BALDOR • RELIANCE

Product Information Packet

CESSWDM3546T-5

1HP,1765RPM,3PH,60HZ,143TC,3524M,TEFC,F1

Part Detail

Revision:	S	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	35WGM398	**CD Diagram:**	CD0006	**Mfg Plant:**	
Mech. Spec:	35VV818	**Layout:**	35LYVV818	**Poles:**	04	**Created Date:**	06-22-2010
Base:	RG	**Eff. Date:**	08-12-2019	**Leads:**	3#18		

Specs

Catalog Number:	CESSWDM3546T-5	**KVA Code:**	N
Enclosure:	TEFC	**Lifting Lugs:**	No Lifting Lugs
Frame:	143TC	**Locked Bearing Indicator:**	Locked Bearing
Frame Material:	Stainless Steel	**Motor Finish:**	UNPAINTED
Output @ Frequency:	1.000 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:	575.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	3524M
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	UR	**Power Factor:**	70
	CSA	**Product Family:**	Wash Down All Stainless Steel
Auxillary Box:	No Auxillary Box	**Pulley End Bearing Type:**	Sealed Bearing
Auxillary Box Lead Termination:	None	**Pulley Face Code:**	C-Face
Base Indicator:	Rigid	**Pulley Shaft Indicator:**	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Rodent Screen:**	None
Blower:	None	**Shaft Extension Location:**	Pulley End
Current @ Voltage:	1.250 A @ 575.0 V	**Shaft Ground Indicator:**	No Shaft Grounding
Design Code:	B	**Shaft Rotation:**	Reversible

Drip Cover:	No Drip Cover	**Shaft Slinger Indicator:**	No Slinger
Duty Rating:	CONT	**Speed Code:**	Single Speed
Electrically Isolated Bearing:	Not Electrically Isolated	**Motor Standards:**	NEMA
Feedback Device:	NO FEEDBACK	**Starting Method:**	Direct on line
Front Face Code:	Standard	**Thermal Device - Bearing:**	None
Front Shaft Indicator:	None	**Thermal Device - Winding:**	None
Heater Indicator:	No Heater	**Vibration Sensor Indicator:**	No Vibration Sensor
Insulation Class:	F	**Winding Thermal 1:**	None
Inverter Code:	Inverter Ready	**Winding Thermal 2:**	None

Nameplate NP1951A05

CAT.NO.	CESSWDM3546T-5						
SPEC.	35VV818M398G1						
HP	1						
VOLTS	575						
AMP	1.25						
RPM	1765						
FRAME	143TC	**HZ**	60			**PH**	3
SER.F.	1.15	**CODE**	N	**DES**	B	**CLASS**	F
NEMA-NOM-EFF	87.5	**PF**	70				
RATING	40C AMB-CONT						
CC	010A					**USABLE AT 208V**	
DE	6205	**ODE**	6203				
ENCL	TEFC	**SN**					

Parts List

Part Number	Description	Quantity
SA199205	SA 35VV818M398G1	1.000 EA
RA186543	RA 35VV818M398G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB5001A17	KOBX KIT, (ALL STAINLESS) W/ .75 NPT	1.000 EA
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 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
35FE1913A02	FR ENDPLATE ASSY	1.000 EA
HW4606A01	JM CLIPPER/SEAL (WDE-0667-1064-BH49)	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35PE1914A02	PU EP ASSY. FOR LOCKED BRG	1.000 EA
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 EA
12XN1032S22	10-32 X 1 3/8 SLOT HEX, STAINLESS STEEL	2.000 EA
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	2.000 EA
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A39	IEC FH NO GREASER DEBURR/CLEAN - SS	1.000 EA
10XN1032S06	HEX HD CAP SCREW, SS	3.000 EA
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB

Parts List (continued)

Part Number	Description	Quantity
HA3100S14	THRUBOLT 10X32 X 8.875 302 OR 303 SS	4.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA

AC Induction Motor Performance Data

Record # 31725 - Typical performance - not guaranteed values

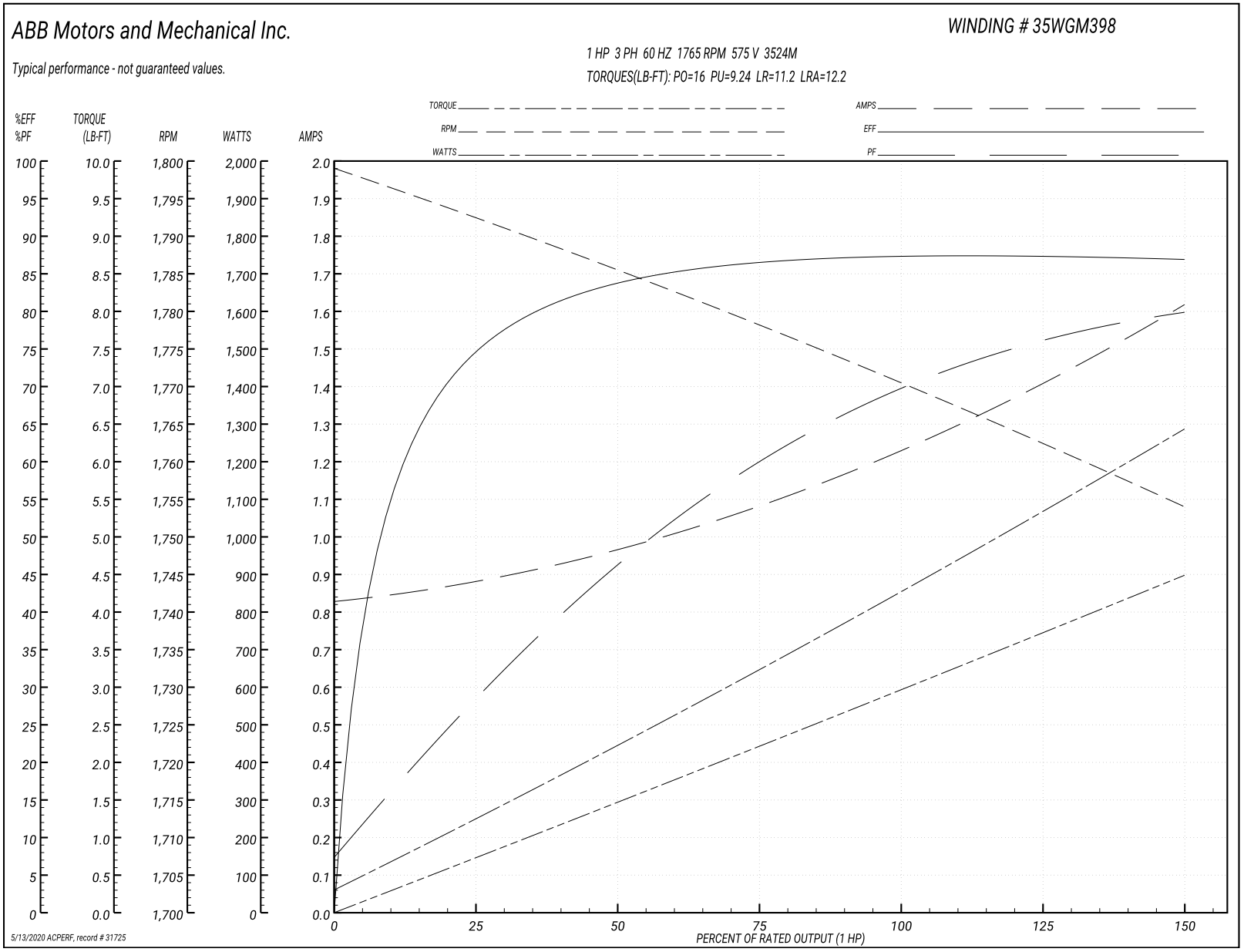
Winding: 35WGM398-R001	**Type:** 3524M	**Enclosure:** TEFC

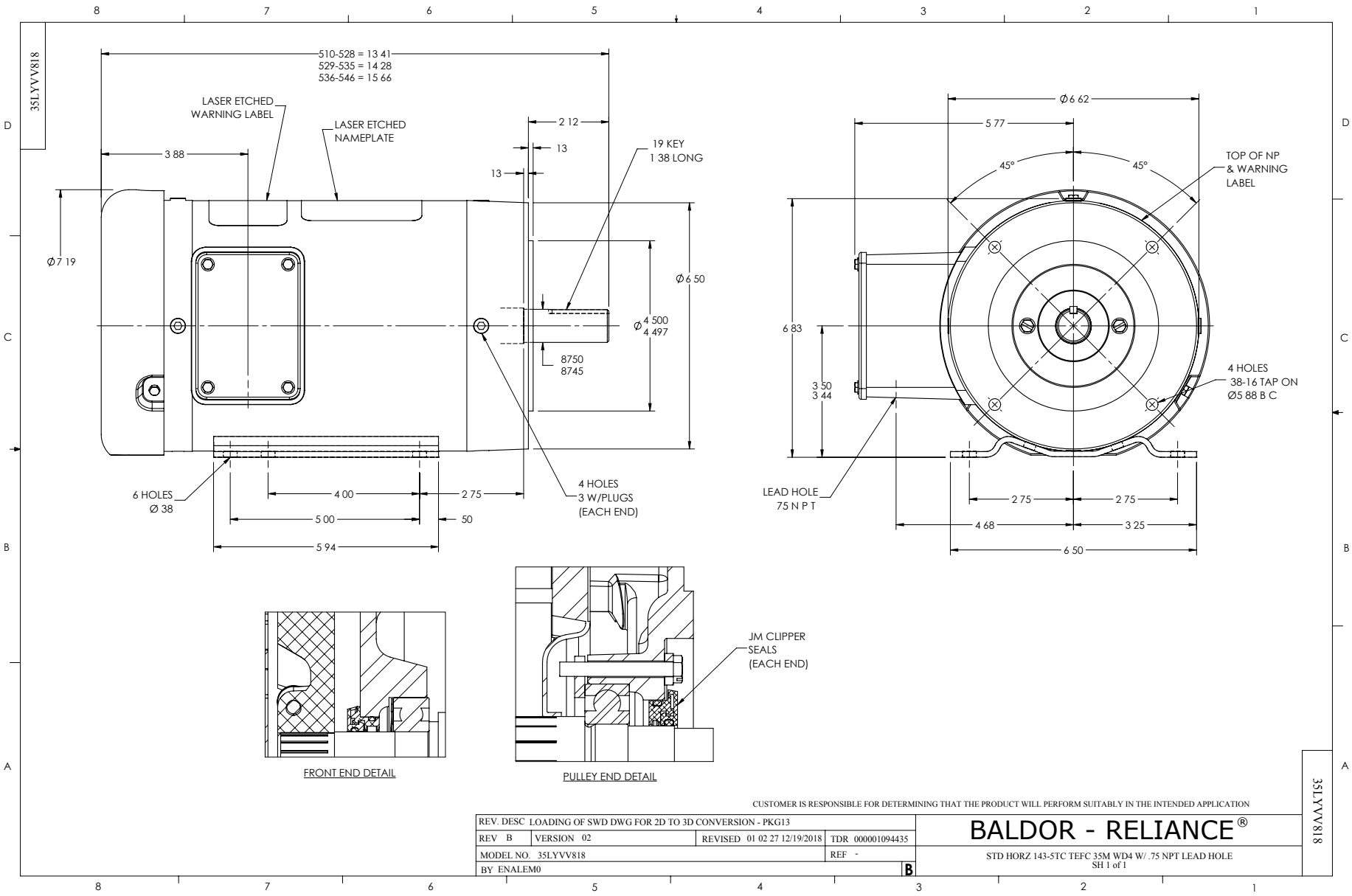
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1			Full Load Torque	3 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	1.25			Breakdown Torque	16 LB-FT
R.P.M.	1765			Pull-up Torque	9.24 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	11.2 LB-FT
NEMA Design Code	B	KVA Code	N	Starting Current	12.2 A
Service Factor (S.F.)	1.15			No-load Current	0.834 A
NEMA Nom. Eff.	87.5	Power Factor	70	Line-line Res. @ 25ºC	18.7 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	26°C
S.F. Amps				Temp. Rise @ S.F. Load	30°C
				Locked-rotor Power Factor	49
				Rotor inertia	0.142 LB-FT2

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	47	60	70	76	80	74
Efficiency	73.9	83.4	86.4	87.9	87.1	86.9	87.4
Speed	1793	1785	1778	1771	1762	1754	1766
Line amperes	0.874	0.96	1.08	1.24	1.42	1.61	1.35

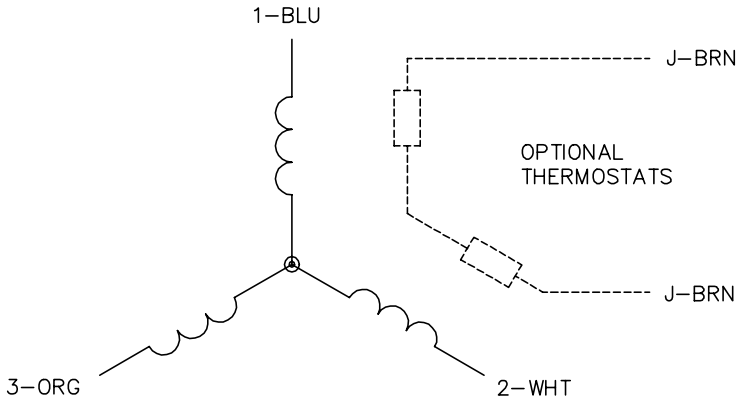
Performance Graph at 575V, 60Hz, 1.0HP Typical performance - Not guaranteed values

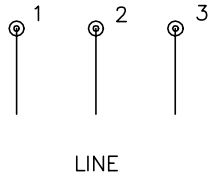



35LYVV818
510-528 = 13 41
529-535 = 14 28
536-546 = 15 66
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
2 12
13
13
19 KEY 1 38 LONG
3 88
Ø7 19
Ø6 50
Ø 4 500 4 497
8750 8745
6 HOLES Ø 38
4 00
2 75
5 00
50
5 94
4 HOLES 3 W/PLUGS (EACH END)
Ø6 62
5 77
45°
45°
TOP OF NP & WARNING LABEL
6 83
3 50 3 44
4 HOLES 38-16 TAP ON Ø5 88 B C
LEAD HOLE 75 N P T
2 75
2 75
4 68
3 25
6 50
JM CLIPPER SEALS (EACH END)
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC LOADING OF SWD DWG FOR 2D TO 3D CONVERSION - PKG13
REV B
VERSION 02
REVISED 01 02 27 12/19/2018
TDR 000001094435
MODEL NO. 35LYVV818
REF -
BY ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 143-5TC TEFC 35M WD4 W/ .75 NPT LEAD HOLE
SH 1 of 1
35LYVV818

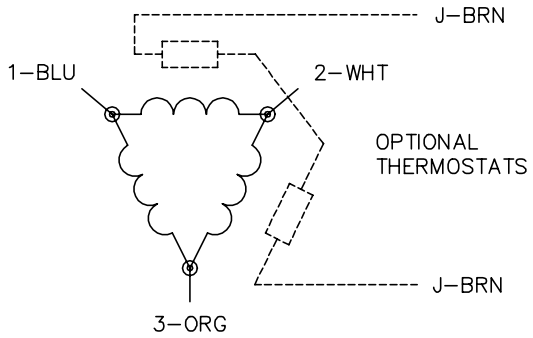
CD0006

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: –		

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

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