

ABB BALDOR RELIANCE III

Customer information packet

EM4107T-8

44M 2P TEFC HOR 284TS SE

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA PREMIUM (OLD LOGO) CURUSEEV
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	64.000 A @ 208.0 V 66.000 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	66.0 a
Insulation Class	F

Part Detail

Revision	M
Type	AC
Mech. spec.	09F629
Base	
Status	PRD/A
Elec. spec.	09WGT586
Layout	09LYF629
Eff. date	06-16-2026
CD Diagram	CD0695
Poles	02
Leads	6#6
Proprietary	False
Created date	08-21-2019

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.77 IN
Power Factor	88
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	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3515 rpm
Speed Code	Single Speed
Starting Method	Part Winding
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3443L													
CAT.NO.	EM4107T-8				CUST. P/N				ENCL				TEFC
SPEC.	09F629T586G1		CC	010A	FRAME	284TS		SER.NO.					
HP	25			CLASS	F	HZ	60						
R.P.M.	3515			PH	3	DES	A						
VOLTS	200				CODE	H		ODE BRG	6208	DE BRG	6311		
AMPS	66												
RATING	40C AMB-CONT			NEMA NOM. EFF.				91.7		GREASE	POLYREX EM		
P.F.	88	SER.F.	1.15		VPWM INVERTER READY								
HTR-VOLTS	HTR-AMPS		HTR-WATTS										

Parts List

Part number	Description	Quantity
SA373246	SA 09F629T586G1	1.000 ea
RA363030	RA 09F629T586G1	1.000 ea
37FN3002B02	EXFN, PLASTIC, 7.50 OD, 1.503 ID	1.000 ea
HW3201A01	1/2-13 EYEBOLT	1.000 ea
HW1002A63	WASHER, 5/8 HI-COLLAR SPRCKWASHER	1.000 ea
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 ea
09GS1000	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
09EP1116A32	PUEP MACH W/"O" DRAIN	1.000 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
09EP1100A208	ENDPLATE, MACH	1.000 ea
HA3400A33	STUD- 3/8-16 X 4.96 HEX	4.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
10XN3816K32	BOLT, 3/8-16X2 HH YZ(5)	4.000 ea
09FH4000SP	309 FH - BLACK PRIMER	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
10CB3500SP	CONDUIT BOX LID, CAST	1.000 ea
10GS1000	GASKET, CONDUIT BOX LID	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 ea
HW2501G17	KEY, 3/8 SQ X 1.875	1.000 ea
HW4500A05	1669B ALEM/UNIV860 GR FTG X	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 ea

HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0695	CONNECTION LABEL	1.000 ea
NP3443L	SS SUPER-E,INV RED,CURUS EEV,NEMA PREM,C	1.000 ea
40PA1005	PACKAGING GROUP, 09 STD	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LD7020G06	LEAD SET, 6AWG, 6 LEAD, 20" LONG LEADS	1.000 ea
FE-0000013	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
09-1310	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 78305

Typical performance - not guaranteed values

Winding: 09WGT586-R001				Type: 0944M		Enclosure: TEFC	
Nameplate Data				200 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		25		Full Load Torque		37.39 LB-FT	
Volts		200		Start Configuration		direct on line	
Full Load Amps		66		Breakdown Torque		139 LB-FT	
R.P.M.		3515		Pull-up Torque		52.41 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		67.2 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		461 A
Service Factor (S.F.)		1.15		No-load Current		19.52 A	
NEMA Nom. Eff.		91.7	Power Factor	88	Line-line Res. @ 25°C		0.0644 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		75°C	
S.F. Amps				Temp. Rise @ S.F. Load		93°C	
				Locked-rotor Power Factor		29.1613	
				Rotor inertia		1.12 lb-ft²	

Load Characteristics 200 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	81	87	90	90	90	90
Efficiency	88.3	91.8	92.2	91.7	90.7	89.5	91.1
Speed	3579	3559	3540	3518	3494	3468	3504
Line amperes	25.28	36.7	50.52	65.58	82.26	100	75.6

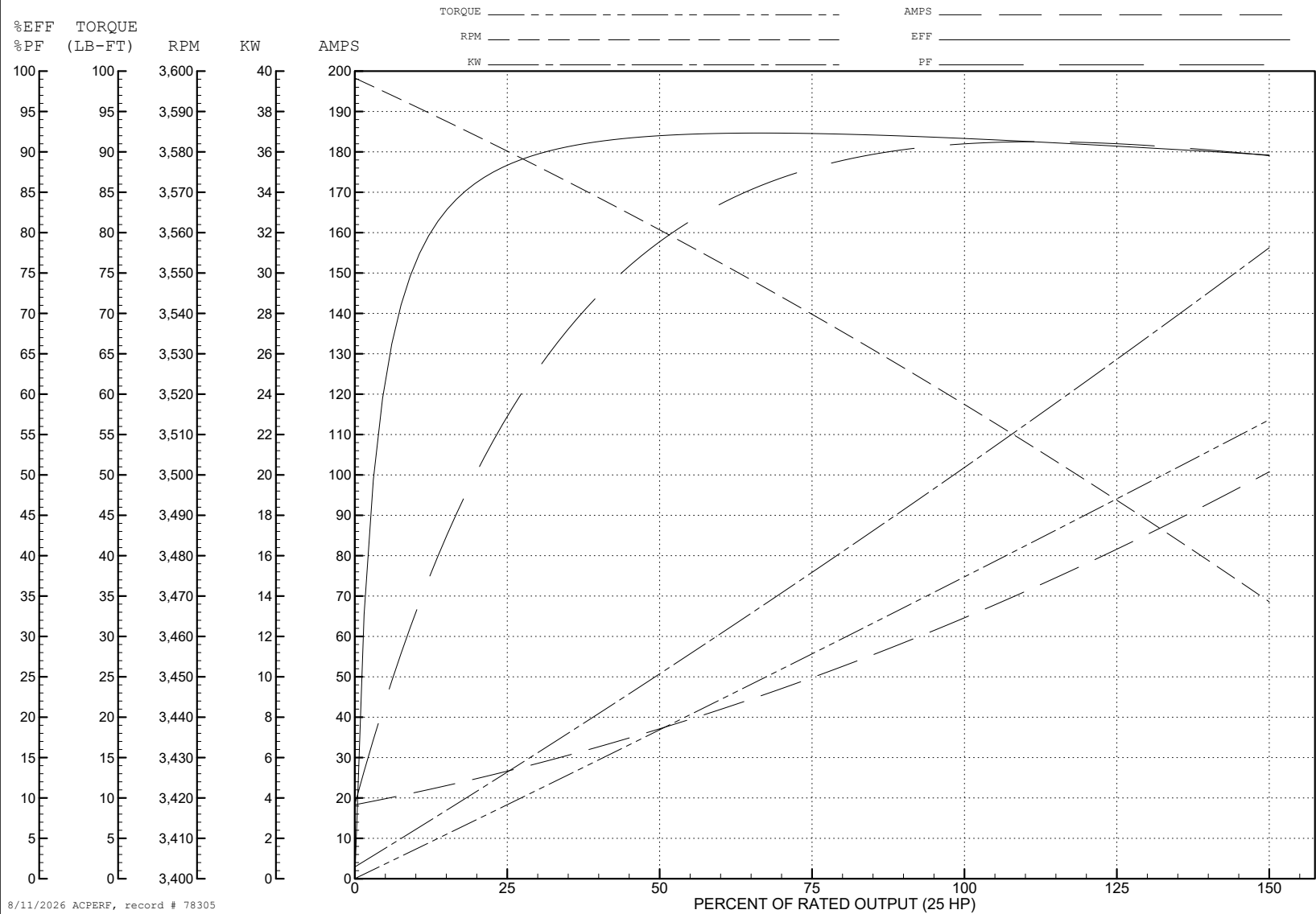
ABB Motors and Mechanical Inc.

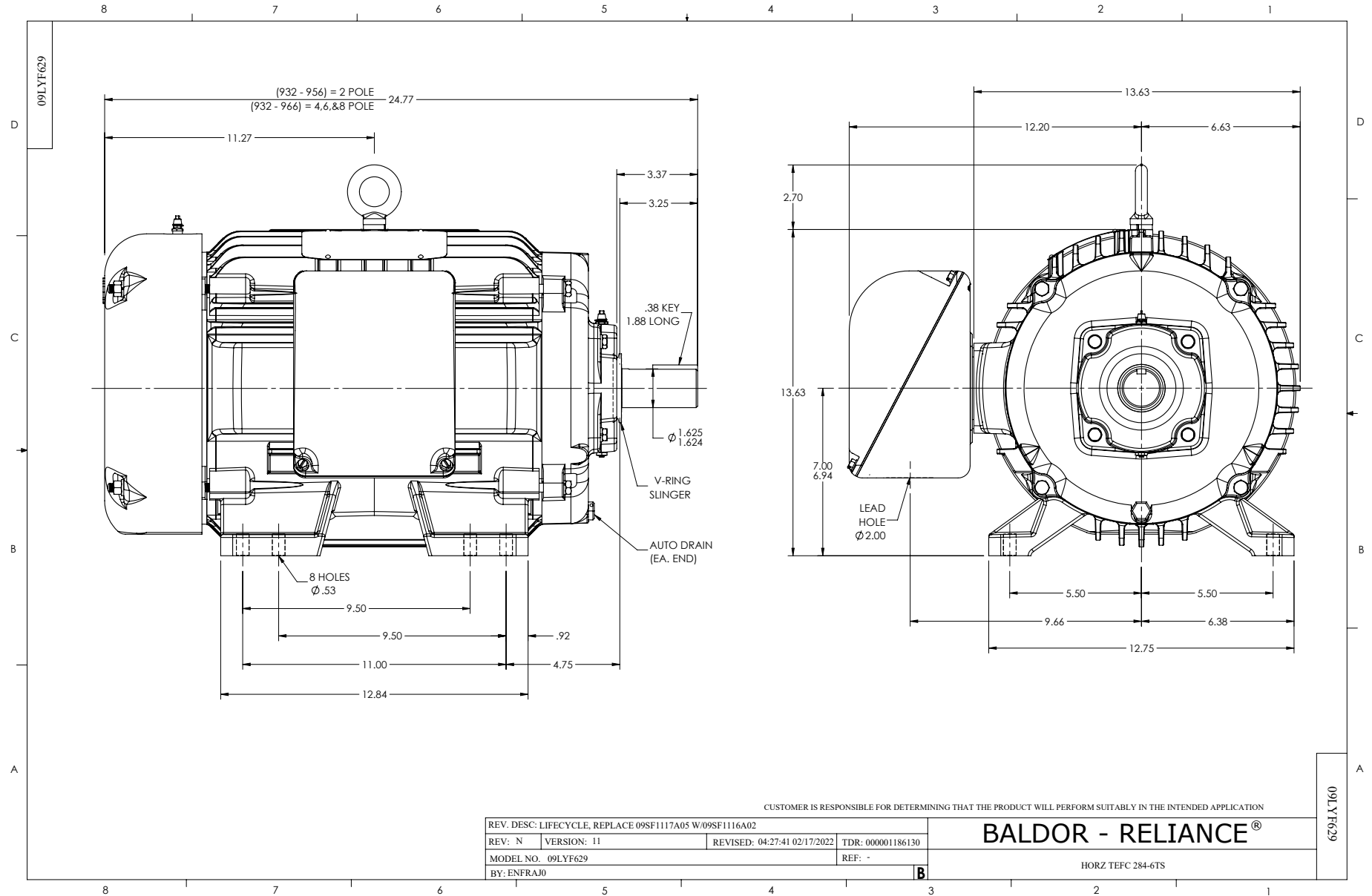
WINDING # 09WGT586

Typical performance - not guaranteed values.

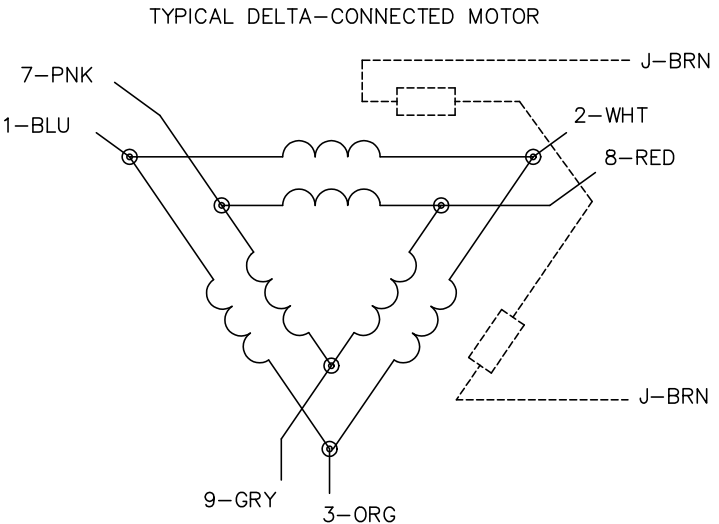
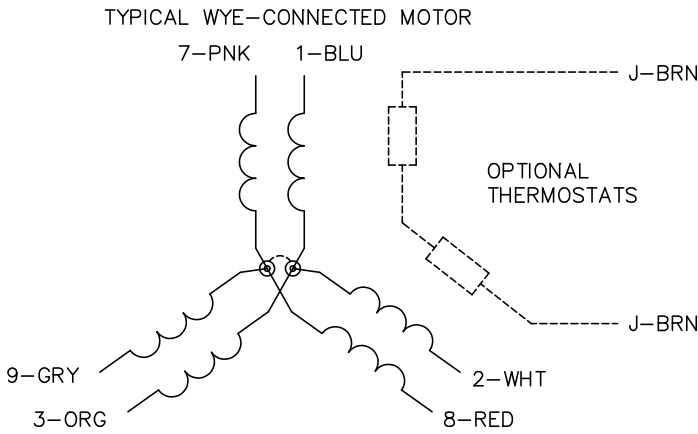
25 HP 3 PH 60 HZ 3515 RPM 200 V 0944M

TORQUES (LB-FT): PO=139 PU=52.41 LR=67.2 LRA=461

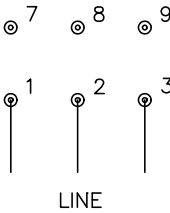




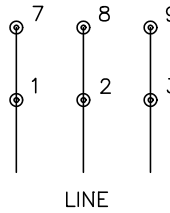
CD0695



START CONNECTION



RUN CONNECTION



- NOTES:
- 1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
 - 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 - 5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: JLP	REVISED: 01/21/99 3:19	TDR: 0171435
S69000		FILE: AAA00005151	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START

CD0695