

BALDOR® • RELIANCE 

Product Information Packet

VECP83587T-4

2HP,1760RPM,3PH,60HZ,145T,0532M,TEFC,W6

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	05WGX498	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	05F161	Layout:	05LYF161	Poles:	04	Created Date:	03-29-2022
Base:	N	Eff. Date:	03-29-2022	Leads:	3#18		

Specs			
Catalog Number:	VECP83587T-4	Inverter Code:	Inverter Duty
Enclosure:	TEFC	KVA Code:	L
Frame:	145TC	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Iron	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	2.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 18 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Ring Terminals
XP Class and Group:	CLI GP A,B,C,D	Motor Type:	0534M
XP Division:	Division II	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	77
	CSA EEV	Product Family:	Chem Process S/P 32-8 IEEE 841
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	No Mounting	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End
Constant Torque Speed Range:	1.5	Shaft Ground Indicator:	No Shaft Grounding

Current @ Voltage:	2.700 A @ 460.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	No Slinger
Drip Cover:	Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
Insulation Class:	F	Winding Thermal 2:	None
		XP Temp Code:	T4

Nameplate NP3235E			
CAT.NO.	VECP83587T-4		
SPEC.	05F161X498G2		
HP	2	TE	IP 56
VOLTS	460		
AMPS	2.74		
R.P.M.	1760		
FRAME	145T	HZ	60
SER.F.	1.15	CODE	J
RATING	40C AMB-CONT		
SN			
DE	6205	ODE	6205
NEMA NOM. EFF.	86.5	P.F.	79
GUAR. MIN. EFF.	84	CC	010A
T. CODE	T4	TEMP=	135
		PH	3
		CLASS	F

Nameplate NP3186E

SPEC.	05F161X498G2					
ABMA DE BRG	25BC02X30X					
ABMA ODE BRG	25BC02X30X					
GREASE	POLYREX EM					
MOTOR WEIGHT	64		ROTOR BARS	28	STATOR BARS	36
MAX. R.P.M.	2700		MAX. KVAR	.5		
INV. TYPE	PWM					
T=	135					
CHP	60	TO	90			
CT	1.3	TO	60			
VT	0-	TO	60			
HTR-VOLTS		HTR-AMPS				
HTR-WATTS					MAX. SPACE HEATER TEMP.	

Parts List		
Part Number	Description	Quantity
SA403030	SA 05F161X498G2	1.000 EA
RA394329	RA 05F161X498G2	1.000 EA
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
HW3201A05	3/8-16 EYEBOLT	1.000 EA
06CB1001A01G	CONDUIT BOX, MACH GRAY	1.000 EA
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 EA
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	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	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
05EP1100A03G	FREP TEFC 203,GRSR,RLF,NO DRAIN	1.000 EA
HW4601B22	INPRO SEAL, 205 BRG, MINI66	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
35EP1329A33G	EP ENCL,GRSR,RLF,(2).25-28 DRAINS, INPRO	1.000 EA
HW4601B22	INPRO SEAL, 205 BRG, MINI66	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4010A01	T-DRAIN PLUG,416 S.S.,W/ 1/4-28 THD & .0	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH1000A27G	35FH1000A27 W/GRAY FLUIDIZ	1.000 EA
10XN2520A16	1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED	3.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 EA
35FH4500A01	DRIP COVER, STAMPED X - W/PRIMED	1.000 EA
HA2001A13	35-10103 SPACER WELKER	3.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	3.000 EA
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	1.000 EA
06CB1503A01G	LIPPED CONDUIT BOX LID, MACH GRAY EPOXY	1.000 EA
06GS1009	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
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
MJ5004A59	ADHESIVE LOCTITE #401 SURFACE INSENSITIV	0.010 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT
MJ1000A73	INPRO P-80 ASSEMBLY LUB./ 1 QT. CONTAIN	0.001 QT
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LT0019A00	MOTOR NO-LOAD PERFORMANCE DATA SHEET	1.000 EA
WD1000D21	TRM,T&B #B71M,RING,18-14,.25,NON-INSL	3.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB

Product Information Packet: VECP83587T-4 - 2HP,1760RPM,3PH,60HZ,145T,0532M,TEFC,W6

MG1025N19	WILKOFAST, 778.50, RELIANCE BLUE-GREEN	0.010 GA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
NP3235E	SS IEEE841 DIV-2 UL CSA-C US EEV PREM	1.000 EA
NP3186E	SS IEEE841 INV AUX DATA INFORMATION	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

AC Induction Motor Performance Data

Record # 91492

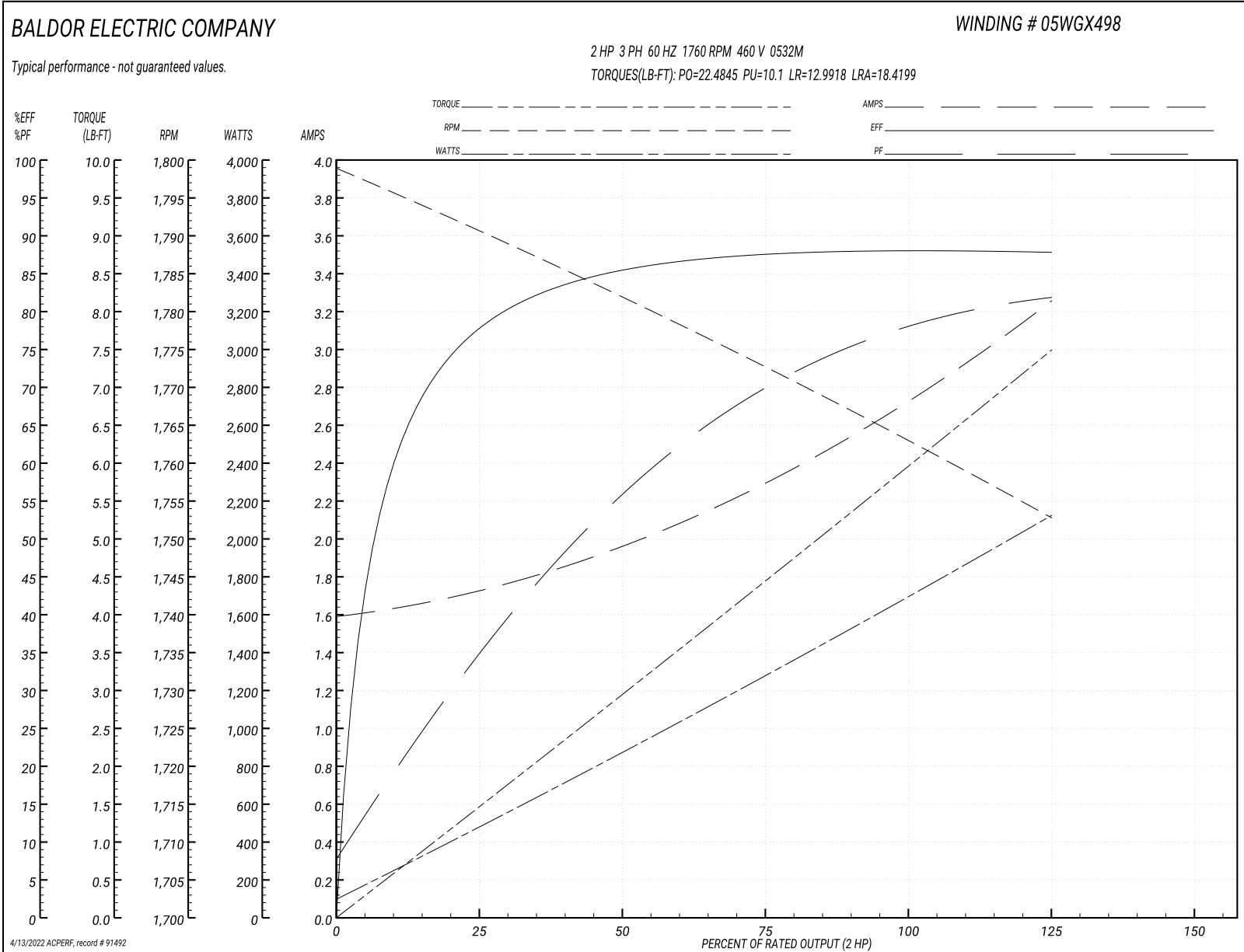
Typical performance - not guaranteed values

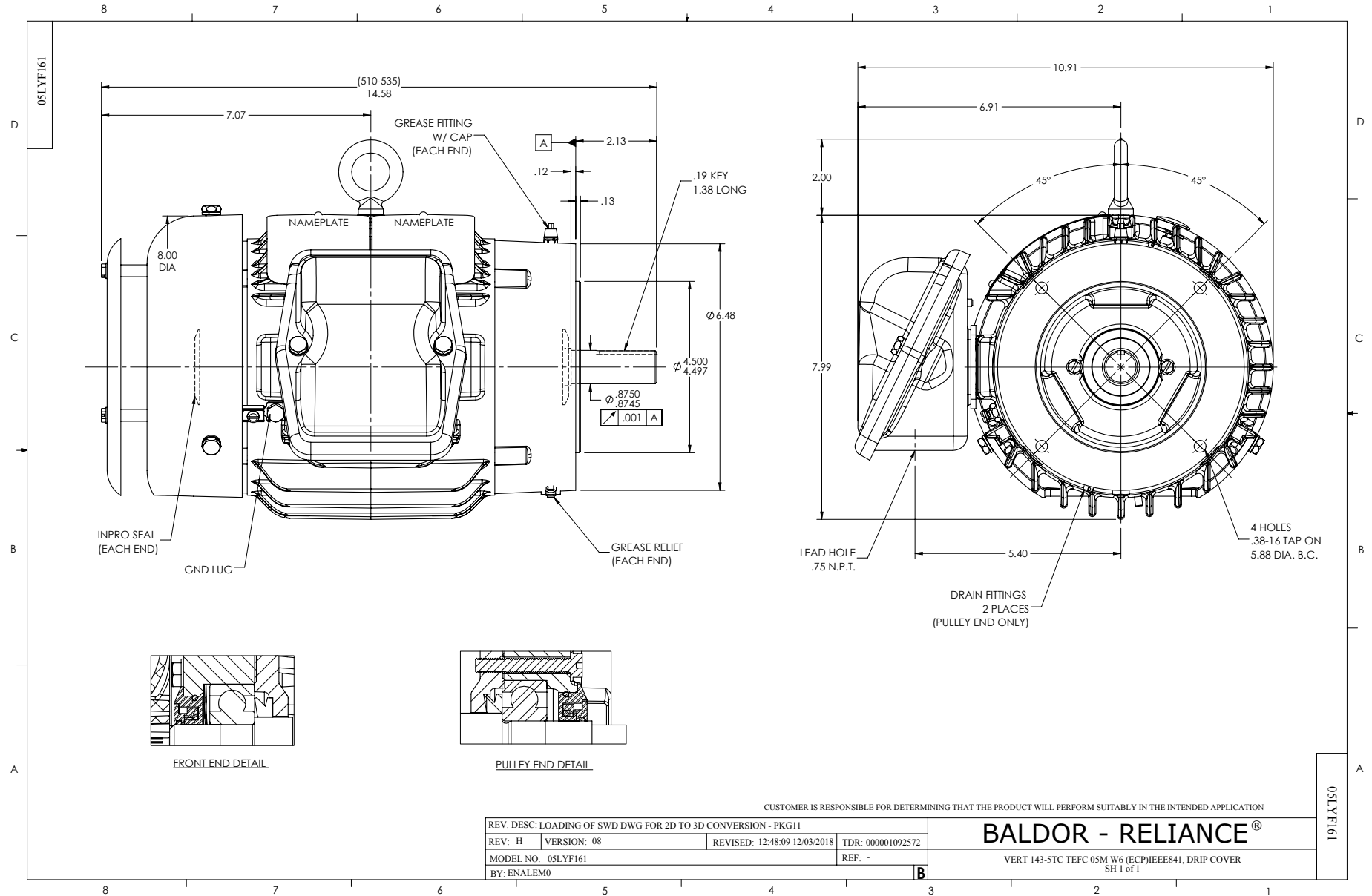
Winding: 05WGX498-R001		Type: 0532M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2	Full Load Torque	5.9591 LB-FT
Volts	460	Start Configuration	direct on line
Full Load Amps	2.7	Breakdown Torque	22.4845 LB-FT
R.P.M.	1760	Pull-up Torque	10.1 LB-FT
Hz	60 Phase	Locked-rotor Torque	12.9918 LB-FT
NEMA Design Code	B KVA Code	Starting Current	18.4199 A
Service Factor (S.F.)	1.15	No-load Current	1.6054 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	7.17 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	36°C
S.F. Amps		Temp. Rise @ S.F. Load	44°C
		Locked-rotor Power Factor	49.2558
		Rotor inertia	0.189 lb-ft ²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35.415	56.2717	69.586	79	80.6773	82.2997	80
Efficiency	77.6949	85.4101	87.5718	86.5	87.9463	87.7685	77.7
Speed	1790.595	1781.865	1772.685	1763.055	1756.935	1752.705	3475
Line amperes	1.7048	1.9509	2.3088	2.7434	3.036	3.2423	1.88

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values





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