



Customer information packet

CP3587T-4

2HP, 1740RPM, 3PH, 60HZ, 145T, 0528M, TEFC, F1

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
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	2.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	Standard Lifting Lugs

Part detail

Revision	S
Type	AC
Mech. spec.	05E001
Base	
Status	NLA/A
Elec. spec.	05WGW502
Layout	05LYE001
Eff. date	06-16-2009
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.75 IN
Power Factor	79
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1740 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

NP1258E									
CAT.NO.	CP3587T-4								
SPEC.	05E001W502H1								
HP	2								
VOLTS	460								
AMP	2.8								
RPM	1740								
FRAME	145T	HZ		60		PH		3	
SER.F.	1.15	CODE		K	DES		B	CL	F
NEMA-NOM-EFF	84	PF		79					
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V						N/A	
DE	6205	ODE		6203					
ENCL	TEFC	SN							

NP0090E	
FRONT	6203
PULLEY	6205
LUBRICATE WITH	
GREASE	POLYREX EM

Parts list

Part number	Description	Quantity
SA019264	SA 05E001W502H1	1.000 ea
RA015317	RA 05E001W502H1	1.000 ea
S/P101-000-000	EPACT PROCEDURES-FS PLANT-POLYREX EM, NO	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB1000A02G	CONDUIT BOX, MACH GRAY	1.000 ea
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
10XN2520S06	1/4 20X3/8 HX HD CAP S.S.	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	2.000 ea
35EP1100A53G	SPL FRONT EP 35M TEFC W/GREASER & RELIEF	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP1102A28G	SPL PULLEY 203 BRG. ENCL W/GREASER (GRAY	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA3100A37	THRUBOLT 10-32 X 8.500	4.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH1000A01G	35FH1000A01 W/GRAY FLUIDIZ	1.000 ea
10XN2520A16	1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED	3.000 ea
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	1.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 ea
06CB1500A01G	CONDUIT BOX LID, MACH GRAY	1.000 ea
06GS1003	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
HA1005A05SP	SLINGER, OD 1.50, ID .659, 203 BRG	1.000 ea
HW4600B32SP	V-RING SLINGER 1.000 X 1.540 X .24 VITON	1.000 ea

HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 ea
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
MG1025N19	WILKOFAS, 778.50, RELIANCE BLUE-GREEN 8	0.022 ga
LB1624	WARNING LABEL	1.000 ea
LB1125C04	STD-E (STOCK CTN LABEL STD-E WITH FLAG)	1.000 ea
NP1258E	SS CP UL CSA CC	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP0090E	SS NO LOGO'S BEARING & GREASE DATA	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2400 bx)4/22	1.000 ea

Accessories

Part number	Description	Multiplier
35-1300	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 179

Typical performance - not guaranteed values

Winding: 05WGW502-R001			Type: 0528M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		2		Full Load Torque		6 LB-FT
Volts		460		Start Configuration		direct on line
Full Load Amps		2.8		Breakdown Torque		24 LB-FT
R.P.M.		1740		Pull-up Torque		17.5 LB-FT
Hz		60 Phase		Locked-rotor Torque		19 LB-FT
NEMA Design Code		B KVA Code		Starting Current		22.7 A
Service Factor (S.F.)		1.15		No-load Current		1.6 A
NEMA Nom. Eff.		84 Power Factor		Line-line Res. @ 25°C		7.87 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		36°C
S.F. Amps				Temp. Rise @ S.F. Load		41°C

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	57	70	77	80	82	79
Efficiency	74.8	83.2	85.2	85.1	84	82.2	84.4
Speed	1786	1771	1756	1738	1718	1696	1726
Line amperes	1.69	1.99	2.37	2.84	3.4	4.03	3.18

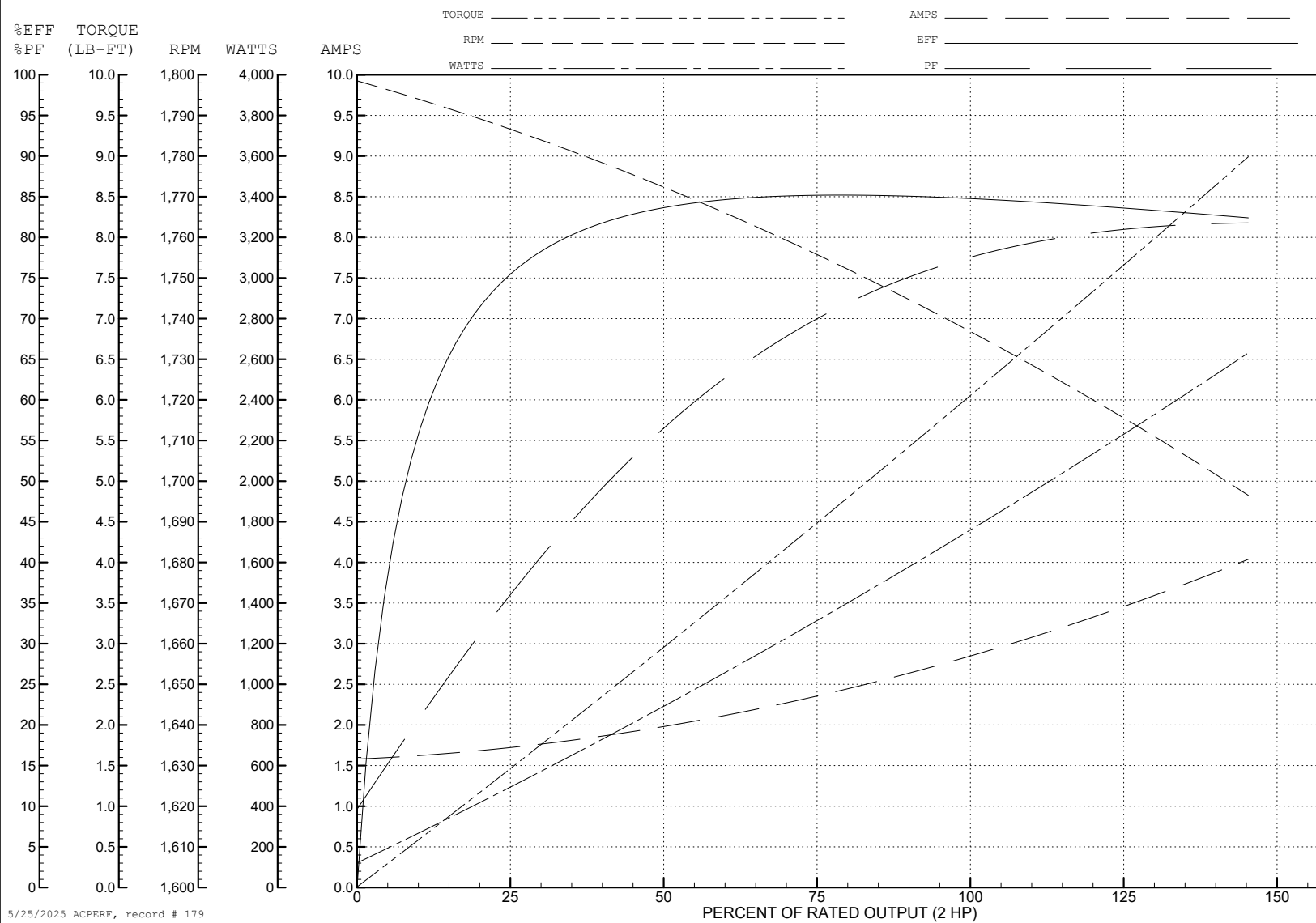
ABB Motors and Mechanical Inc.

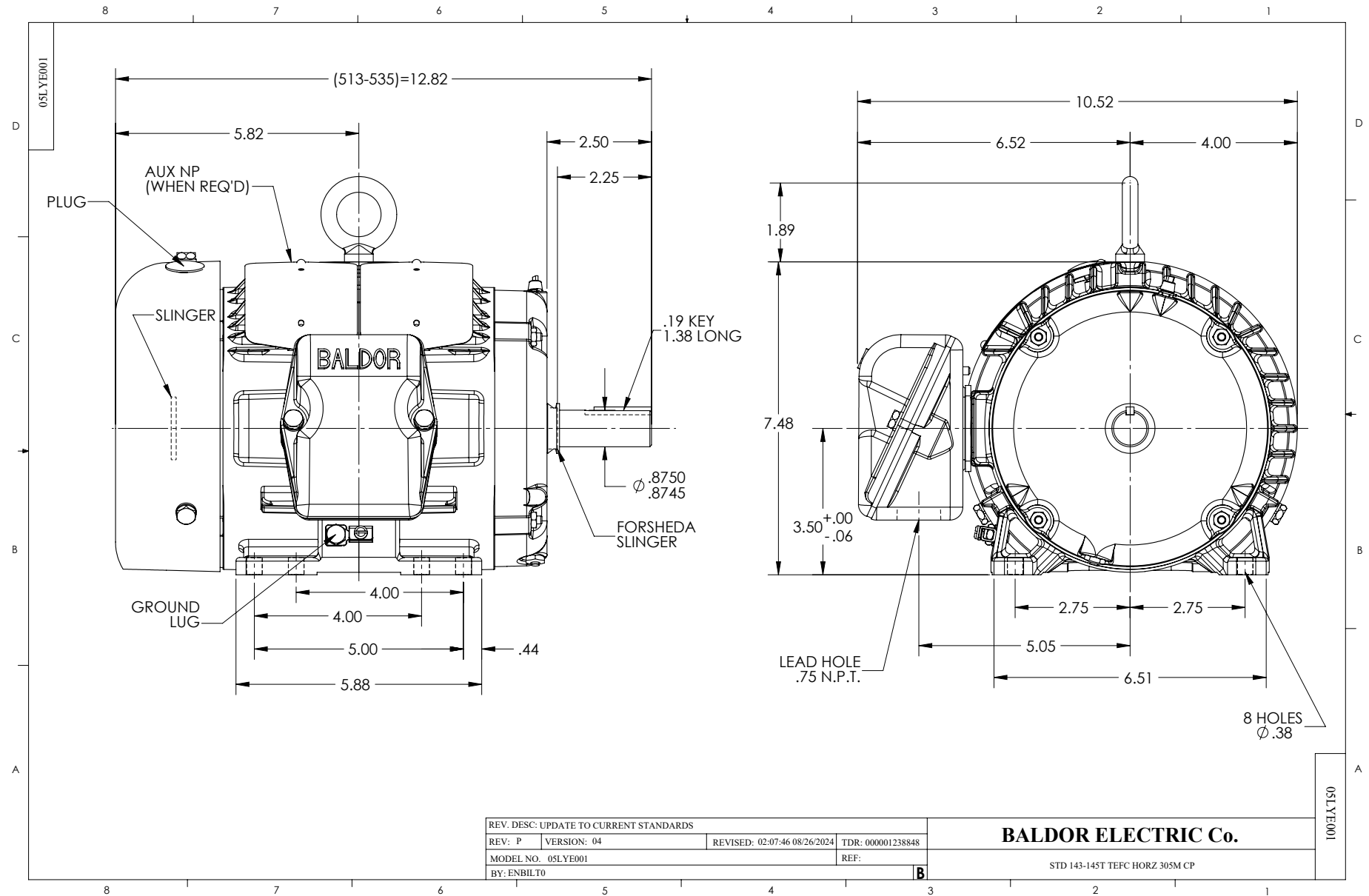
WINDING # 05WGW502

Typical performance - not guaranteed values.

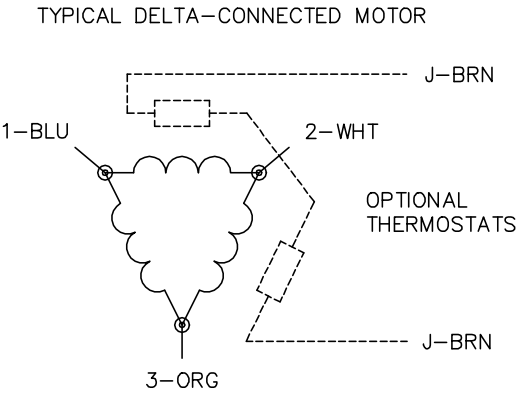
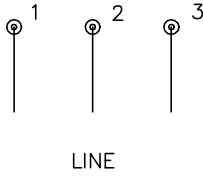
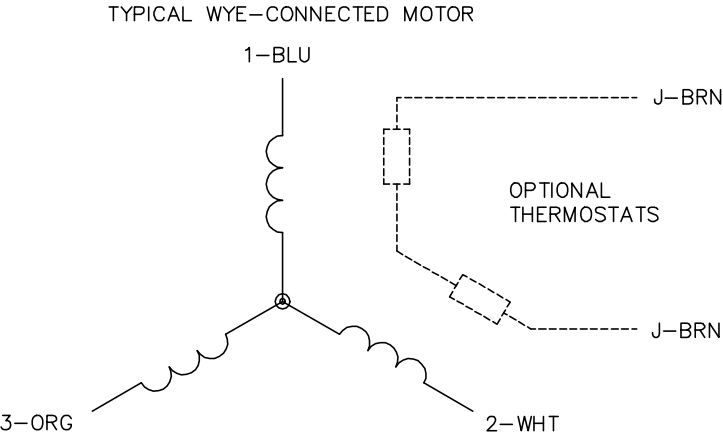
2 HP 3 PH 60 HZ 1740 RPM 460 V 0528M

TORQUES (LB-FT): PO=24 PU=17.5 LR=19 LRA=22.7





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