3PH, 60HZ, 364T, 4278M, OPSB, F1

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	42WGW920	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	42F100	Layout:	42LYF100	Poles:	06	Created Date:	03-30-2022
Base:	RG	Eff. Date:	08-22-2022	Leads:	9#8		

Specs			
Catalog Number:	EM2540T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Not Inverter
Frame:	364T	KVA Code:	H
Frame Material:	Steel	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	40.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	230.0 V @ 60 HZ	Motor Type:	4278M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	79
	UR	Product Family:	General Purpose
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
Current @ Voltage:	51.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	110.000 A @ 208.0 V	Shaft Rotation:	Reversible
	104.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP2138LUA											
CAT.NO.	EM2540T			P/N				ENCLOSURE	OPSB		
SPEC.	42F100W920G1		CC	010A		FRAME	364T		S/N		
HP	40			CLASS	F		HZ	60			
RPM	1180			PH	3		DES	A			
VOLT	230/460			KVA-CODE	H		ODE BRG	6311		DE BRG	6313
AMP	104/51			USABLE AT 208V	110						
RATING	40C AMB-CONT			GREASE	POLYREX EM						
NEMA-NOM-EFF	94.1	PF	79	SER.F.	1.15						
HTR-VOLTS	50HZ 40HP 190/380V 120/60A			HTR-AMPS		SF 1.0					

Parts List		
Part Number	Description	Quantity
SA404507	SA 42F100W920G1	1.000 EA
RA395870	RA 42F100W920G1	1.000 EA
HA6360	LIFTING LUG FOR 42 FRAME MOTORS.	2.000 EA
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	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
42EP3200A01	FR ENDPLATE, MACH	1.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
42EP1202A01	STD PU ENDPLATE MODEL 42 313 BRG.	1.000 EA
10XN3816K44	3/8-16 X 2.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501J36	KEY, 5/8 SQ X 4.250	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW3100A40	ALL THREAD ROD 1/2-13 X 22.750	4.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 LB
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.080 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP2138LUA	ALUM SUPER-E UL CSA-EEV PREM CC (300SER)	1.000 EA
42PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2200bx) 4/22	1.000 EA
PE-0000013	ZRTG PE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 34461

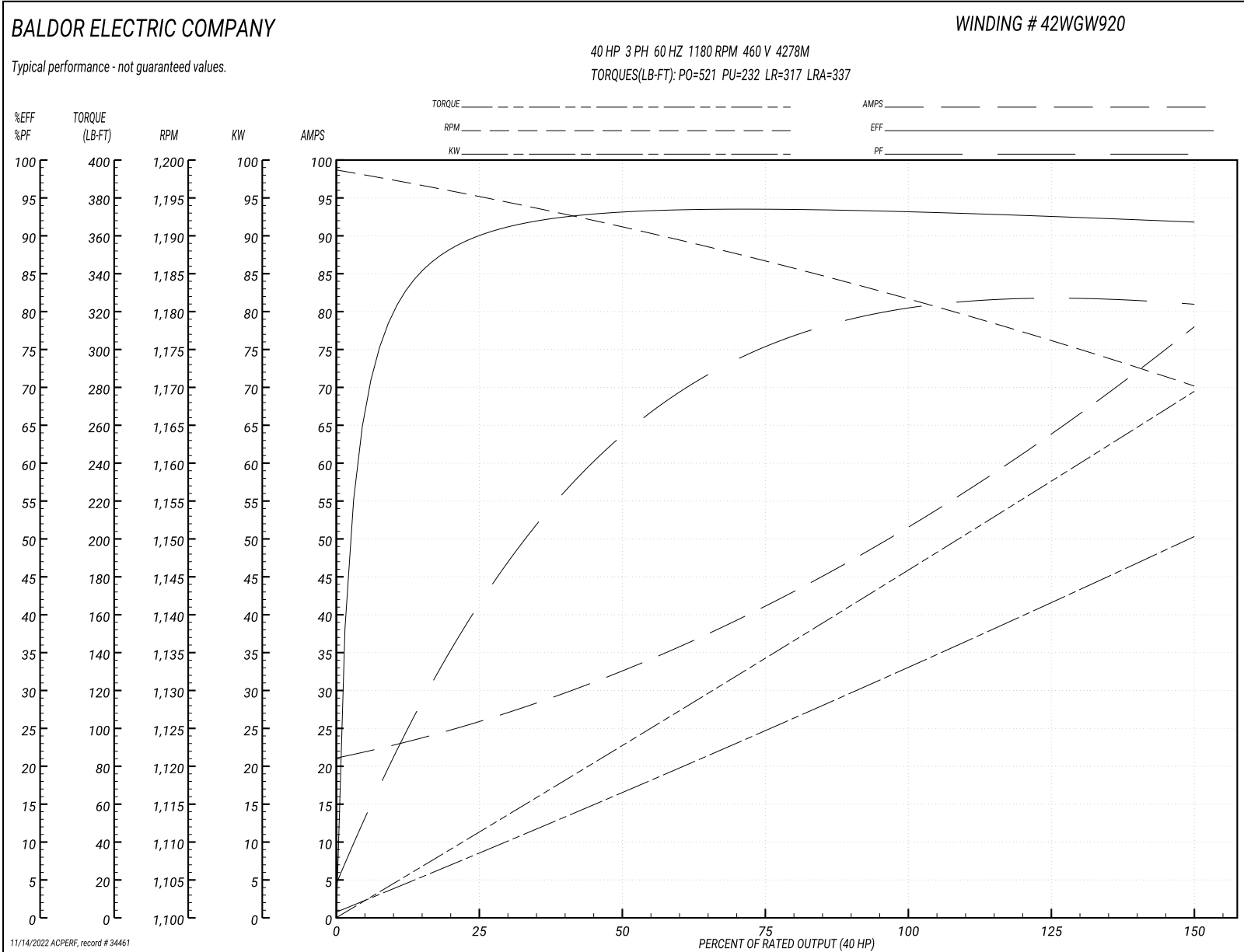
Typical performance - not guaranteed values

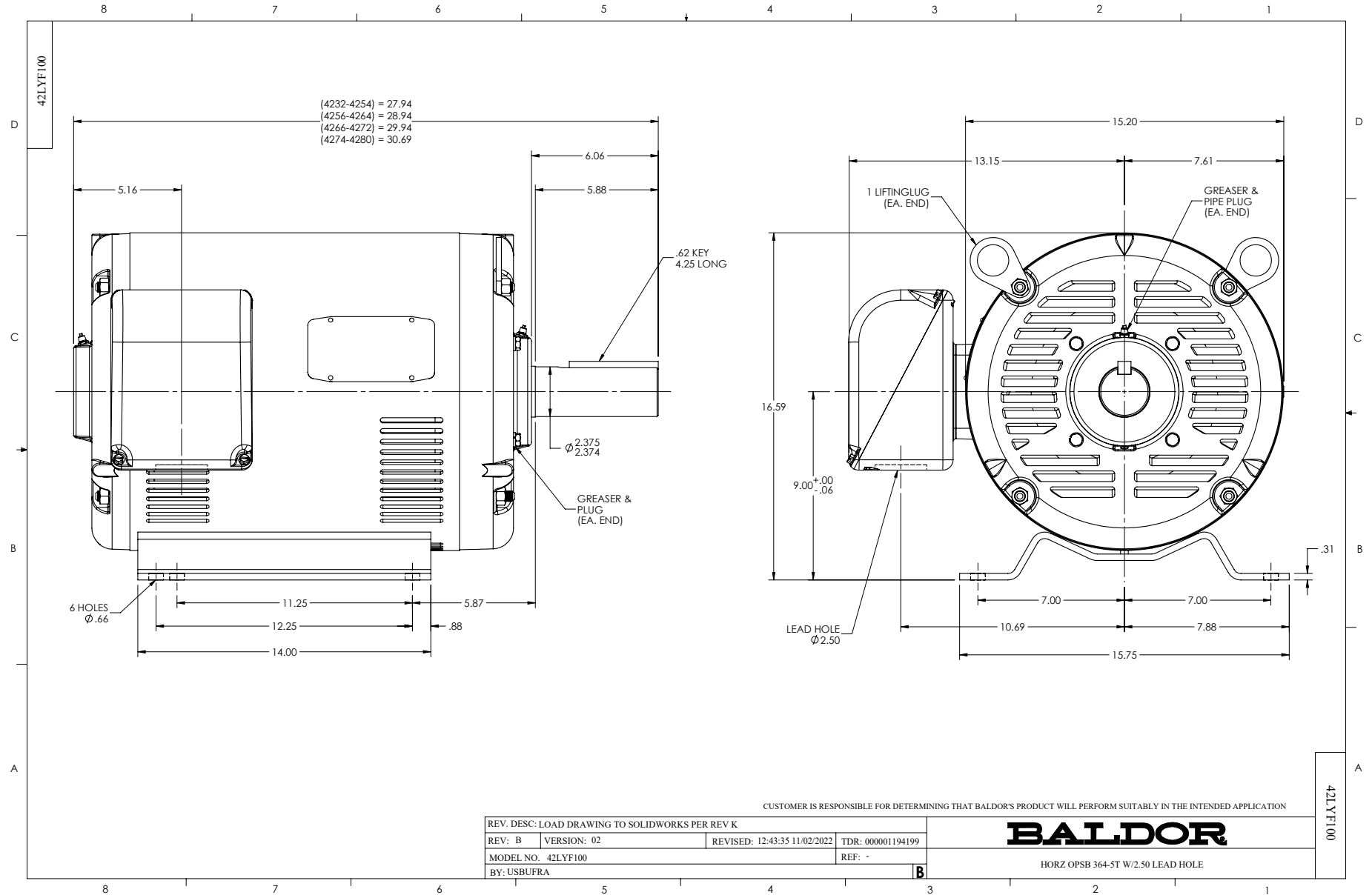
Winding: 42WGW920-R001		Type: 4278M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	40	Full Load Torque	178 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	104/51	Breakdown Torque	521 LB-FT		
R.P.M.	1180	Pull-up Torque	232 LB-FT		
Hz	60 Phase	Locked-rotor Torque	317 LB-FT		
NEMA Design Code	A KVA Code	Starting Current	337 A		
Service Factor (S.F.)	1.15	No-load Current	21.9 A		
NEMA Nom. Eff.	94.1 Power Factor	Line-line Res. @ 25°C	0.154 Ω		
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	41°C		
S.F. Amps		Temp. Rise @ S.F. Load	50°C		
		Locked-rotor Power Factor	28		
		Rotor inertia	14.9 LB-FT ²		

Load Characteristics 460 V, 60 Hz, 40 HP

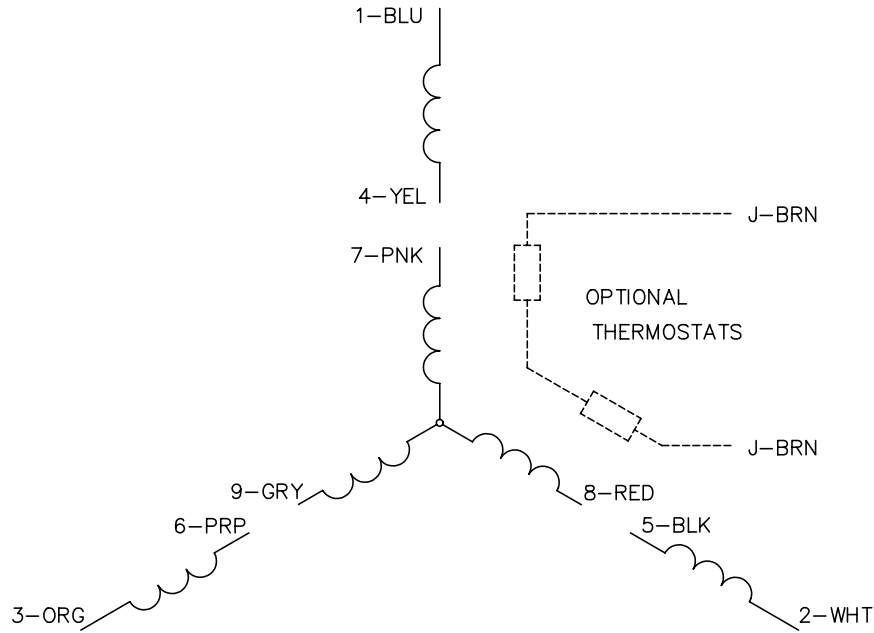
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	64	74	79	81	82	80
Efficiency	89.3	93.1	94.1	94.1	93.3	92.2	93.6
Speed	1195	1191	1187	1183	1177	1170	1179
Line amperes	24.8	31.6	40.5	50.9	62.2	77.5	57.7

Performance Graph at 460V, 60Hz, 40.0HP Typical performance - Not guaranteed values

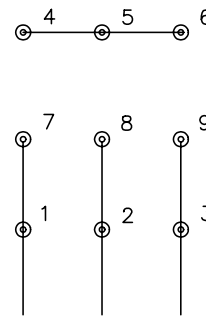




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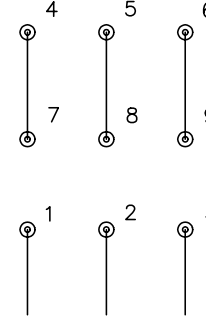


LOW VOLTAGE
(2Y)



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
90000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005

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