

# Rockwell Automation

## Centerline 2100 Motor Control Center Structure and Unit Specifications

Project Name: KOESTER PRE ZERO RECYCLING	Salesperson: [REDACTED]
Project Item: KOESTER PreZero Recycling MCC back-to-back	Created By: [REDACTED]
Project ID #: [REDACTED]	Date/Time: 07/17/23 - 8:22

Network Type: Ethernet  
Unit Diagram Location: Central location

### STANDARD STRUCTURE / SECTION SPECIFICATIONS

Line Voltage / Frequency: 480 Volts / 60 Hertz  
Class I Wiring Type: B-T Control and Power Terminal Blocks  
NEMA Enclosure Type: 12 - Fully Gasketed with Bottom Plates  
SecureConnect Feature: Yes (where available)

QTY	STANDARD STRUCTURE / SECTION SPECIFICATION	DELIV PROG
1	POWER SYSTEM - WYE, 3-PHASE, 3-WIRE WITH SOLIDLY GROUNDED NEUTRAL	SCII
4	GRD BUS SPLICE, (2) 0.25" x 2" (CU/UNPLATED) BTB	SCII
4	HORIZ PWR BUS SPLICE, 1200A, CU/TIN	SCII
5	DIRECT ENET & 24V CABLING (NO VWW ADAPTERS) FOR FRAME MOUNT SECTIONS	SCII
13	ENET & 24V CABLING W/ ENET & 24V VWW ADAPTERS	SCII
13	AUTOMATIC SHUTTERS FOR STAB OPENINGS	SCII
1	BASE SECT 25" WIDE W/9" WIREWAY FOR PLUG-IN UNITS	SCII
18	SECT DEPTH 20"	SCII
18	NEMA ENCL TYPE 12 (FULLY GASKETED, DOORS AND REMOVEABLE COVERS)	SCII
17	BASE SECTION	SCII
18	HORIZ GRD BUS, 0.25" X 2" CU/UNPLATED(Bottom)	SCII
17	HORIZ PWR BUS, 1200A, CU/TIN	SCII
17	BUS BRACING 65KA RMS SYMMETRICAL	SCII
13	NO-OX-ID COMPOUND ON PWR BUS	SCII
13	ISOLATION BARRIER(S)	SCII
13	VERT PWR BUS, 300A, CU/TIN	SCII
13	VERT GRD BUS, PLUG-IN, STEEL/ZINC PLATED	SCII

### STARTER / UNIT SPECIFICATIONS

ID	QTY	CATALOG NUMBER	SPACE FACTOR	DELIV PROG
1	5	2100-EPS8JXWD	0.5	SC
2	1	2100-EJC2X3B-120	6	SC

3	4	2113B-BDB-6P-7FE3EJGN3CR-17-18A-35THA-79U-98-113	1	OP
4	10	2113B-BDB-6P-7FE3EJGN3CR-17-18A-38TGA-79U-98-113	1	OP
5	5	2113B-BDB-6P-7FE3EJGN3CR-17-18A-39TGA-79U-98-113	1	OP
6	2	2113B-BDB-6P-7FE3EJGN3CR-17-18A-37THA-79U-98-113	1	OP
7	3	2113B-BDB-6P-7FE3EJGN3CR-17-18A-40TGA-79U-98-113	1	OP
8	2	2113B-BDB-6P-7FE3EJGN3CR-17-18A-33THA-79U-98-113	1	OP
9	3	2163WB-6P0JB-14DFCC-14GER-14HC2S-38TGM-79U-98-113	2	SC
10	2	2163WB-010JB-14DFCC-14GER-14HC2S-39TGM-79U-98-113	2	SC
11	1	2163WB-017JB-14DFCC-14GER-14HC2S-41TGM-79U-98-113	2.5	SC
12	1	2163VB-065HJB-14DA2R2-14DFLPJ-14GER-14HC6S-46TGM-79U-98-113	4	OP
13	1	2163VB-156HJB-14DA2R2-14DFLPJ-14GER-14HC6S-50TJM-98	6	OP
14	1	2163VB-186HJB-14DA2R2-14DFLPJ-14GER-14HC6S-51TJM-98	6	OP
15	1	2163VB-186NJB-14DA2R2-14DFLPJ-14GER-14HC6S-52TJM-98	6	FT1
-	1	<i>Customer Load Cables Exit(Top)</i>	-	-
-	1	<i>250hp(ND)/200hp(HD) PowerFlex 753/755 VFD with Circuit Breaker/Fusible Disconnect, Frame 7 - 35" W/ 20" D - NEMA 12, 480V (Can Be UL Rated if no other Power Components Added) Note required in PCBR HD OR ND (Reactor would require additional section)</i>	-	FT1
16	5	2100-ESW30J-B10FAA	1	PE
17	5	2100-BJ05	0.5	SC
18	1	2193MT-GJC-56TNMG-82D500-98	3.5	PE
19	1	2163VB-096HJB-14DA2R2-14DFLPJ-14GER-14HC6S-48TJM-98	6	OP
20	3	2163WB-2P3JB-14DFCC-14GER-14HC2S-35TGM-79U-98-113	1.5	SC
21	1	2163WB-013JB-14DFCC-14GER-14HC2S-40TGM-79U-98-113	2.5	SC
22	10	2100-BJ10	1	SC
23	1	2113B-CDB-6P-7FE3EJGN6CR-17-18A-44TGA-79U-98-113	1	OP
24	1	2113B-BDB-6P-7FE3EJGN3CR-17-18A-36THA-79U-98-113	1	OP
25	1	2197-KJBA-34TGM-98	3	SC

		DOCUMENTATION - CENTRAL LOCATION		
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	71	Acrylic - Black letters on white - BLANK NO TEXT		SC
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Total Space Factors Used = 108

Delivery Program Type = FT1

**Rockwell Automation**  
**Centerline 2100 Motor Control Center**  
**MCC Details**

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Project Name:	KOESTER PRE ZERO RECYCLING	Salesperson:	[REDACTED]
Project Item:	KOESTER PreZero Recycling MCC back-to-back	Created By:	[REDACTED]
Project ID #:	[REDACTED]	Date/Time:	07/17/23 - 8:22

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The details of the proposed motor control center are as follows:

Category	Description
Total Section(s)	18
Total Shipping Block(s)	5
Section Depth	Back to Back, 40" Deep
Section Height	90" High
Enclosure	12 - Fully Gasketed with Bottom Plates
Designed For Use With	Power System Type: Wye, 3-phase, 3-wire with solidly grounded neutral
MCC Connection Type	Main Circuit Breaker
Incoming Cable Entry	Top, Section 1
Main Bus Rating	1200A
Main Bus Material	Copper / Tin Plated
Main Bus Bracing	65kA (rms symmetrical)
Horizontal Ground Bus	1/4" X 2", Bottom, Unplated Copper
Vertical Ground Bus	Plug-in Zinc Plated Steel
Stab Opening Protection	Automatic Shutters
Master Nameplate	No

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit List

Project Name: KOESTER PRE ZERO RECYCLING	Salesperson: [REDACTED]
Project Item: KOESTER PreZero Recycling MCC back-to-back	Created By: [REDACTED]
Project ID #: [REDACTED]	Date/Time: 07/17/23 - 8:22

ID	QTY	Catalog Number / Unit Description
1	5	2100-EPS8JXWD / Ethernet Power Supply Unit with Fuse Clip Class
2	1	2100-EJC2X3B-120 / Full Sect Blank Mtg Plate w/ or w/o Disc with Fuse Clip Class
3	4	2113B-BDB-6P-7FE3EJGN3CR-17-18A-35THA-79U-98-113 / Full Voltage Non-Reversing Starter w/CB - 1 HP with Circuit Breaker Instantaneous MCP (3A Trip)
4	10	2113B-BDB-6P-7FE3EJGN3CR-17-18A-38TGA-79U-98-113 / Full Voltage Non-Reversing Starter w/CB - 3 HP with Circuit Breaker Instantaneous MCP (15A Trip)
5	5	2113B-BDB-6P-7FE3EJGN3CR-17-18A-39TGA-79U-98-113 / Full Voltage Non-Reversing Starter w/CB - 5 HP with Circuit Breaker Instantaneous MCP (15A Trip)
6	2	2113B-BDB-6P-7FE3EJGN3CR-17-18A-37THA-79U-98-113 / Full Voltage Non-Reversing Starter w/CB - 2 HP with Circuit Breaker Instantaneous MCP (7A Trip)
7	3	2113B-BDB-6P-7FE3EJGN3CR-17-18A-40TGA-79U-98-113 / Full Voltage Non-Reversing Starter w/CB - 7.5 HP with Circuit Breaker Instantaneous MCP (30A Trip)
8	2	2113B-BDB-6P-7FE3EJGN3CR-17-18A-33THA-79U-98-113 / Full Voltage Non-Reversing Starter w/CB - 0.5 HP with Circuit Breaker Instantaneous MCP (3A Trip)
9	3	2163WB-6P0JB-14DFCC-14GER-14HC2S-38TGM-79U-98-113 / PowerFlex 525 AC Drive w/CB - 3 HP with Circuit Breaker Thermal Magnetic (15A Trip)
10	2	2163WB-010JB-14DFCC-14GER-14HC2S-39TGM-79U-98-113 / PowerFlex 525 AC Drive w/CB - 5 HP with Circuit Breaker Thermal Magnetic (20A Trip)
11	1	2163WB-017JB-14DFCC-14GER-14HC2S-41TGM-79U-98-113 / PowerFlex 525 AC Drive w/CB - 10 HP with Circuit Breaker Thermal Magnetic (30A Trip)
12	1	2163VB-065HJB-14DA2R2-14DFLPJ-14GER-14HC6S-46TGM-79U-98-113 / PowerFlex 755 AC Drive w/CB - 40 HP with Circuit Breaker Thermal Magnetic (125A Trip)
13	1	2163VB-156HJB-14DA2R2-14DFLPJ-14GER-14HC6S-50TJM-98 / PowerFlex 755 AC Drive w/CB - 100 HP with Circuit Breaker Thermal Magnetic (250A Trip)
14	1	2163VB-186HJB-14DA2R2-14DFLPJ-14GER-14HC6S-51TJM-98 / PowerFlex 755 AC Drive w/CB - 125 HP with Circuit Breaker Thermal Magnetic (250A Trip)
15	1	2163VB-186NJB-14DA2R2-14DFLPJ-14GER-14HC6S-52TJM-98 / PowerFlex 755 AC Drive w/CB - 150 HP with Circuit Breaker Thermal Magnetic (250A Trip)
-	1	<i>Customer Load Cables Exit(Top)</i>
16	5	2100-ESW30J-B10FAA / Stratix 5700 30-Port
17	5	2100-BJ05 / Blank Unit Door - 0.5 Space Factor
18	1	2193MT-GJC-56TNMG-82D500-98 / Main Circuit Breaker - 1200A Frame Rating - Top Mounted with 1200A Trip w/ Maintenance Mode

19	1	2163VB-096HJB-14DA2R2-14DFLPJ-14GER-14HC6S-48TJM-98 / PowerFlex 755 AC Drive w/CB - 60 HP with Circuit Breaker Thermal Magnetic (200A Trip)
20	3	2163WB-2P3JB-14DFCC-14GER-14HC2S-35TGM-79U-98-113 / PowerFlex 525 AC Drive w/CB - 1 HP with Circuit Breaker Thermal Magnetic (15A Trip)
21	1	2163WB-013JB-14DFCC-14GER-14HC2S-40TGM-79U-98-113 / PowerFlex 525 AC Drive w/CB - 7.5 HP with Circuit Breaker Thermal Magnetic (30A Trip)
22	10	2100-BJ10 / Blank Unit Door - 1.0 Space Factor
23	1	2113B-CDB-6P-7FE3EJGN6CR-17-18A-44TGA-79U-98-113 / Full Voltage Non-Reversing Starter w/CB - 25 HP with Circuit Breaker Instantaneous MCP (50A Trip)
24	1	2113B-BDB-6P-7FE3EJGN3CR-17-18A-36THA-79U-98-113 / Full Voltage Non-Reversing Starter w/CB - 1.5 HP with Circuit Breaker Instantaneous MCP (7A Trip)
25	1	2197-KJBA-34TGM-98 / Control & Lighting Transformer w/CB - 15.0 kVA with Circuit Breaker Thermal Magnetic (40A Trip)

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit Description Summary

Project Name: KOESTER PRE ZERO RECYCLING	Salesperson: [REDACTED]
Project Item: KOESTER PreZero Recycling MCC back-to-back	Created By: [REDACTED]
Project ID #: [REDACTED]	Date/Time: 07/17/23 - 8:22

#### General Information

Line Voltage / Frequency: 480 Volts / 60 Hertz  
 Power System Configuration: Wye, 3-phase, 3-wire with solidly grounded neutral  
 Class I Wiring Type: B-T Control and Power Terminal Blocks  
 NEMA Enclosure Type: 12 - Fully Gasketed with Bottom Plates  
 Available Fault Current: 50,001 to 65,000 A  
 Unit Nameplate Type: Acrylic - Black letters on white - BLANK NO TEXT  
 Delivery Program: FT1

#### Unit Information

Description	Unit Features
<p><b>Unit ID: 1</b>      <b>Del Prog: SCII</b>  <b>Unit Loc: 03K, 06K, 12K, 14K, 17K</b>  <b>Qty: 5</b>            ENPS - Ethernet Power Supply Unit</p> <p><u><b>Wiring Diagram</b></u>            10003993017</p>	<p><b>Catalog Number: 2100-EPS8JXWD</b>            Total Space Factor = 0.5            Without disconnecting means, plug-in stabs or control power transformer.            Requires separate 110-120VAC source.            Disconnect Type = No Disconnect Means            Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, V/60Hz            Control Wiring: #16 AWG MTW(TEW) Cu</p>
<p><b>Unit ID: 2</b>      <b>Del Prog: SCII</b>  <b>Unit Loc: 10A</b>  <b>Qty: 1</b>            PLAT - Full Sect Blank Mtg Plate w/ or w/o Disc</p> <p><u><b>Rating</b></u>            0A</p> <p><u><b>Wiring Diagram</b></u>            10002692524</p>	<p><b>Catalog Number: 2100-EJC2X3B-120</b>            Total Space Factor = 6            Disconnect Type = No Disconnect Means            Required Section Width 30" Wide            Working Depth 14" Deep</p> <p><u><b>Features Included</b></u>            Omit horizontal power bus (-120)</p>

<p><b>Unit ID: 3</b>      <b>Del Prog: OPII</b>  <b>Unit Loc: 01J, 14D, 14F, 14H</b>  <b>Qty: 4</b>  FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><b><u>Rating</u></b>  1 HP</p> <p><b><u>Wiring Diagram</u></b>  10006637792</p> <p><b><u>Overload Relay(s)</u></b>  E300 Comm Based Overload (7FE3)  E300 Communication Option = EtherNet/IP  E300 Voltage Code = 24V DC  E300 Control Module = Ground Fault &amp; PTC  E300 Sensing Module = 0.5-30A Current Only  E300 Operator Station = Electronic Reset  E300 Expansion Module = Not Available  Motor RPM = 1800  Motor Full Load Current (FLC) = 1.84  Motor Service Factor = 1.15</p>	<p><b>Catalog Number: 2113B-BDB-6P-7FE3EJGN3CR-17-18A-35THA-79U-98-113</b>  Size: NEMA Size 1  Total Space Factor = 1  Wiring: NEMA Type B wiring  Circuit Breaker: Instantaneous MCP, 100kA at 480V (H8P Frame) (3A Trip)  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Std Capacity Control Power Transformer W/Primary Fuses (-6P)  Contactor Surge Suppressor (-17)  Programmed Control Relay Contact (-18A)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>
<p><b>Unit ID: 4</b>      <b>Del Prog: OPII</b>  <b>Unit Loc: 05A, 05C, 05E, 05G, 05J, 05L, 13C, 13E, 15C, 16E</b>  <b>Qty: 10</b>  FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><b><u>Rating</u></b>  3 HP</p> <p><b><u>Wiring Diagram</u></b>  10006637794</p> <p><b><u>Overload Relay(s)</u></b>  E300 Comm Based Overload (7FE3)  E300 Communication Option = EtherNet/IP  E300 Voltage Code = 24V DC  E300 Control Module = Ground Fault &amp; PTC  E300 Sensing Module = 0.5-30A Current Only  E300 Operator Station = Electronic Reset  E300 Expansion Module = Not Available  Motor RPM = 1800  Motor Full Load Current (FLC) = 4.52  Motor Service Factor = 1.15</p>	<p><b>Catalog Number: 2113B-BDB-6P-7FE3EJGN3CR-17-18A-38TGA-79U-98-113</b>  Size: NEMA Size 1  Total Space Factor = 1  Wiring: NEMA Type B wiring  Circuit Breaker: Instantaneous MCP, 100kA at 480V (G8P Frame) (15A Trip)  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Std Capacity Control Power Transformer W/Primary Fuses (-6P)  Contactor Surge Suppressor (-17)  Programmed Control Relay Contact (-18A)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>

<p><b>Unit ID: 5</b>      <b>Del Prog: OP11</b>  <b>Unit Loc: 04A, 04C, 04E, 04G, 15A</b>  <b>Qty: 5</b>  FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><b><u>Rating</u></b>  5 HP</p> <p><b><u>Wiring Diagram</u></b>  10006694726</p> <p><b><u>Overload Relay(s)</u></b>  E300 Comm Based Overload (7FE3)  E300 Communication Option = EtherNet/IP  E300 Voltage Code = 24V DC  E300 Control Module = Ground Fault &amp; PTC  E300 Sensing Module = 0.5-30A Current Only  E300 Operator Station = Electronic Reset  E300 Expansion Module = Not Available  Motor RPM = 1800  Motor Full Load Current (FLC) = 6.88  Motor Service Factor = 1.15</p>	<p><b>Catalog Number: 2113B-BDB-6P-7FE3EJGN3CR-17-18A-39TGA-79U-98-113</b>  Size: NEMA Size 1  Total Space Factor = 1  Wiring: NEMA Type B wiring  Circuit Breaker: Instantaneous MCP, 100kA at 480V (G8P Frame) (15A Trip)  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Std Capacity Control Power Transformer W/Primary Fuses (-6P)  Contactor Surge Suppressor (-17)  Programmed Control Relay Contact (-18A)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>
<p><b>Unit ID: 6</b>      <b>Del Prog: OP11</b>  <b>Unit Loc: 02F, 13A</b>  <b>Qty: 2</b>  FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><b><u>Rating</u></b>  2 HP</p> <p><b><u>Wiring Diagram</u></b>  10006694724</p> <p><b><u>Overload Relay(s)</u></b>  E300 Comm Based Overload (7FE3)  E300 Communication Option = EtherNet/IP  E300 Voltage Code = 24V DC  E300 Control Module = Ground Fault &amp; PTC  E300 Sensing Module = 0.5-30A Current Only  E300 Operator Station = Electronic Reset  E300 Expansion Module = Not Available  Motor RPM = 1800  Motor Full Load Current (FLC) = 3.11  Motor Service Factor = 1.15</p>	<p><b>Catalog Number: 2113B-BDB-6P-7FE3EJGN3CR-17-18A-37THA-79U-98-113</b>  Size: NEMA Size 1  Total Space Factor = 1  Wiring: NEMA Type B wiring  Circuit Breaker: Instantaneous MCP, 100kA at 480V (H8P Frame) (7A Trip)  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Std Capacity Control Power Transformer W/Primary Fuses (-6P)  Contactor Surge Suppressor (-17)  Programmed Control Relay Contact (-18A)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>

<p><b>Unit ID: 7</b>      <b>Del Prog: OP11</b>  <b>Unit Loc: 02B, 02D, 13G</b>  <b>Qty: 3</b>  FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><b><u>Rating</u></b>  7.5 HP</p> <p><b><u>Wiring Diagram</u></b>  10006637796</p> <p><b><u>Overload Relay(s)</u></b>  E300 Comm Based Overload (7FE3)  E300 Communication Option = EtherNet/IP  E300 Voltage Code = 24V DC  E300 Control Module = Ground Fault &amp; PTC  E300 Sensing Module = 0.5-30A Current Only  E300 Operator Station = Electronic Reset  E300 Expansion Module = Not Available  Motor RPM = 1800  Motor Full Load Current (FLC) = 10.83  Motor Service Factor = 1.15</p>	<p><b>Catalog Number: 2113B-BDB-6P-7FE3EJGN3CR-17-18A-40TGA-79U-98-113</b>  Size: NEMA Size 1  Total Space Factor = 1  Wiring: NEMA Type B wiring  Circuit Breaker: Instantaneous MCP, 100kA at 480V (G8P Frame) (30A Trip)  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Std Capacity Control Power Transformer W/Primary Fuses (-6P)  Contactor Surge Suppressor (-17)  Programmed Control Relay Contact (-18A)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>
<p><b>Unit ID: 8</b>      <b>Del Prog: OP11</b>  <b>Unit Loc: 01L, 14B</b>  <b>Qty: 2</b>  FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><b><u>Rating</u></b>  0.5 HP</p> <p><b><u>Wiring Diagram</u></b>  10006694722</p> <p><b><u>Overload Relay(s)</u></b>  E300 Comm Based Overload (7FE3)  E300 Communication Option = EtherNet/IP  E300 Voltage Code = 24V DC  E300 Control Module = Ground Fault &amp; PTC  E300 Sensing Module = 0.5-30A Current Only  E300 Operator Station = Electronic Reset  E300 Expansion Module = Not Available  Motor RPM = 1800  Motor Full Load Current (FLC) = 1.1  Motor Service Factor = 1.15</p>	<p><b>Catalog Number: 2113B-BDB-6P-7FE3EJGN3CR-17-18A-33THA-79U-98-113</b>  Size: NEMA Size 1  Total Space Factor = 1  Wiring: NEMA Type B wiring  Circuit Breaker: Instantaneous MCP, 100kA at 480V (H8P Frame) (3A Trip)  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Std Capacity Control Power Transformer W/Primary Fuses (-6P)  Contactor Surge Suppressor (-17)  Programmed Control Relay Contact (-18A)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>

<p><b>Unit ID: 9</b>      <b>Del Prog: SCII</b>  <b>Unit Loc: 13J, 15E, 15J</b>  <b>Qty: 3</b>  VFD - PowerFlex 525 AC Drive w/CB</p> <p><b><u>Rating</u></b>  3 HP</p>	<p><b>Catalog Number: 2163WB-6P0JB-14DFCC-14GER-14HC2S-38TGM-79U-98-113</b>  Total Space Factor = 2  Wiring: NEMA Type B wiring  Output Current Rating: 6A  Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (15A Trip)  Human Interface Module: LCD Door display,digitl keypad - Door Mounted  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Drive I/P fuses - Class CC (-14DFCC)  Dual port DLR Ethernet communication module. Mounted internal to drive. (-14GER)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>
<p><b>Unit ID: 10</b>      <b>Del Prog: SCII</b>  <b>Unit Loc: 04J, 06A</b>  <b>Qty: 2</b>  VFD - PowerFlex 525 AC Drive w/CB</p> <p><b><u>Rating</u></b>  5 HP</p>	<p><b>Catalog Number: 2163WB-010JB-14DFCC-14GER-14HC2S-39TGM-79U-98-113</b>  Total Space Factor = 2  Wiring: NEMA Type B wiring  Output Current Rating: 10A  Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (20A Trip)  Human Interface Module: LCD Door display,digitl keypad - Door Mounted  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Drive I/P fuses - Class CC (-14DFCC)  Dual port DLR Ethernet communication module. Mounted internal to drive. (-14GER)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>
<p><b>Unit ID: 11</b>      <b>Del Prog: SCII</b>  <b>Unit Loc: 06E</b>  <b>Qty: 1</b>  VFD - PowerFlex 525 AC Drive w/CB</p> <p><b><u>Rating</u></b>  10 HP</p>	<p><b>Catalog Number: 2163WB-017JB-14DFCC-14GER-14HC2S-41TGM-79U-98-113</b>  Total Space Factor = 2.5  Wiring: NEMA Type B wiring  Output Current Rating: 17A  Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (30A Trip)  Human Interface Module: LCD Door display,digitl keypad - Door Mounted  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Drive I/P fuses - Class CC (-14DFCC)  Dual port DLR Ethernet communication module. Mounted internal to drive. (-14GER)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>

<p><b>Unit ID: 12</b>      <b>Del Prog: OP11</b>  <b>Unit Loc: 03B</b>  <b>Qty: 1</b>  VFD - PowerFlex 755 AC Drive w/CB</p> <p><b>Rating</b>  40 HP  (Heavy Duty)</p>	<p><b>Catalog Number: 2163VB-065HJB-14DA2R2-14DFLPJ-14GER-14HC6S-46TGM-79U-98-113</b>  Total Space Factor = 4  Wiring: NEMA Type B wiring  Output Current Rating: 52A  Circuit Breaker: Thermal Magnetic, 100kA at 480V (G6C Frame) (125A Trip)  Human Interface Module: LCD Door dispaly-num.kypad(753) - Door Mounted  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b>Features Included</b>  Drive 24VDC w/ I/O (-14DA2R2)  Drive I/P fuses - Bussmann (-14DFLPJ)  Dual port DLR Ethernet communication module. Mounted internal to drive. (-14GER)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>
<p><b>Unit ID: 13</b>      <b>Del Prog: OP11</b>  <b>Unit Loc: 09A</b>  <b>Qty: 1</b>  VFD - PowerFlex 755 AC Drive w/CB</p> <p><b>Rating</b>  100 HP  (Heavy Duty)</p>	<p><b>Catalog Number: 2163VB-156HJB-14DA2R2-14DFLPJ-14GER-14HC6S-50TJM-98</b>  Total Space Factor = 6  Wiring: NEMA Type B wiring  Output Current Rating: 125A  Circuit Breaker: Thermal Magnetic, 100kA at 480V (J6F Frame) (250A Trip)  Human Interface Module: LCD Door dispaly-num.kypad(753) - Door Mounted  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b>Features Included</b>  Drive 24VDC w/ I/O (-14DA2R2)  Drive I/P fuses - Bussmann (-14DFLPJ)  Dual port DLR Ethernet communication module. Mounted internal to drive. (-14GER)  1 NO Aux on Disc. Switch (-98)</p>
<p><b>Unit ID: 14</b>      <b>Del Prog: OP11</b>  <b>Unit Loc: 08A</b>  <b>Qty: 1</b>  VFD - PowerFlex 755 AC Drive w/CB</p> <p><b>Rating</b>  125 HP  (Heavy Duty)</p>	<p><b>Catalog Number: 2163VB-186HJB-14DA2R2-14DFLPJ-14GER-14HC6S-51TJM-98</b>  Total Space Factor = 6  Wiring: NEMA Type B wiring  Output Current Rating: 156A  Circuit Breaker: Thermal Magnetic, 100kA at 480V (J6F Frame) (250A Trip)  Human Interface Module: LCD Door dispaly-num.kypad(753) - Door Mounted  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b>Features Included</b>  Drive 24VDC w/ I/O (-14DA2R2)  Drive I/P fuses - Bussmann (-14DFLPJ)  Dual port DLR Ethernet communication module. Mounted internal to drive. (-14GER)  1 NO Aux on Disc. Switch (-98)</p>

<p><b>Unit ID: 15</b>      <b>Del Prog: FT1</b>  <b>Unit Loc: 11A</b>  <b>Qty: 1</b>  VFD - PowerFlex 755 AC Drive w/CB</p> <p><b><u>Rating</u></b>  150 HP  (Normal Duty)</p>	<p><b>Catalog Number: 2163VB-186NJB-14DA2R2-14DFLPJ-14GER-14HC6S-52TJM-98</b>  Total Space Factor = 6  Wiring: NEMA Type B wiring  Output Current Rating: 186A  Circuit Breaker: Thermal Magnetic, 100kA at 480V (-NONE- Frame) (250A Trip)  Human Interface Module: LCD Door dispaly-num.kypad(753) - Door Mounted  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Drive 24VDC w/ I/O (-14DA2R2)  Drive I/P fuses - Bussmann (-14DFLPJ)  Dual port DLR Ethernet communication module. Mounted internal to drive. (-14GER)  1 NO Aux on Disc. Switch (-98)</p> <p><b><u>Engineered Spec(s)/Modification(s)</u></b>  (1) Customer Load Cables Exit(Top)  (1) 250hp(ND)/200hp(HD) PowerFlex 753/755 VFD with Circuit Breaker/Fusible Disconnect, Frame 7 - 35" W/ 20" D - NEMA 12, 480V (Can Be UL Rated if no other Power Components Added) Note required in PCBR HD OR ND (Reactor would require additional section)  (1) Engineered Modification and/or Custom Diagram</p>
<p><b>Unit ID: 16</b>      <b>Del Prog: PEII</b>  <b>Unit Loc: 03L, 06L, 12L, 14L, 17L</b>  <b>Qty: 5</b>  ENSW - Stratix 5700 30-Port</p> <p><b><u>Wiring Diagram</u></b>  10004181376</p>	<p><b>Catalog Number: 2100-ESW30J-B10FAA</b>  Total Space Factor = 1  Full Stratix 5700 Firmware  Both Ethernet Adapters and Power Adapters (w/Unit Mtg)</p>
<p><b>Unit ID: 17</b>      <b>Del Prog: SCII</b>  <b>Unit Loc: 01H, 02A, 03A, 12A, 14A</b>  <b>Qty: 5</b>  DOOR - Blank Unit Door</p>	<p><b>Catalog Number: 2100-BJ05</b>  Total Space Factor = 0.5</p>
<p><b>Unit ID: 18</b>      <b>Del Prog: PEII</b>  <b>Unit Loc: 01A</b>  <b>Qty: 1</b>  MCB - Main Circuit Breaker</p> <p><b><u>Rating</u></b>  1200A</p>	<p><b>Catalog Number: 2193MT-GJC-56TNMG-82D500-98</b>  Total Space Factor = 3.5  Circuit Breaker: Electronic (LSIG) - Maint. Mode, 65kA at 480V (1200) with Frame Rating of 1200A (N6I Frame) w/ Maintenance Mode, Top Mounted, 1200A Trip, with Internal Ground Fault Protection  Lugs Supplied: Crimp type,CU wire, 500 kcmil Size Wire, 4 Cables per Phase</p> <p><b><u>Features Included</u></b>  1 NO Aux on Disc. Switch (-98)</p>

<p><b>Unit ID: 19</b>      <b>Del Prog: OP11</b>  <b>Unit Loc: 07A</b>  <b>Qty: 1</b>  VFD - PowerFlex 755 AC Drive w/CB</p> <p><b>Rating</b>  60 HP  (Heavy Duty)</p>	<p><b>Catalog Number: 2163VB-096HJB-14DA2R2-14DFLPJ-14GER-14HC6S-48TJM-98</b>  Total Space Factor = 6  Wiring: NEMA Type B wiring  Output Current Rating: 77A  Circuit Breaker: Thermal Magnetic, 100kA at 480V (J6F Frame) (200A Trip)  Human Interface Module: LCD Door display,num.kypad(753) - Door Mounted  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b>Features Included</b>  Drive 24VDC w/ I/O (-14DA2R2)  Drive I/P fuses - Bussmann (-14DFLPJ)  Dual port DLR Ethernet communication module. Mounted internal to drive. (-14GER)  1 NO Aux on Disc. Switch (-98)</p>
<p><b>Unit ID: 20</b>      <b>Del Prog: SC11</b>  <b>Unit Loc: 16G, 16K, 17E</b>  <b>Qty: 3</b>  VFD - PowerFlex 525 AC Drive w/CB</p> <p><b>Rating</b>  1 HP</p>	<p><b>Catalog Number: 2163WB-2P3JB-14DFCC-14GER-14HC2S-35TGM-79U-98-113</b>  Total Space Factor = 1.5  Wiring: NEMA Type B wiring  Output Current Rating: 2A  Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (15A Trip)  Human Interface Module: LCD Door display,digitl keypad - Door Mounted  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b>Features Included</b>  Drive I/P fuses - Class CC (-14DFCC)  Dual port DLR Ethernet communication module. Mounted internal to drive. (-14GER)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>
<p><b>Unit ID: 21</b>      <b>Del Prog: SC11</b>  <b>Unit Loc: 02H</b>  <b>Qty: 1</b>  VFD - PowerFlex 525 AC Drive w/CB</p> <p><b>Rating</b>  7.5 HP</p>	<p><b>Catalog Number: 2163WB-013JB-14DFCC-14GER-14HC2S-40TGM-79U-98-113</b>  Total Space Factor = 2.5  Wiring: NEMA Type B wiring  Output Current Rating: 13A  Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (30A Trip)  Human Interface Module: LCD Door display,digitl keypad - Door Mounted  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b>Features Included</b>  Drive I/P fuses - Class CC (-14DFCC)  Dual port DLR Ethernet communication module. Mounted internal to drive. (-14GER)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>
<p><b>Unit ID: 22</b>      <b>Del Prog: SC11</b>  <b>Unit Loc: 12B, 12D, 12F, 12H, 16C, 17A, 17C, 18A, 18C, 18E</b>  <b>Qty: 10</b>  DOOR - Blank Unit Door</p>	<p><b>Catalog Number: 2100-BJ10</b>  Total Space Factor = 1</p>

<p><b>Unit ID: 23</b>      <b>Del Prog: OPII</b>  <b>Unit Loc: 16A</b>  <b>Qty: 1</b>  FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><b><u>Rating</u></b>  25 HP</p> <p><b><u>Wiring Diagram</u></b>  10006694730</p> <p><b><u>Overload Relay(s)</u></b>  E300 Comm Based Overload (7FE3)  E300 Communication Option = EtherNet/IP  E300 Voltage Code = 24V DC  E300 Control Module = Ground Fault &amp; PTC  E300 Sensing Module = 6-60A Current Only  E300 Operator Station = Electronic Reset  E300 Expansion Module = Not Available  Motor RPM = 1800  Motor Full Load Current (FLC) = 32.34  Motor Service Factor = 1.15</p>	<p><b>Catalog Number: 2113B-CDB-6P-7FE3EJGN6CR-17-18A-44TGA-79U-98-113</b>  Size: NEMA Size 2  Total Space Factor = 1  Wiring: NEMA Type B wiring  Circuit Breaker: Instantaneous MCP, 100kA at 480V (G8P Frame) (50A Trip)  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Std Capacity Control Power Transformer W/Primary Fuses (-6P)  Contactor Surge Suppressor (-17)  Programmed Control Relay Contact (-18A)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>
<p><b>Unit ID: 24</b>      <b>Del Prog: OPII</b>  <b>Unit Loc: 17H</b>  <b>Qty: 1</b>  FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><b><u>Rating</u></b>  1.5 HP</p> <p><b><u>Overload Relay(s)</u></b>  E300 Comm Based Overload (7FE3)  E300 Communication Option = EtherNet/IP  E300 Voltage Code = 24V DC  E300 Control Module = Ground Fault &amp; PTC  E300 Sensing Module = 0.5-30A Current Only  E300 Operator Station = Electronic Reset  E300 Expansion Module = Not Available  Motor RPM = 1800  Motor Full Load Current (FLC) = 2.51  Motor Service Factor = 1.15</p>	<p><b>Catalog Number: 2113B-BDB-6P-7FE3EJGN3CR-17-18A-36THA-79U-98-113</b>  Size: NEMA Size 1  Total Space Factor = 1  Wiring: NEMA Type B wiring  Circuit Breaker: Instantaneous MCP, 100kA at 480V (H8P Frame) (7A Trip)  Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz  Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><b><u>Features Included</u></b>  Std Capacity Control Power Transformer W/Primary Fuses (-6P)  Contactor Surge Suppressor (-17)  Programmed Control Relay Contact (-18A)  Unit Grd Stab Unplated Cu (-79U)  1 NO Aux on Disc. Switch (-98)  SecureConnect feature selected (-113)</p>
<p><b>Unit ID: 25</b>      <b>Del Prog: SCII</b>  <b>Unit Loc: 18G</b>  <b>Qty: 1</b>  XFMR - Control &amp; Lighting Transformer w/CB</p> <p><b><u>Wiring Diagram</u></b>  10003268693</p>	<p><b>Catalog Number: 2197-KJBA-34TGM-98</b>  Total Space Factor = 3  Secondary Wiring Fusing &amp; Rating: 1-Phase, 120/240V, 2 Fuse, 15.0 kVA  Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (40A Trip)</p> <p><b><u>Features Included</u></b>  1 NO Aux on Disc. Switch (-98)</p>

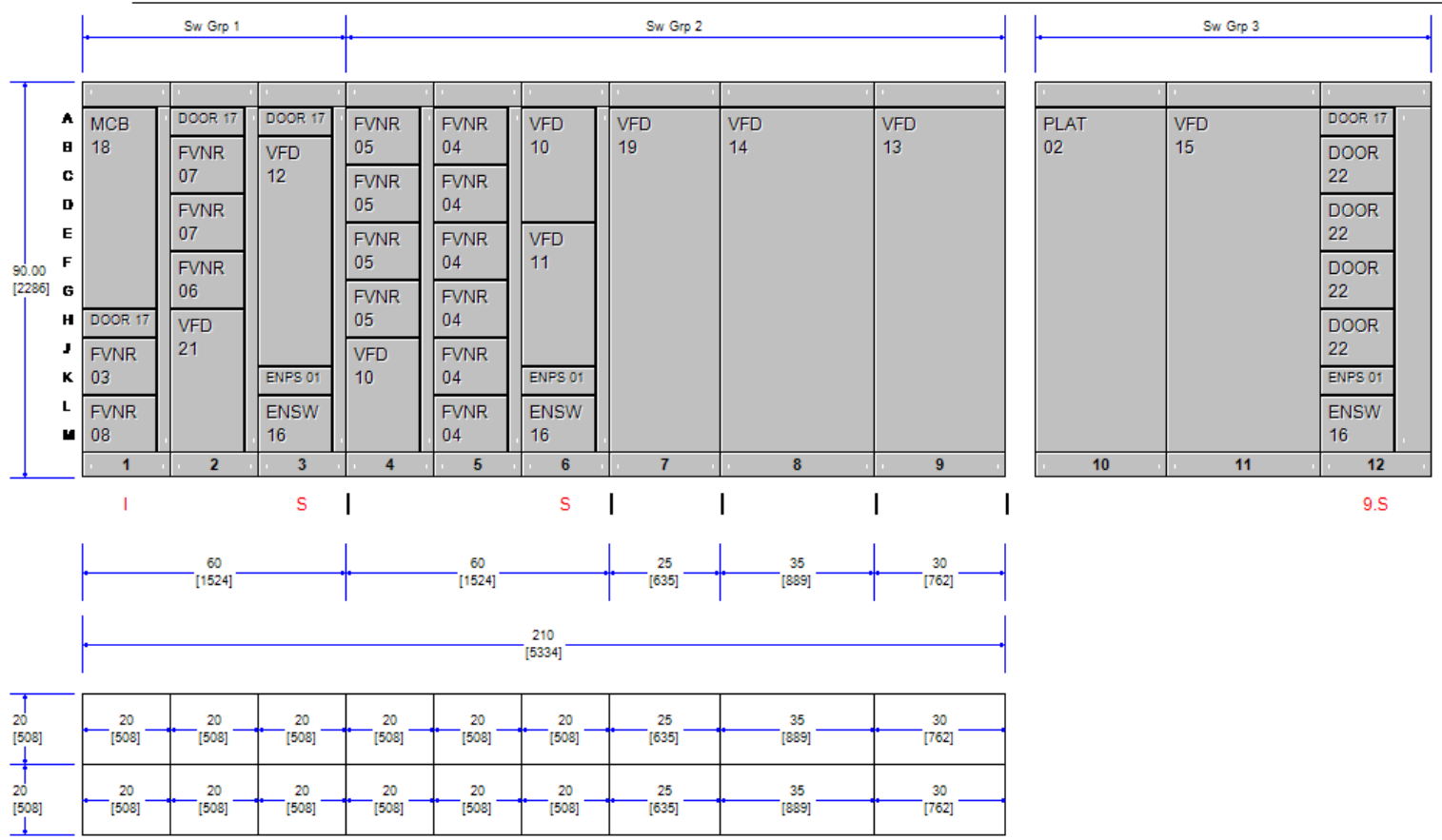
# Rockwell Automation

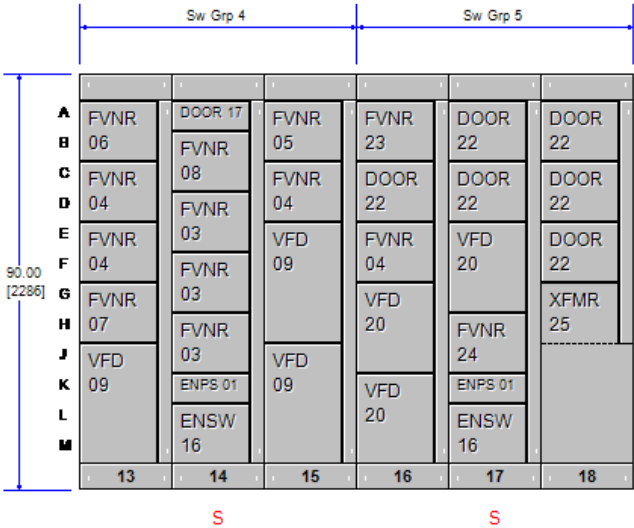
## Centerline 2100 Motor Control Center Front Elevation

Project Name: KOESTER PRE ZERO RECYCLING  
 Project Item: KOESTER PreZero Recycling MCC back-to-back  
 Project ID #: [REDACTED]

Salesperson: [REDACTED]  
 Created By: [REDACTED]  
 Date/Time: 07/17/23 - 8:22

Rockwell Automation/Allen-Bradley  
 PowerControl Builder Lineup





NOTE: Dimensions are subject to change after design review.  
 ENCLOSURE: NEMA Type 12 (Fully Gasketed with Bottom Closing Plates)

Estimated Heat Loss: 12567 watts  
 BTU/hr Required: 42882  
 Air Conditioning Tons: 3.59  
 Estimated Weight: 9000 lb (4082 kg)