

Detail Bill of Material

Powering Business Worldwide

Project Name:
General Order No:

Negotiation No:
Alternate No:

ST140216X3K3
0005

Item No.	Qty	Product	Description
	1	Switchboards	Pow-R-Line Xpert Switchboard, Front Access/ Front and Rear Align, Type 3R (nonwalk-in) Flat Roof, 480Y/277V 3-Phase 4-Wire, 3000 Tin Plated Aluminum, Minimum Interrupting Rating: 65kA, Bus Bracing Rating: 65kA, Depth: 36 In

Designation MDP

Structure	1	3000 Amp AL Main Structure Vertical Isol. Barrier (Service Entrance) Horizontal Isol. Barrier (Service Entrance) Compartment 1 - Utility 3000A Utility Metering - Ameren
Structure	2	3000 Amp AL Main Structure Vertical Isol. Barrier (Service Entrance) Compartment 1 - Breaker 3000A 3P Power Defense SB Brkr SPS-630 [Fixed-Manual] PXR20 LSIG w/ARMS and Modbus RTU Local using breaker interface
Structure	3	3000 Amp AL Distribution Structure Compartment 1 - Breaker 3P Frame 3 Provision Compartment 2 - Breaker 3P Frame 3 Provision Compartment 3 - Breaker 400A, 3P PDG33M Breaker [400A Frame] Thermal Mag Trip - Standard Compartment 4 - Breaker 400A, 3P PDG33M Breaker [400A Frame] Thermal Mag Trip - Standard Compartment 5 - Breaker 400A, 3P PDG33M Breaker [400A Frame] Thermal Mag Trip - Standard Compartment 6 - Breaker 300A, 3P PDG33M Breaker [400A Frame] Thermal Mag Trip - Standard

Qty	List of Materials
3	Type 3R (nonwalk-in) Flat Roof
1	Service Entrance Label
3	Seismic Freestanding Label (IBC/CBC Seismic Qualified)
1	3000 Amp AL Main Structure
1	3000A Utility Metering - Ameren
2	Vertical Isol. Barrier (Service Entrance)
1	Horizontal Isol. Barrier (Service Entrance)
1	3000 Amp AL Main Structure
1	Auxiliary Switch, 4 Form C
1	3000 Amp AL Distribution Structure
1	3000A 3P Power Defense SB Brkr SPS-630 [Fixed-Manual], Trip 3000 A, PXR20 LSIG w/ARMS and Modbus RTU
1	300A, 3P PDG33M Breaker [400A Frame], Trip 300 A, Thermal Mag, (1) 2/0-500 kcmil, Mechanical
3	400A, 3P PDG33M Breaker [400A Frame], Trip 400 A, Thermal Mag, (1) 500-750 kcmil, Mechanical
2	3P Frame 3 Provision

NOTE: SELLER SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO PERFORM, OR DELAY IN PERFORMANCE OF, IT'S OBLIGATIONS RESULTING FROM THE COVID-19 PANDEMIC OR ANY FUTURE EPIDEMIC, AND BUYER SHALL SHALL NOT BE ENTITLED TO ANY DAMAGES RESULTING THEROF.

Detail Bill of Material

Powering Business Worldwide

Project Name:	Suntrup Ford Kirkwood Dave D @ RJP	Negotiation No:	ST140216X3K3
General Order No:		Alternate No:	0005

Item No.	Qty	Product	Description
	1	Panelboards	42 Circuits, 600A, Fully Rated, 208Y/120V 3Ph 4W, Copper Bus, 35kAIC, 600A, 3P PDG33G0600 Main Breaker[Bottom Fed], Surface Mounted

Catalog No P22A600BB42CH3R
Designation DP1

Qty List of Materials

1	600A, 3P PDG33G0600 Main Breaker
6	20A, 1P GHQ Branch Breaker
6	80A, 2P GHB Branch Breaker
24	1P Branch Provision Only
1	Copper Main Bus, 600 Amps
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2072

Item No.	Qty	Product	Description
	1	Panelboards	28 Circuits, 800A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 65kAIC, 800A, 3P PDG43G0800 Main Breaker[Bottom Fed], Surface Mounted

Catalog No P24A800BB28AH01
Designation DP2

Qty List of Materials

1	800A, 3P PDG43G0800 Main Breaker
6	20A, 1P PDG21G0020 Branch Breaker
11	50A, 2P PDG22G0050 Branch Breaker
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Painted Box - ANSI 61
1	Panel Nameplate - White with Black Letters
1	Type 1 Enclosure: BX3690P
1	Standard Covers: Standard Covers

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Detail Bill of Material

Powering Business Worldwide

Project Name: Suntrup Ford Kirkwood Dave D @ RJP
Negotiation No: ST140216X3K3
General Order No:
Alternate No: 0005

Item No.	Qty	Product	Description
	1	Dry Type Transformers	Transformer Type: General Purpose Vented 3 Phase, 225 KVA, 1 K-Factor 480 Primary Volts 208Y/120 Secondary Volts Temperature Rise 150C with 220C Insulation System Aluminum Winding Material Sound Reduction : 0 NEMA ST-20 Audible Sound Level: 55 Efficiency : DOE 10 CFR Part 431 (2016) UL Listed : Y Enclosure Type: NEMA 2 (for N3R, select Weather Shield in Mods tab) Operating Frequency: 60 HZ
		Catalog No	V48M28T2216
		Designation	T1
	Qty	List of Materials	
	1	3 Phase, 225 KVA, 480 Primary Volts, 208Y/120 Secondary Volts, 150C with 220C Insulation System Temperature Rise, Aluminum Winding Material, 60 HZ	
	1	Transformer Lug Kit/1PH 100-167KVA or 3PH 150-300K	
	1	TRANSFORMER WEATHERSHIELD KIT FITS FRAME FR944	

Item No.	Qty	Product	Description
	1	Dry Type Transformers	Transformer Type: General Purpose Vented 3 Phase, 300 KVA, 1 K-Factor 480 Primary Volts 208Y/120 Secondary Volts Temperature Rise 150C with 220C Insulation System Aluminum Winding Material Sound Reduction : 0 NEMA ST-20 Audible Sound Level: 55 Efficiency : DOE 10 CFR Part 431 (2016) UL Listed : Y Enclosure Type: NEMA 2 (for N3R, select Weather Shield in Mods tab) Operating Frequency: 60 HZ
		Catalog No	V48M28T3316
		Designation	T2
	Qty	List of Materials	
	1	3 Phase, 300 KVA, 480 Primary Volts, 208Y/120 Secondary Volts, 150C with 220C Insulation System Temperature Rise, Aluminum Winding Material, 60 HZ	
	1	Transformer Lug Kit/1PH 100-167KVA or 3PH 150-300K	

Eaton Selling Policy 25-000 applies.

NOTE: SELLER SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO PERFORM, OR DELAY IN PERFORMANCE OF, IT'S OBLIGATIONS RESULTING FROM THE COVID-19 PANDEMIC OR ANY FUTURE EPIDEMIC, AND BUYER SHALL SHALL NOT BE ENTITLED TO ANY DAMAGES RESULTING THEROF.

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Project Name:	Suntrup Ford Kirkwood Dave D @ RJP	Negotiation No:	ST140216X3K3
General Order No:		Alternate No:	0005

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

NOTE: SELLER SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO PERFORM, OR DELAY IN PERFORMANCE OF, IT'S OBLIGATIONS RESULTING FROM THE COVID-19 PANDEMIC OR ANY FUTURE EPIDEMIC. AND BUYER SHALL SHALL NOT BE ENTITLED TO ANY DAMAGES RESULTING THEROF.

Switchboard General Information

Pow-R-Line Xpert - Specifications

Quantity: 1

Alignment: Front Access/ Front and Rear Align

Service: 480Y/277V 3-Phase 4-Wire

Minimum Interrupt Rating: 65 kA

Bus Specifications

Bus Amps: 3000

Bus Bracing Rating: 65kA

Neutral Amps: 3000

Bus Material: Tin Plated Aluminum

Heat Test

Ground Bus Material: Tin Plated Aluminum Ground Bus Bolted To Frame, (1) #6-350 kcmil Ground Lug

Incoming Information

Terminals, Mechanical, Bottom, (8) 3/0-750 kcmil

Incoming Qty & Size: Terminals, Mechanical, Bottom, (8) 3/0-750 kcmil

Structure Specifications

Service Entrance

Enclosure Type: Type 3R (nonwalk-in) Flat Roof

Enclosure: Outdoor Enclosure Configuration Per Euserc Dwg 354

Seismic Label (IBC/CBC Seismic Qualified) - Freestanding

Refer to seismic installation data sheet TD01508002E and drawing 1A32497 for details.

Special Notes

Qty Description

Catalog Number

Utility Specifications

Struct # 1

Hot Seq. 3000 Amps Util. Mtr. Compt. - Ameren

Plant Drawing: 42C5547

Code AMEREN

Enclosure properties

Struct #

Description/Modifications

1

Incoming Utility Structures (Incoming Utility Section)

Vertical isolating barrier

Horizontal isolating barrier

2

Main device (Main Structure)

Vertical isolating barrier

3

50x chassis mounted feeders (Feeder Structure)

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PREPARED BY

DATE

TOBY MUETH

5/23/2023

Eaton

SumterSC

APPROVED BY

DATE

JOB NAME

Suntrup Ford Kirkwood Dave D @ RJP

DESIGNATION

MDP

VERSION

9.0.31.5

TYPE

Switchboards

DRAWING TYPE

CustAppr

NEG-ALT Number

ST140216X3K3-0005

REVISION

0

DWG SIZE

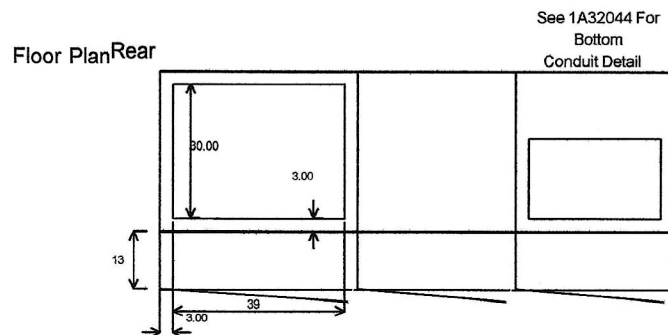
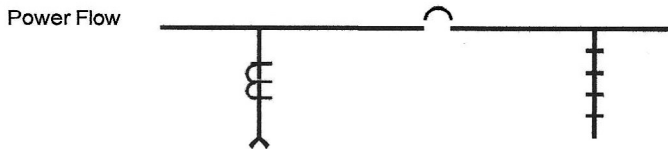
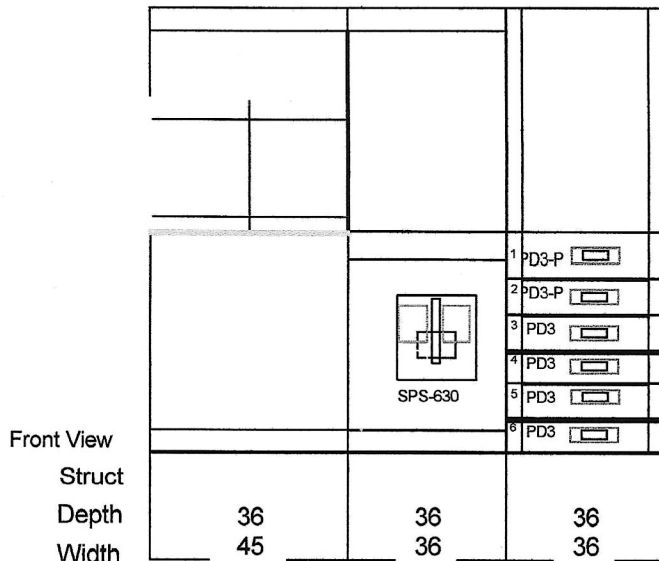
DwgA

G.O.

ITEM

SHEET

1 of 3



Total of 3 Structures, Total Weight of 2362 Weight-Lbs. with Front Hinged Doors.

Total of 3 Structures, Total Width of 117 inches with Front Hinged Doors.

Structure	1	2	3		
Ship-Inches	45.00	36.00	36.00		
Ship-MM	1143	914	914		
Width-Inches	45.00	36.00	36.00		
Width-MM	1143	914	914		
Depth(Inner)-In.	36.00	36.00	36.00		
Depth(Inner)-MM	914	914	914		
Depth(Outer)-In.	49.00	49.00	49.00		
Depth(Outer)-MM	1244	1244	1244		
Height-Inches	90.00	90.00	90.00		
Height-MM	2286	2286	2286		
Weight-Lbs.(Est.)	900	800	662		
Weight-Kg.(Est.)	408	362	300		

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PREPARED BY TOBY MUETH	DATE 5/23/2023	Eaton	SumterSC
APPROVED BY	DATE	JOB NAME Suntrup Ford Kirkwood Dave D @ RJP	
VERSION 9.0.31.5		DESIGNATION MDP	
		TYPE Switchboards	DRAWING TYPE CustAppr
NEG-ALT Number ST140216X3K3-0005	REVISION 0	DWG SIZE DwgA	G.O. ITEM SHEET 2 of 3

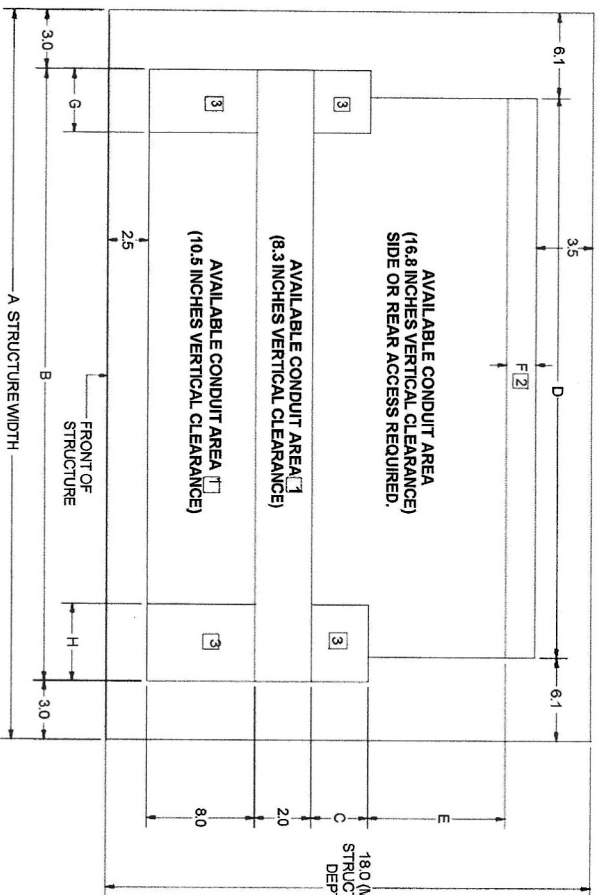
Switchboard Units Information

Str#	Unit	Description/Modifications	Nameplate
1		3000A Utility Metering - Ameren	
2		Main Breaker - Ind Mtd-3000A 3P Power Defense SB Brkr SPS-630 [Fixed-Manual], Trip 3000A., PXR20 LSIG w/ARMS and Modbus RTU, 100 % rated ARMS Operation - Local using breaker interface Auxiliary Switch: 4 Form C	
3	1	Feeder Breaker - Chassis Mtd-3P Frame 3 Provision, PROVISIONS FOR BREAKER ONLY Neutral Terminal, (1) #4-500	
	2	Feeder Breaker - Chassis Mtd-3P Frame 3 Provision, PROVISIONS FOR BREAKER ONLY Neutral Terminal, (1) #4-500	
	3	Feeder Breaker - Chassis Mtd-400A, 3P PDG33M Breaker [400A Frame], Trip 400A., Thermal Mag Terminals, Mechanical, (1) 500-750 kcmil Neutral Terminal, (1)3/0-750 kcmil	
	4	Feeder Breaker - Chassis Mtd-400A, 3P PDG33M Breaker [400A Frame], Trip 400A., Thermal Mag Terminals, Mechanical, (1) 500-750 kcmil Neutral Terminal, (1)3/0-750 kcmil	
	5	Feeder Breaker - Chassis Mtd-400A, 3P PDG33M Breaker [400A Frame], Trip 400A., Thermal Mag Terminals, Mechanical, (1) 500-750 kcmil Neutral Terminal, (1)3/0-750 kcmil	
	6	Feeder Breaker - Chassis Mtd-300A, 3P PDG33M Breaker [400A Frame], Trip 300A., Thermal Mag Terminals, Mechanical, (1) 2/0-500 kcmil Neutral Terminal, (1) #4-500 kcmil	

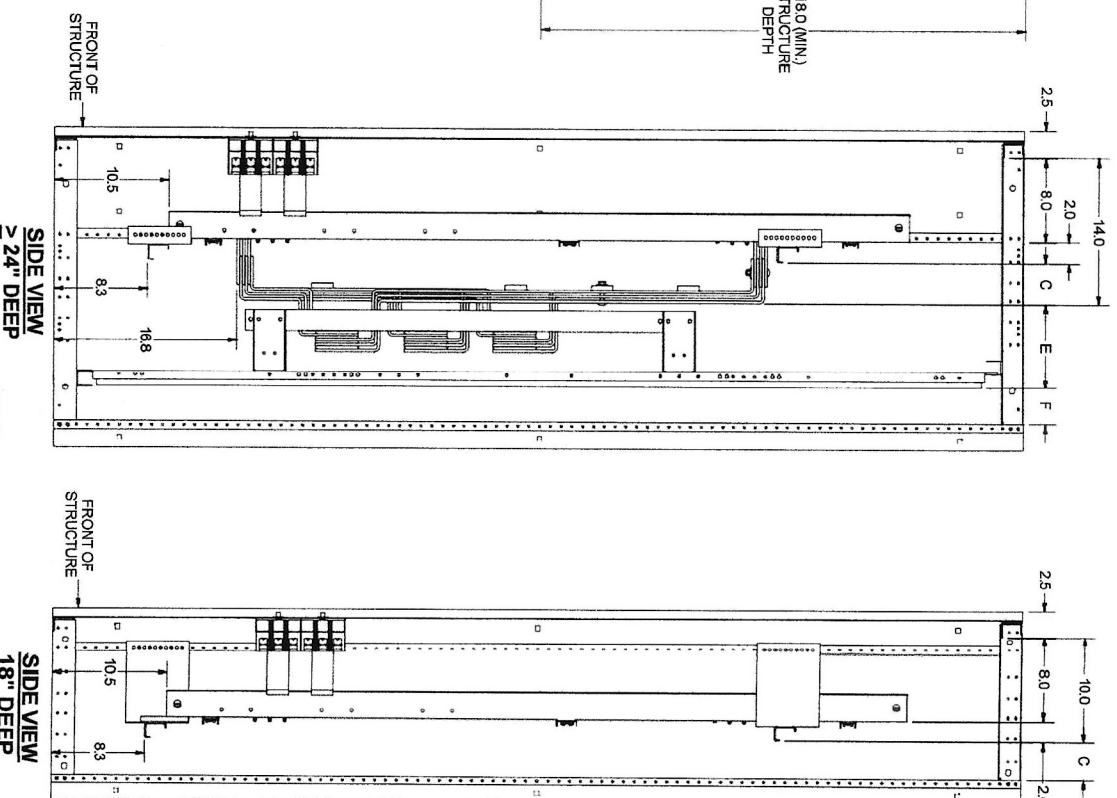
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TOBY MUETH		5/23/2023						
APPROVED BY		DATE	JOB NAME		Suntrup Ford Kirkwood Dave D @ RJP			
			DESIGNATION		MDP			
VERSION			TYPE			DRAWING TYPE		
9.0.31.5			Switchboards			CustAppr		
REVISION		DWG SIZE		G.O.		ITEM		SHEET
0		DwgA						3 of 3

FLOOR PLAN



STRUCTURE DIMENSIONS	A (INCHES)	B (INCHES)	C (INCHES)	D (INCHES)	E (INCHES)	F (INCHES)	G (INCHES)	H (INCHES)
36W X 18D	36.0	30.0	2.0	23.8	N/A	N/A	3.0	5.0
45W X 18D	45.0	39.0	2.0	32.8	N/A	N/A		12.0
51W X 18D	51.0	45.0	2.0	38.8	N/A	N/A	11.5	11.5
36W X 24D	36.0	30.0	4.0	23.8	4.0	N/A	3.0	5.0
45W X 24D	45.0	39.0	4.0	32.8	4.0	N/A		12.0
51W X 24D	51.0	45.0	4.0	38.8	4.0	N/A	11.5	11.5
36W X 30D	36.0	30.0	4.0	23.8	8.5	1.5	5.0	12.0
45W X 30D	45.0	39.0	4.0	32.8	8.5	1.5	5.0	5.0
51W X 30D	51.0	45.0	4.0	38.8	8.5	1.5	11.5	11.5
36W X 36D	36.0	30.0	4.0	23.8	8.5	7.5	3.0	5.0
45W X 36D	45.0	39.0	4.0	32.8	8.5	7.5	5.0	12.0
51W X 36D	51.0	45.0	4.0	38.8	8.5	7.5	11.5	11.5
36W X 48D	36.0	30.0	4.0	23.8	8.5	19.5	3.0	5.0
45W X 48D	45.0	39.0	4.0	32.8	8.5	19.5	5.0	12.0
51W X 48D	51.0	45.0	4.0	38.8	8.5	19.5	11.5	11.5
36W X 54D	36.0	30.0	4.0	23.8	8.5	25.5	3.0	5.0
45W X 54D	45.0	39.0	4.0	32.8	8.5	25.5	11.5	11.5
51W X 54D	51.0	45.0	4.0	38.8	8.5	25.5	3.0	5.0
36W X 60D	36.0	30.0	4.0	23.8	8.5	37.5	5.0	12.0
45W X 60D	45.0	39.0	4.0	32.8	8.5	37.5	5.0	12.0
51W X 60D	51.0	45.0	4.0	38.8	8.5	37.5	11.5	11.5



- NOTES:
- 1] FOR PUSIBLE SWITCHES, ALL CABLE ENTRY AREA BEHIND DISTRIBUTION CHASSIS AND CROSS BUS, REQUIRES SIDE OR REAR ACCESS.
 - 2] CONDUIT AREA AVAILABLE WITH SIDE OR REAR ACCESS 90.000 INCHES VERTICAL CLEARANCE.
 - 3] OPEN WIREWAY 90.00 INCHES VERTICAL CLEARANCE.

[illegible]

Blank Cover
11 inches

Blank Cover

1	GHB2080	GHQ1020	2
3		GHQ1020	4
5	GHB2080	GHQ1020	6
7		GHQ1020	8
9	GHB2080	GHQ1020	10
11		GHQ1020	12
13	GHB2080	PROV	14
15		PROV	16
17	GHB2080	PROV	18
19		PROV	20
21	GHB2080	PROV	22
23		PROV	24
25	PROV	PROV	26
27	PROV	PROV	28
29	PROV	PROV	30
31	PROV	PROV	32
33	PROV	PROV	34
35	PROV	PROV	36
37	PROV	PROV	38
39	PROV	PROV	40
41	PROV	PROV	42

Main Breaker 600A V. Mtd.
PDG33G0600, TMTU

General Information

(Section 1 of 1)

Service Voltage: 208Y/120V 3Ph 4W
Bus Rating & Type: 600A Copper
Ground Bar: Std. Bolted Aluminum, Al or Cu cable
S.C. Rating: 35k A.I.C. Fully Rated

Enclosure: Type 3R
Neutral Rating: 600A

Main Device Type: Main Breaker - Bottom Cable Entry
Main Terminals: Mechanical - (2) #2-500 kcmil (Cu/Al)
Neutral Terminals: Mechanical - (2) #4-500 kcmil (Cu/Al)
Box Catalog No.: LWPQ2072
Trim: Standard Trim (Includes Trim)

Surface Mounted

Box Dimensions: 72.00" [1828.8mm]H x 20.00" [508.0mm]W x 6.5" [165.1mm]D
Min. Gutter Size: Top = 5.5" [139.7mm] Bottom = 5.5" [139.7mm]
Left = 5.75" [146.1mm] Right = 5.75" [146.1mm]

Panel ID Nameplate: (1) DP1
Type: Plastic, adhesive-backed (2) 208Y/120V 3Ph 4W
Color: White with Black Letters (3)

UL

Non-Interchangeable Main Device

Trim Lock: T-Handle Lock Assembly
Circuit Directory: Plastic Sleeve with Card
Painted Box: ANSI 61
Main Circuit Breaker Trip Type: Thermal-Magnetic.
Seismic Label (IBC/CBC Seismic Qualified).
Heat Loss - Watts (Est.) = 336
Weight - lbs (Est.) = 173
Wire shall be based on the ampacity of 75°C rated conductors unless otherwise indicated.

Device Modifications:

Ref # Description

Branch Devices

Qty	Poles	Trip	Frame	Amps	kAIC
6	1	20	GHQ	100	35
6	2	80	GHB	100	35
24	1		PROV		

Main Devices

Qty	Poles	Trip	Frame	Amps	kAIC
1	3	600	Frame 3	600	35

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TOBY MUETH

DATE
5/23/2023

Eaton

APPROVED BY

DATE

JOB NAME

Suntrup Ford Kirkwood Dave D @ RJP

DESIGNATION

DP1

VERSION

1.0.0.59

TYPE

PRL2X

DRAWING TYPE

Customer Approval

NEG-ALT Number

ST140216X3K3-0005

REVISION

0

DWG SIZE

A

G.O.

ITEM

SHEET

1 of 1

Blank Cover

Bus Cover
14X

1	PDG22G0050	PDG22G0050	2
3	TMTU, 50A	TMTU, 50A	4
5	PDG22G0050	PDG22G0050	6
7	TMTU, 50A	TMTU, 50A	8
9	PDG22G0050	PDG22G0050	10
11	TMTU, 50A	TMTU, 50A	12
13	PDG22G0050	PDG22G0050	14
15	TMTU, 50A	TMTU, 50A	16
17	PDG22G0050	PDG22G0050	18
19	TMTU, 50A	TMTU, 50A	20
21	PDG22G0050	PDG21G0020	22
23	TMTU, 50A	PDG21G0020	24
25	PDG21G0020	PDG21G0020	26
27	PDG21G0020	PDG21G0020	28

Main Breaker 800A H. Mtd.
PDG43G0800, TMTU

Neutral

General Information

(Section 1 of 1)

Service Voltage: 208Y/120V 3Ph 4W
Bus Rating & Type: 800A Aluminum
Ground Bar: Std. Bolted Aluminum, Al or Cu cable
S.C. Rating: 65k A.I.C. Fully Rated
Enclosure: Type 1
Neutral Rating: 800A

Main Device Type: Main Breaker - Bottom Cable Entry
Main Terminals: Mechanical - (2) 500-750 kcmil (Cu/Al)
Neutral Terminals: Mechanical - (3) 1/0-750 kcmil (Cu/Al)
Box Catalog No.: BX3690P
Trim: Standard Covers
Surface Mounted

Box Dimensions: 90.00" [2286.0mm]H x 36.00" [914.4mm]W x 10.4" [264.2mm]D
Min. Gutter Size: Top = 10.625" [269.9mm] Bottom = 10.625" [269.9mm]
Left = 6" [152.4mm] Right = 8" [203.2mm]

Panel ID Nameplate: (1) DP2
Type: Plastic, adhesive-backed (2) 208Y/120V 3Ph 4W
Color: White with Black Letters (3)

UL

Circuit Directory: Plastic Sleeve with Card
Painted Box: ANSI 61
Main Circuit Breaker Trip Type: Thermal-Magnetic.
Seismic Label (IBC/CBC Seismic Qualified).
Heat Loss - Watts (Est.) = 573
Verify neutral terminal provisions and quantity of branch devices.
Wire shall be based on the ampacity of 75°C rated conductors unless otherwise indicated.

Device Modifications:

Ref #	Description
-------	-------------

Branch Devices

Qty	Poles	Trip	Frame	Amps	kAIC
11	2	50	Frame 2	100	65
6	1	20	Frame 2	100	65

Main Devices

Qty	Poles	Trip	Frame	Amps	kAIC
1	3	800	Frame 4	800	65

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TOBY MUETH

DATE
5/23/2023

Eaton

APPROVED BY

DATE

JOB NAME

Suntrup Ford Kirkwood Dave D @ RJP

DESIGNATION

DP2

VERSION

1.0.0.59

TYPE

PRL4X

DRAWING TYPE

Customer Approval

NEG-ALT Number

ST140216X3K3-0005

REVISION

0

DWG SIZE

A

G.O.

ITEM

SHEET

1 of 3

Pow-R-Line4X Device Specifications

Ckt #s	Nameplate	Device	Trip	Terminal	Modifications
1,3		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
2,4		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
5,7		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
6,8		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
9,11		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
10,12		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
13,15		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
14,16		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
17,19		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
18,20		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
21,23		PDG22G0050	50	(1) #14-1/0 (Cu/Al)	
22		PDG21G0020	20	(1) #14-1/0 (Cu/Al)	
24		PDG21G0020	20	(1) #14-1/0 (Cu/Al)	
25		PDG21G0020	20	(1) #14-1/0 (Cu/Al)	

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APPROVED BY	DATE	JOB NAME Suntrup Ford Kirkwood Dave D @ RJP			
VERSION 1.0.0.59		DESIGNATION DP2			
		TYPE PRL4X	DRAWING TYPE Customer Approval		
NEG-ALT Number ST140216X3K3-0005	REVISION 0	DWG SIZE A	G.O.	ITEM	SHEET 2 of 3

Pow-R-Line4X Device Specifications

Ckt #s	Nameplate	Device	Trip	Terminal	Modifications
26		PDG21G0020	20	(1) #14-1/0 (Cu/Al)	
27		PDG21G0020	20	(1) #14-1/0 (Cu/Al)	
28		PDG21G0020	20	(1) #14-1/0 (Cu/Al)	
Main		PDG43G0800	800	(2) 500-750 kcmil (Cu/Al)	

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PREPARED BY TOBY MUETH	DATE 5/23/2023	Eaton			
APPROVED BY	DATE	JOB NAME DESIGNATION	Suntrup Ford Kirkwood Dave D @ RJP DP2		
VERSION 1.0.0.59		TYPE PRL4X	DRAWING TYPE Customer Approval		
NEG-ALT Number ST140216X3K3-0005	REVISION 0	DWG SIZE A	G.O.	ITEM	SHEET 3 of 3

Dry-Type Transformers General Information

- D Standard Transformer Catalog Number: V48M28T2216
- D Transformer Type: General Purpose Vented
- D Phase: 3
- D kVA: 225
- D Primary Volts: 480
- D Secondary Volts: 208Y/120
- D Temperature Rise: 150C with 220C Insulation System
- D Winding Material: Aluminum
- D Enclosure Type: NEMA 2 (for N3R, select Weather Shield in Mods tab)
- D Frequency (Hz): 60
- D Frame: 944
- D Wiring Diagram: 280B
- D Weight (lbs.): 1624
- D Impedance (%): 4.29
- D UL Listed: Y
- D Max Practical Inrush (Amps): 721
- D X/R: 2.86
- D No Load Losses (Watts): 495
- D Total Losses (Watts): 4185

Standard Values

- D K-Factor: 1
- D TAPS: 2@+2.5%, 4@-2.5%
- D Sound Reduction (dB): 0
- D NEMA ST20 Sound Level (dB): 55
- D DOE 10 CFR Part 431 (2016) Efficient: Y
- D Infrared Viewing Window: None

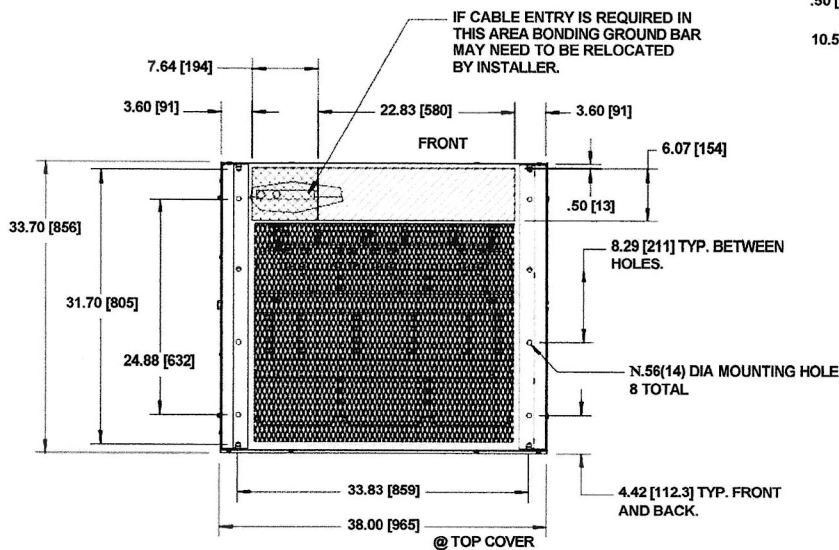
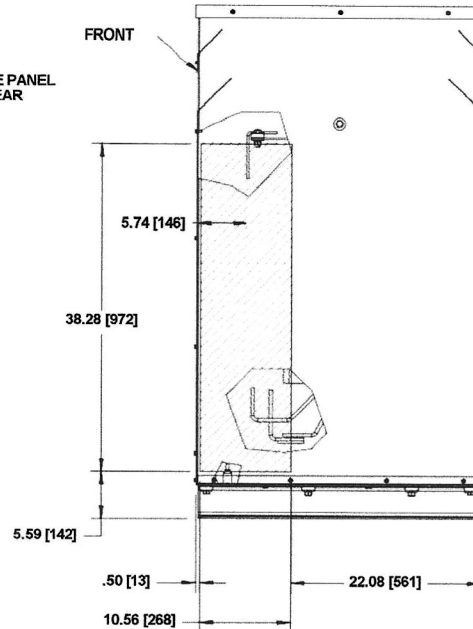
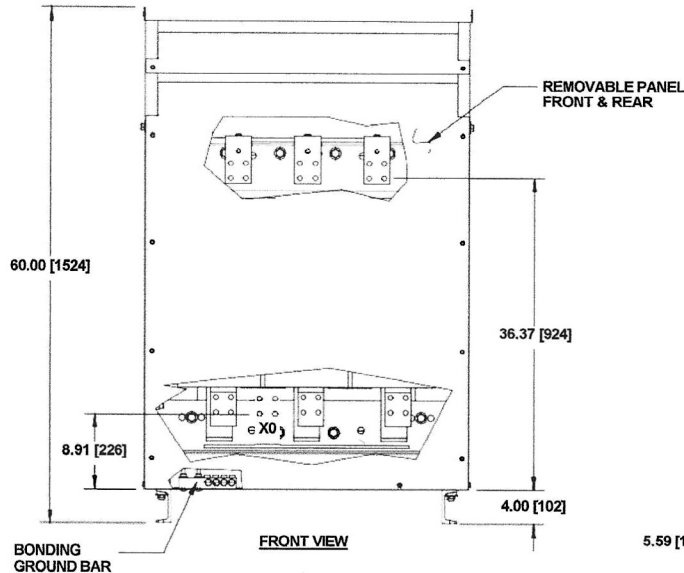
Field-Installed Accessories Included

- D Lug Kit: LKS3 (1PH 100-167KVA or 3PH 150-300K)
- D Weather Shield: WS61

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	TOBY MUETH		5/23/2023			
	APPROVED BY		DATE	JOB NAME	Suntrup Ford Kirkwood Dave D @ RJP	
				DESIGNATION	T1	
NEG-ALT Number ST140216X3K3-0005	VERSION		TYPE		DRAWING TYPE	
	1.0.0.4		Dry-Type Transformer		Customer Appr.	
	REVISION	DWG SIZE	G.O.	ITEM	SHEET	
	0	A			1 of 1	

NOTE:

1. ALL UNITS ARE DESIGNED IN ACCORDANCE WITH APPLICABLE NEMA, UL, ANSI, AND IEEE STANDARDS.
2. DRY-TYPE VENTILATED, CLASS AA, NEMA TYPE 2 ENCLOSURE.
3. FOR NEMA 3R OUTDOOR APPLICATION, USE WEATHERSHIELD # WS61.
4. TRANSFORMERS ARE FLOOR MOUNTED.
5. 220°C CLASS INSULATION SYSTEM.
6. PAINT COLOR IS ANSI #61.
7. ALUMINUM UNITS HAVE ALUMINUM WINDINGS AND TERMINATIONS. COPPER UNITS HAVE COPPER WINDINGS AND TERMINATIONS.
8. TRANSFORMER CAN BE INSTALLED AT A MIN. DISTANCE TO BACK AND SIDE WALLS OF 2 INCHES AND TO A 6 INCHES MIN. DISTANCE TO BACK WALLS WHEN WEATHERSHIELDS ARE NEEDED. WALL MOUNT BRACKETS CANNOT BE USED IN COMBINATION WITH WEATHERSHIELDS.
9. DIMENSIONS IN INCHES(mm).



USE 38.28[972] x 10.56[268] BOTH SIDES, AND (22.83[580]+7.64[194]) x 6.07[154] ON BOTTOM AS RECOMMENDED CABLE ENTRY LOCATIONS.

BOTTOM VIEW

PRODUCT CODE: .		FEDERAL ID NO.:			DFTR	DATE		THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.					
7	CO-0204443	J.C.S.	D.G.	31/03/2021	S.B.	29/10/2015							
6	ECO-164756	J.C.S.	C.B.	05/05/2019	APPD	DATE		TITLE					
					D.G.	29/10/2015		DRY TYPE TRANSFORMER OUTLINE					
5	ECO-133517	J.G.	C.B.	15/01/2018	S.O.			TYPE			OUTLINE		
								DRY TYPE TRANSFORMER					
REV	DESCRIPTION	DFTR	APPD	DATE	REVISION				G.O.	DWG		SHEET	
REVISIONS					7						FR944		1 OF 1

GO/NEG-Alt-Date:
ST140216X3K3-0005-5/23/2023

Job Name:
Suntrup Ford Kirkwood Dave D @ RJP

Item Number:
V48M28T2216

Designation:
T1

Designation:
T1

Dry-Type Transformers General Information

- D Standard Transformer Catalog Number: V48M28T3316
- D Transformer Type: General Purpose Vented
- D Phase: 3
- D kVA: 300
- D Primary Volts: 480
- D Secondary Volts: 208Y/120
- D Temperature Rise: 150C with 220C Insulation System
- D Winding Material: Aluminum
- D Enclosure Type: NEMA 2 (for N3R, select Weather Shield in Mods tab)
- D Frequency (Hz): 60
- D Frame: 945
- D Wiring Diagram: 280B
- D Weight (lbs.): 2283
- D Impedance (%): 4.45
- D UL Listed: Y
- D Max Practical Inrush (Amps): 731
- D X/R: 2.61
- D No Load Losses (Watts): 640
- D Total Losses (Watts): 5232

Standard Values

- D K-Factor: 1
- D TAPS: 2@+2.5%, 4@-2.5%
- D Sound Reduction (dB): 0
- D NEMA ST20 Sound Level (dB): 55
- D DOE 10 CFR Part 431 (2016) Efficient: Y
- D Infrared Viewing Window: None

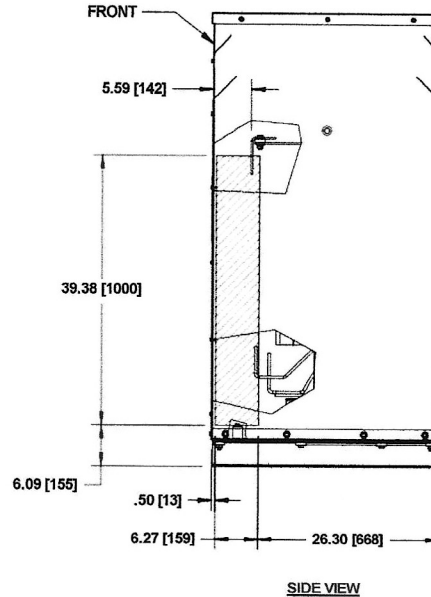
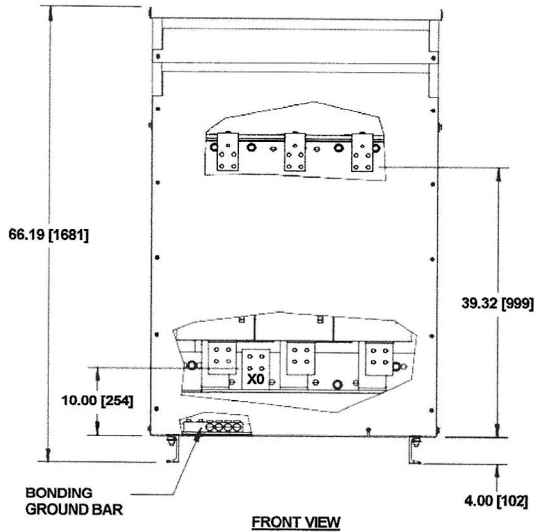
Field-Installed Accessories Included

- D Lug Kit: LKS3 (1PH 100-167KVA or 3PH 150-300K)

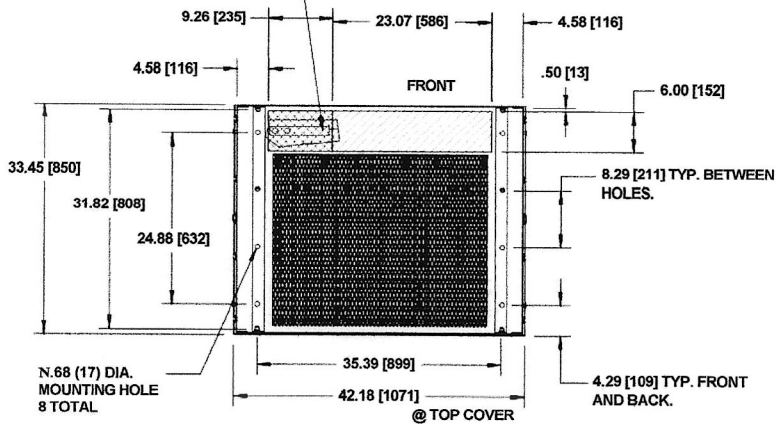
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	TOBY MUETH		5/23/2023			
	APPROVED BY		DATE	JOB NAME	Suntrup Ford Kirkwood Dave D @ RJP	
				DESIGNATION	T2	
NEG-ALT Number ST140216X3K3-0005	VERSION		TYPE		DRAWING TYPE	
	1.0.0.4		Dry-Type Transformer		Customer Appr.	
	REVISION	DWG SIZE	G.O.	ITEM	SHEET	
	0	A			1 of 1	

NOTE:

1. ALL UNITS ARE DESIGNED IN ACCORDANCE WITH APPLICABLE NEMA, UL, ANSI, AND IEEE STANDARDS.
2. DRY-TYPE VENTILATED, CLASS AA, NEMA TYPE 2 ENCLOSURE.
3. FOR NEMA 3R OUTDOOR APPLICATION, USE WEATHERSHIELD # WS62.
4. TRANSFORMERS ARE FLOOR MOUNTED.
5. 220°C CLASS INSULATION SYSTEM.
6. PAINT COLOR IS ANSI #61.
7. ALUMINUM UNITS HAVE ALUMINUM WINDINGS AND TERMINATIONS. COPPER UNITS HAVE COPPER WINDINGS AND TERMINATIONS.
8. TRANSFORMER CAN BE INSTALLED AT A MIN. DISTANCE TO BACK AND SIDE WALLS OF 2 INCHES AND TO A 6 INCHES MIN. DISTANCE TO BACK WALLS WHEN WEATHERSHIELDS ARE NEEDED. WALL MOUNT BRACKETS CANNOT BE USED IN COMBINATION WITH WEATHERSHIELDS.
9. DIMENSIONS IN INCHES(MM).



IF CABLE ENTRY IS REQUIRED IN THIS AREA BONDING GROUND BAR MAY NEED TO BE RELOCATED BY INSTALLER.



USE 39.38[1000] x 6.27[159] BOTH SIDES, AND (23.07[586]+9.26[235]) x 6.00[152] ON BOTTOM AS RECOMMENDED CABLE ENTRY LOCATIONS.

PRODUCT CODE		FEDERAL ID NO.		DFTR	DATE	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.		EATON	
REV	DESCRIPTION	DFTR	APPD	DATE	REVISION	G.O.	DWG		
6	CO-0204443	J.C.S.	D.G.	31/03/2021	1			TITLE DRY TYPE TRANSFORMER OUTLINE	
5	ECO-164756	J.C.S.	C.B.	08/05/2019	2				
4	ECO-133517	J.G.	C.B.	31/12/2017	3			TYPE DRY TYPE TRANSFORMER	
								SHEET 1 OF 1	
								FR945	

GO/NEG-Alt-Date:

ST140216X3K3-0005-5/23/2023

Job Name:

Suntrup Ford Kirkwood Dave D @ RJP

Item Number:

Catalog Number:

V48M28T3316

Designation:

T2

Designation:
T2

