BALDOR • RELIANCE

Product Information Packet

EM3155T-BG

2HP,3450RPM,3PH,60HZ,143T,3524M,OPSB,F1

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Part Detail

Revision:	M	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	35WGQ054	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	35E2261	**Layout:**	35LYE2261	**Poles:**	02	**Created Date:**	10-30-2013
Base:	RG	**Eff. Date:**	06-11-2018	**Leads:**	9#18		

Specs

Catalog Number:	EM3155T-BG	**Insulation Class:**	H
Enclosure:	OPSB	**Inverter Code:**	Inverter Ready
Frame:	143T	**KVA Code:**	K
Frame Material:	Steel	**Lifting Lugs:**	No Lifting Lugs
Output @ Frequency:	2.000 HP @ 60 HZ	**Locked Bearing Indicator:**	Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	**Motor Lead Quantity/Wire Size:**	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	**Motor Lead Exit:**	Ko Box
	230.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	3524M
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	UR	**Power Factor:**	87
	CSA EEV	**Product Family:**	General Purpose
	CSA	**Pulley End Bearing Type:**	Ball
Auxillary Box:	No Auxillary Box	**Pulley Face Code:**	Standard
Auxillary Box Lead Termination:	None	**Pulley Shaft Indicator:**	Standard
Base Indicator:	Rigid	**Rodent Screen:**	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	**RoHS Status:**	ROHS COMPLIANT
Blower:	None	**Shaft Extension Location:**	Pulley End

Current @ Voltage:	2.500 A @ 460.0 V	**Shaft Ground Indicator:**	Shaft Grounding
	5.000 A @ 230.0 V	**Shaft Rotation:**	Reversible
	5.600 A @ 208.0 V	**Shaft Slinger Indicator:**	No Slinger
Design Code:	B	**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 (OLD)
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 NP3553L

CAT.NO.	EM3155T-BG							
SPEC	35E2261Q054G1							
HP	2							
VOLTS	230/460							
AMPS	5/2.5							
RPM	3450							
FRAME	143T	**HZ**	60			**PH**	3	
SF	1.15	**CODE**	K	**DES**	B	**CLASS**	H	
NEMA NOM. EFF	85.5	**PF**	87					
RATING	40C AMB-CONT							
CC	010A			**USABLE AT 208V**	5.6			
ENCL	OPSB	**SER**						
DE	6205	**ODE**	6203					
VPWM INVERTER READY								
CT30-60(2:1) VT3-60(20:1)								

Parts List

Part Number	Description	Quantity
SA271992	SA 35E2261Q054G1	1.000 EA
RA258611	RA 35E2261Q054G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3209G00	MASTER ODE,203 BRG	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3210C00	MASTER DE,205 BRG,1.000SH,LCK BRG	1.000 EA
51XN1032A18	10-32 X 1 1/8 HX WS SL SR (ESKAY)	2.000 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
LB1508	LABEL "SHAFT GROUNDING BRUSH" 1.50 X .81	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	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
35AD2016A01	BAFFLE PLATE,MOD 35 OPSB-INT SHAFT GRD	1.000 EA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
LB1119N	WARNING LABEL	1.000 EA

Parts List (continued)

Part Number	Description	Quantity
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
NP3553L	ALUM SUPER-E VPWM INVERTER READY UL CSA-	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 53133 - Typical performance - not guaranteed values

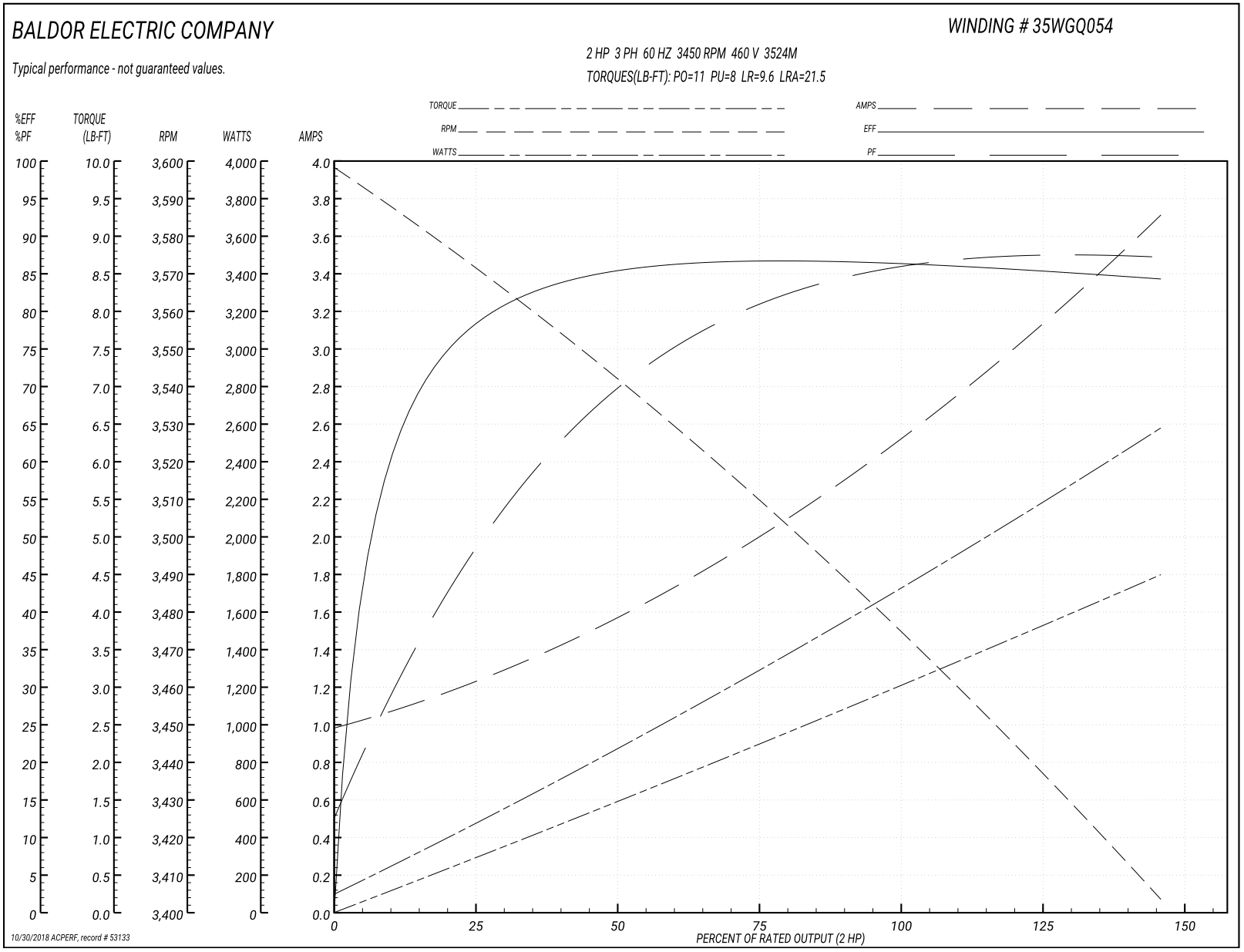
Winding: 35WGQ054-R009	**Type:** 3524M	**Enclosure:** OPSB

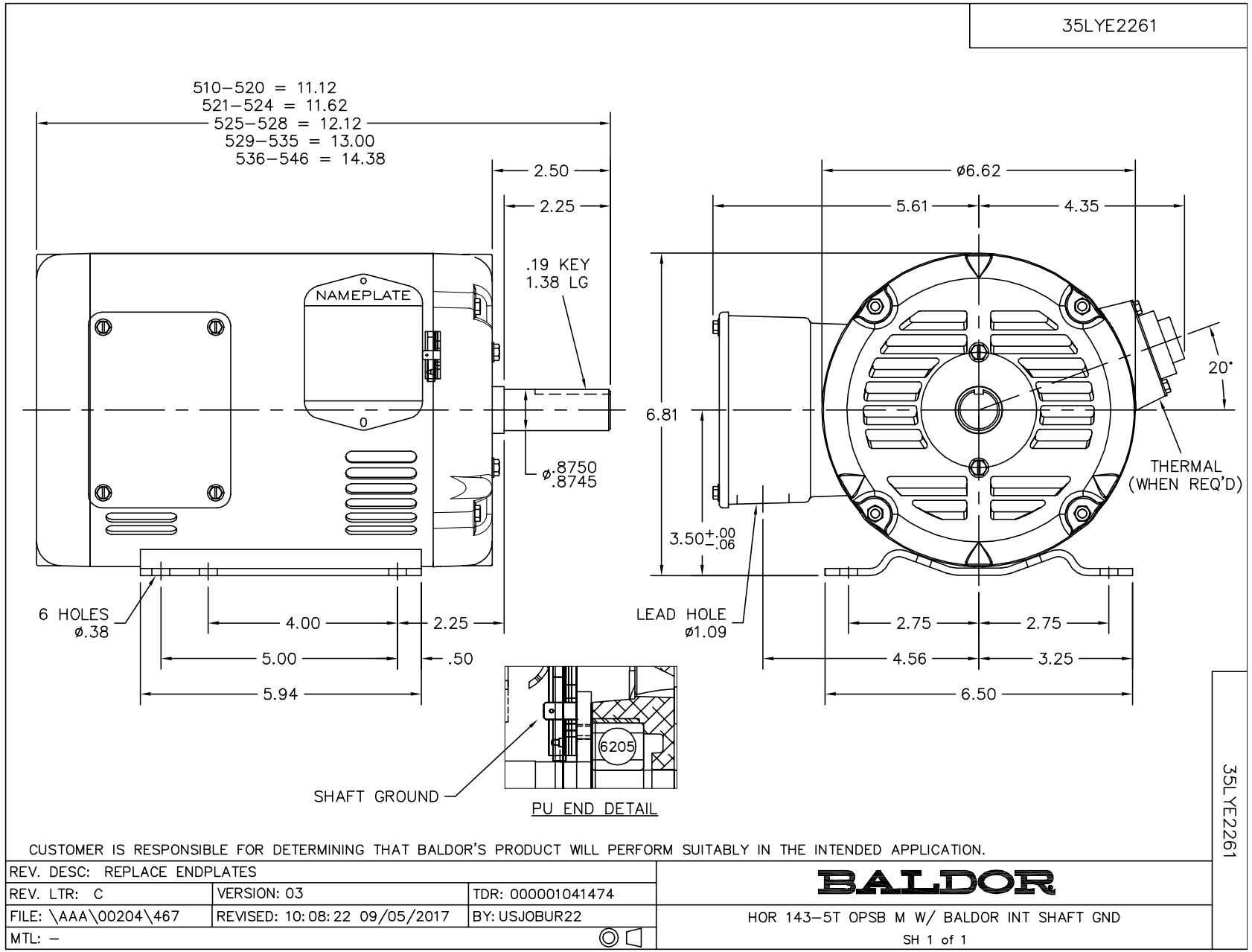
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	3 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	5/2.5			Breakdown Torque	11 LB-FT
R.P.M.	3450			Pull-up Torque	8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	9.6 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	21.5 A
Service Factor (S.F.)	1.15			No-load Current	1 A
NEMA Nom. Eff.	85.5	Power Factor	87	Line-line Res. @ 25ºC	7.37 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	31°C
S.F. Amps				Temp. Rise @ S.F. Load	37°C
				Locked-rotor Power Factor	53.6
				Rotor inertia	0.0657 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

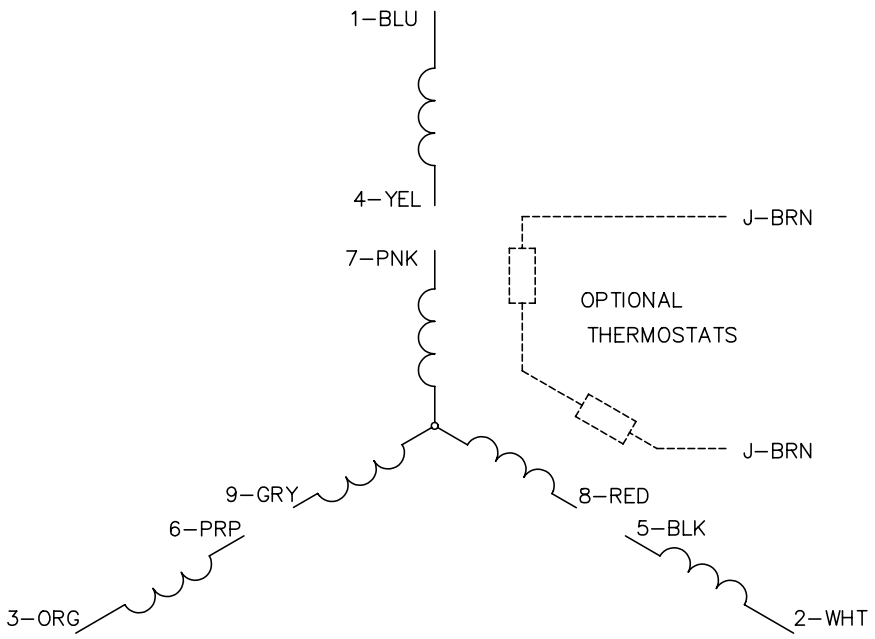
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	70	81	86	87	88	87
Efficiency	78.3	85.2	86.9	86.5	85.6	84.2	86
Speed	3570	3541	3510	3476	3441	3403	3455
Line amperes	1.2	1.6	2	2.5	3.1	3.7	2.86

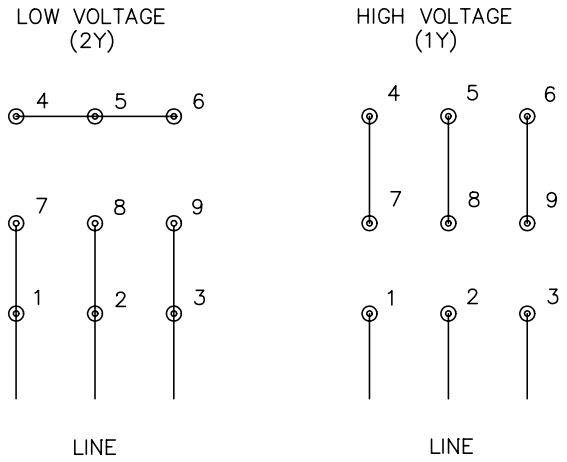
Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values




35LYE2261
510–520 = 11.12
521–524 = 11.62
525–528 = 12.12
529–535 = 13.00
536–546 = 14.38
2.50
2.25
.19 KEY
1.38 LG
NAMEPLATE
ø.8750
.8745
6 HOLES
ø.38
4.00
2.25
5.00
.50
5.94
ø6.62
5.61
4.35
6.81
20°
THERMAL
(WHEN REQ'D)
3.50 +.00 −.06
LEAD HOLE
ø1.09
2.75
2.75
4.56
3.25
6.50
6205
SHAFT GROUND
PU END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REPLACE ENDPLATES
REV. LTR: C
VERSION: 03
TDR: 000001041474
FILE: \AAA\00204\467
REVISED: 10:08:22 09/05/2017
BY: USJOBUR22
MTL: –
BALDOR
HOR 143–5T OPSB M W/ BALDOR INT SHAFT GND
SH 1 of 1
35LYE2261

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS