

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EM3156T**

**1HP,1150RPM,3PH,60HZ,145T,3524M,OPSB,F1**

Part Detail							
Revision:	U	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGM850	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35L405	Layout:	35LYL405	Poles:	06	Created Date:	08-02-2010
Base:	RG	Eff. Date:	01-30-2018	Leads:	9#18		

Specs			
Catalog Number:	EM3156T	Heater Indicator:	No Heater
Enclosure:	OPSB	Insulation Class:	F
Frame:	145T	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	J
Output @ Frequency:	1.000 HP @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 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:	3524M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	64
	CSA	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

<b>Current @ Voltage:</b>	1.800 A @ 460.0 V	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
	3.600 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
	3.600 A @ 230.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	B	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	None

<b>Nameplate NP1259LUA</b>										
<b>CAT.NO.</b>	EM3156T									
<b>SPEC.</b>	35L405M850G1									
<b>HP</b>	1									
<b>VOLTS</b>	230/460									
<b>AMPS</b>	3.6/1.8									
<b>R.P.M.</b>	1155									
<b>FRAME</b>	145T				<b>HZ</b>	60			<b>PH</b>	3
<b>SER.F.</b>	1.15		<b>CODE</b>	J	<b>DES</b>	B		<b>CLASS</b>	F	
<b>NEMA NOM. EFF.</b>	82.5			<b>P.F.</b>	64					
<b>RATING</b>	40C AMB-CONT									
<b>CC</b>	010A				<b>USABLE AT 208V</b>			3.6		
<b>DE</b>	6205				<b>ODE</b>	6203				
<b>ENCL</b>	OPSB		<b>SN</b>							
<b>USABLE AT</b>	50HZ 1HP 190/380V 4/2A									
									SF1.0	

Parts List		
Part Number	Description	Quantity
SA200555	SA 35L405M850G1	1.000 EA
RA187867	RA 35L405M850G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
51XB1016A06	10-16X3/8 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3209A00	MASTER ODE,203 BRG,GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3210A00	MASTER DE,205 BRG,1.000SH,GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A45	THRUBOLT 10-32 X 8.875	4.000 EA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS TDR	2.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1259LUA	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

<b>Accessories</b>		
<b>Part Number</b>	<b>Description</b>	<b>Multiplier</b>
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

**AC Induction Motor Performance Data**

Record # 53336

Typical performance - not guaranteed values

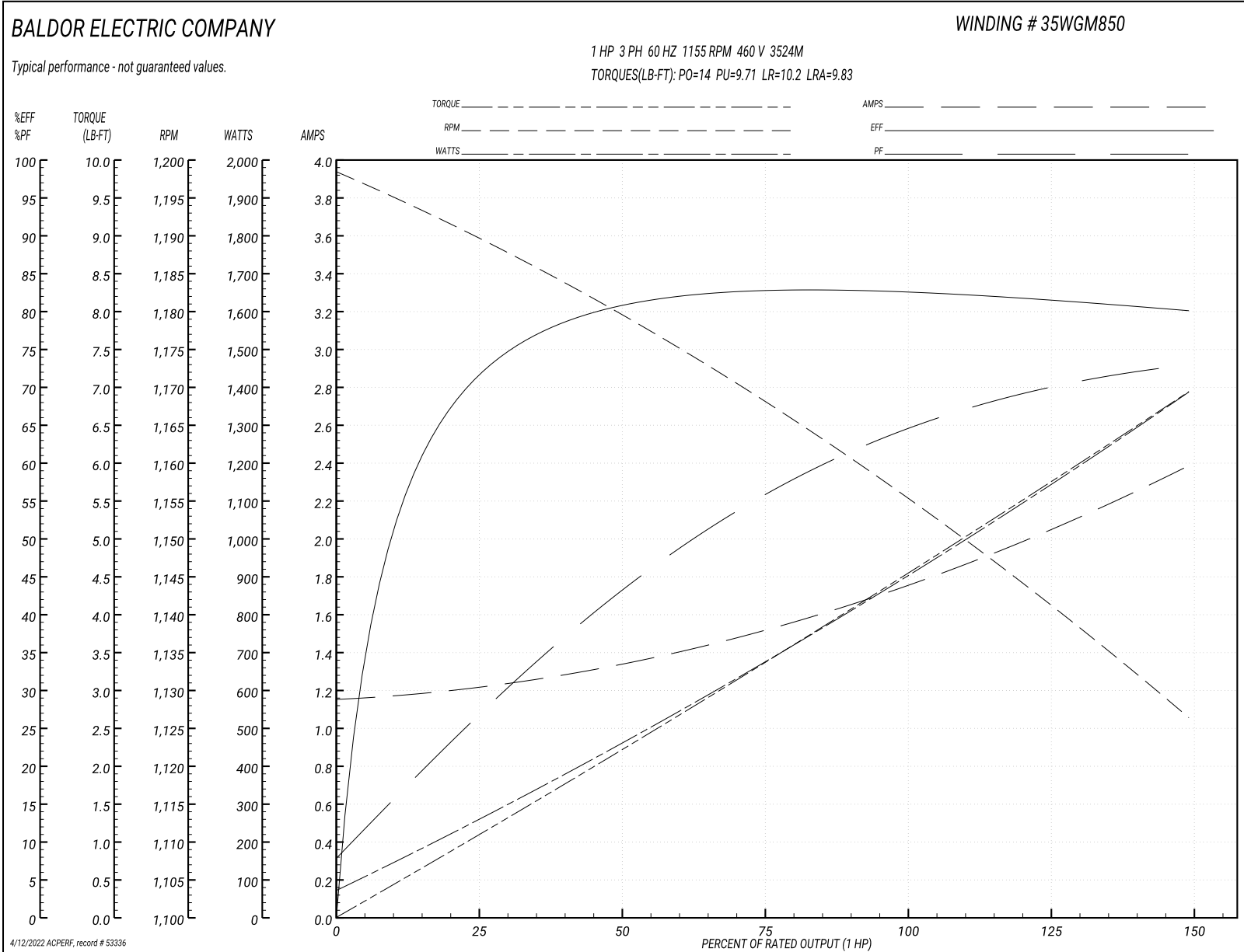
<b>Winding: 35WGM850-R015</b>		<b>Type: 3524M</b>		<b>Enclosure: OPSB</b>		
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>			
<b>Rated Output (HP)</b>	1	<b>Full Load Torque</b>	4.5 LB-FT			
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line			
<b>Full Load Amps</b>	3.6/1.8	<b>Breakdown Torque</b>	14 LB-FT			
<b>R.P.M.</b>	1155	<b>Pull-up Torque</b>	9.71 LB-FT			
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	10.2 LB-FT		
<b>NEMA Design Code</b>	<b>B KVA Code</b>	J	<b>Starting Current</b>	9.83 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	1.16 A			
<b>NEMA Nom. Eff.</b>	82.5	<b>Power Factor</b>	64	<b>Line-line Res. @ 25°C</b>	16.79 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	34°C		
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	42°C		
			<b>Locked-rotor Power Factor</b>	42		
			<b>Rotor inertia</b>	0.143 LB-FT <sup>2</sup>		

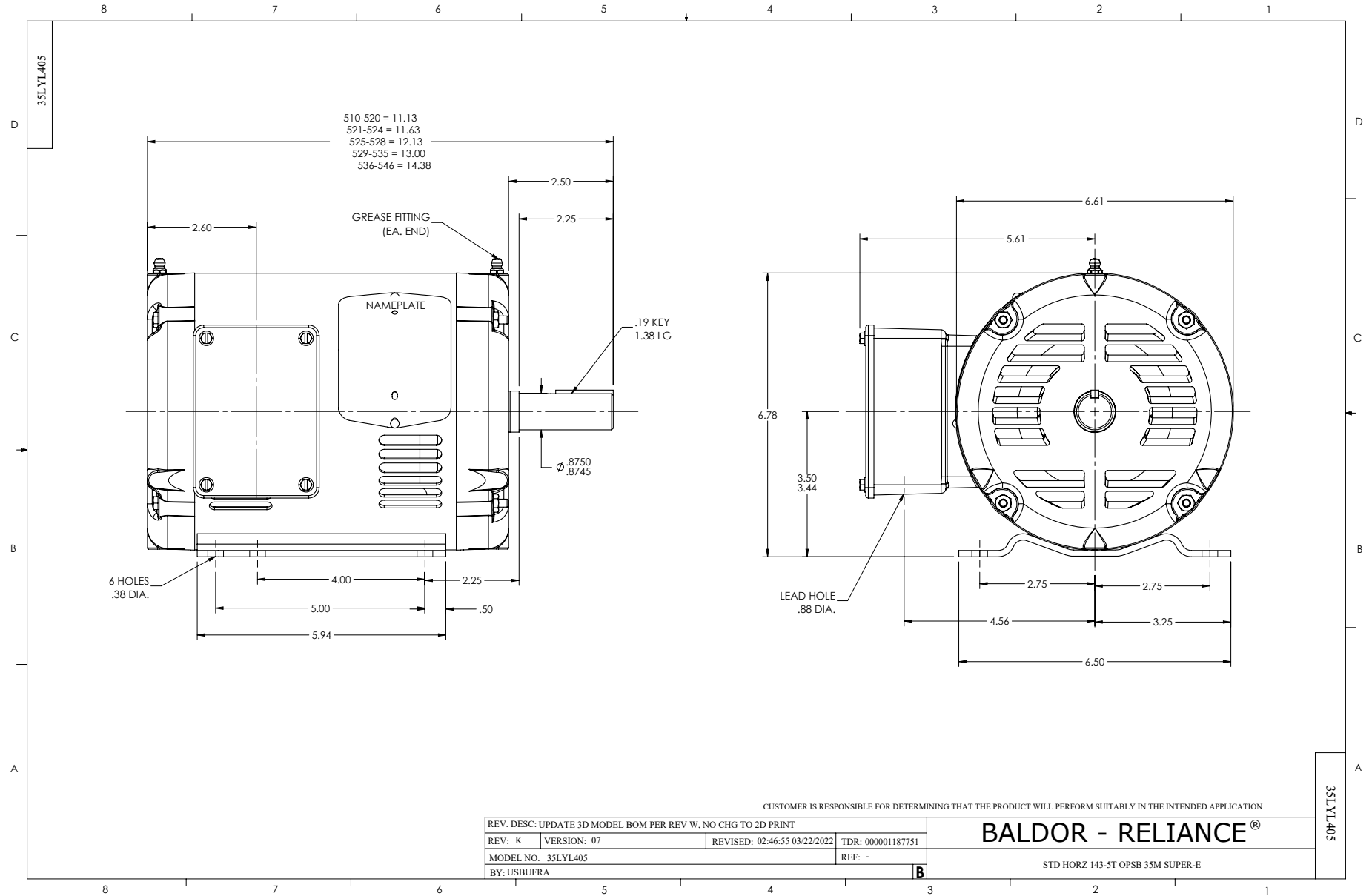
**Load Characteristics 460 V, 60 Hz, 1 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	27	44	56	64	70	73	68
<b>Efficiency</b>	71.1	80.6	83	83	81.9	80.1	82.3
<b>Speed</b>	1189.4	1178.8	1169	1156.4	1141.6	1126.3	1148
<b>Line amperes</b>	1.21	1.33	1.51	1.76	2.04	2.38	1.93

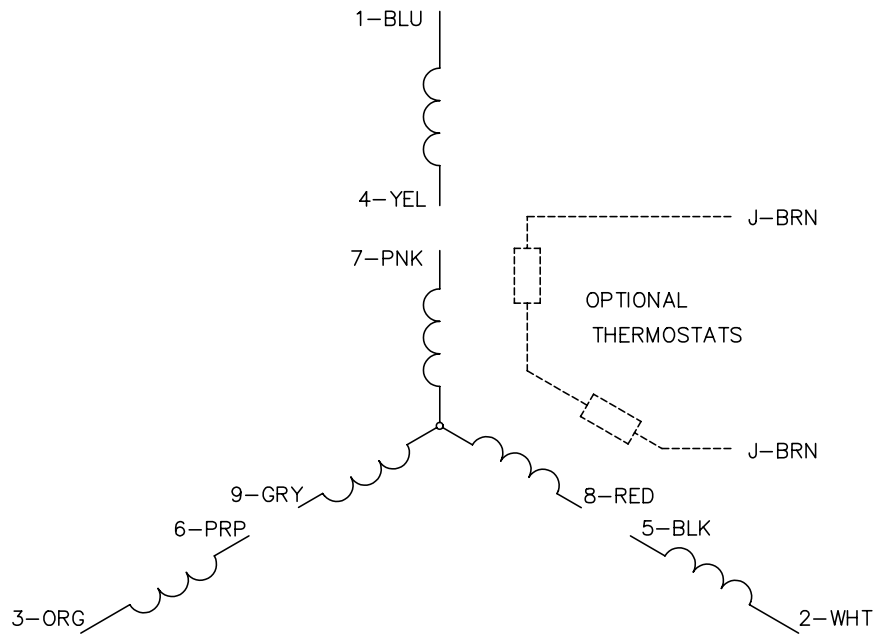


Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values

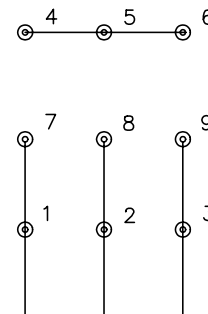




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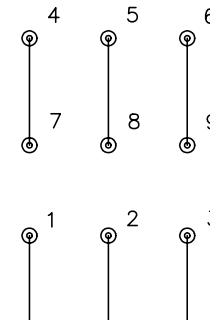


LOW VOLTAGE  
(2Y)



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

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