ABB BALDOR RELIANCE

Customer information packet

EBM3211T

3HP, 1760RPM, 3PH, 60HZ, 182T, 3628M, OPEN, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/1/2026 7:24:36 PM

Specifications

Enclosure	OPEN
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.300 A @ 460.0 V
	8.500 A @ 208.0 V
	8.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.3 a

Part Detail

Revision	A
Type	AC
Mech. spec.	36B021
Base	
Status	PRD/A
Elec. spec.	36WGZ649
Layout	36LYB021
Eff. date	01-08-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	11-05-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.61 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1259L											
CAT.NO.	EBM3211T										
SPEC.	36B021Z649										
HP	3										
VOLTS	230/460										
AMP	8.6/4.3										
RPM	1760										
FRAME	182T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F				
NEMA-NOM-EFF	89.5	**PF**	78								
RATING	40C AMB-CONT										
CC	010A										
DE	6206		**ODE**	6205							
ENCL	OPEN	**SN**									
	SFA 9.5/4.7										

Parts List

Part number	Description	Quantity
SA442972	SA 36B021Z649	1.000 ea
RA435468	RA 36B021Z649	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP1403A18	FR EP, FACE OPEN W/BRAKE W/O TIGHTSLEEVE	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3205D00	MASTER DE,206 BRG,1.197SH,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW2501D08	KEY, 3/16 SQ X .875 AUTO	1.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
84XN3816J28	HEX SOC HD, 3/8-16 X 1.75 LONG	2.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
HA3101A45	THRUBOLT- 1/4-20 X 11.126	4.000 ea
76BK4100DQF	1-056-041-00-DQF BRAKE TDR# 79345	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1259L	ALUM SUPER-E UL CC NEMA PREMIUM A60	1.000 ea
G7PA1000	PKG GRP, PRINT PK1034A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 115739
Typical performance - not guaranteed values

Winding: 36WGZ649-R001	**Type:** 3628M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	8.953 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8.6/4.3	**Breakdown Torque**	35.1 LB-FT
R.P.M.			1760	**Pull-up Torque**	19.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21.2 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	30.9 A
Service Factor (S.F.)			1.15	**No-load Current**	2.49 A
NEMA Nom. Eff.	89.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	4.2111 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	25°C
S.F. Amps			9.6/4.8	**Temp. Rise @ S.F. Load**	30°C
				Locked-rotor Power Factor	44.1

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	52	66	73	78	81	76
Efficiency	82.9	88.8	90.2	90.1	89.4	88.2	89.7
Speed	1791.6	1783	1773.2	1763.4	1753.4	1742	1757
Line amperes	2.65	3.04	3.59	4.26	5.03	5.89	4.72

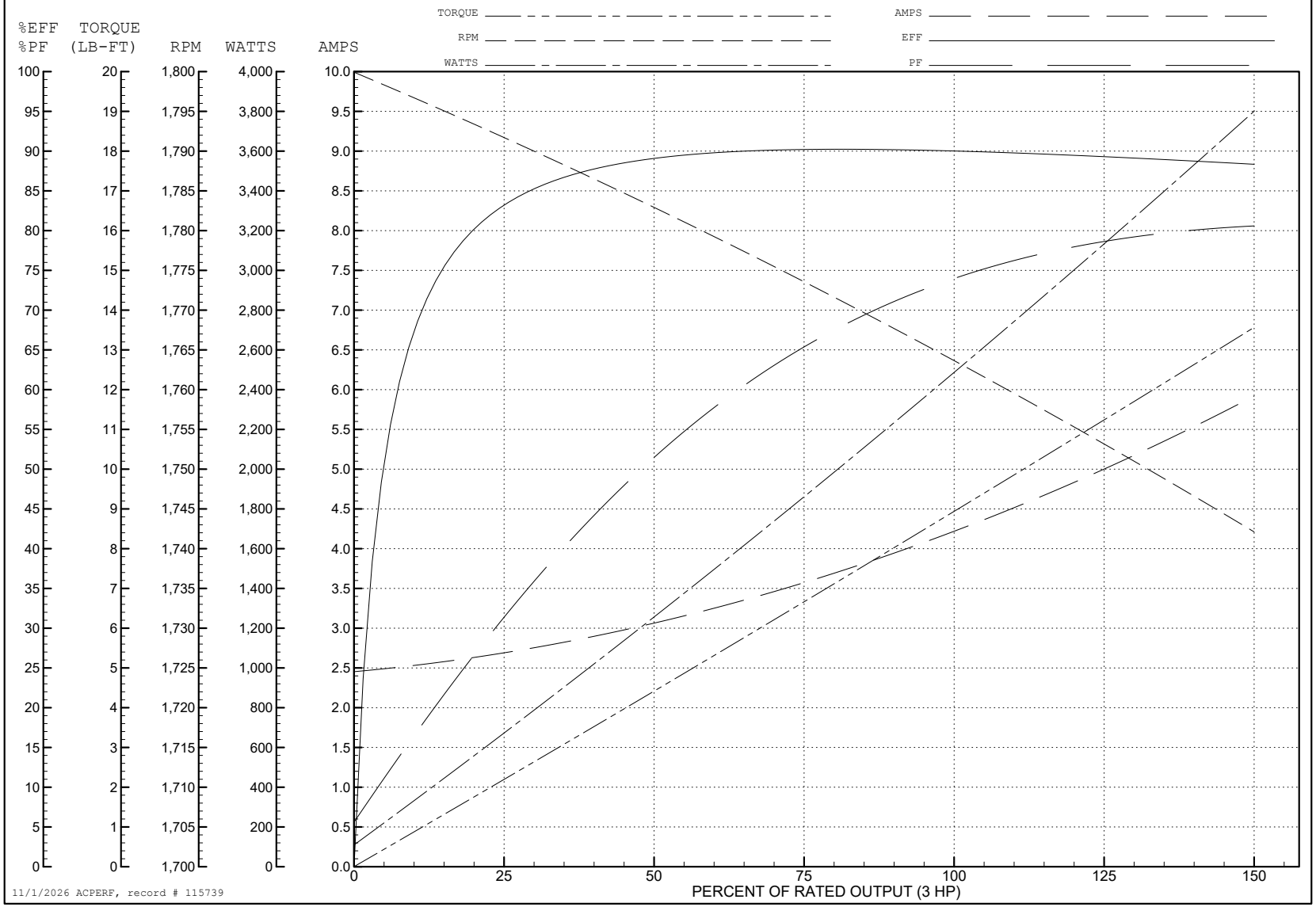
ABB Motors and Mechanical Inc.

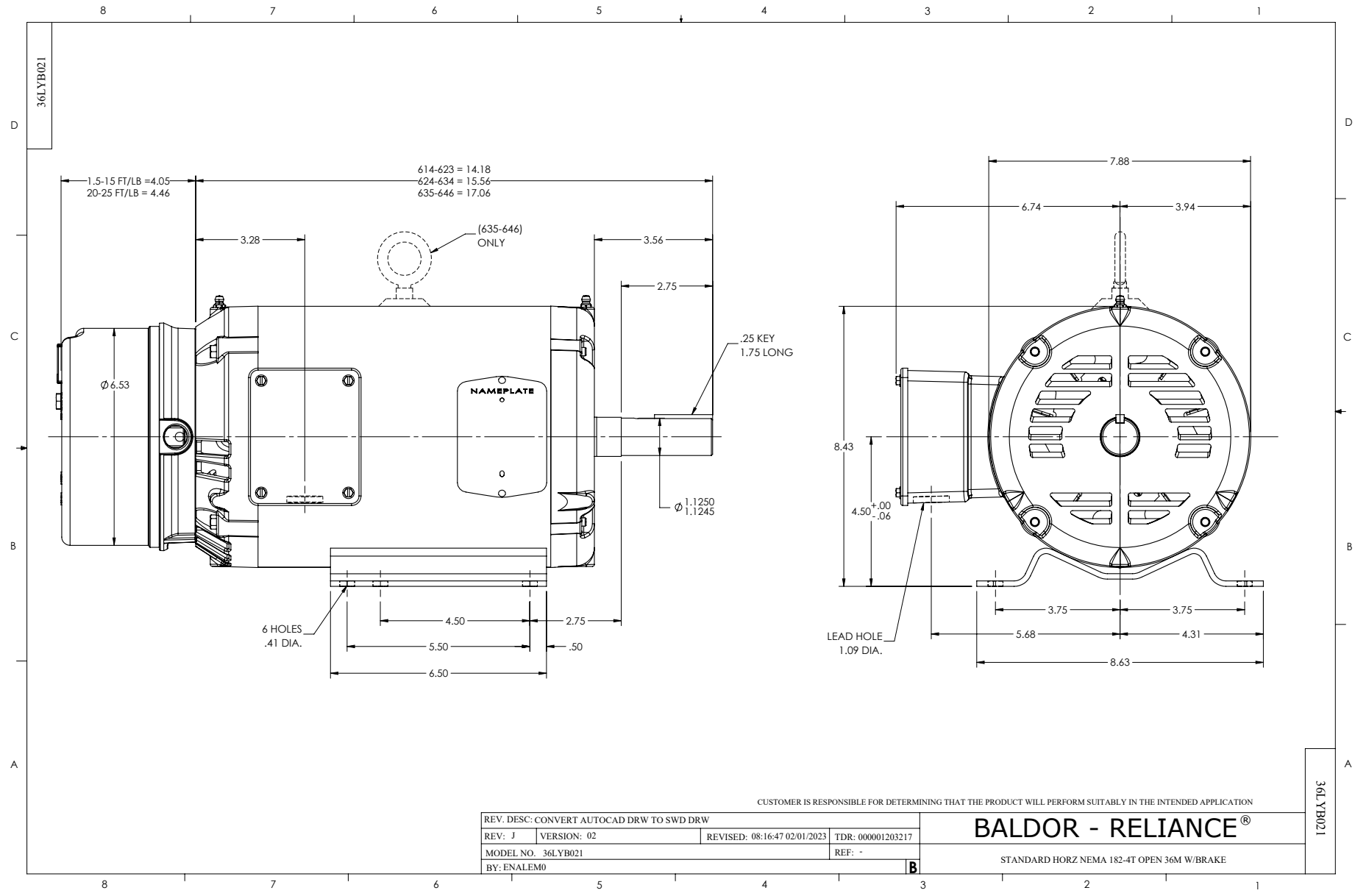
WINDING # 36WGZ649

3 HP 3 PH 60 HZ 1760 RPM 460 V 3628M

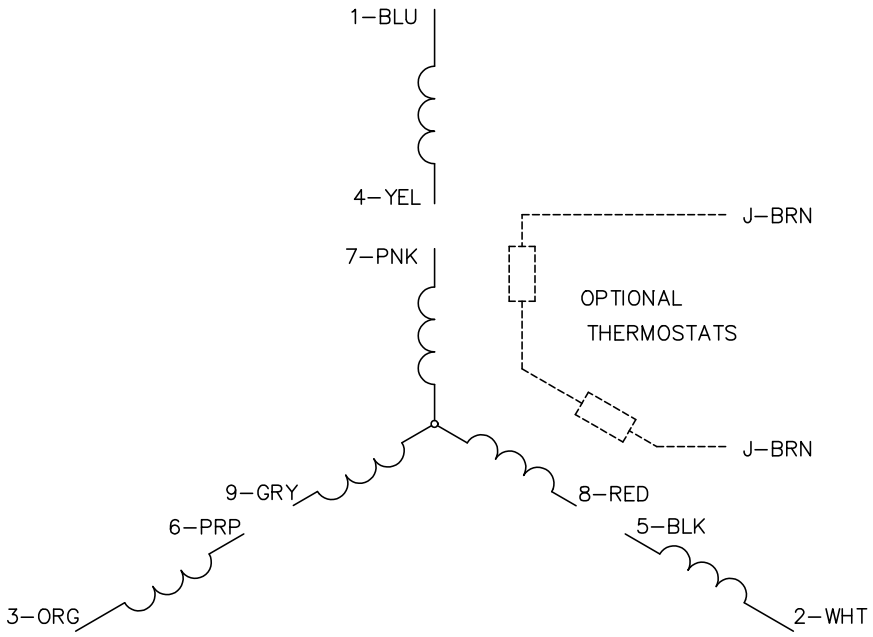
Typical performance - not guaranteed values.

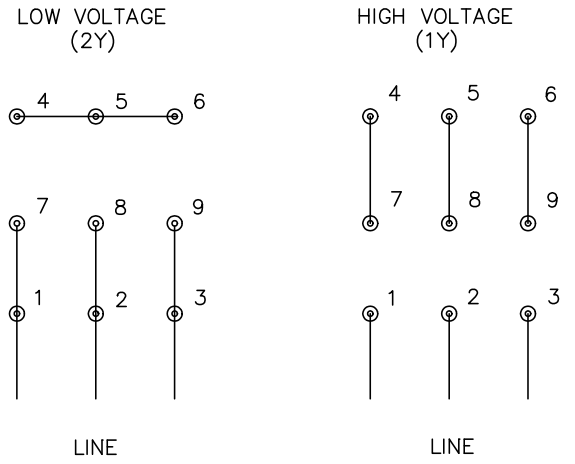
TORQUES(LB-FT): PO=35.1 PU=19.1 LR=21.2 LRA=30.9




36LYB021
1.5-15 FT/LB =4.05
20-25 FT/LB = 4.46
614-623 = 14.18
624-634 = 15.56
635-646 = 17.06
3.28
(635-646)
ONLY
3.56
2.75
.25 KEY
1.75 LONG
Ø 6.53
NAMEPLATE
Ø 1.1250
1.1245
6 HOLES
.41 DIA.
4.50
2.75
5.50
.50
6.50
7.88
6.74
3.94
8.43
4.50 +.00 -.06
3.75
3.75
LEAD HOLE
1.09 DIA.
5.68
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: J
VERSION: 02
REVISED: 08:16:47 02/01/2023
TDR: 000001203217
MODEL NO. 36LYB021
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STANDARD HORZ NEMA 182-4T OPEN 36M W/BRAKE
36LYB021

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