

ABB BALDOR RELIANCE III

Customer information packet

XT30156T

1.5HP, 1170RPM, 3PH, 60HZ, 182T, 0630M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CCSA US NEMA_PREMIUM NEMA PREMIUM CSA EEV
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
Constant Torque Speed Range	3
Current @ Voltage	2.500 A @ 460.0 V 5.000 A @ 230.0 V 5.200 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGW969
Layout	06LYF436
Eff. date	06-28-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	12-03-2020

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0630M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.23 IN
Power Factor	65
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1170 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

NP4163L									
CAT.NO.	XT30156T						I.P.	54	
SPEC.	06-0000-0807						ENCL	TEFC	
FRAME	182T			H.P.	1.5				
VOLTS	208-230/460			P.F.	65				
F.L. AMPS	5.2-5/2.5			RATING		40C AMB-CONT			
R.P.M.	1170								
HZ.	60		PH.	3		CLASS		F	
SER.F.	1.15		DES.	B		SL HZ		1.5	
NEMA NOM. EFF.	87.5			WK2		0.282			
DE	6206			ODE		6205			
MAG. CUR.	3.2/1.6								
INV TYPE	PWM	CHP	60		TO	90		T. CODE	T3C
CT	3	TO	60		VT	3	TO	60	
CC	010A		SN						
USABLE AT 50 HZ 1HP 190/380V									
4.4/2.2A									

Parts List

Part number	Description	Quantity
SA388544	SA 06-0000-0807	1.000 ea
RA378909	RA 06-0000-0807	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
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
NP4163L	SS CP INV DIV-2 UL CSA-C US EEV PREM, DI	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
36FH4009A101	IEC FH NO GREASER, W/PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3101A34	THRUBOLT- 1/4-20 X 10.375	4.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
36EP3104B47	FREP MACH W/O GRSR,RAISED FH PADS,SLING	1.000 ea
HW4600B32SP	V-RING SLINGER 1.000 X 1.540 X .24 VITON	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
36EP3100A04	PU ENDPLATE, MACH	1.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
06CB3000	BALDOR CONDUIT BOX CAST	1.000 ea
06GS1000	GASKET,CONDUIT BOX	1.000 ea
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
06CB3500	BALDOR CONDUIT BOX LID	1.000 ea
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea

MG1025L14	WILKOFAS, 776.14, GRUNDFOS BLACK	0.125 ga
36PA1001	PKG GRP, PRINT PK1017A07	1.000 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
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 47055

Typical performance - not guaranteed values

Winding: 06WGW969-R015			Type: 0630M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		1.5	Full Load Torque		6.77 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		5.2-5/2.5	Breakdown Torque		24 LB-FT			
R.P.M.		1170	Pull-up Torque		12.5 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		15.8 LB-FT		
NEMA Design Code		B	KVA Code	K	Starting Current		16.19 A	
Service Factor (S.F.)		1.15	No-load Current		1.63 A			
NEMA Nom. Eff.		87.5	Power Factor		65	Line-line Res. @ 25°C		7.34 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		26°C	
S.F. Amps			Temp. Rise @ S.F. Load		32°C			

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	44	56	65	69	73	67
Efficiency	76.9	85	87.1	87.6	87	86	87.2
Speed	1193.7	1186.9	1179.4	1171.7	1163.1	1152.9	1167
Line amperes	1.7	1.9	2.18	2.51	2.92	3.38	2.76

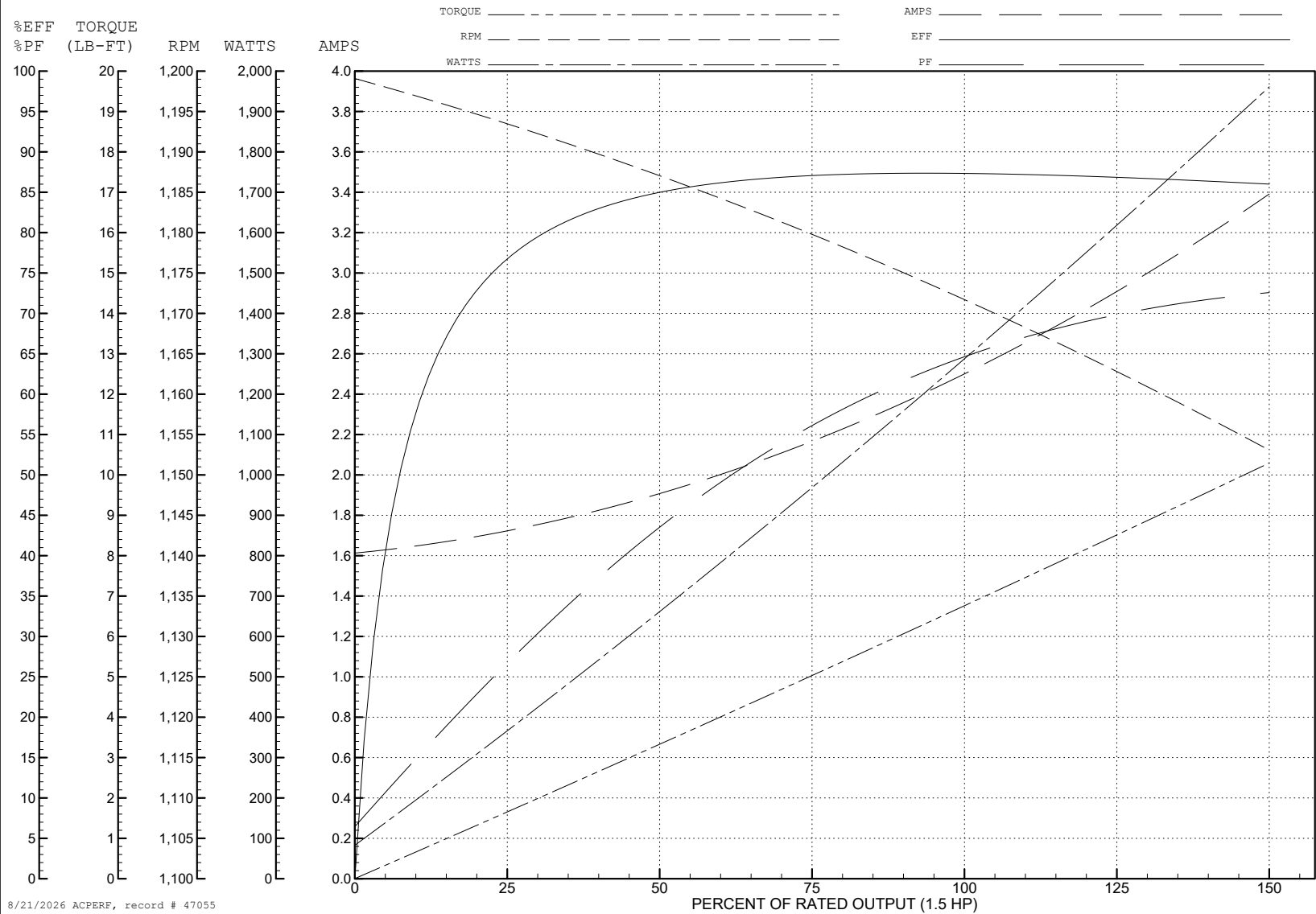
ABB Motors and Mechanical Inc.

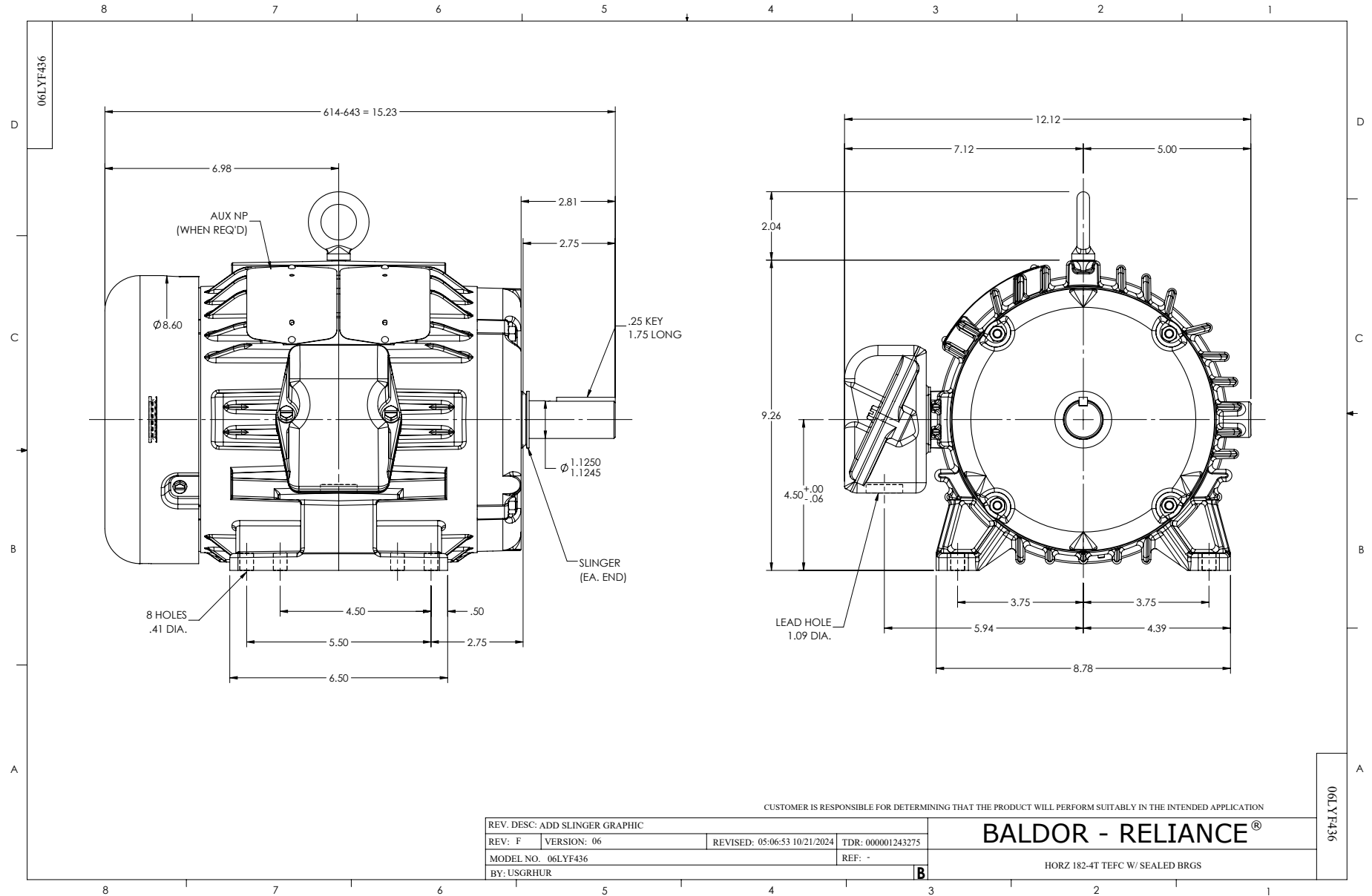
WINDING # 06WGW969

Typical performance - not guaranteed values.

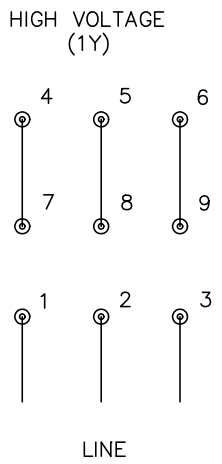
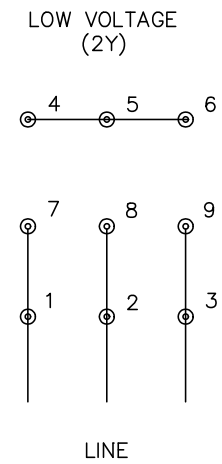
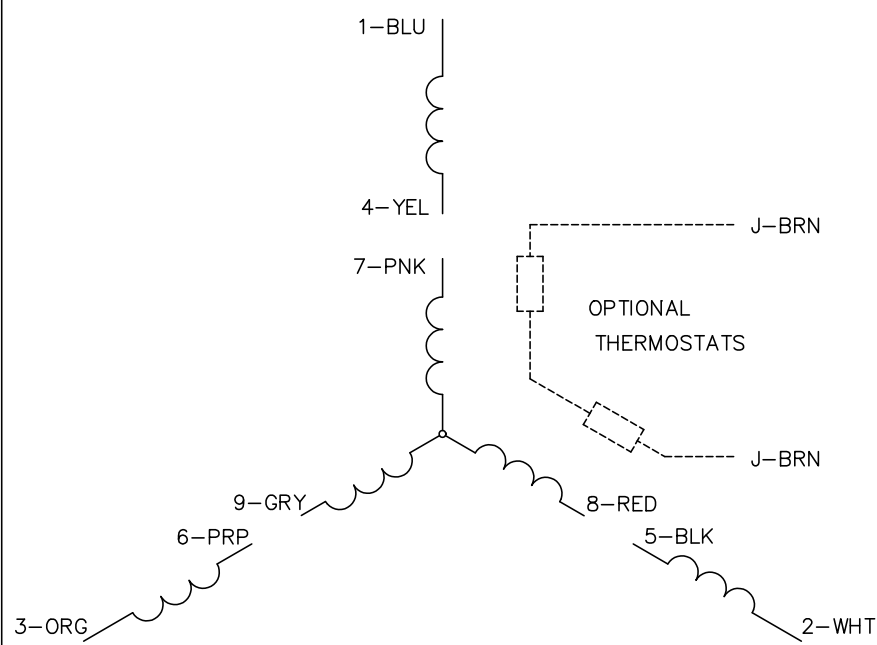
1.5 HP 3 PH 60 HZ 1170 RPM 460 V 0630M

TORQUES (LB-FT): PO=24 PU=12.5 LR=15.8 LRA=16.19





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005