ABB BALDOR RELIANCE

Customer information packet

ECS100A4H3EF4

3HP, 1800RPM, 3PH, 60HZ, 182T, TEFC, AXIAL
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Phase	3
Agency Approvals	UL
	WEEE
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	6
Design Code	B
Drip Cover	No Drip Cover
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
Inverter Code	Inverter Duty
IP Rating	NONE
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3624B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.25 IN

Part Detail

Revision	P
Type	AC
Mech. spec.	36T259
Base	
Status	PRD/A
Elec. spec.	36WGL109
Layout	36LYT259
Eff. date	09-28-2026
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	12-12-2019

Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed Code	Single Speed
Starting Method	INVERTER SPECIAL
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

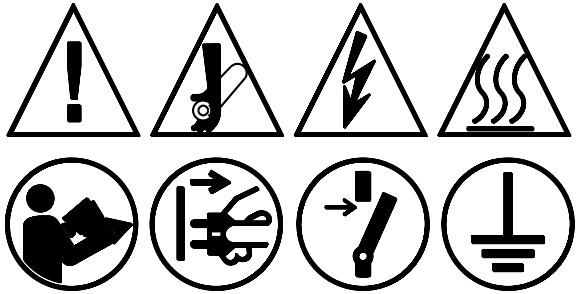
BALDOR·RELIANCE

EC-Titanium™

CAT. NO.	ECS100A4H3EF4						
SPEC.	36T259L109G1				YR	***	
FRAME	182T		ENCL.	TEFC	IP54		
HP	3	RATING	40C AMB-CONT				
NOM. EFF.	92.8%	PF	96.6%	SF	1.00		
VOLTS	460		FLA	3.7			
RPM	1800		RPM MAX	4000			
HZ	60		PH.	3	CLASS	F	
BEMF (V)	212		Rs (Ω)	3.880			
Ld (mH)	57.7		Lq (mH)	218			
INV TYP	VPWM	CHP	60 TO 133 HZ				
	CT	6 TO 60 HZ	VT	1 TO 60 HZ			
MATCHED INV	EC14A4P1						
BEARING	DE	6206	ODE	6205			
SERIAL#	***						

ELECTRONICALLY PROTECTED MOTOR
FOR INDUSTRIAL USE

FERRITE ASSISTED
SYNCHRONOUS RELUCTANCE MOTOR
FOR INVERTER USE ONLY



PERMANENT MAGNET MOTOR. WHEN SHAFT IS ROTATED, VOLTAGE WILL BE GENERATED AT THE MOTOR TERMINALS.
MOTEUR Á AIMANT PERMANENT. LORSQUE L'ARBRE TOURNE, UNE TENSION SERA GÉNÉRÉE AUX BORNES DU MOTEUR.

BALDOR-RELIANCE
SHAFT GROUNDING BRUSH INSTALLED

c UL us LISTED
E46145

ABB MOTORS AND MECHANICAL INC.
5711 R.S. BOREHAM JR. ST., FORT SMITH, AR. MFG IN U.S.A.

BALDOR•RELIANCE

EC-Titanium™

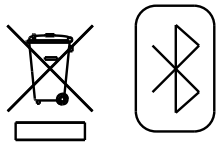
PART NO.	EC14A4P1				
U1	480	PH	3	HZ	60
I1 MAX	4.7	W/EXT. CHOKE			4.0
SERIAL #	***				



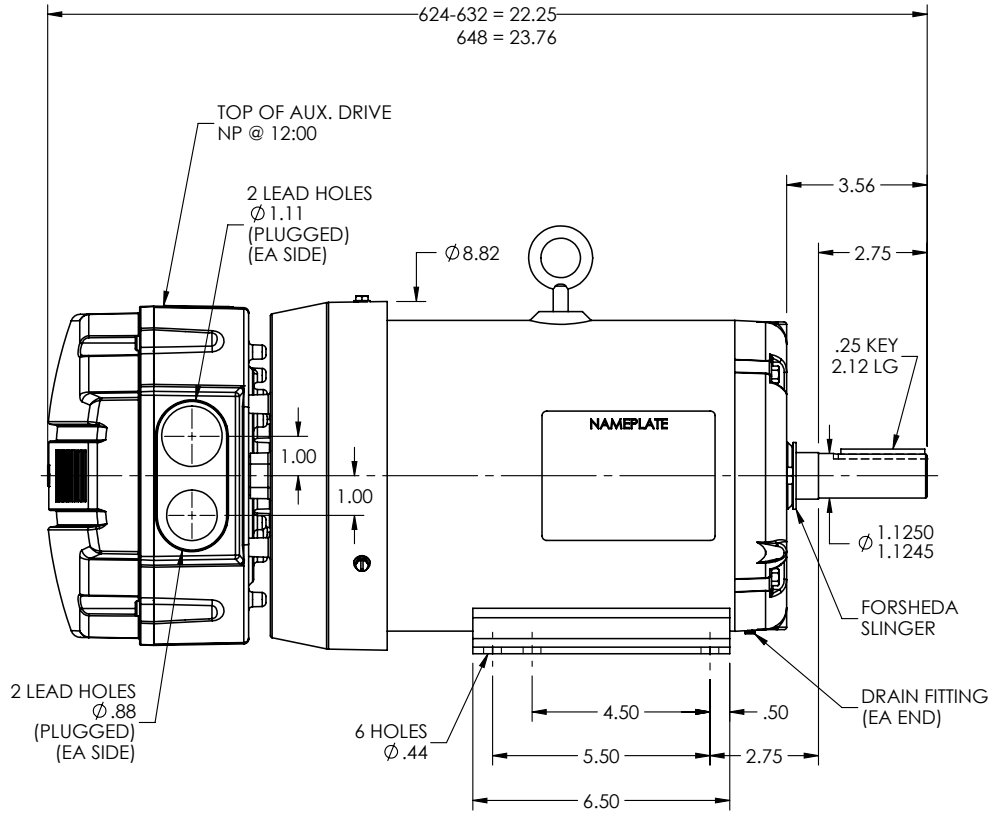
POWER DOWN FOR
5 MINUTES BEFORE
REMOVING COVER

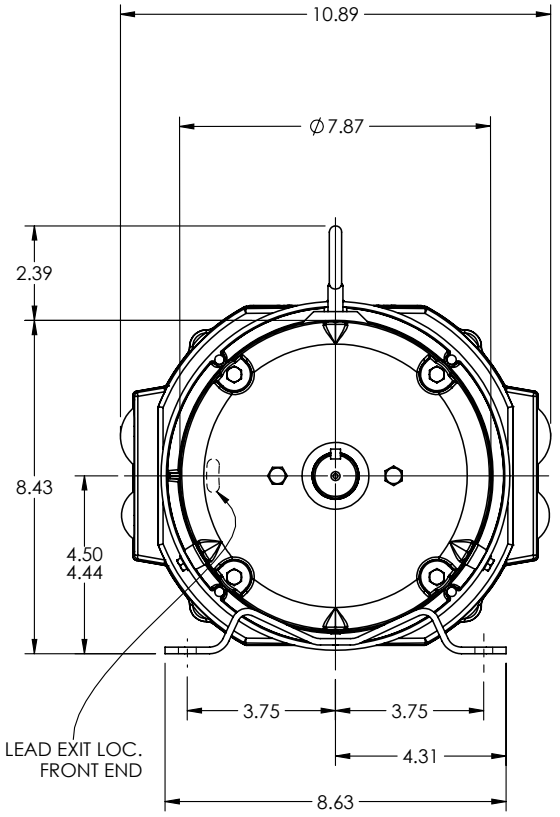
METTRE HORS TENSION
PENDANT 5 MINUTES
AVANT DE RETIRER LE
COUVERCLE

ABB MOTORS AND MECHANICAL
INC. FORT SMITH, AR.
MFG. IN U.S.A.



36LYT259





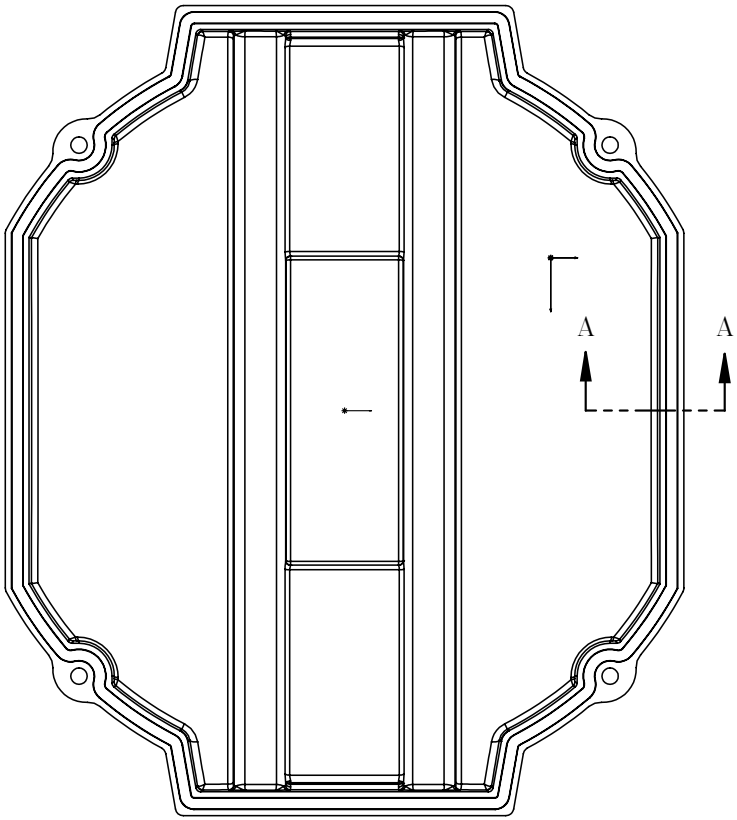
REV. DESC: UPDATE DRAWING GRAPHICS			
REV: E	VERSION: 05	REVISED: 09:37:18 03/16/2022	TDR: 000001187699
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	BY: ENJEFD0	Material: -	

BALDOR

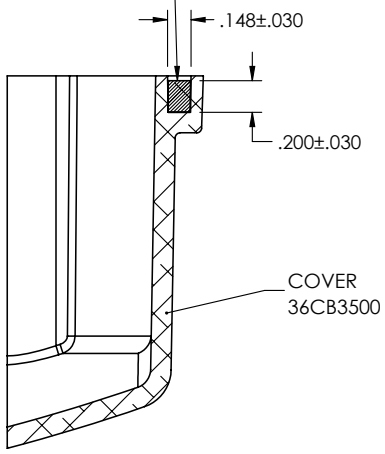
HOR 182-4T TEFC B ODE MOUNT DRV INT SH GND ECS

36LYT259

36CB3500A00



MATERIAL: RAMPF, RAKU-PUR 32-3280-51L



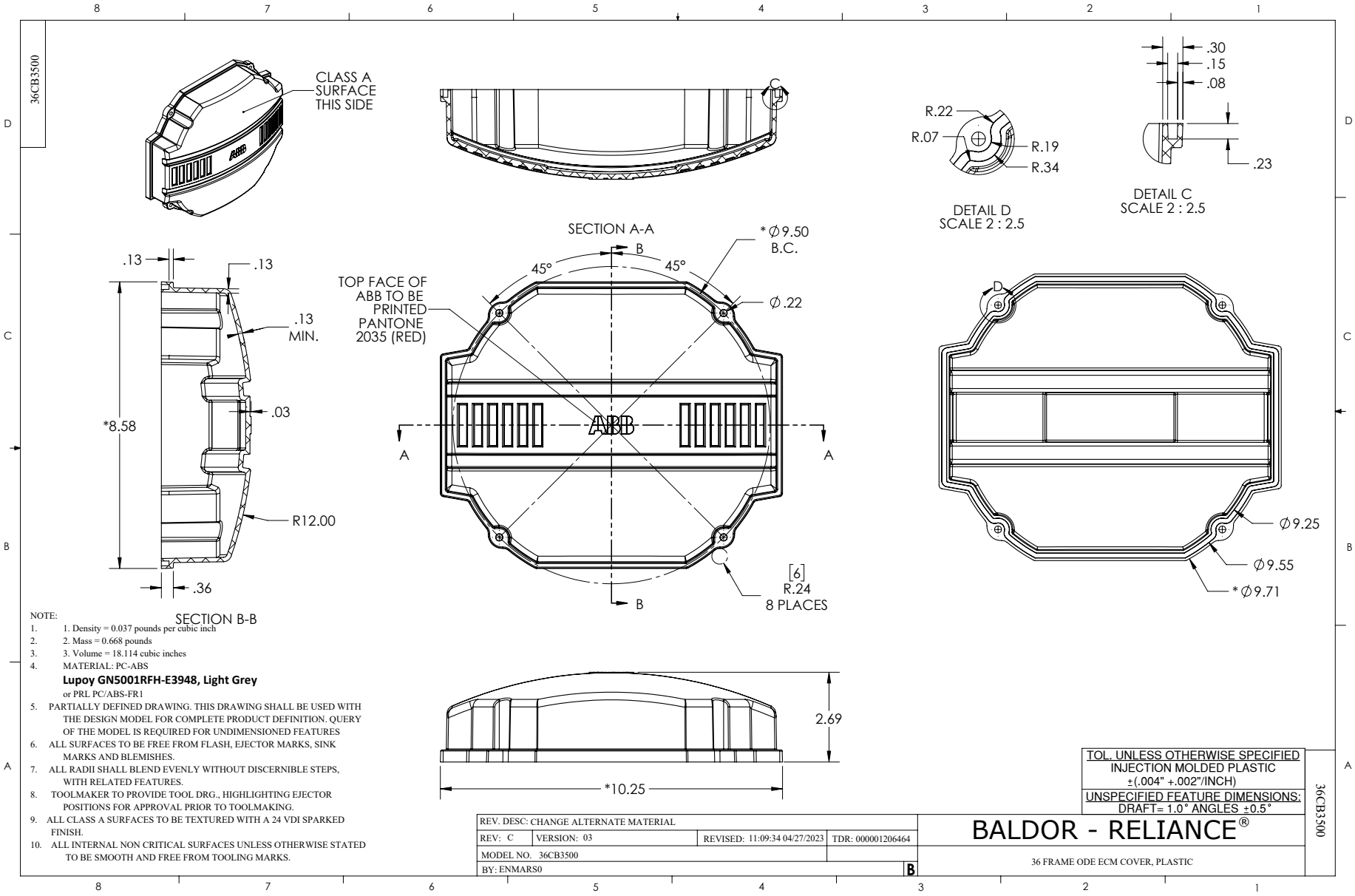
SECTION A–A

36CB3500A00

REV. DESC: UPDATE MATERIAL			
REV: A	VERSION: 01	REVISED: 10:45:08 03/29/2019	TDR: 000001101646
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	BY: ENMARS0	Material: -	

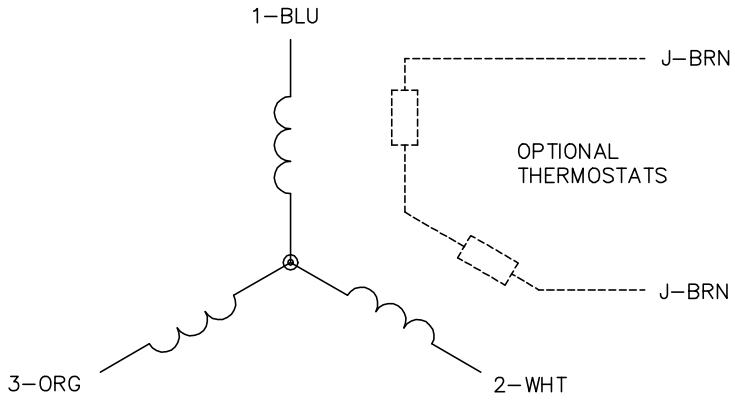
BALDOR - RELIANCE®

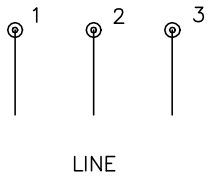
36 FRAME ODE ECM COVER WITH FOAM SEAL


36CB3500
CLASS A SURFACE THIS SIDE
SECTION A-A
SECTION B-B
DETAIL D SCALE 2 : 2.5
DETAIL C SCALE 2 : 2.5
TOP FACE OF ABB TO BE PRINTED PANTONE 2035 (RED)
*Ø9.50 B.C.
Ø.22
45°
45°
.13
.13
.13 MIN.
.03
*8.58
R12.00
.36
R.22
R.07
R.19
R.34
.30
.15
.08
.23
Ø9.25
Ø9.55
*Ø9.71
[6] R.24 8 PLACES
2.69
*10.25
NOTE:
1. 1. Density = 0.037 pounds per cubic inch
2. 2. Mass = 0.668 pounds
3. 3. Volume = 18.114 cubic inches
4. MATERIAL: PC-ABS
Lupoy GN5001RFH-E3948, Light Grey
or PRL PC/ABS-FR1
5. PARTIALLY DEFINED DRAWING. THIS DRAWING SHALL BE USED WITH THE DESIGN MODEL FOR COMPLETE PRODUCT DEFINITION. QUERY OF THE MODEL IS REQUIRED FOR UNDIMENSIONED FEATURES
6. ALL SURFACES TO BE FREE FROM FLASH, EJECTOR MARKS, SINK MARKS AND BLEMISHES.
7. ALL RADII SHALL BLEND EVENLY WITHOUT DISCERNIBLE STEPS, WITH RELATED FEATURES.
8. TOOLMAKER TO PROVIDE TOOL DRG., HIGHLIGHTING EJECTOR POSITIONS FOR APPROVAL PRIOR TO TOOLMAKING.
9. ALL CLASS A SURFACES TO BE TEXTURED WITH A 24 VDI SPARKED FINISH.
10. ALL INTERNAL NON CRITICAL SURFACES UNLESS OTHERWISE STATED TO BE SMOOTH AND FREE FROM TOOLING MARKS.
TOL. UNLESS OTHERWISE SPECIFIED
INJECTION MOLDED PLASTIC
±(.004" +.002"/INCH)
UNSPECIFIED FEATURE DIMENSIONS:
DRAFT= 1.0° ANGLES ±0.5°
REV. DESC: CHANGE ALTERNATE MATERIAL
REV: C VERSION: 03 REVISED: 11:09:34 04/27/2023 TDR: 000001206464
MODEL NO. 36CB3500
BY: ENMARS0
B
BALDOR - RELIANCE®
36 FRAME ODE ECM COVER, PLASTIC
36CB3500

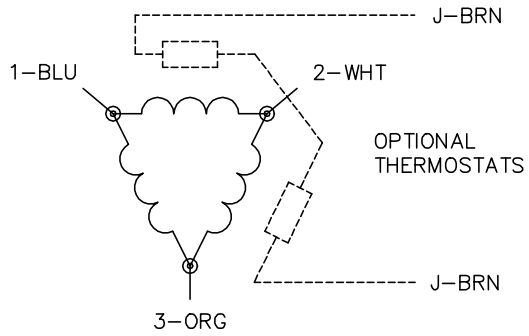
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

SH 1 of 1