



Customer information packet

105W

28M 4P GRNDR W/EXH

Specifications

Frequency	50.00 Hz
	60.00 Hz
Nameplate Output	1.5
Number of Poles	4
Phase	3
Shaft Diameter	0.875 IN
Speed	1500 rpm
	1800 rpm
Voltage	575 V

Part detail

Revision	A
Type	AC
Mech. spec.	G10-163
Base	
Status	PRD/A
Elec. spec.	G0WG0361
Layout	G0LY0163
Eff. date	07-23-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	02-23-2023

Nameplate

NP0113			
CAT.NO.	105W		
HP	1.5	VOLTS	575
PHASE	3	AMPS	1.75//1.65
HZ	50//60	RPM	1500//1800
SER.NO			
SPEC.	G10-163G0361		

Accessories

Part number	Description	Multiplier
GA16	PEDESTAL INDUSTRIAL, CAST IRON 6" - 10"	A8
GA14	PEDESTAL FABRICATED STEEL W/SHELVES	A8
GA20	PEDESTAL INDUSTRIAL, CAST IRON 8"-14"	A8
GA20E	PEDESTAL LIGHT INDUSTRIAL,STEEL	A8
GA24	WATER POT	A8
B102	10" 36 GRIT GRINDING WHEEL	A8
B103	10" 60 GRIT GRINDING WHEEL	A8
GA9	PAIR LIGHTED EYESHIELDS	A8
GA9-1	SINGLE LIGHTED EYESHIELD	A8
GA9S	PAIR EYESHIELDS W/ ON-OFF SWITCH	A8
GA11	PAIR EYESHIELDS	A8
DC10	DUST CONTROL UNIT	A8

AC Induction Motor Performance Data

Record # 91032

Preliminary Data Sheet

Winding: G0WG0361-R001			Type: G1028M		Enclosure: TENV	
Nameplate Data				575 V, 50 Hz: Single Voltage Motor		
Rated Output (HP)		1.5		Full Load Torque		5.53 LB-FT
Volts		575		Start Configuration		direct on line
Full Load Amps		1.75//1.65		Breakdown Torque		20.85 LB-FT
R.P.M.		1500//1800		Pull-up Torque		17.11 LB-FT
Hz	50//60	Phase	3	Locked-rotor Torque		20.75 LB-FT
NEMA Design Code		- KVA Code		Starting Current		14.24 A
Service Factor (S.F.)		1		No-load Current		1.13 A
NEMA Nom. Eff.		0 Power Factor		Line-line Res. @ 25°C		27.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		101°C
				Locked-rotor Power Factor		80.0999
				Rotor inertia		0.202 lb-ft²

Load Characteristics 575 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	54	68	77	83	87
Efficiency	74.8	82.2	83.4	82.4	80.5	77.6
Speed	1482	1466	1449	1430	1409	1384
Line amperes	1.16	1.28	1.49	1.77	2.1	2.5

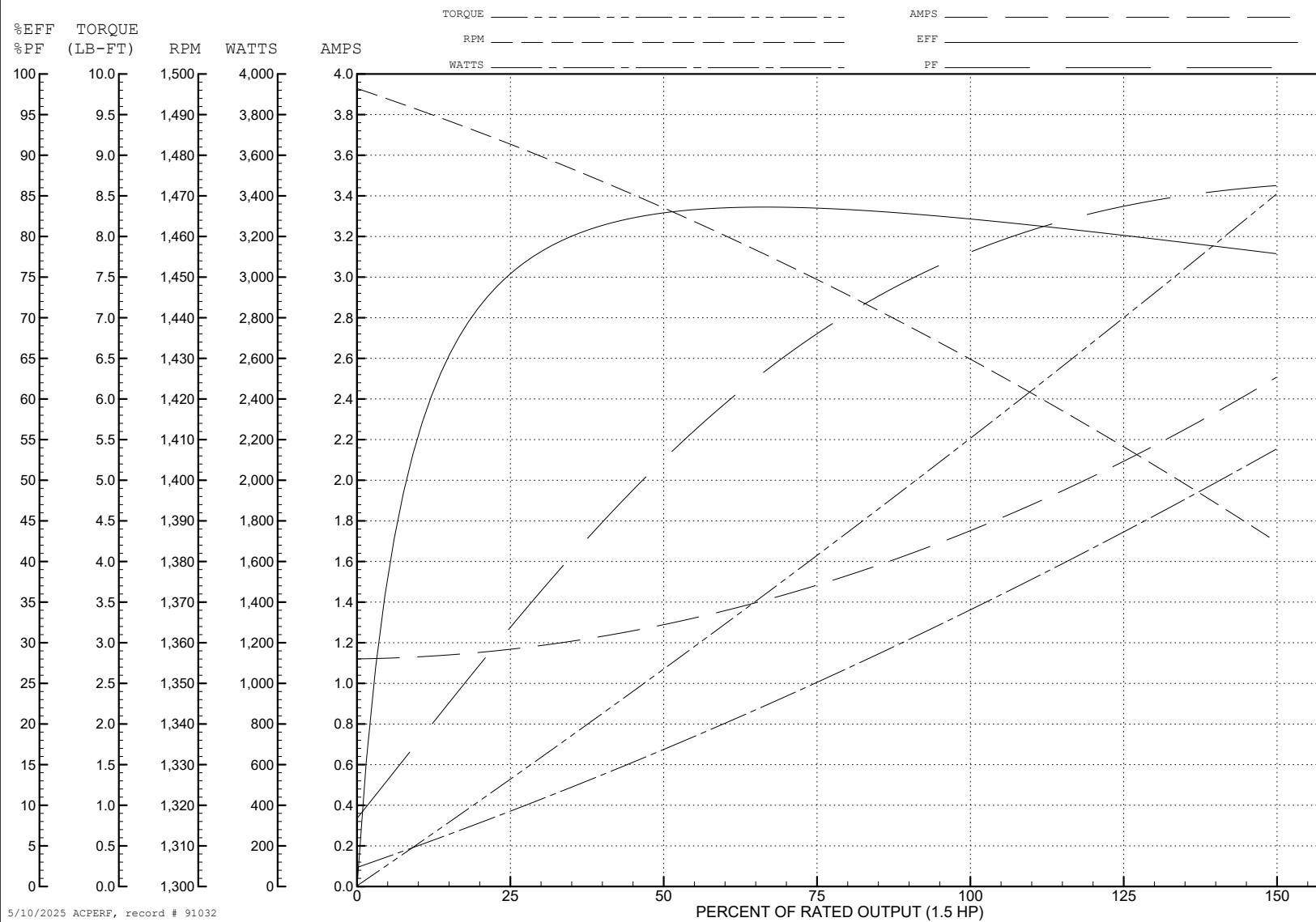
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WINDING # G0WG0361

Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 1430 RPM 575 V G1028M

TORQUES (LB-FT): PO=20.85 PU=17.11 LR=20.75 LRA=14.24



AC Induction Motor Performance Data

Record # 91033

Preliminary Data Sheet

Winding: G0WG0361-R001			Type: G1028M		Enclosure: TENV			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		1.5	Full Load Torque		4.61 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		1.75//1.65	Breakdown Torque		15.92 LB-FT			
R.P.M.		1500//1800	Pull-up Torque		12.19 LB-FT			
Hz	50//60	Phase	3	Locked-rotor Torque		14.78 LB-FT		
NEMA Design Code		-	KVA Code	-	Starting Current		12.99 A	
Service Factor (S.F.)		1	No-load Current		0.836 A			
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C		27.9 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		82°C	
					Locked-rotor Power Factor		73.863	
					Rotor inertia		0.202 lb-ft²	

Load Characteristics 575 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	40	63	76	83	88	89
Efficiency	80.4	85.5	85.5	83.9	81.6	78.5
Speed	1778	1759	1739	1716	1691	1661
Line amperes	0.891	1.05	1.3	1.61	1.97	2.4

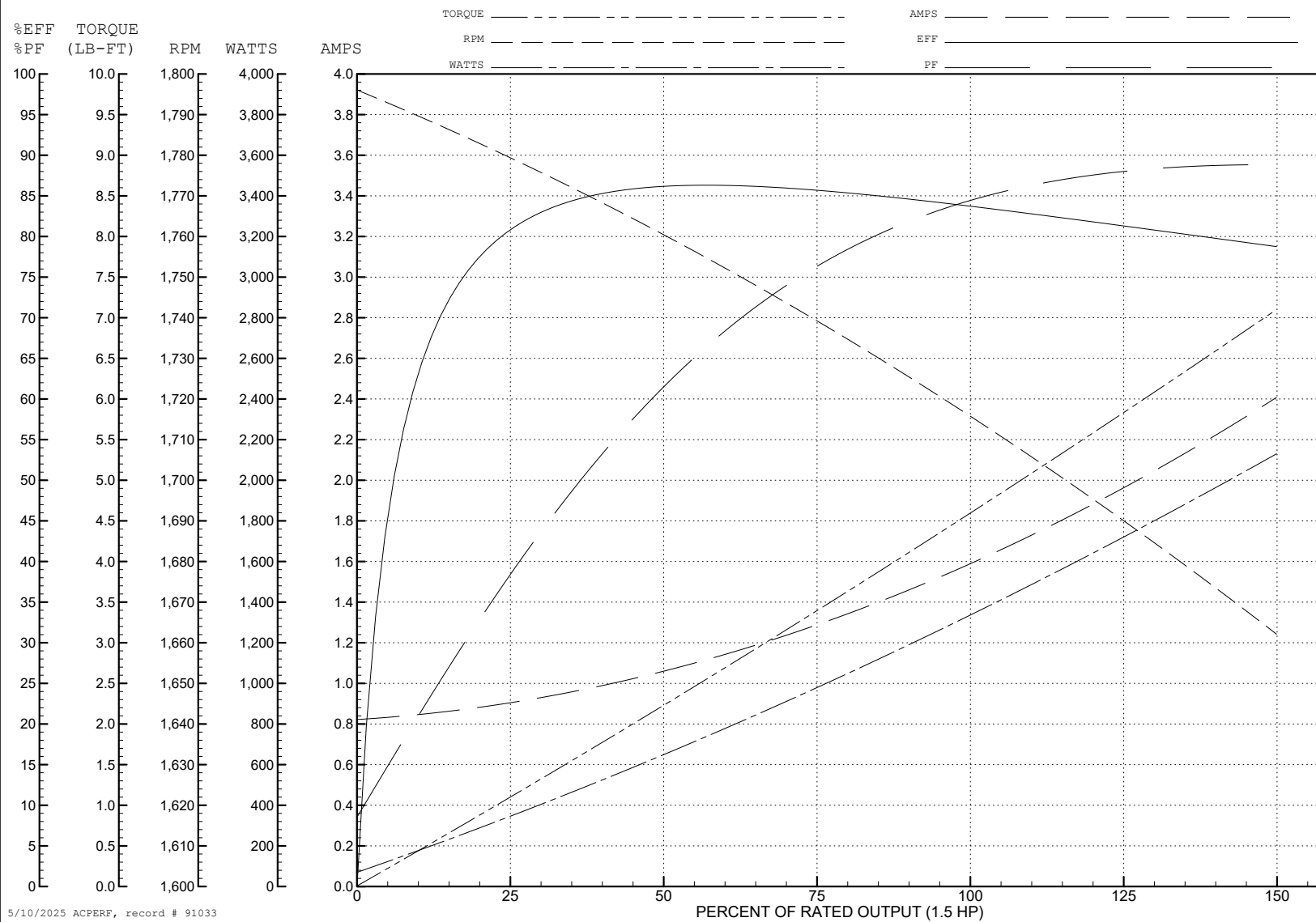
ABB Motors and Mechanical Inc.

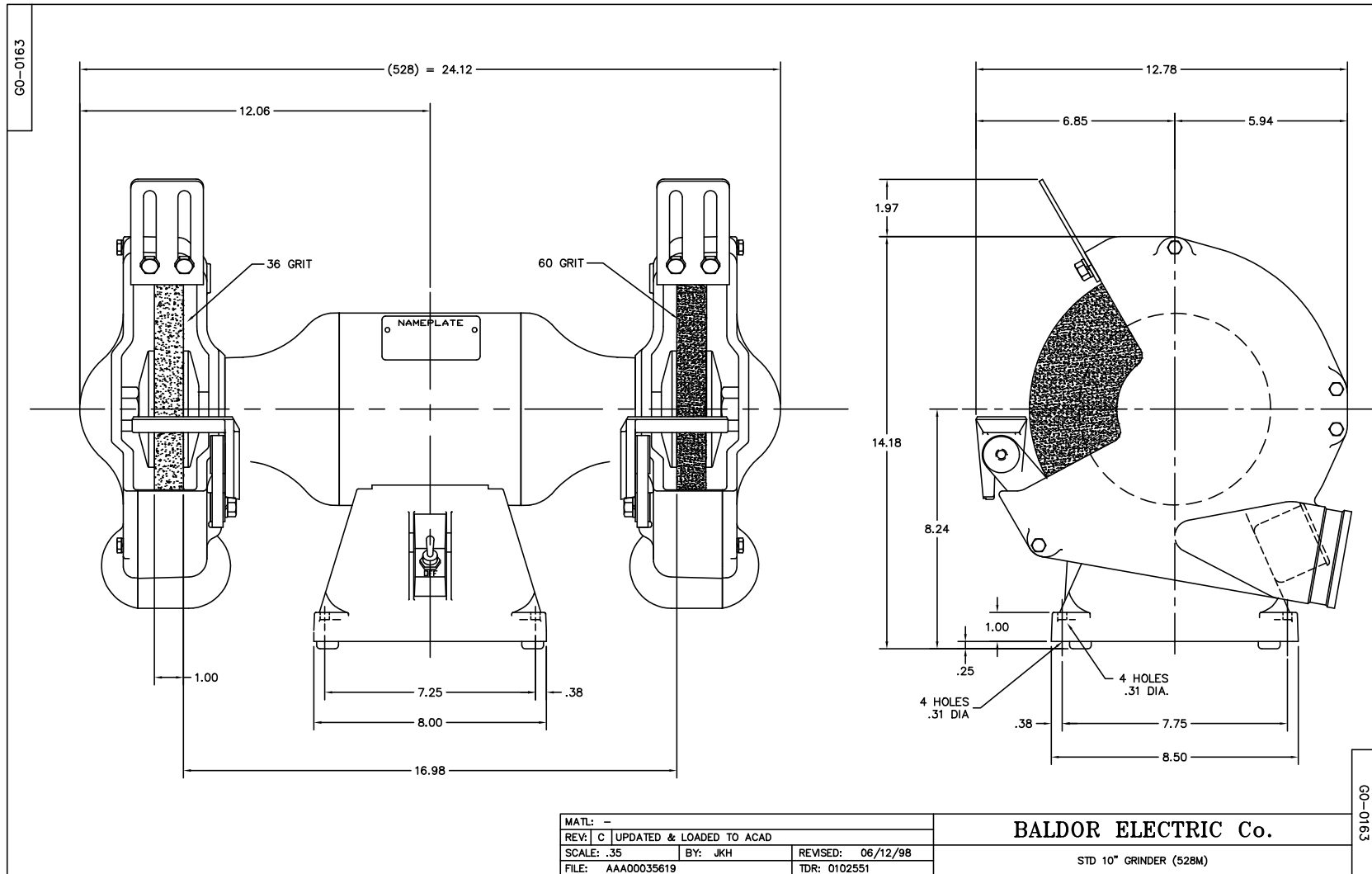
WINDING # G0WG0361

Typical performance - not guaranteed values.

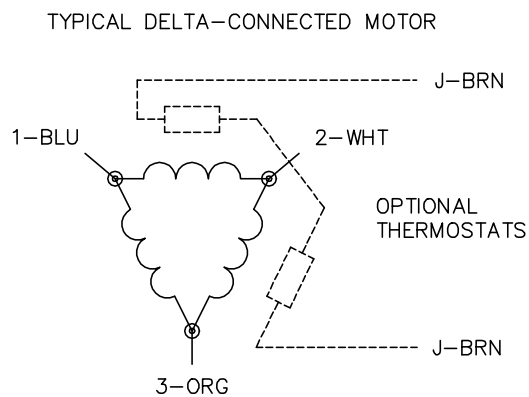
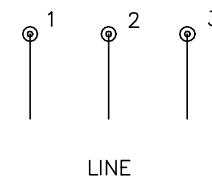
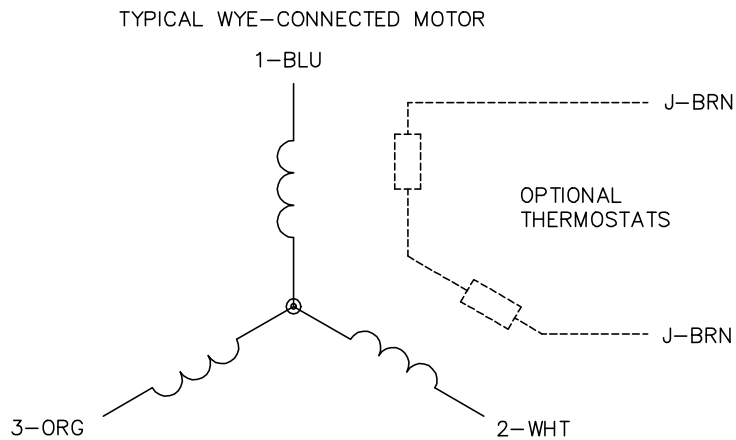
1.5 HP 3 PH 60 HZ 1716 RPM 575 V G1028M

TORQUES (LB-FT): PO=15.92 PU=12.19 LR=14.78 LRA=12.99





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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