

ABB BALDOR RELIANCE III

Customer information packet

AEM2237-4

7.5HP, 1765RPM, 3PH, 60HZ, 254U, 0932M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254U
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	65 °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	9.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.1 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	S
Type	AC
Mech. spec.	09T36
Base	
Status	PRD/A
Elec. spec.	09WGT177
Layout	09LYT036
Eff. date	05-11-2026
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	02-21-2015

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0932M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.11 IN
Power Factor	82
Product Family	Automotive (Not For DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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

NP1404									
CAT.NO.	AEM2237-4								
SPEC.	09T036T177G1								
VOLTS	460								
AMP	9.1								
RPM	1765		HP	7.5					
FRAME	254U	HZ	60		PH	3			
SER.F.	1.00	CODE	H	DES	B	CL	F		
NEMA-NOM-EFF	91.7	PF	82						
G.MIN.EFF	90.2	CC	010A						
RATING	65C AMB-CONT								
LUBRICATION	POLYREX EM								
DE	6309	ODE	6208						
ENCL	TEFC	SER. #							

Parts List

Part number	Description	Quantity
SA294165	SA 09T036T177G1	1.000 ea
RA280247	RA 09T036T177G1	1.000 ea
09FN3001D01SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
HW3201A01	1/2-13 EYEBOLT	1.000 ea
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 ea
09CB1002A12P	KOBX W/1.25 NPT LEAD HOLE & 2.38 MTG HOL	1.000 ea
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
09EP1100A14P	ENDPLATE, MACH W/EPOXY PRIMER	1.000 ea
HA3400A33	STUD- 3/8-16 X 4.96 HEX	4.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
12CB1503P	CONDUIT BOX LID, CAST W/EPOXY PRIMER	1.000 ea
12GS1002	GASKET, CONDUIT BOX LID, NEOP	1.000 ea
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	2.000 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
09EP1101A11P	MACH'D EPOXY PRIMED EP	1.000 ea
10XN3816K24	3/8-16 X 1.50 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 ea
09FH4000P	FAN COVER, STAMPED W/EPOXY PRIMER	1.000 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
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 ea
HW2501F24	KEY, 5/16 SQ X 2.750	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 ea

MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.031 ea
MJ5004A04	ADHESIVE LOCTITE 609	0.005 ea
WD1000B07	T&B C71, RING TERM 10-12 AWG, .25" STUD	3.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
HW4500A20	1/8NPT SL PIPE PLUG	3.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MG1025G02	WILKOFAS, 782.02, LIGHT GRAY	0.070 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP1404	SS UL CSA CC "AUTOMOTIVE"	1.000 ea
40PA1005	PACKAGING GROUP, 09 STD	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

Accessories

Part number	Description	Multiplier
09-1309	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 49357

Typical performance - not guaranteed values

Winding: 09WGT177-R001			Type: 0932M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		7.5	Full Load Torque		22.1 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		9.1	Breakdown Torque		74.8 LB-FT	
R.P.M.		1765	Pull-up Torque		30.5 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		38.5 LB-FT
NEMA Design Code		B	KVA Code	H	Starting Current	
Service Factor (S.F.)		1	No-load Current		3.5 A	
NEMA Nom. Eff.		91.7	Power Factor		82	Line-line Res. @ 25°C
Rating - Duty		65C AMB-CONT		Temp. Rise @ Rated Load		24°C
				Locked-rotor Power Factor		35.2
				Rotor inertia		1.4 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	49	71	81	84	86	87
Efficiency	86.3	91.3	92.4	91.8	91.2	90.2
Speed	1793	1786	1778	1770	1760	1750
Line amperes	4.07	5.32	7	9.05	11.2	13.4

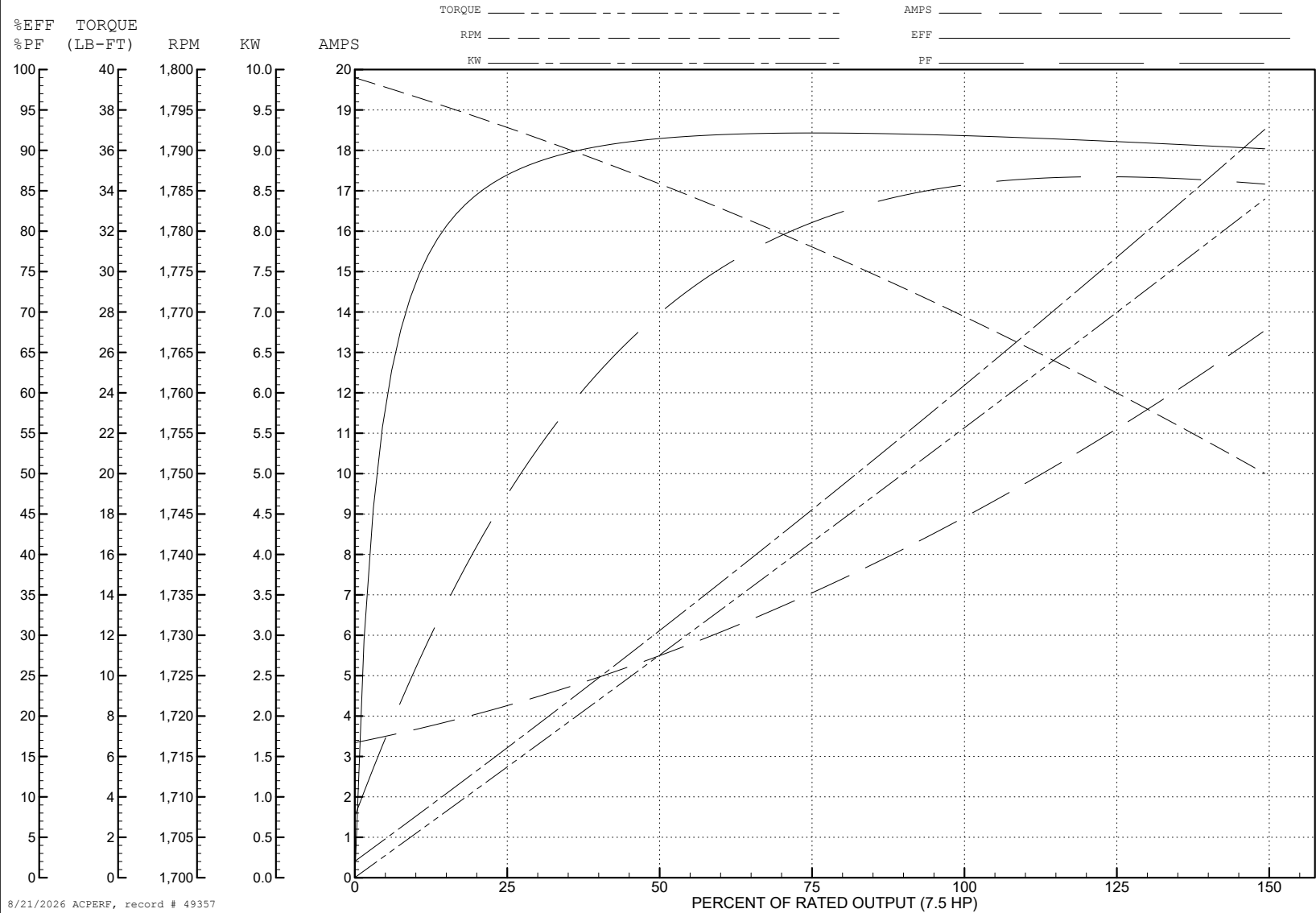
ABB Motors and Mechanical Inc.

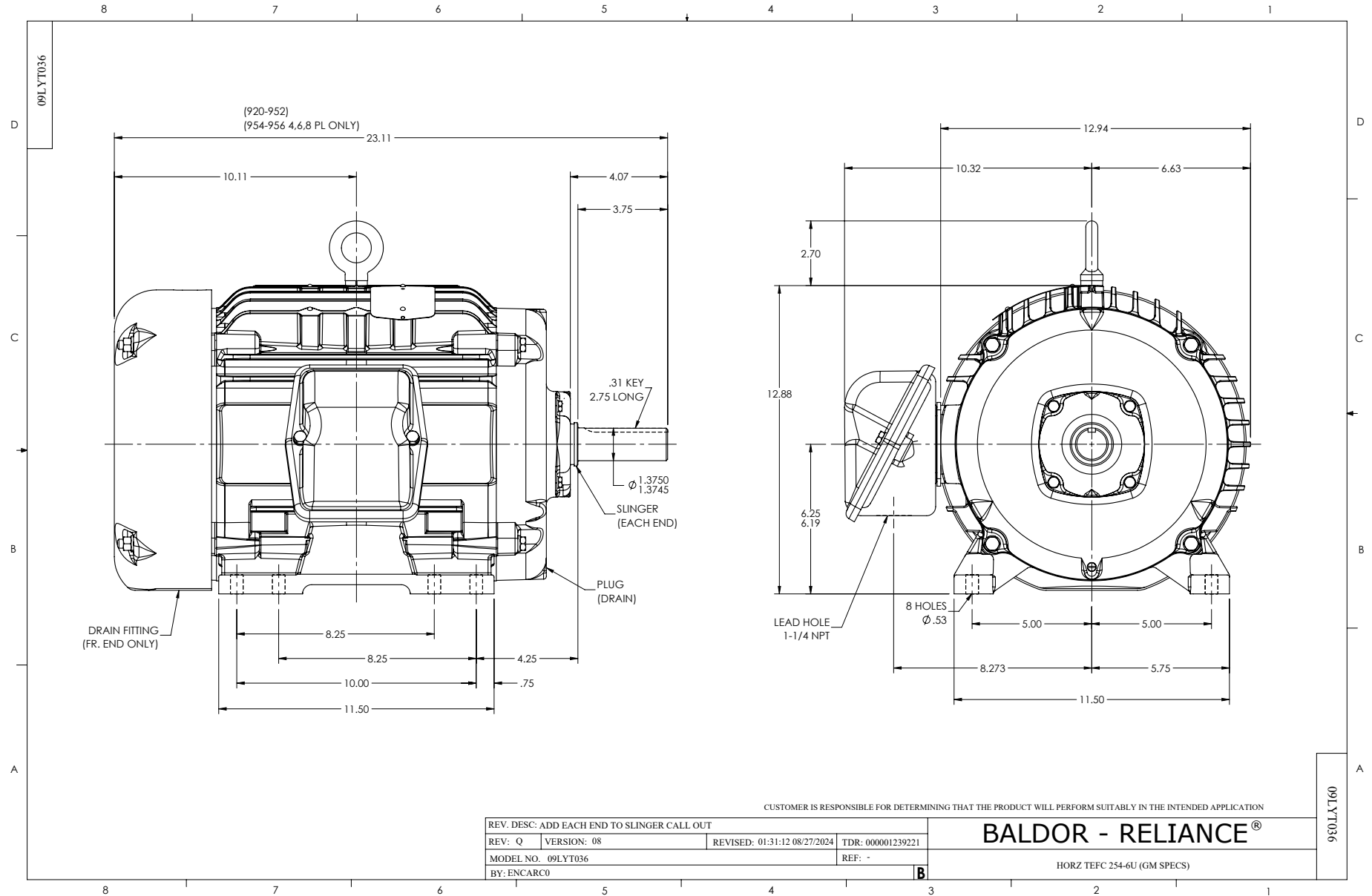
WINDING # 09WGT177

Typical performance - not guaranteed values.

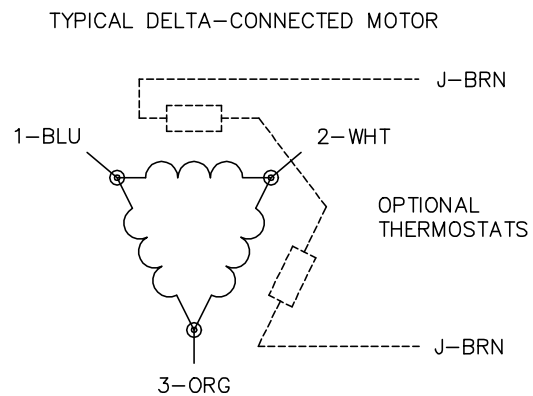
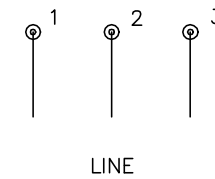
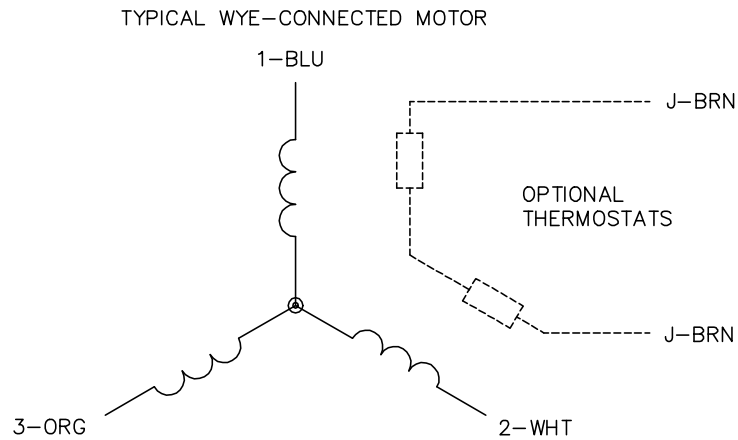
7.5 HP 3 PH 60 HZ 1765 RPM 460 V 0932M

TORQUES (LB-FT): PO=74.8 PU=30.5 LR=38.5 LRA=59.3





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER 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 BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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