



Customer information packet

IDM3770T-5

38M 4P TEBC HOR 213TC T'STATS INVERTER

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
Frame	213TC
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	575.0 V @ 60 HZ
Agency Approvals	UR CSA
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	BLOWER
Current @ Voltage	7.500 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.5 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J

Part detail

Revision	E
Type	AC
Mech. spec.	07D515
Base	
Status	PRD/A
Elec. spec.	07WGX817
Layout	07LYD515
Eff. date	09-30-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	03-18-2019

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4000 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.58 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4009L									
CAT.NO.	IDM3770T-5								
SPEC.	07D515X817G1								
FRAME	213TC		H.P.		7.5 TE				
VOLTS	575								
MAG. CUR.	3.3			F.L. AMPS			7.5		
R.P.M.	1770		R.P.M. MAX		4000				
HZ.	60		PH.		3		CLASS		H
SER.F.	1.00		DES.		A		SL HZ		1
NEMA NOM. EFF.	91.7		WK2		0.934				
BLOWER	V				PH		HZ		AMPS
RATING	40C AMB-CONT								
DE	6307		ODE		6206				
CC	010A		SN						
	1000:1 CT/VT								

NP VOLTS	575	Base Volt	575	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	7.5	NL AMPS	3.66	R1	1.180	X1	3.790
HP	7.5	Slip (Hz)	0.97	R2	0.666	X2	2.890
BASE SPEED	1771	WK ² (lb-ft ²)	0.934			XM	85.700
PHASE/HZ	3/60						

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1771	7.5	22.1	575	60	7.7
Max Speed	2656	7.5	14.8	575	90	7.1
CT Min Speed	1,771	0.007	22.1	0.58	0.06	7.7

Load Performance at Base Speed

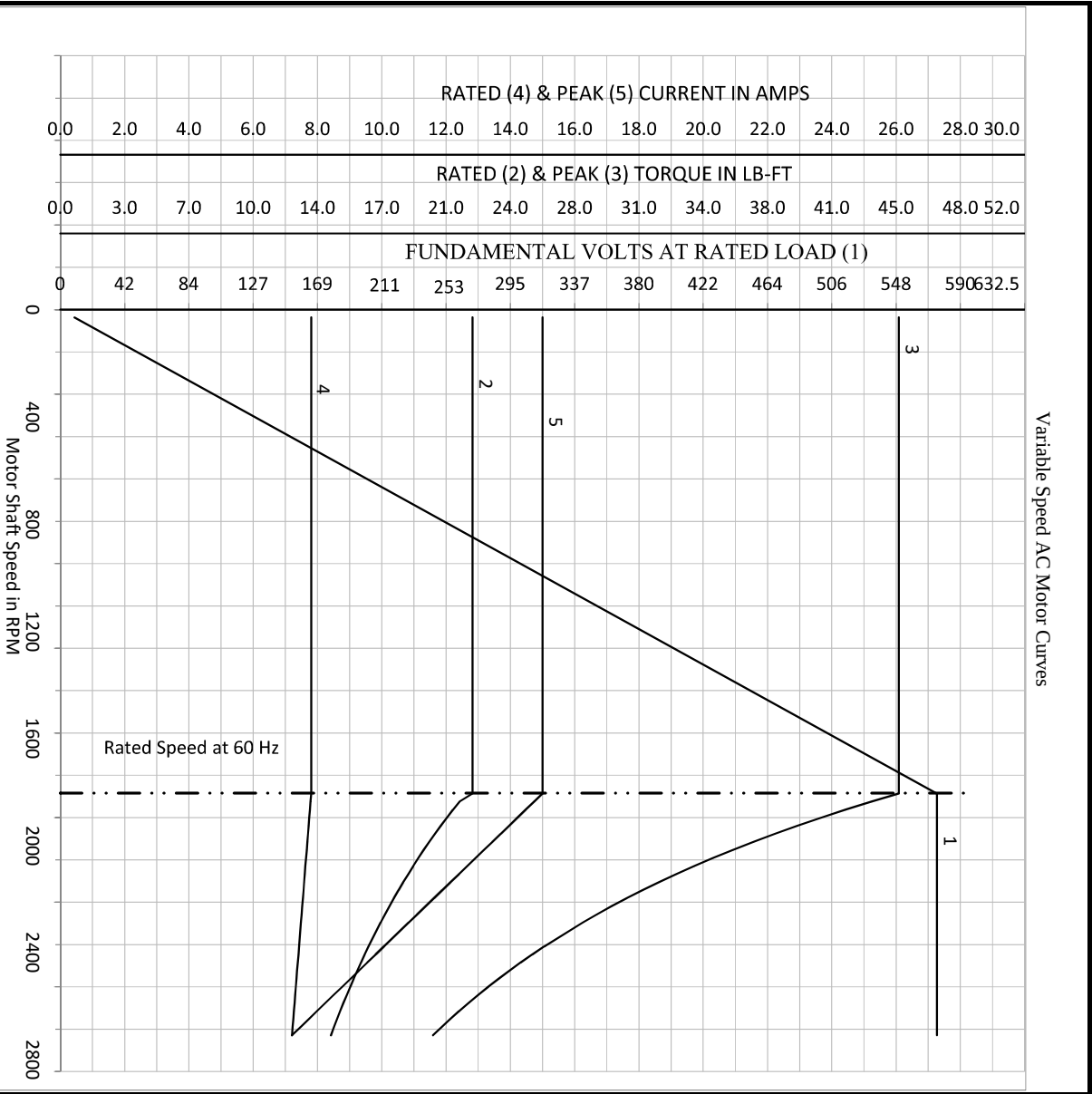
	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	575	60	3.7
1/4	1793	1.9	5.5	575	60	4.1
1/2	1786	3.7	11.0	575	60	5.0
3/4	1779	5.6	16.6	575	60	6.2
Full Load	1771	7.5	22.1	575	60	7.7
O/L	1740	14.9	45.0	575	60	14.8

Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data

BALDOR • RELIANCE				A-C MOTOR PERFORMANCE CURVES		07WGx817
DR BY	USBRANI	CK BY	CD			
APP BY	USBRANI	DATE	11/1/2024			Record: 36497

NP VOLTS	575		WYE CONN EQ. CKT OHMS PER PHASE (BASE RATING, 20C)				
NP AMPS	7.5	Base Volt	575	R1	1.180	X1	3.790
HP	7.5	NL AMPS	3.66	R2	0.666	X2	2.890
BASE SPEED	1771	Slip (Hz)	0.97			XM	85.700
PHASE/HZ	3/60	WK ² (lb-ft ²)	0.934				

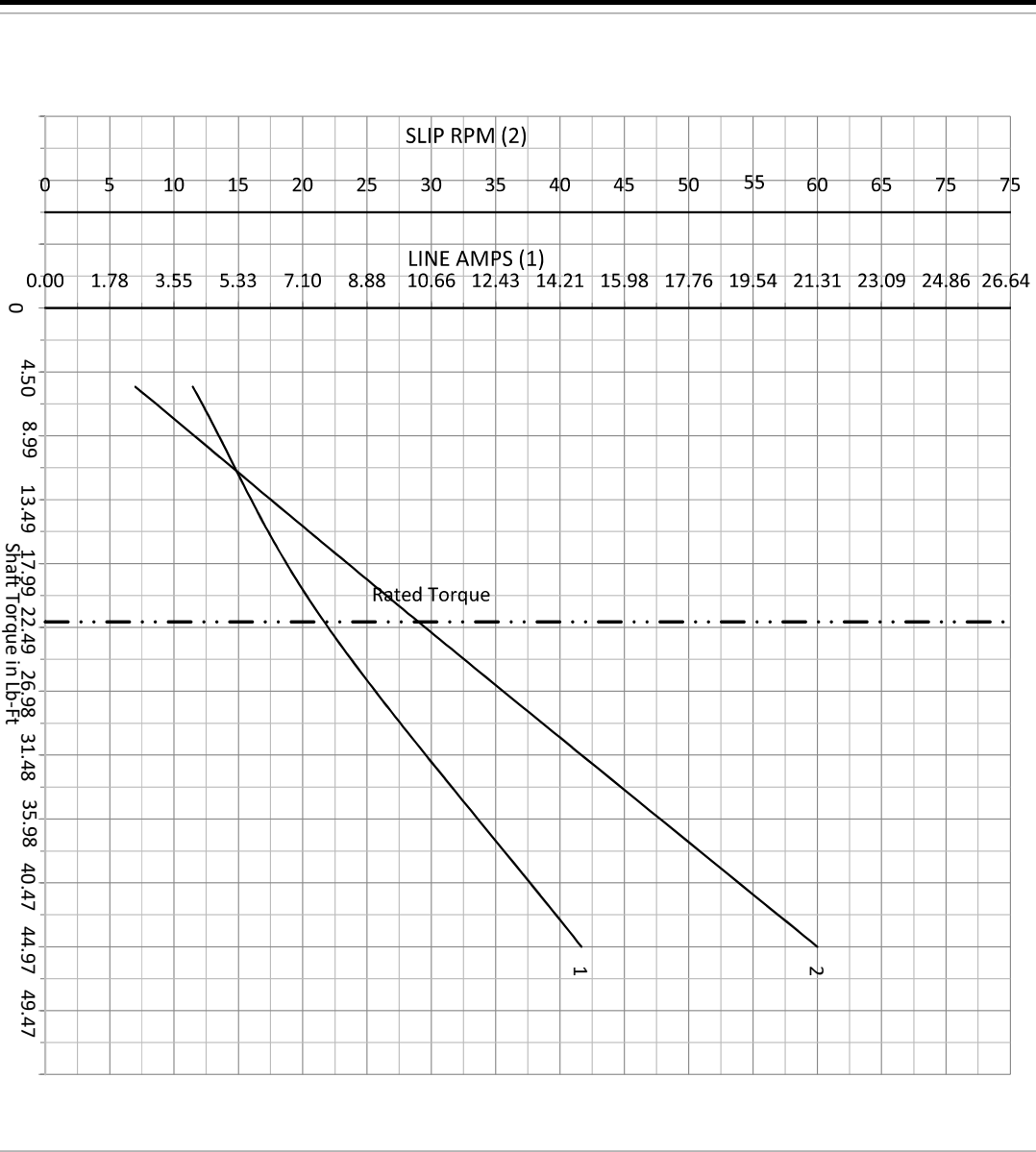


Calculated Data
Data Valid For Nameplate Speed Range only

BALDOR • RELIANCE	
DR BY <u>USBRRANI</u>	A-C MOTOR 07WGX817
CK BY <u>CD</u>	PERFORMANCE
APP BY <u>USBRRANI</u>	CURVES
DATE <u>11/1/2024</u>	Record: 36497

NP VOLTS	575	0	0	WYE CONN. EQ. CKT. OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	7.5	Base Volt	575	R1	1.180	X1	3.790
HP	7.5	NL AMPS	3.66	R2	0.666	X2	2.890
BASE SPEED	1771	Slip (HZ)	0.97	XM			
PHASE/HZ	3/60	WK2 (lb-ft/2)	0.934	85.700			

Vector PWM Inverter Duty
Variable Speed AC Motor Curves

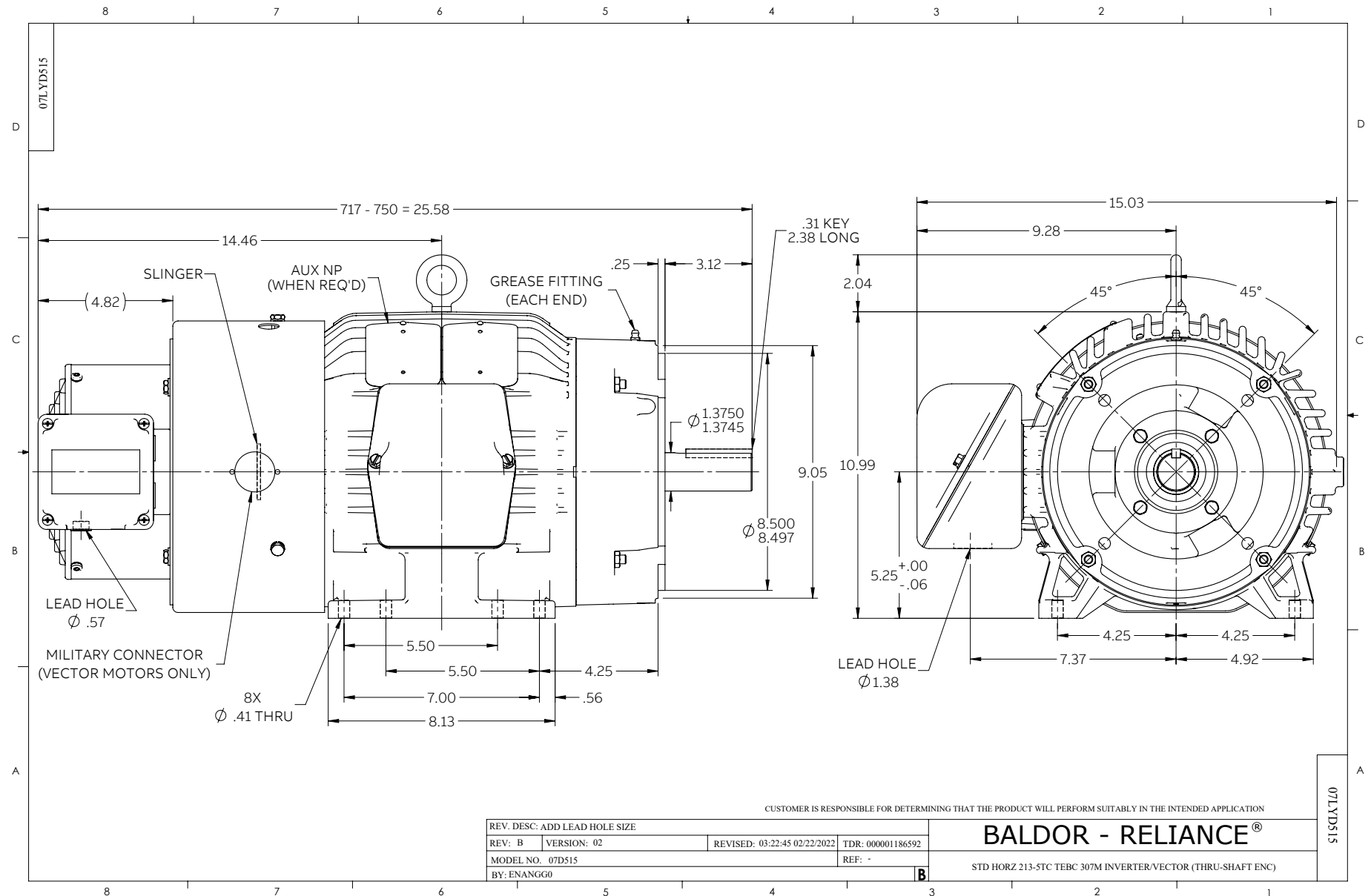


Calculated Data
Data Valid For Nameplate Speed Range only

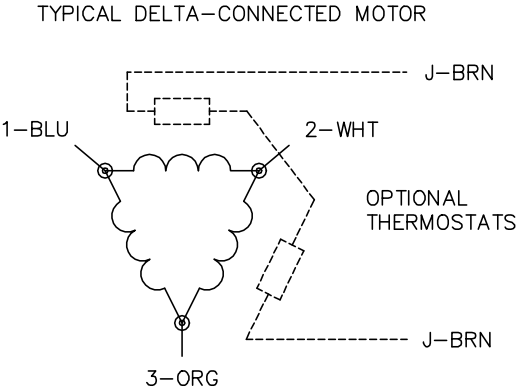
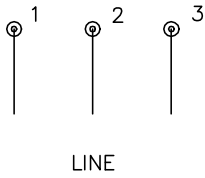
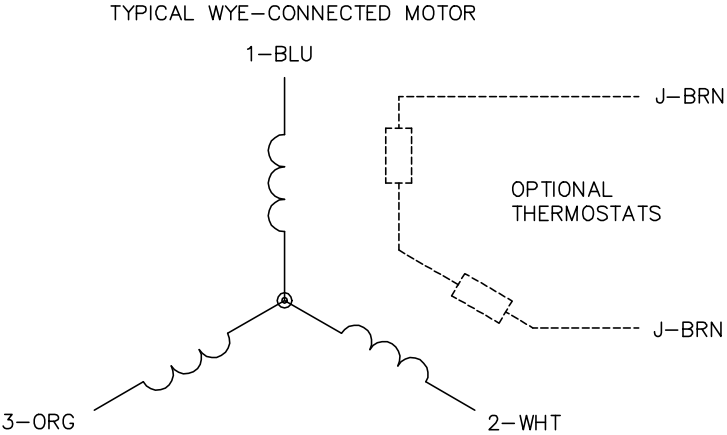


DR BY USBRRANI
CK BY CD
APP BY USBRRANI
DATE 11/1/2024

A-C MOTOR
PERFORMANCE
CURVES
07WGX817
Record: 36497



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

SH 1 of 1