

BALDOR® • RELIANCE 

Product Information Packet

EM4108T-8

30HP,3520RPM,3PH,60HZ,286TS,0948M,TEFC,F

Part Detail							
Revision:	U	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGZ594	CD Diagram:	CD0695	Mfg Plant:	
Mech. Spec:	09F629	Layout:	09LYF629	Poles:	02	Created Date:	04-27-2010
Base:	RG	Eff. Date:	02-25-2022	Leads:	6#6		

Specs			
Catalog Number:	EM4108T-8	Inverter Code:	Inverter Ready
Enclosure:	TEFC	KVA Code:	H
Frame:	286TS	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Iron	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	30.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 6 AWG
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	200.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	0948M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	91
	CSA EEV	Product Family:	General Purpose
	UR	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)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	76.000 A @ 200.0 V	Shaft Rotation:	Reversible

Design Code:	A	Shaft Slinger Indicator:	Shaft Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Part Winding
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
Insulation Class:	F	Winding Thermal 2:	None

Nameplate NP3443L										
CAT.NO.	EM4108T-8				CUST. P/N				ENCL	TEFC
SPEC.	09F629Z594G1		CC	010A	FRAME	286TS		SER.NO.		
HP	30		CLASS	F	HZ	60				
R.P.M.	3520		PH	3	DES	A				
VOLTS	200		CODE	H	ODE BRG	6208		DE BRG	6311	
AMPS	76		USABLE AT 208V							
RATING	40C AMB-CONT		NEMA NOM. EFF.	91.7		GREASE	POLYREX EM			
P.F.	91		SER.F.	1.15		VPWM INVERTER READY				
HTR-VOLTS			HTR-AMPS			HTR-WATTS				

Parts List		
Part Number	Description	Quantity
SA194172	SA 09F629Z594G1	1.000 EA
RA181762	RA 09F629Z594G1	1.000 EA
37FN3002C02	EXFN, PLASTIC, 6.00 OD, 1.503 ID	1.000 EA
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 EA
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 EA
09GS1000SP	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 EA
09EP1100A14	FREP ASSM, (FOR INTRL ROUTING PURPOSE)	1.000 EA
HA3400A33	STUD- 3/8-16 X 4.82 HEX WELKER	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	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
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 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
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
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
09EP1116A01	PU ENDPLATE, MACH	1.000 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

Parts List (continued)		
Part Number	Description	Quantity
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
10GS1000SP	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
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HW4500A05	1669B ALEM/UNIV860 GR FTG X	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
LD7020G06	LEAD SET, 6AWG, 6 LEAD, 20" LONG LEADS	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.080 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0695	CONNECTION LABEL	1.000 EA
NP3443L	SS SUPER-E UL CSA-EEV PREM CC	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA

Accessories		
Part Number	Description	Multiplier
09-1310	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 31027

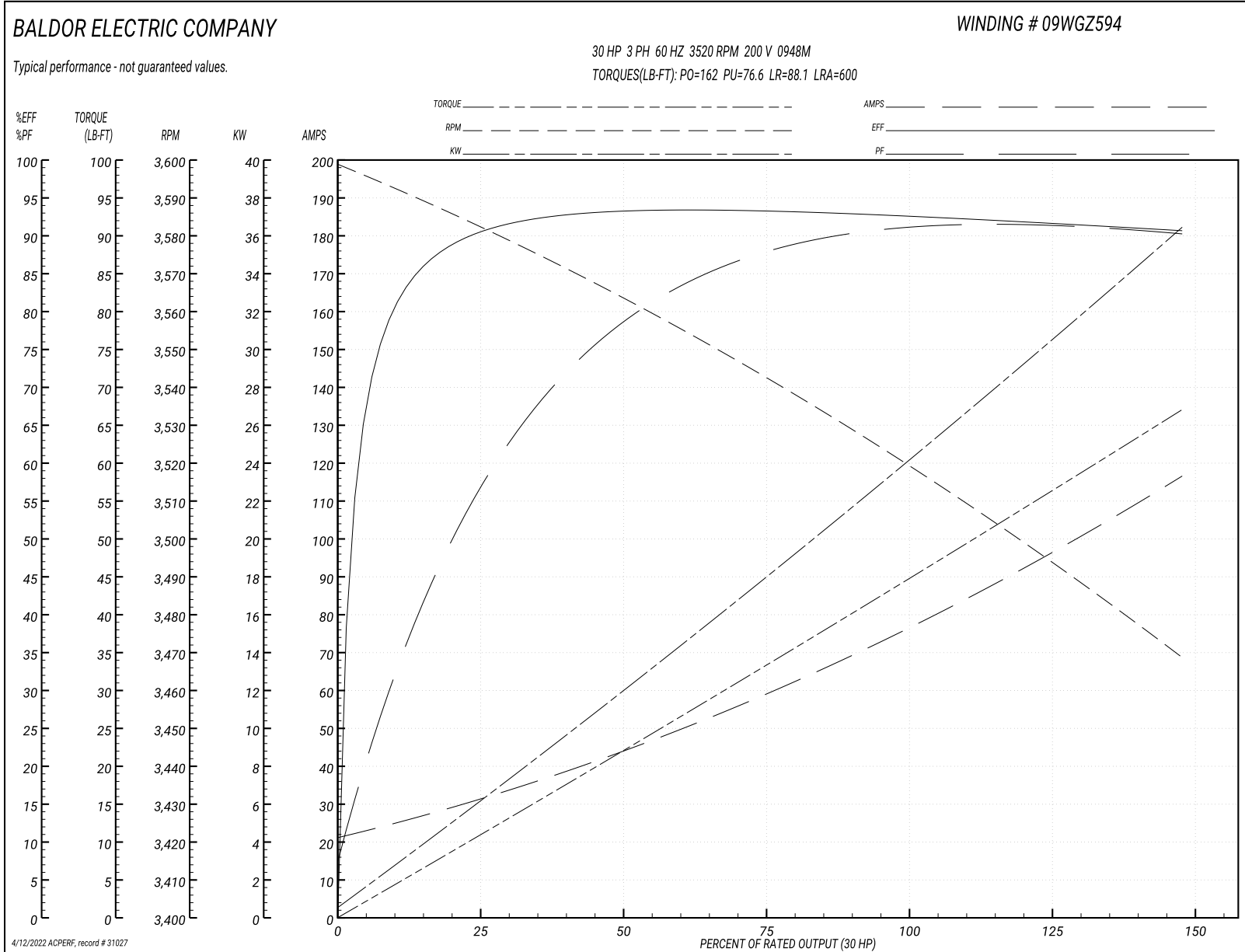
Typical performance - not guaranteed values

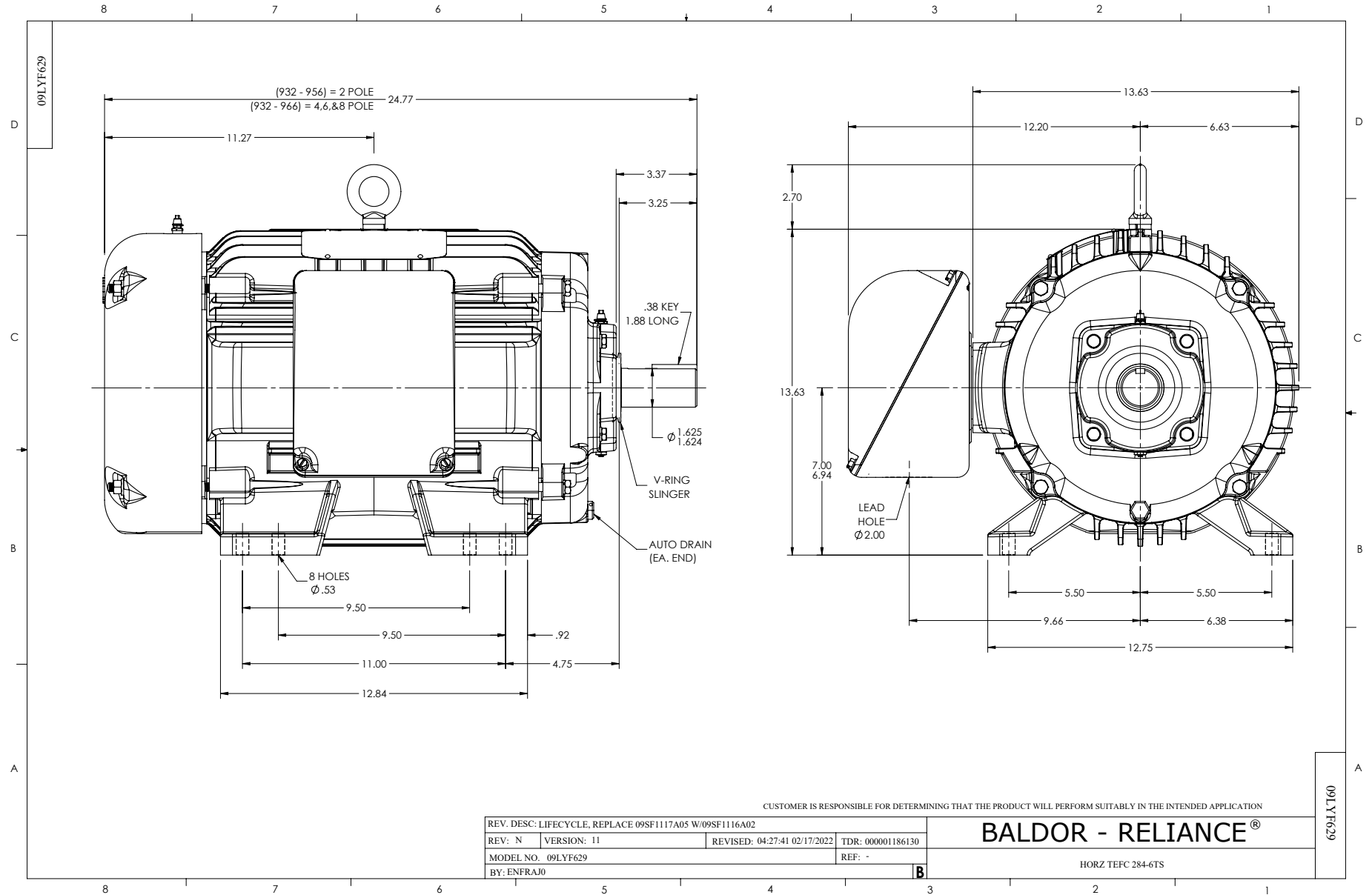
Winding: 09WGZ594-R001		Type: 0948M	Enclosure: TEFC
Nameplate Data		200 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	30	Full Load Torque	44.7 LB-FT
Volts	200	Start Configuration	direct on line
Full Load Amps	76	Breakdown Torque	162 LB-FT
R.P.M.	3520	Pull-up Torque	76.6 LB-FT
Hz	60 Phase	Locked-rotor Torque	88.1 LB-FT
NEMA Design Code	A KVA Code	Starting Current	600 A
Service Factor (S.F.)	1.15	No-load Current	22 A
NEMA Nom. Eff.	91.7 Power Factor	Line-line Res. @ 25°C	0.0511 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	80°C
S.F. Amps		Temp. Rise @ S.F. Load	99°C
		Locked-rotor Power Factor	28
		Rotor inertia	1.23 LB-FT ²

Load Characteristics 200 V, 60 Hz, 30 HP

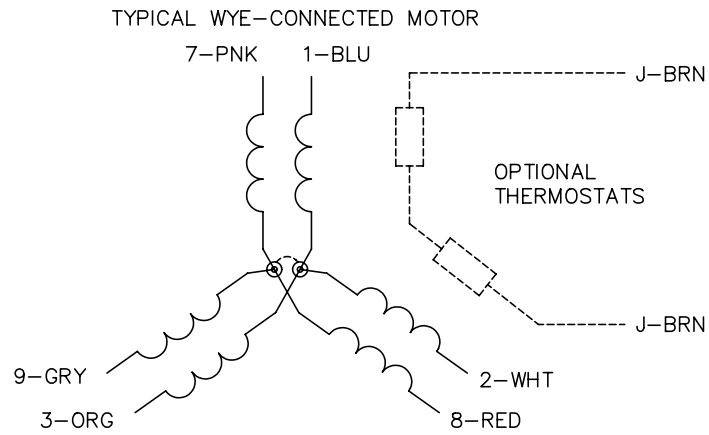
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	80	87	91	90	91	90
Efficiency	90	93.2	93	92.7	92	90.5	92.3
Speed	3582	3563	3542	3519	3496	3468	3505
Line amperes	30.4	43.9	60	76.5	96.5	116	88.5

Performance Graph at 200V, 60Hz, 30.0HP Typical performance - Not guaranteed values

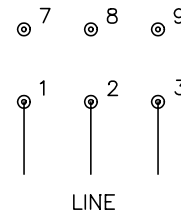




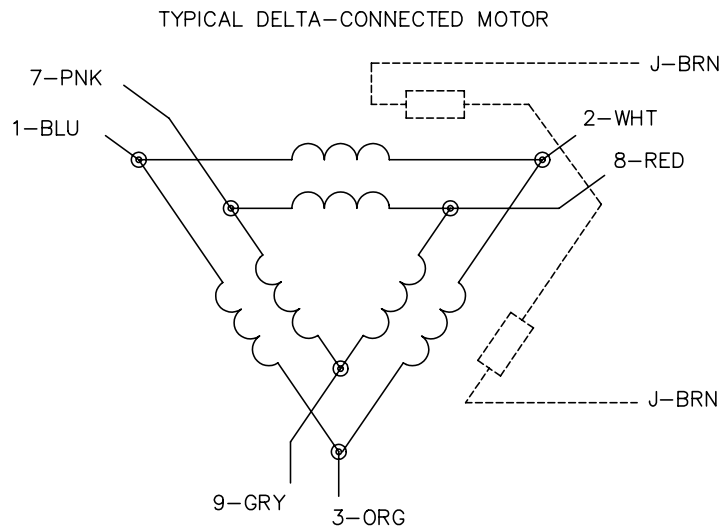
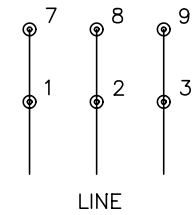
CD0695



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

9690D0

FILE: AAA00005151

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START

CD0695

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