

Item No.	Qty.	Catalog Number / Details
001-00	1	<p>MEDIUMVOLTAGEEQUIPMENT MEDIUM VOLTAGE EQUIPMENT PRICED BY PSEC</p> <p><b>Markings:</b> FOR SQUARE D COMPANY USE ONLY</p>
002-00	1	<p><b>Designation:</b> BRYAN FOODS - PSEC MEDIUM VOLTAGE MCC Motor Control Center &gt; 1000 Volts</p> <p>-----</p> <p>4 Section (Unit Sequence) Line-up Consisting of the following: RS485 Modbus Comms Wired Out Free-Standing Lineup Configuration Front and Rear Access Indoor Gasketed Enclosure (NEMA 1A) Label Requirements: cULus (Std.) NEMA Standard/Design Ambient Air Temperature: &gt;-30C(-22F) &amp; &lt;40C(104F) (Std.) No Known Existing Conduit or Concrete Pad Altitude: 0 - 3299 feet above sea level (Std)</p> <p>General Equipment Ratings -----</p> <p>BIL: 60kV (std) Nominal System Voltage: 4000/4160 V System Type: 3 Wire Solid Ground Main Bus SCC: 50kA for 2 sec System Frequency: 60 Hertz Control Voltage: Square D Supplied</p> <p>System Calculated Full Load Amps: 554.91 If Total System Amps Exceeds Main Bus Rating, Then Customer Should Confirm They Know This and Accept Responsibility For Proper System Loading Not To Exceed Main Bus Rating.</p> <p>General Structure Information -----</p> <p>1200A Tin Plated CU Main Bus (Std.) Exterior Color: ANSI #61, Light Gray (Std.) Line-up Indicating Light Type: LED (Std) Low Voltage Control Wiring THHN (Std.) Power Cable Lugs: Supplied By Customer (Std.) Relays: Communications Required Relays: Drawout Case Style Terminal Block and Lug Type: Two-Tier, Compression Box Unplated CU Ground Bus Fuse Brand: Square D Class R and Class E, DIN Factory Determined Shipping Splits (75" Max) Touch-up Paint included in carton pack</p> <p>The Auto-transformer will be shipped separately for horsepower's above 250HP. The installer will be responsible for the correct installation of the transformer at the job site. See IB46032-700-06B ""Field Installation" section for further instruction for the RVAT. Overall Dimensions:</p>

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		<p>Width: 206.50" 5245mm            Height: 90.60" 2300mm            Depth: 37.25" 946mm (foot print)            Approximate Weight: 12932 lbs 5878 kg</p> <p>Special Features or TAG Items (per line-up)            -----            If Special Features are included in this Bill of Material, they will NOT appear on the Front-Elev or One-line Drawing and may alter the final layout and dimensions.</p> <p>Detailed Bill of Material            -----            Controller Type Key for abbreviations:            FVNR = Full Voltage Non-Reversing            FVNR Latched = FV Non-Reversing Latched            FVR = Full Voltage Reversing            RVNR AT = RV Non-Reversing Autotransformer            RVNR Reactor = RV Non-Reversing Reactor            RVR AT = RV Reversing Autotransformer            RVR Reactor = RV Reversing Reactor            Sync = Synchronous Type Controller            SS = Soft Start Type Controller</p> <p>This MV Motor Control Lineup shall be depicted in the attached drawing and shall include the following:</p> <p>SEQ # 1, RVNR AUTOTRANSFORMER            1250Hp</p> <p>Induction Motor Application            Preliminary User Data            User Entered Horsepower: 01250            System Calculated Motor FLA: 169            System Calculated Motor LRA: 1064            User Entered LR Code: G (5.60-6.29)            Motor Acceleration Time: 0-10 sec (Std.)            Motor Service Factor: 1.15            Fuse Manufacturer: Ferraz Shawmut            Sys. Calc. Class R Fuses, DIN 16R            Contactor Cat. No. CBD225NB0MN            Contactor Size: System Calculated            1 RV AT Controller, 200A, Drawout            1 Basic Control Package: (1) Start Pushbutton, (1) Stop Pushbutton, (1) Red Run Pilot, (1) Green Off Pilot Light (Std)            1 GE/Multilin SR469 Motor Protection Relay            1 Single Open Delta 3-Phase VT            1 0.30 KVA CPT (Std)            1 - System Calculated 3-Phase 250/5 CT            1 - Zero Sequence CT            1 3-Phase 150 KVAR PFCC (4160 V Max.)            2 250 kcmil Cables (per phase) Loadside            1 Contactor Open/Close Status Window</p> <p>SEQ # 2, FVNR            800 Hp</p> <p>Induction Motor Application            Preliminary User Data</p>

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		User Entered Horsepower: 00800 System Calculated Motor FLA: 108 System Calculated Motor LRA: 681 User Entered LR Code: G (5.60-6.29) Motor Acceleration Time: 0-10 sec (Std.) Motor Service Factor: 1.00 (Std.) Fuse Manufacturer: Ferraz Shawmut Sys. Calc. Class R Fuses, DIN 9R Contactor Cat. No. : CBD225NB0MN Contactor Size: System Calculated 1 - FVNR Controller, 200A, Drawout 1 - Basic Control Package: (1) Start Pushbutton, (1) Stop Pushbutton, (1) Red Run Pilot, (1) Green Off Pilot Light (Std) 1 - GE/Multilin SR469 Motor Protection Relay 1 - 0.30 KVA CPT (Std) 1 - System Calculated 3-Phase 200/5 CT 1 - Zero Sequence CT 1 - 3-Phase 100 KVAR PFCC (4160 V Max.) 2 - 4/0 AWG Cables (per phase) Loadside  SEQ # 3, FVNR 800 Hp  Induction Motor Application Preliminary User Data User Entered Horsepower: 00800 System Calculated Motor FLA: 108 System Calculated Motor LRA: 681 User Entered LR Code: G (5.60-6.29) Motor Acceleration Time: 0-10 sec (Std.) Motor Service Factor: 1.00 (Std.) Fuse Manufacturer: Ferraz Shawmut Sys. Calc. Class R Fuses, DIN 9R Contactor Cat. No. : CBD225NB0MN Contactor Size: System Calculated 1 - FVNR Controller, 200A, Drawout 1 - Basic Control Package: (1) Start Pushbutton, (1) Stop Pushbutton, (1) Red Run Pilot, (1) Green Off Pilot Light (Std) 1 - GE/Multilin SR469 Motor Protection Relay 1 - 0.30 KVA CPT (Std) 1 - System Calculated 3-Phase 200/5 CT 1 - Zero Sequence CT 1 - 3-Phase 100 KVAR PFCC (4160 V Max.) 2 - 4/0 AWG Cables (per phase) Loadside  SEQ # 4, RVNR AUTOTRANSFORMER 1250Hp  Induction Motor Application Preliminary User Data User Entered Horsepower: 01250 System Calculated Motor FLA: 169 System Calculated Motor LRA: 1064 User Entered LR Code: G (5.60-6.29) Motor Acceleration Time: 0-10 sec (Std.) Motor Service Factor: 1.15 Fuse Manufacturer: Ferraz Shawmut Sys. Calc. Class R Fuses, DIN 16R Contactor Cat. No. : CBD225NB0MN Contactor Size: System Calculated 1 - RV AT Controller, 200A, Drawout

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003-00	1	<p>           1 - Connection to New HVL/Visi-Vac on Right            1 - Basic Control Package: (1) Start Pushbutton, (1) Stop Pushbutton, (1) Red Run Pilot, (1) Green Off Pilot Light (Std)            1 - GE/Multilin SR469 Motor Protection Relay            1 - Single Open Delta 3-Phase VT            1 - 0.30 KVA CPT (Std)            1 - System Calculated 3-Phase 250/5 CT            1 - Zero Sequence CT            1 - 3-Phase 150 KVAR PFCC (4160 V Max.)            2 - 250 kcmil Cables (per phase) Loadside            1 - Contactor Open/Close Status Window         </p> <p> <b>METAL ENCLOSED SWITCHGEAR</b>  <b>METAL ENCLOSED SWITCHGEAR &gt; 1000 VOLTS</b>            -----  <b>GENERAL PRODUCT INFORMATION</b>            -----            PRODUCT TYPE: HVL            3 SECTION LINE-UP            INDOOR (Type1)            2 - 38.00 DUAL MAIN SECTIONS            1 - 14.75 EXTERNAL TRANSITION            OVERALL DIMENSIONS: 90.75" 2305mm WIDE                                      90.00" 2286mm HIGH                                      54.50" 1384mm DEEP            APPROXIMATE WEIGHT: 2600 LBS 1182 KG         </p> <p> <b>SWITCHGEAR RATINGS</b>            -----            SWITCHGEAR MAXIMUM VOLTAGE RATING: 4.76 KV            MAIN BUS: 1200A TIN-PLATED COPPER            GROUND BUS: TIN-PLATED COPPER            BIL : 60 KV         </p> <p> <b>INTEGRATED SHORT CIRCUIT CURRENT RATINGS FOR SWITCHES WITH FUSES:</b>            -----            THE INTEGRATED SHORT CIRCUIT CURRENT RATINGS FOR SWITCHES WITH FUSES CAN BE FOUND IN THE INTEGRATED RATINGS TABLES. REFER TO THE CATALOG SECTIONS FOR EACH PRODUCT LINE.         </p> <p> <b>NON-FUSED SWITCH RATINGS</b>            -----            MOMENTARY CURRENT: 40 KA ASYM (25 KA SYM)            FAULT CLOSE CURRENT: 40KA ASYM (25KA SYM)            SHORT TIME CURRENT 2 SEC:            25 KA SYM (40 KA ASYM)         </p> <p> <b>SPECIFIC APPLICATION INFORMATION</b>            -----            NOMINAL SYSTEM VOLTAGE: 4160 VOLTS            SYSTEM GROUNDING: 3 WIRE WYE            SOLIDLY GROUNDED            FREQUENCY: 60 HZ            MAX AVAILABLE SHORT CKT CURRENT:            25KA SYM (40 KA ASYM)            FRONT AND REAR ACCESS            AMBIENT AIR TEMP: &gt; -30C, &lt;40 DEG C         </p>

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		<p>STANDARD &amp; OPTIONAL ITEMS COMMON TO LINEUP</p> <p>-----</p> <p>EXTERIOR PAINT COLOR: ANSI 61 LIGHT GREY INSULATORS : GLASS POLYESTER HOT STICK WITH FUSE HANDLING TOOL TOUCH UP PAINT PROVIDED STANDARD ENCLOSURE HARDWARE APPLIES TO CATEGORY B APPLICATIONS WHERE THE GENERAL PUBLIC WILL NOT HAVE ACCESS TO THE SWITCHGEAR PADLOCK PROVISIONS FOR UP TO 3 PADLOCKS ON SWITCH HANDLE CASTING LABEL REQUIREMENTS : UL STANDARDS: ANSI GASKET PANELS INDOOR PROVISIONS ONLY FOR CABLE LUGS ARE PROVIDED PROVISIONS FOR LUGS ARE SUITABLE FOR COPPER OR ALUMINUM CABLES (UL LISTED)</p> <p>IF UNKNOWN ANSWERS ARE LISTED BELOW IN THIS BILL OF MATERIAL : DEFAULT ASSUMPTIONS WERE MADE. THESE ASSUMPTIONS MAY ALTER THE FINAL PRICE, FINAL LAYOUT AND DIMENSIONS.</p> <p>-----</p> <p>THIS HVL METAL-ENCLOSED SWITCHGEAR SHALL BE DEPICTED IN THE ATTACHED DRAWINGS AND SHALL INCLUDE THE FOLLOWING:</p> <p>-----</p> <p>SECTION # 1, EXTERNAL TRANSITION SECTION -</p> <p>1 - Type1 LOADSIDE BUS XTION TO MOTORPACT MV MCC 14.75 " WIDE</p> <p>SECTION # 2, DUAL MAIN SECTION Main</p> <p>1 - 4.76KV, 600A, 25KA HVL SWITCH Type1 MULTIPLE 600A CONTINUOUS &amp; INTERRUPTING CURRENT 3 - SQUARE D CURRENT LIMITING 5.5 KV 400E FUSES 1 - KEY INTERLOCK SWITCH TO SWITCH 1 - PROVISIONS FOR 2 - 250 KCMIL COPPER OR ALUMINUM (UL LISTED) LUGS PER PHASE ON LINESIDE - LINESIDE, BOTTOM CABLE ENTRY</p> <p>SECTION # 3, DUAL MAIN SECTION Main</p> <p>1 - 4.76KV, 600A, 25KA HVL SWITCH Type1 MULTIPLE 600A CONTINUOUS &amp; INTERRUPTING CURRENT 3 - SQUARE D CURRENT LIMITING 5.5 KV 400E FUSES 1 - KEY INTERLOCK SWITCH TO SWITCH 1 - PROVISIONS FOR 2 - 250 KCMIL COPPER OR ALUMINUM (UL LISTED) LUGS PER PHASE ON</p>

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		LINESIDE - LINESIDE, BOTTOM CABLE ENTRY