

ABB BALDOR RELIANCE III

Customer information packet

EM4308T-G

40HP, 1190RPM, 3PH, 60HZ, 364T, A36062M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364T
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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	99.600 A @ 230.0 V 49.800 A @ 460.0 V 107.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	49.8 a
Insulation Class	H
Inverter Code	Inverter Ready

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1194
Layout	617428-021
Eff. date	07-08-2024
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	02-25-2020

IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.48 IN
Power Factor	80
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate
NP3979LUA

CAT #		EM4308T-G				SER				CC		010A															
SPEC		A36-0002-1194				RATING		40C AMB-CONT																			
HZ		VOLTS		AMPS		RPM		HP		CODE		SF		DES		PF		NEMA NOM. EFF									
60		230/460		99.6/49.8		1190		40		G		1.15		B		80 %		94.1 %									
		-														%		%									
PH		3		CL		H		MAX CORR KVAR		12																	
BRG		DE		6313		ODE		6313		ENCL		TEFC		FR		364T		54									
GREASE		POLYREX EM										MTR WT		883		LBS											
USABLE AT		50HZ 30HP 190/380V 98/49A										SF1.0															
INVERTER DUTY		CT		15-60		HZ		4:1		VT		3-60		HZ		20:1		CHP		60-90		HZ		1.5:1		1.0 SF VPWM	
MAX RPM		1800		SFA 113/56.3																							

Parts List

Part number	Description	Quantity
SA379380	SA A36-0002-1194	1.000 ea
RA369378	RA A36-0002-1194	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP3979LUA	SS SUPER-E UR CSA-C-US-EEV NEMA PREM CC	1.000 ea
LB1459	AEGIS SGR LABEL "AEGISLBL-100"	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
415072001B	CLAMP	1.000 ea
078559001A	+FANCV - 360	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
078550001M	FAN KB 60/30 (30) 360	1.000 ea
004824015A	GREASE POLYREX EM	0.540 lb
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
410700004F	WSHR	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
412118006A	DRAIN	1.000 ea
412118006A	DRAIN	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
415045002E	SLGR	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
077176000L	C/BOX, PAINTED 440	1.000 ea
BP5327	SHAFT GRD BRUSH (SGR-74.7-3CFHAT2)	1.000 ea
077176001A	CBOX Cover 360-400	1.000 ea

043292000AJ	GASK 320-400	1.000 ea
402731001A	GASK 360-440	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025Y17	WILKOFAS, 789.701, SUPER E PEARL GOLD	1.000 ga
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 ea
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 ea
032509020C	CARRIAGE BOLT - 360	3.000 ea

AC Induction motor performance data

Record #93159 - Typical performance - not guaranteed values

Winding	A36WG1194
Type	A3662M
Enclosure	TEFC

Nameplate data

Rated Output	40		
Volts	230 / 460		
Full Load Amps	99.6 / 49.8		
R.P.M.	1190		
Hz	60	Phase	3
KVA Code	G		
S.F.	1.15		
NEMA Nom. Eff.	94.1	Power Factor	80
Duty	CONT		
S.F. Amps			

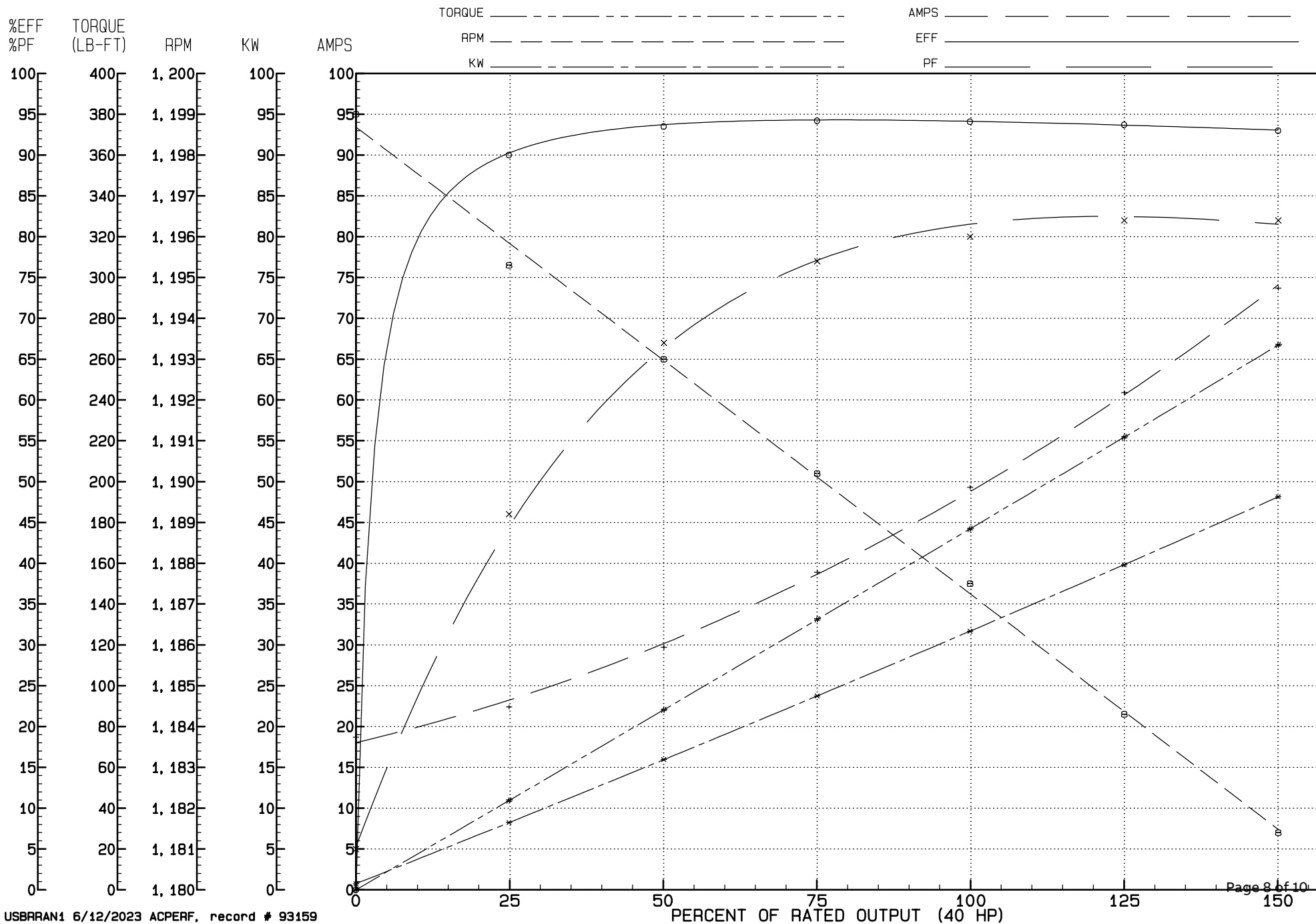
460 V. 60 Hz:

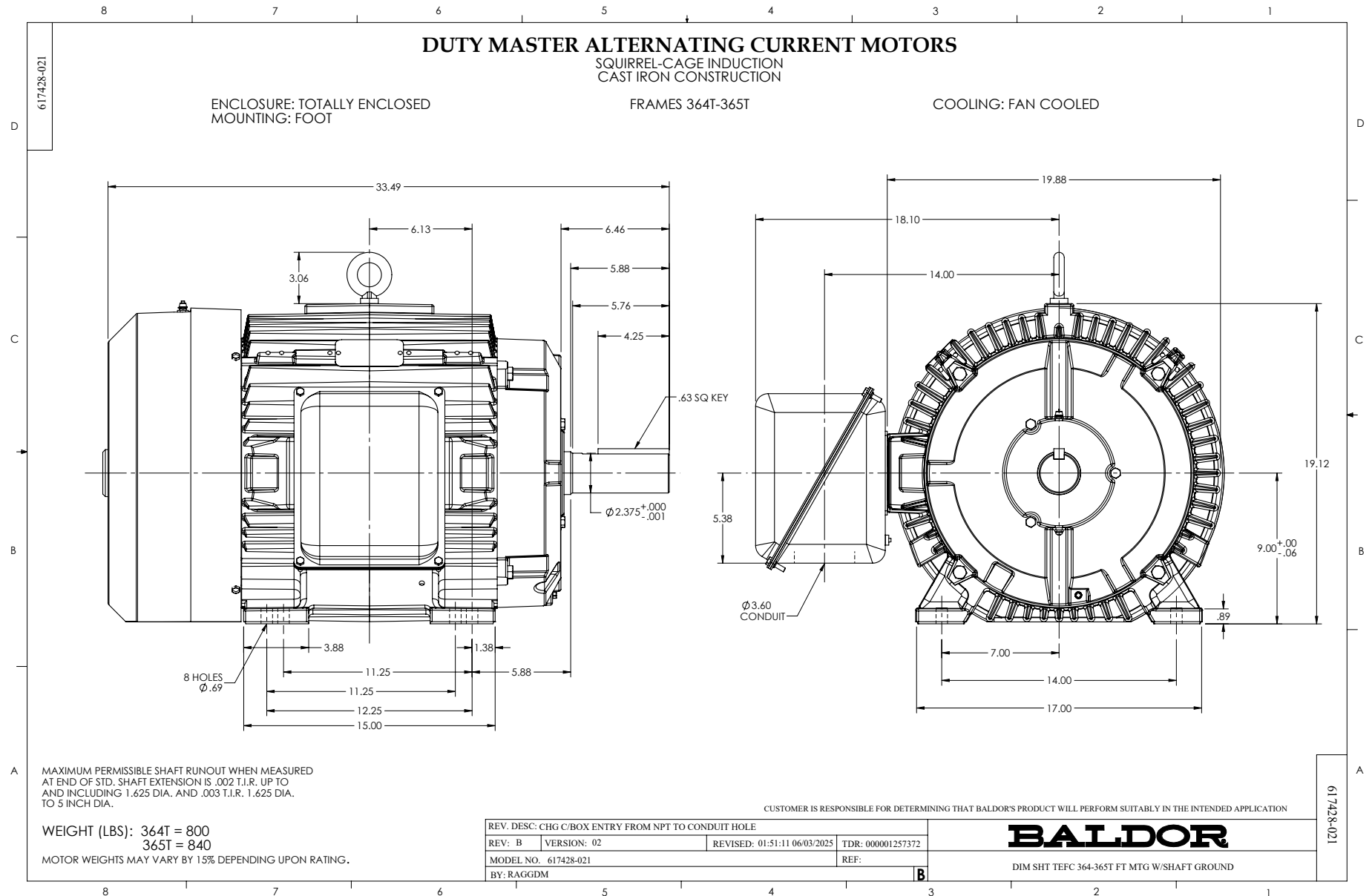
High Voltage Connection

Full Load Torque	176.8 LB-FT
Start Configuration	direct on line
Breakdown Torque	514 LB-FT
Pull-up Torque	266 LB-FT
Locked-rotor Torque	335 LB-FT
Starting Current	312 A
No-load Current	18.7
Line-line Res. @ 25°C	0.14922 Ω
Temp. Rise @ Rated Load	43°C
Temp. Rise @ S.F. Load	51°C
Locked-rotor Power Factor	25.4
Rotor inertia	0

Load Characteristics 460 V, 60 Hz, 40 HP

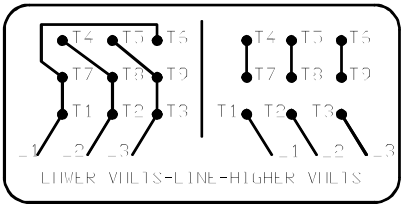
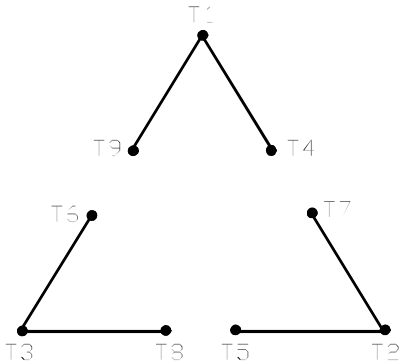
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	46	67	77	80	82	82	81
Efficiency	0	90	93.5	94.2	94.1	93.7	93	93.9
Speed	1199	1195.3	1193	1190.2	1187.5	1184.3	1181.4	1186
Line amperes	18.7	22.4	29.7	38.9	49.3	60.9	73.7	56.3





416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



LOWER VOLTS-LINE-HIGHER VOLTS

(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
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BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
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