Installation Manual

Powering Business Worldwide

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WARNING

This symbol indicates high voltage. It calls your attention to items or operations that could be dangerous to you and other persons operating this equipment. Read the message and follow the instructions carefully.

WARNING

Indicates a potentially hazardous situation which, if not avoided, can result in serious injury or death.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, can result in minor to moderate injury, or serious damage to the product. The situation described in the CAUTION may, if not avoided, lead to serious results. Important safety measures are described in CAUTION (as well as WARNING).

IMPORTANT

This symbol is the "Safety Alert Symbol." It occurs with either of two signal words: CAUTION or WARNING, as described below.

NOTE

When the internal EMC filter is disconnected, the drive might be not EMC compatible.

- Do not attempt to install or remove the MOV or EMC screws while power is applied to the drive's input terminals

WARNING

Motor control equipment and electronic controllers are connected to hazardous line voltages. When servicing drives and electronic controllers, there may be exposed components with housings or protrusions at or above line potential. Extreme care should be taken to protect against shock.

- **Stand on an insulating pad and make it a habit to use only one hand when checking components**
- **Always work with another person in case an emergency occurs**
- **Disconnect power before checking controllers or performing maintenance**
- **Be sure equipment is properly earthed**
- **Wear safety glasses whenever working on electronic controllers or rotating machinery**

WARNING

The components in the drive's power section remain energized after the supply voltage has been switched off. After disconnecting the supply, wait at least five minutes before removing the cover to allow the intermediate circuit capacitors to discharge.

Pay attention to hazard warnings!

WARNING

Do not perform any modifications on the AC drive when it is connected to mains.

CAUTION

Any electrical or mechanical modification to this drive without prior written consent of manufacturer will void all warranties and may result in a safety hazard in addition and voiding of the UL® listing.

CAUTION

Install this drive on flame-resistant material such as a steel plate to reduce the risk of fire.

CAUTION

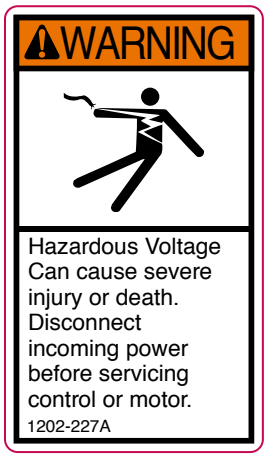
Install this drive on a perpendicular surface that is able to support the weight of the drive and is not subject to vibration, to lessen the risk of the drive falling and being damaged and/or causing personal injury.

1. SAFETY

Read and follow all safety information shown in the Installation Manual included in the documentation packet provided with each unit.

WARNING

Disconnect Incoming power before servicing this control or motor.



Operation of this equipment requires detailed installation and operation instructions. This information is included in the documentation packet supplied with the unit. It should be retained with this device at all times. A hard copy of this information may be ordered at www.Eaton.com/us/en-us.

CAUTION

"Risk of Electric Shock" Wait 10 minutes before servicing to allow to BUS Capacitors to discharge.

WARNING

The opening of the branch-circuit protective device may be an indication that a fault current has been interrupted. To reduce the risk of fire or electric shock, current-carrying parts and other components of the controller should be examined and replaced if damaged. For bypass designs, if a burnout of the current element of the overload relay occurs, the complete overload relay must be replaced.

2. GENERAL DESIGN

There are 6 product families: EGS, EGF, EGP, SVX, CFX, and CPX. The EGS (PowerXL DG1 drive) and SVX product families denote the standard design offering. The EGF (PowerXL DG1 drive) and CFX product families include a Passive Filter which delivers 5% - 7% Total Harmonic Distortion (THD). The EGP and CPX includes an 18-Pulse transformer for 3% - 5% Total Harmonic Distortion.

All products are enclosed variable frequency drives (VFDs) that convert either single-phase or three-phase AC input power into three-phase output power for controlling motors. Some configurations incorporate bypass circuits.

- All models are enclosed in either a wall mounted or a floor standing metal enclosure.
- All models contain options for a short circuit protective device, fuses, surge protection device, thermal-magnetic circuit breaker, fusible disconnect, motor circuit protector, an associated disconnect handle/operator, 3% input and output reactors, and dV/dt filter.
- Eaton's PowerXL DG1 Enclosed Drive family incorporates the latest Eaton drive technology into pre-engineered enclosed solutions covering the industry's most common applications. Using the benefits of the PowerXL DG1, the enclosed family provides enhanced user safety with the Safe Torque Off feature as well as industry leading energy efficiency from Eaton's patented Active Energy Control algorithm.
- Eaton's line of enclosed SVX drives combine the proven performance from Eaton's SVX drives with the enhanced capabilities of enclosed control. With a comprehensive list of pre-engineered options, Eaton's SVX enclosed drives eliminate the lead time normally associated with customer specific options. For those applications with more unique or complex requirements, Eaton offers individually engineered solutions to meet the customer's needs.

3. DOCUMENTATION

This document provides supplemental information to the open or component VFD manuals. Inside the enclosure or inside the shipping carton of each unit is a documentation packet that includes the electrical schematic, connection diagram, installation manual and other component publications and warranty information for the unit.

For custom drive setup and/or operation, please refer to the following documents, available at http://www.eaton.com/drives.

PowerXL DG1 drive:

Installation Manual	MN040002EN
Quick Start Guide	MN040012EN
Instruction Leaflet	IL040016EN
Application Manual	MN040004EN
Option Cards Manual	MN040007EN
Communication Manual	MN0400010EN

SVX9000 General Purpose drive:

User Manual	MN04001004E, MN04001001E, MN04003016E
Quick Start Guide	MN04003009E
Application Manual	MN04004001E and SVCH0203
Option Board Manual	MN04003001E
Communication Manual	MN04012010E, MN04003008E, MN04003003E, MN04012006E, MN04012005E, MN04003006E, MN04002005E, MN032005EN

4. IDENTIFICATION

4.1 UNIT Identification LABELS

The unit is identified by a catalog number shown on a Rating label located inside the door

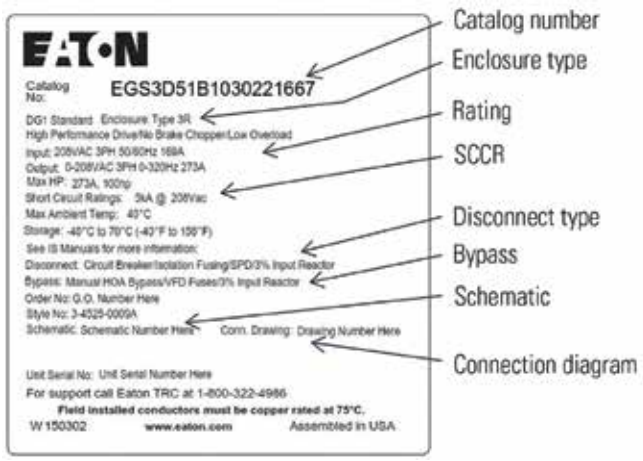


Figure 1. Rating Label

Limited information is available under the Keypad

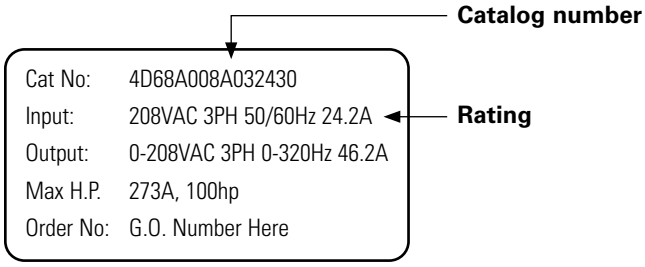


Figure 2. Information Label under Keypad

Alternate Rating label may be used

4.2 CATALOG NUMBER NOMENCLATURE

Each Catalog number consists of 18 digits, each digit or combination of digits in the catalog number indicates a rating, feature or option. The catalog is located in PDF format on the website at www.eaton.com/drives

EGS 3D5 1 D 1 _ _ _ _ _ _

Product Family

EGS = Enclosed DG1 drives - standard

Options[3]

See **Page V6-T2-76** for catalog number option selection.

Enclosure Rating[2]

1 = NEMA Type 1
2 = NEMA Type 12
3 = NEMA Type 3R
6 = NEMA Type 1 Filtered and gasketed
• = Custom option

Braking Application[1]

A = No brake chopper, low overload
B = Brake chopper, low overload
C = No brake chopper, high overload
D = Brake chopper, high overload

Output Ampere Rating

208 V	230 V	480 V
3D5 = 3.5 A, 0.75 hp	**3D2** = 3.2 A, 0.75 hp	**2D1** = 2.1 A, 1 hp
4D6 = 4.6 A, 1 hp	**4D2** = 4.2 A, 1 hp	**3D0** = 3.0 A, 1.5 hp
6D6 = 6.6 A, 1.5 hp	**6D0** = 6.0 A, 1.5 hp	**3D4** = 3.4 A, 2 hp
7D5 = 7.5 A, 2 hp	**6D8** = 6.8 A, 2 hp	**4D8** = 4.8 A, 3 hp
010 = 10.6 A, 3 hp	**9D6** = 9.6 A, 3 hp	**7D6** = 7.6 A, 5 hp
016 = 16.7 A, 5 hp	**015** = 15.2, 5 hp	**011** = 11 A, 7.5 hp
024 = 24.2 A, 7.5 hp	**022** = 22 A, 7.5 hp	**014** = 14 A, 10 hp
030 = 30.8 A, 10 hp	**028** = 28 A, 10 hp	**021** = 21 A, 15 hp
046 = 46.2 A, 15 hp	**042** = 42 A, 15 hp	**027** = 27 A, 20 hp
059 = 59.4 A, 20 hp	**054** = 54 A, 20 hp	**034** = 34 A, 25 hp
074 = 74.8 A, 25 hp	**068** = 68 A, 25 hp	**040** = 40 A, 30 hp
088 = 88 A, 30 hp	**080** = 80 A, 30 hp	**052** = 52 A, 40 hp
114 = 114 A, 40 hp	**104** = 104 A, 40 hp	**065** = 65 A, 50 hp
143 = 143 A, 50 hp	**130** = 130 A, 50 hp	**077** = 77 A, 60 hp
169 = 169 A, 60 hp	**154** = 154 A, 60 hp	**096** = 96 A, 75 hp
211 = 211 A, 75 hp	**192** = 192 A, 75 hp	**124** = 124 A, 100 hp
273 = 273 A, 100 hp	**248** = 248 A, 100 hp	**156** = 156 A, 125 hp
	312 = 312 A, 125 hp	**180** = 180 A, 150 hp
		240 = 240 A, 200 hp
		302 = 302 A, 250 hp

Phasing, Voltage

1 = Input: Three-phase, 208 V Output: Three-phase	**5** = Input: Three-phase, 575 V Output: Three-phase
2 = Input: Three-phase, 230 V Output: Three-phase	**J** = Input: Single-phase, 230 V Output: Three-phase
4 = Input: Three-phase, 480 V Output: Three-phase	**K** = Input: Single-phase, 480 V Output: Three-phase

Notes

1 Brake chopper is a factory-installed option only. Braking resistors sold separately. See DG1 drives starting on **Page V6-T2-59** for selection.
2 Additional enclosure options including NEMA 4, 4X, 7 and 9 are available. Please contact the factory forconfiguration and pricing.
3 Part number configuration continued on the following page.

EGS 3D5 1 D 1

2 0 0 B 1 0 0 0 0

Base Catalog Number Example

See **Page V6-T2-75** for base catalog number selection.

Power Disconnect Options

0 = None
1 = MCP disconnect[1]
2 = Circuit breaker
3 = Circuit breaker/isolation fusing
4 = Circuit breaker/isolation fusing/3% input reactor
5 = Circuit breaker/isolation fusing/SPD
6 = Circuit breaker/isolation fusing/SPD/3% input reactor
7 = Circuit breaker/3% input reactor
8 = Circuit breaker/SPD
9 = Circuit breaker/SPD/3% input reactor
A = Fused disconnect
B = Fused disconnect/SPD
C = Fused disconnect/SPD/3% input reactor
D = Fused disconnect/3% input reactor
E = Isolation fuses
F = Isolation fuses/3% input reactor
G = Isolation fuses/SPD
H = Isolation fuses/SPD/3% input reactor
• = Custom option[2]

Bypass Options[3]

0 = None
1 = Manual HOA bypass
2 = Manual HOA bypass/isolation fusing
3 = Manual HOA bypass/isolation fusing/3% input reactor
4 = Manual HOA bypass/isolation fusing/SPD
5 = Manual HOA bypass/isolation fusing/SPD/3% input reactor
6 = Manual HOA bypass/3% input reactor
7 = Manual HOA bypass/SPD
8 = Manual HOA bypass/SPD/3% input reactor
H = Manual HOA RVSS bypass
J = Manual HOA RVSS bypass/isolation fusing
K = Manual HOA RVSS bypass/isolation fusing/3% input reactor
L = Manual HOA RVSS bypass/isolation fusing/SPD
M = Manual HOA RVSS bypass/isolation fusing/SPD/3% input reactor
N = Manual HOA RVSS bypass/3% input reactor
P = Manual HOA RVSS bypass/SPD
R = Manual HOA RVSS bypass/SPD/3% input reactor
• = Custom option[2]

Output Power Options[4]

0 = None
A = Output contactor
B = 3% Output reactor
D = dV/dt filter
E = 3% Output Reactor/output contactor
G = dV/dt/output contactor
• = Custom option[2]

Control Options[5]

0 =None
1 =Speed pot
2 = Start-stop pushbutton
3 = Start-stop pushbutton with speed pot
A = HOA switch
B = Start-stop pushbutton with speed pot & HOA switch
C = Start-stop pushbutton with HOA switch
D = HOA switch with speed pot
• = Custom option[2]

Light Options[5]

0 =None
1 =Non-bypass light kit—Power On, Run, Fault
2 =Bypass light kit—On, VFD Run, Fault, Bypass Run
• = Custom option[2]

Enclosure Options

0 = None
1 = Floor stand—12 inches
2 = Floor stand—22 inches
A = Space heater
B = Space heater & 12-inch floor stands
C = Space heater & 22-inch floor stands
• = Custom option[2]

Communication Options

0 = No option
1 = PROFIBUS-DP
3 = CANopen (slave)
4 = DeviceNet
5 = PROFIBUS-DP (D9 connector)
D = SmartWire-DT
• = Custom option[2]

Option Boards 1

0 = No option
1 = 3 x DI, 3 x DO, 1 Thermistor, 24 Vdc/EXT
2 = 1 x AI, 2 x AO (isolated to control board)
3 = 3 x relay dry contact (2NO + 1NO/NC)
4 = 3 x PT100 RTD thermistor input
5 = 6 DI 240 Vac input
• = Custom option[2]

Option Boards 2

Same options and codes as Option Boards 1

Notes

1 HMCP disconnect option required and only available when bypass is selected.
2 More options are available as Engineered to Order through the Bid Manager tool.
3 All bypass options include third contactor for drive isolation when in bypass mode.
4 Output contactor not available with bypass. Bypass comes standard with output contactor.
5 Pilot devices are 22 mm standard. 30 mm options are available as engineered to order through the Bid Manager tool.

5. ELECTRICAL RATINGS

5.1 Input voltage (VIN)

Available Ratings are: 208V, 230V, 480V, Three Phase 50/60Hz and 230V, 480V Single Phase 50/60Hz. Note: Not all designs are available for all voltages.

5.2 Output voltage (VOUT)

Output range from 0 to input voltage (Vin) rating.

5.3 Output AMPS

Maximum output ranges from 1.6A to 1100A based on Model and Input voltage ratings.

5.4 Output frequency

Output frequency ranges from 0Hz to 320 Hz.

5.5 Short circuit interrupting rating

Please refer to the unit nameplate for SCCR ratings, which are based on the components used.

Additional branch circuit protection must be provided in accordance with the National Electrical Code, any other local codes, or equivalent.

6. ENVIRONMENTAL RATINGS

Enclosure Ratings: Type 1, 12, 3R, and Type 1 Filtered and Gasketed.

Max Ambient Operating Temperature: 40C. 50C may be available for some models.

Storage Temperature: -40 to 70C.

7. PRODUCT FAMILY/DESIGN TYPE

The designs are defined in the catalog number nomenclature.

EGS = Standard Design using Eaton DG1/DH1 VFD

EGF = Passive Filtered Design using Eaton DG1/DH1 VFD

EGP = Clean Power (18-Pulse) Design using Eaton DG1/DH1 VFD

SVX = Standard Design using Eaton SVX/SPX VFD

CFX = Passive Filtered Design using Eaton SVX/SPX VFD

CPX = Clean Power (18-Pulse) Design using Eaton SVX/SPX VFD

Note: Not all designs are available for all voltages.

7.1 EGS and SVX standard design

Standard designs are defined as any design that uses either an EATON DG1 VFD (EGS) or and EATON SVX VFD (SVX). Standard designs can be either non-bypass, or bypass designs.

7.2 EGF and CFX filtered design

Design that uses either an EATON DG1 VFD (EGF) or and EATON SVX VFD (CFX) and a passive filter for 5% - 7% Total Harmonic Distortion. Designs can be either non-bypass or bypass designs.

7.3 EGP and CPX clean power design

Design that uses either an EATON DG1 VFD (EGP) or and EATON SVX VFD (CPX) and an 18-Pulse transformer for 3% - 5% Total Harmonic Distortion. Designs can be either non-bypass or bypass designs.

8. STD OPTIONS

Std Options are defined by the catalog number nomenclature.

Bypass Option - Contains a reduced voltage soft starter (RVSS) bypass or a standard across the line (ATL) bypass. This option also provides a door mounted 3 position selector switch used to select the VFD, OFF or BYPASS operating mode.

SPD - This is a device designed to protect electrical devices from voltage spikes.

VFD Fuses - This option consists of three fuses, which are factory mounted in the enclosure. Fuses provide fault protection of the VFD input power. Fast acting fuse Class J or Class T will be used to protect the VFD. The fuses are not used in the bypass mode.

Input Reactors - This device protects the drive from potentially harmful voltage spikes and reduces harmonic distortion.

Circuit Breaker Fused Disconnect - Provides a means of disconnecting the product from the line and the operating mechanism can be padlocked in the OFF.

Output Contactor - This option provides a positive disconnection of the VFD output from the motor terminals.

Output Reactors - This option provides a 3% reactor located on the load side of the VFD to provide harmonic noise mitigation to reduce the transient voltage (DV/DT) at the motor terminals.

DVDT Filter - This option located on the load side of the VFD, provides harmonic noise mitigation to reduce the transient voltage (DV/DT) at the motor terminals.

Floor Stand - This option converts a size AX, BX or CX enclosure that is normally wall mounted enclosure to a floor standing enclosure.

Heater - This option is in a Type 3R enclosure. This includes an optional condensation protection with the use of a space heater. The heater is powered via an internal 120VAC source, but has the capability feature to use external power by removing jumpers. The option contains a panel mounted thermostat that can be adjusted by the customer.

Speed Pot - This option provides the ability to adjust the frequency reference using a door-mounted potentiometer. This option uses the 10 Vdc reference from the VFD to generate a 0–10V signal at the analog voltage input signal terminal of the VFD.

Stop/Start Push Buttons - This option provides door mounted START and STOP pushbuttons.

HOA Switch - This option provides a three-position selector switch that allows the user to select either a HAND or AUTO mode of operation. HAND mode is defaulted to keypad operation, and AUTO mode is defaulted to control from an external terminal source. These modes of operation can be configured via programming to allow for alternate combinations of start and speed sources. Start and speed sources include keypad, I/O and fieldbus.

Light Option - pilot light: VFD Run, VFD Fault, Bypass Run & Bypass Run & VFD faulted.

Communication Options - Communication options include PROFIBUS-DP, CANopen, DeviceNet, and PROFIBUS-DP (D9 Connector) for all product families. In addition, the communication option available for the PowerXL DG1 enclosed families is the SmartWire-DT. Additional communication options available for the SVX9000 enclosed families are LONWORKS, MODBUS, MODBUS (D9 connector), MODBUS TCP, BACnet, Johnson Controls N2, Ethernet/IP, and RS-232 with D9 connector.

Option Boards - The available option boards are 3 x DI, 3 x DO, 1 Thermistor, 24Vdc / EXT (DG1 ONLY); 1 x AI, 2 x AO - Isolated to control board (DG1 ONLY); 3 x relay dry contact - 2NO + 1NO / NC (DG1 ONLY); 3 x PT100 RTD thermistor input (DG1 ONLY); 6 DI 240Vac input (DG1 ONLY); 6 DI, 1 ext +24 Vdc / EXT + 24 Vdc (SVX ONLY); 1 RO (NC-NO), 1 RO (NO), 1 thermistor (SVX ONLY); 1 AI (mA isolated), 2 AO (mA isolated), 1 ext +24 Vdc / EXT +24 Vdc (SVX ONLY); 3 RO (NO) (SVX ONLY); 1 ext +24 Vdc / EXT +24 Vdc, 3 Pt100 (SVX ONLY); 1 RO (NO), 5 DI 42–240 Vac input (SVX ONLY); Encoder low volt +5V / 15V /24V (High Performance Drive Only); Encoder high volt +15V / 24V (High Performance Drive Only); Double encoder (High Performance Drive Only).

Customers may pick up to two option boards.

9. ENCLOSURES

Environmental ratings for VFD enclosures are Type 1, 12 and 3R. They are identified by the following codes: Sizes 7, 8, 9, 10, 9A, 11 AX, BX, CX, DX, EX and FX. The size of enclosure used is based on rating and options. Not all enclosures are available for all products. The physical dimensions are based on the enclosure frame size.

See Rating Nameplate for Enclosure type provided.

9.1 Enclosure Options

Floor stands, Air filters and Space Heater options are available for some enclosure sizes/types.

9.2 Enclosure Outline Dimensions and Mounting Details

A Dimensional drawing is provided inside the documentation packet with each unit. An example of each size/drawing is included at the end of this document.

10. INSTALLATION & MOUNTING NOTES

- Weights and lifting provisions are shown on the dimension drawing provided with the unit.
- Attach "load-rated" hooks or shackles to lifting eyes on back panel.
- Always maintain a maximum of 45 degrees between the lifting cables and the vertical plane.
- Do not pass ropes or cables through the lifting eyes as sharp edges may cause excessive wear and possible failure.
- Select or adjust rigging lengths to compensate for unequal weight distribution of the load to keep unit in the upright position.
- Mounting hardware locations are shown on the drawings supplied with the unit.

11. COMPONENT LOCATIONS

- Typical locations of key components are shown on the connection diagram provided with the unit.

12. WIRING

- A schematic and connection drawing is provided inside the documentation packet with each unit. The drawing numbers are also shown on the unit rating plate.

12.1 Important Wiring Notes

- All wires must be copper and rated 75C^0.
- See schematic provided with unit for details and control logic.
- Enclosure must be grounded using input and output studs provided.
- This equipment must be installed in compliance with the national electric code and all state/local codes.
- Use multiple conduits to separate control wiring from incoming power wiring.
- Remote auto start contact and 4-20mA auto speed signal connections are made directly to VFD control module.
- Motor connections that are made to VFD power terminals u,v & w, need to be grounded using clamp supplied. See VFD IL for more information.

12.2 Conduit Plates

Some models have removable conduit plate for wiring ease. See outline drawing supplied with unit to determine if they have the plates.

12.3 Input Power Wiring

Connect the incoming power leads to terminals L1, L2 and L3. Input wiring points have labels to help locate. Actual connection points are shown on the connection diagram provided with the unit. See technical section for TB wire range and torque information.

12.4 Motor Wiring

For units without options, refer to the standard VFD Installation Manual for more details on direct connection to the VFD and VFD grounds clamps.

For Bypass models, wire motor leads directly to the output contactor M, overload OL or output power TB. All bypass models have labels to help locate and are identified as Motor Leads. Actual connections points are shown on the connection diagram provided with the unit. See technical section for TB wire range, tool and torque information.

12.5 Grounding

Input and output ground points are provided and hardware is also supplied. The locations are shown on the Connection diagrams and differ based on design, enclosure type and size. In most designs the grounds are also identified by a label.

See technical section for TB wire range and torque information. Also see the standard VFD Installation Manual for more details on direct connection to the VFD and VFD grounds clamps.

12.6 Control Wiring

No additional control wiring is necessary for basic operation. See operation section for description of basic operations

Also see schematic for Auto Start contact and Auto reference connections to control PCB terminal block if required. Also see Installation and Application Manual for more information on how these features operate.

13. WIRING TECHNICAL INFORMATION

13.1 Input Wiring

Connection will typically be made to one of the following components:

- Circuit Breaker,
- Motor circuit protector
- Disconnect (fused)
- Power Terminal Block
- Direct to VFD input TB

See appropriate table for wire range, torque and tool needed based on component supplied.

13.2 Output Wiring

Connection will typically be made to one of the following components:

- VFD output TB
- Contactor
- Motor Overload
- Power Terminal Block

CB input connection point

Connection ID	Type	P/N	Frame	LUG P/N	Wire type	AWG wire range	Torque IN-IB	Metric wire size mm²	Torque NM	Screw/Head Type/Tool	ILL#1	ILL#1
L1,L2,L3	CB	FDC3015L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3020L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3025L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3030L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3035L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3040L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3045L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3050L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3060L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3070L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3080L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3090L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3100L	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	0
L1,L2,L3	CB	FDC3110L	F	3TA225FD	CU	See table based on wire size used				3/16 HEX	ILL29C101I	0
L1,L2,L3	CB	FDC3125L	F	3TA225FD	CU	See table based on wire size used				3/16 HEX	ILL29C101I	0
L1,L2,L3	CB	FDC3150L	F	3TA225FD	CU	See table based on wire size used				3/16 HEX	ILL29C101I	0
L1,L2,L3	CB	FDC3175L	F	3TA225FD	CU	See table based on wire size used				3/16 HEX	ILL29C101I	0
L1,L2,L3	CB	FDC3200L	F	3TA225FD	CU	See table based on wire size used				3/16 HEX	ILL29C101I	0
L1,L2,L3	CB	FDC3225L	F	3TA225FD	CU	See table based on wire size used				3/16 HEX	ILL29C101I	0
L1,L2,L3	CB	JDC3250	J	TA250KB	CU	See table based on wire size used				5/16 HEX	IL29C103G	6632C43H08
L1,L2,L3	CB	KDC3300	K	TA350K	CU	See table based on wire size used					IL29C104E	
L1,L2,L3	CB	KDC3350	K	TA350K	CU	See table based on wire size used					IL29C104E	
L1,L2,L3	CB	KDC3400	K	TA350K	CU	See table based on wire size used					IL29C104E	
L1,L2,L3	CB	NGC3080	N	TA1000NB1	CU	See table based on wire size used					IL29C106F	
L1,L2,L3	CB	NGC3120	N	TA1200NB1	CU	See table based on wire size used					IL29C106F	
L1,L2,L3	CB	RDC316T	R	TA1600RD	CU	See table based on wire size used					IL29C107L	
L1,L2,L3	CB	RDC320T	R	TA2000RD	CU	See table based on wire size used					IL29C107L	

Disc input connection point

Connection ID	Type	P/N	Frame	Rated	Pole	Terminal catalog number	Wire type	AWG wire range	Torque IN-IB	Metric wire size mm^2	Torque NM	Screw/Head Type/Tool	ILL#1	ILL#1
L1,L2,L3	Disc	R9C3030U	R9C	30	3	Intergal		See disc terminal table based on wire size					537678a	
L1,L2,L3	Disc	R9C3060U	R9C	60	3	Intergal		See disc terminal table based on wire size					537678a	
L1,L2,L3	Disc	R9C3100U	R9C	100	3	Intergal		See disc terminal table based on wire size					537678a	
L1,L2,L3	Disc	R9D3100U	R9D	100	3	LK3R9DL		See disc terminal table based on wire size					538264a	
L1,L2,L3	Disc	R9D3200U	R9D	200	3	LK3R9DL		See disc terminal table based on wire size					538264a	
L1,L2,L3	Disc	R9E3400U	R9E	400	3	LK3R9EM		See disc terminal table based on wire size					538265a	
L1,L2,L3	Disc	R9F3600U	R9F	600	3	LK3R9FN		See disc terminal table based on wire size					528414d	
L1,L2,L3	Disc	R9F3800U	R9F	800	3	LK6R96		See disc terminal table based on wire size					528414d	
L1,L2,L3	Disc	R9J2030FJ	R9J	30	2	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9J2030FJ	R9J	30	2	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9J2060FJ	R9J	60	2	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9J2060FJ	R9J	60	2	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9K2100FJ	R9K	100	2	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9K2100FJ	R9K	100	2	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9L2200FJ	R9L	200	2	LK2R9DL		See disc terminal table based on wire size					538038a	
L1,L2,L3	Disc	R9L2200FJ	R9L	200	2	LK2R9DL		See disc terminal table based on wire size					538038a	
L1,L2,L3	Disc	R9N2600FJ	R9N	600	2	LK2R9FN		See disc terminal table based on wire size					538040a	538043a
L1,L2,L3	Disc	R9N2600FJ	R9N	600	2	LK2R9FN		See disc terminal table based on wire size					538040a	538043a
L1,L2,L3	Disc	R9N2800FL	R9N	800	2	LK2R9FN		See disc terminal table based on wire size					538040a	538043a
L1,L2,L3	Disc	R9N2800FL	R9N	800	2	LK2R9FN		See disc terminal table based on wire size					538040a	538043a
L1,L2,L3	Disc	R4H3030FCC	R4H	30	3	Intergal		See disc terminal table based on wire size					538040a	538043a
L1,L2,L3	Disc	R4H3030FJ	R4H	30	3	Intergal		See disc terminal table based on wire size					538040a	538043a
L1,L2,L3	Disc	R9I3030FCC	R9I	30	3	Intergal		See disc terminal table based on wire size					538049a	
L1,L2,L3	Disc	R9J3030FJ	R9J	30	3	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9J3030FJ	R9J	30	3	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9J3060FJ	R9J	60	3	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9J3060FJ	R9J	60	3	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9K3060FJ	R9K	60	3	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9K3060FJ	R9K	60	3	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9K3100FJ	R9K	100	3	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9K3100FJ	R9K	100	3	Intergal		See disc terminal table based on wire size					538037a	
L1,L2,L3	Disc	R9L3200FJ	R9L	200	3	LK3R9DL		See disc terminal table based on wire size					538038a	
L1,L2,L3	Disc	R9L3200FJ	R9L	200	3	LK3R9DL		See disc terminal table based on wire size					538038a	
L1,L2,L3	Disc	R9M3400FJN	R9M	400	3	LK3R9FN		See disc terminal table based on wire size					538039a	
L1,L2,L3	Disc	R9M3400FJN	R9M	400	3	LK3R9FN		See disc terminal table based on wire size					538039a	
L1,L2,L3	Disc	R9M3600FJN	R9M	600	3	LK3R9FN		See disc terminal table based on wire size					538039a	
L1,L2,L3	Disc	R9M3600FJN	R9M	600	3	LK3R9FN		See disc terminal table based on wire size					538039a	
L1,L2,L3	Disc	R9N3600FJ	R9N	600	3	LK3R9FN		See disc terminal table based on wire size					538040a	538043a
L1,L2,L3	Disc	R9N3800FL	R9N	800	3	LK3R9FN		See disc terminal table based on wire size					538040a	538043a
L1,L2,L3	Disc	R9N3600FJ	R9N	600	3	LK3R9FN		See disc terminal table based on wire size					538040a	538043a
L1,L2,L3	Disc	R9N3800FL	R9N	800	3	LK3R9FN		See disc terminal table based on wire size					538040a	538043a

Contactor motor connection point

Connection ID	Type	Output contactor P/N	Frame Ref	Wire type	AWG wire range	Torque IN-IB	Metric wire size mm^2	Torque NM	Screw/Head Type/Tool	ILL#1
T1,T2,T3	Contactor	XTCE007B01**	B	CU	8-14	11	0	1.2	Pozidriv #2	IL03407013Z
T1,T2,T3	Contactor	XTCE009B01**	B	CU	8-14	11	0	1.2	Pozidriv #2	IL03407013Z
T1,T2,T3	Contactor	XTCE012B01**	B	CU	8-14	11	0	1.2	Pozidriv #2	IL03407013Z
T1,T2,T3	Contactor	XTCE015B01**	B	CU	8-14	11	0	1.2	Pozidriv #3	IL03407013Z
T1,T2,T3	Contactor	XTCE018C01**	C	CU	8-14	27	0	3	M5 Screw/Bolt	IL03407013Z
T1,T2,T3	Contactor	XTCE025C01**	C	CU	8-14	27	0	3	M5 Screw/Bolt	IL03407013Z
T1,T2,T3	Contactor	XTCE032C01**	C	CU	14-1	27	0	3	M5 Screw/Bolt	IL03407013Z
T1,T2,T3	Contactor	XTCE040D00**	D	CU	14-1	29	0	3.3	M6 Screw/Bolt	IL03407033Z
T1,T2,T3	Contactor	XTCE050D00**	D	CU	14-1	29	0	3.3	M6 Screw/Bolt	IL03407033Z
T1,T2,T3	Contactor	XTCE065D00**	D	CU	14-1	29	0	3.3	M6 Screw/Bolt	IL03407033Z
T1,T2,T3	Contactor	XTCE072D00**	D	CU	14-1	29	0	3.3	M6 Screw/Bolt	IL03407033Z
T1,T2,T3	Contactor	XTCE080F00**	F	CU	8-3/0	124	0	14	M10 Screw/Bolt	IL03407039Z
T1,T2,T3	Contactor	XTCE095F00**	F	CU	8-3/0	124	0	14	M10 Screw/Bolt	IL03407039Z
T1,T2,T3	Contactor	XTCE115G00**	G	CU	8-3/0	124	0	14	M10 Screw/Bolt	IL03407039Z
T1,T2,T3	Contactor	XTCE150G00**	G	CU	8-3/0	124	0	14	M10 Screw/Bolt	IL03407039Z
T1,T2,T3	Contactor	XTCE170G00**	G	CU	8-3/0	124	0	14	M10 Screw/Bolt	IL03407039Z
T1,T2,T3	Contactor	XTCE185H22**	H	CU	0	214	0	24	M10 Screw/Bolt	IL03406001Z
T1,T2,T3	Contactor	XTCE225H22**	H	CU	0	214	0	24	M10 Screw/Bolt	IL03406001Z
T1,T2,T3	Contactor	XTCE185L22**	L	CU	0	0	0	0	M10 Screw/Bolt	IL03406001Z
T1,T2,T3	Contactor	XTCE225L22**	L	CU	0	0	0	0	M10 Screw/Bolt	IL03406001Z
T1,T2,T3	Contactor	XTCE250L22**	L	CU	0	212	0	24	M10 Screw/Bolt	IL03406002Z
T1,T2,T3	Contactor	XTCE300M22**	M	CU	0	212	0	24	M10 Screw/Bolt	IL03406002Z
T1,T2,T3	Contactor	XTCE400M22**	M	CU	0	212	0	24	M10 Screw/Bolt	IL03406002Z
T1,T2,T3	Contactor	XTCE500M22**	M	CU	0	212	0	24	M10 Screw/Bolt	IL03406002Z
T1,T2,T3	Contactor	XTCE580N22**	N	CU	0	221/310	0	24/35	M10/12 Screw/Bolt	IL03407023Z
T1,T2,T3	Contactor	XTCE650N22**	N	CU	0	221/310	0	24/35	M10/12 Screw/Bolt	IL03407023Z
T1,T2,T3	Contactor	XTCE750N22**	N	CU	0	310	0	35	M12 Screw/Bolt	IL03407023Z
T1,T2,T3	Contactor	XTCE820N22**	N	CU	0	310	0	35	M12 Screw/Bolt	IL03407023Z
T1,T2,T3	Contactor	XTCEC10N22**	N	CU	0	310	0	35	M12 Screw/Bolt	IL03407023Z
T1,T2,T3	Contactor	XTCEC14P22**	N	CU	0	310	0	35	M12 Screw/Bolt	IL03407023Z
T1,T2,T3	Contactor	XTCEC16R22**	N	CU	0	310	0	35	M12 Screw/Bolt	IL03407023Z

Overload motor connection point

Connection ID	Type	Voltage	HP	Overload P/N	Overload type	OL Range Amps	Frame Ref	Wire Type	AWG Wire Range	Torque IN-IB	Metric wire size mm^2	Torque NM	Screw/Head Type/Tool	ILL#1	ILL#1
T1,T2,T3	OL Relay	208V	0.75	XTOB004BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	208V	1.00	XTOB006BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	208V	1.50	XTOB010BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	208V	2.00	XTOB010BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	208V	3.00	XTOB012BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	208V	5.00	XTOB024CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	208V	7.50	XTOB032CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	208V	10.00	XTOB032CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	208V	15.00	XTOB057DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	208V	20.00	XTOB065DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	208V	25.00	XTOB100GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	208V	30.00	XTOB100GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	208V	40.00	XTOB125GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	208V	50.00	XTOB150GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	208V	60.00	XTOB220HC1	BM	H	BM	CU	250	160	0	18	16MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	230V	0.75	XTOB004BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	230V	1.00	XTOB006BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	230V	1.50	XTOB006BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	230V	2.00	XTOB010BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	230V	3.00	XTOB010BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	230V	5.00	XTOB016CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	230V	7.50	XTOB024CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	230V	10.00	XTOB032CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	230V	15.00	XTOB057DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	230V	20.00	XTOB057DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	230V	25.00	XTOB075DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	230V	30.00	XTOB100GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	230V	40.00	XTOB125GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	230V	50.00	XTOB150GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	230V	60.00	XTOB175GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	230V	75.00	XTOB220HC1	BM	H	BM	CU	250	160	0	18	16MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	480V	0.75	XTOB1P6BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	480V	1.00	XTOB2P4BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	480V	1.50	XTOB004BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	480V	2.00	XTOB004BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	480V	3.00	XTOB006BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	480V	5.00	XTOB010BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	480V	7.50	XTOB012BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	480V	10.00	XTOB016BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	480V	15.00	XTOB024CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	480V	20.00	XTOB032CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z

Overload motor connection point

Connection ID	Type	Voltage	HP	Overload P/N	Overload type	OL Range Amps	Frame Ref	Wire Type	AWG Wire Range	Torque IN-IB	Metric wire size mm^2	Torque NM	Screw/Head Type/Tool	ILL#1	ILL#1
T1,T2,T3	OL Relay	480V	25.00	XTOB040DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	480V	30.00	XTOB040DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	480V	40.00	XTOB057DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	480V	50.00	XTOB065DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	480V	60.00	XTOB100GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	480V	75.00	XTOB100GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	480V	100.00	XTOB125GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	480V	125.00	XTOB175GC1S	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	480V	150.00	XTOB220HC1	BM	H	BM	CU	250	160	0	18	16MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	575V	0.75	XTOB1P6BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	1.00	XTOB2P4BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	1.50	XTOB2P4BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	2.00	XTOB004BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	3.00	XTOB004BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	5.00	XTOB010BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	7.50	XTOB010BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	10.00	XTOB012BC1	BM	B	BM	CU	14-8	16	0	1.8	Pozidriv #2	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	15.00	XTOB024CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	20.00	XTOB024CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	25.00	XTOB032CC1	BM	C	BM	CU	14-8	16	0	1.8	Pozidriv #3	IL03407015Z	MN03407004Z
T1,T2,T3	OL Relay	575V	30.00	XTOB040DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	575V	40.00	XTOB057DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	575V	50.00	XTOB057DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	575V	60.00	XTOB065DC1	BM	D	BM	CU	14-2	31	0	3.5	Pozidriv #2	IL03407008Z	MN03407005Z
T1,T2,T3	OL Relay	575V	75.00	XTOB100GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	575V	100.00	XTOB100GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	575V	125.00	XTOB125GC1	BM	G	BM	CU	3/0	89	0	10	5MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	575V	150.00	XTOB160HC1	BM	H	BM	CU	250	160	0	18	16MM HEX	IL03407006Z	MN03407005Z
T1,T2,T3	OL Relay	575V	200.00	XTOB220HC1	BM	H	BM	CU	250	160	0	18	16MM HEX	IL03407006Z	MN03407005Z

CT = current transformer
BM = bimetallic
CMC= Inclued in the Type E disconnect- BCP table

PTB motor or input connection point

Connection ID	Type	PTB	AMPS Rated	Wire Type	AWG Wire Range	Torque IN-lB	Metric wire size mm^2	Torque NM	Screw/Head Type/Tool	ILL#1	ILL#1
T1,T2,T3	PTB	NDN1	90	CU	18 - 2	32	1 - 35	Slotted	Slotted	N/A	N/A
T1,T2,T3	PTB	NDN111	90	90	18 - 2	32	1 - 35	3.6	Slotted	N/A	N/A
T1,T2,T3	PTB	PDBFS204	175	175	8 - 2/0	110	10 - 70	12.4	3/16 HEX	SB09689	SB09689
T1,T2,T3	PTB	PDBFS303	310	310	6 - 350	275	16 - 185	31.1	5/16 HEX	SB09690	SB09690
T1,T2,T3	PTB	PDBFS500	620	620	4 - 350 QTY 2	275	12 - 185	31.1	5/16 HEX	SB09691	SB09691
T1,T2,T3	PTB	PDBFS504	760 600V	760 600V	6 - 500 QTY 2	500	16 - 240	56.5	3/8 HEX	SB09692	SB09692

MCP input connection point

Connection ID	Type	P/N	Frame	LUG P/N	Wire type	AWG wire range	Torque IN-LB	Metric wire size MM^2	Torque NM	Screw / Head / Type / Tool	ILL#1	ILL#1
L1,L2,L3	MCP	HMCPS003A0C	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	N/A
L1,L2,L3	MCP	HMCPS007C0C	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	N/A
L1,L2,L3	MCP	HMCPS015E0C	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	N/A
L1,L2,L3	MCP	HMCPS030H1C	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	N/A
L1,L2,L3	MCP	HMCPS050K2C	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	N/A
L1,L2,L3	MCP	HMCPS100R3C	F	3T100FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	N/A
L1,L2,L3	MCP	HMCPS150T4C	F	3TA150FB	CU	See table based on wire size used				SLOTTED	ILL29C101I	N/A
L1,L2,L3	MCP	HMCP250L5C	J	TA250KB	CU	See table based on wire size used				5/16 HEX	IL29C402D	N/A
L1,L2,L3	MCP	HMCP250K5C	J	TA250KB	CU	See table based on wire size used				5/16 HEX	IL29C402D	N/A
L1,L2,L3	MCP	HMCP400R5C	K	TA400K	CU	See table based on wire size used				5/16 HEX	IL29C403F	N/A

VFD motor or input connection point

Connection ID	Type	Voltage	HP	VFD P/N	Frame Ref	Wire Type	AWG Wire Range	Torque IN-LB	Metric wire size mm^2	Torque NM	Screw/Head Type/Tool	ILL#1	ILL#2
L1,L2,L3/T1,T2,T3	VFD	208V	0.75	DG1-323D7FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	1	DG1-323D7FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	1.5	DG1-324D8FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	2	DG1-326D6FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	3	DG1-327D8FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	5	DG1-32012FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	7.5	DG1-32017FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	10	DG1-32025FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	15	DG1-32031FB-C21C	3	CU	6 - 2 QTY 1	40	16 - 35	4.5	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	20	DG1-32048FB-C21C	3	CU	6 - 2 QTY 1	40	16 - 35	4.5	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	25	DG1-32061FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	30	DG1-32075FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	40	DG1-32088FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	50	DG1-32114FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	60	DG1-32143FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	75	DG1-32170FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	208V	100	DG1-32211FN-C21C	6	CU	1/0 - 300 QTY 2	480	50 - 150 QTY 2	54.2	1/2 HEX	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	0.75	DG1-323D7FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	1	DG1-323D7FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	1.5	DG1-324D8FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	2	DG1-326D6FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	3	DG1-327D8FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	5	DG1-32012FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	7.5	DG1-32017FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	10	DG1-32025FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	Flat blade	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	15	DG1-32031FB-C21C	3	CU	6 - 2 QTY 1	40	16 - 35	4.5	0	MN040002EN	MN040039EN

VFD motor or input connection point

Connection ID	Type	Voltage	HP	VFD P/N	Frame Ref	Wire Type	AWG Wire Range	Torque IN-LB	Metric wire size mm^2	Torque NM	Screw/Head Type/Tool	ILL#1	ILL#2
L1,L2,L3/T1,T2,T3	VFD	230V	20	DG1-32048FB-C21C	3	CU	6 - 2 QTY 1	40	16 - 35	4.5	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	25	DG1-32061FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	30	DG1-32075FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	40	DG1-32088FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	50	DG1-32114FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	60	DG1-32143FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	75	DG1-32170FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	100	DG1-32211FN-C21C	6	CU	1/0 - 300 QTY 2	480	50 - 150 QTY 2	54.2	1/2 HEX	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	230V	125	DG1-32248FN-C21C	6	CU	1/0 - 300 QTY 2	480	50 - 150 QTY 2	54.2	1/2 HEX	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	0.75	DG1-342D2FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	1	DG1-342D2FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	1.5	DG1-342D2FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	2	DG1-343D3FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	3	DG1-344D3FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	5	DG1-345D6FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	7.5	DG1-349D0FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	10	DG1-34012FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	15	DG1-34016FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	20	DG1-34023FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	25	DG1-34031FB-C21C	3	CU	6 - 2 QTY 1	40	16 - 35	4.5	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	30	DG1-34038FB-C21C	3	CU	6 - 2 QTY 1	40	16 - 35	4.5	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	40	DG1-34046FB-C21C	3	CU	6 - 2 QTY 1	40	16 - 35	4.5	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	50	DG1-34061FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	60	DG1-34072FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	75	DG1-34087FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	100	DG1-34105FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN

VFD motor or input connection point

Connection ID	Type	Voltage	HP	VFD P/N	Frame Ref	Wire Type	AWG Wire Range	Torque IN-LB	Metric wire size mm^2	Torque NM	Screw/Head Type/Tool	ILL#1	ILL#2
L1,L2,L3/T1,T2,T3	VFD	480V	125	DG1-34140FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	150	DG1-34170FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	200	DG1-34205FN-C21C	6	CU	1/0 - 300 QTY 2	480	50 - 150 QTY 2	54.2	1/2 HEX	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	480V	250	DG1-34245FN-C21C	6	CU	1/0 - 300 QTY 2	480	50 - 150 QTY 2	54.2	1/2 HEX	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	0.75	DG1-353D3FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	1	DG1-353D3FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	1.5	DG1-353D3FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	2	DG1-353D3FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	3	DG1-353D3FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	5	DG1-354D5FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	7.5	DG1-357D5FB-C21C	1	CU	26 - 10 QTY 1	5.3	.2 - 6	0.6	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	10	DG1-35010FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	15	DG1-35013FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	20	DG1-35018FB-C21C	2	CU	20 - 6 QTY 1	15.6	.5 - 16	1.8	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	25	DG1-35022FB-C21C	3	CU	6 - 2 QTY 1	40	16 - 35	4.5	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	30	DG1-35027FB-C21C	3	CU	6 - 2 QTY 1	40	16 - 35	4.5	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	40	DG1-35034FB-C21C	3	CU	6 - 2 QTY 1	40	16 - 35	4.5	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	50	DG1-35041FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	60	DG1-35052FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	75	DG1-35062FN-C21C	4	CU	6 - 1/0 QTY 1	95	16 - 50	10.7	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	100	DG1-35080FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	125	DG1-35100FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	150	DG1-35125FN-C21C	5	CU	1/0 - 350 QTY 1	354	50 - 185	40	0	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	200	DG1-35144FN-C21C	6	CU	1/0 - 300 QTY 2	480	50 - 150 QTY 2	54.2	1/2 HEX	MN040002EN	MN040039EN
L1,L2,L3/T1,T2,T3	VFD	575V	250	DG1-35208FN-C21C	6	CU	1/0 - 300 QTY 2	480	50 - 150 QTY 2	54.2	1/2 HEX	MN040002EN	MN040039EN

Disconnect terminal data

Connection ID	Frame / ID	Terminal Catalog Number	Max Rated AMPS	Wire Type	AWG Wire Range	Torque IN-IB	Metric wire size mm^2	Torque NM	Screw/Head Type/Tool
DISC	R4H	Integral	30 - 60	CU	14 - 10 QTY 1		2 - 5.26 QTY 1		
DISC	R9C	Integral	30-60-100	CU Solid	12 - 10	35.4	10- 70	4	4MM HEX
DISC	R9C	Integral	30-60-100	CU	10 - 1	35.4	4- 50	4	4MM HEX
DISC	R9C	Integral	30-60-100	CU	1/0	39.8	54	4.5	4MM HEX
DISC	R9C	Integral	30-60-100	CU	2/0	44.3	67	5	4MM HEX
DISC	R9C	Integral	30-60-100	CU	2/0	48.7	67	5.5	4MM HEX
DISC	R9D	LK3R9DL	100-200	CU	6 - 300 QTY 1	200	13 - 152 QTY 1	22.5	
DISC	R9E	LK3R9EM	400	CU	4 - 600 QTY 1	310	21 - 304 QTY 1	35	
DISC	R9E	LK3R9EM	400	CU	1/0 - 250 QTY 2	310	54 - 127 QTY 2	35	
DISC	R9F	LK3R9FN	600	CU	2 - 600 QTY 2	500	34 - 304 QTY 2	56.5	
DISC	R9F	LK6R9G	800	CU	2 - 600 QTY 4	500	34 - 304 QTY 4	56.5	
DISC	R9I	Integral	30	CU	14 - 10 QTY 1		2 - 5.26 QTY 1		
DISC	R9J	Integral	30-60	CU Solid	14 - 10	31	2.5-6	3.5	Posidriv 2
DISC	R9J	Integral	30-60	CU	14 - 6	31	2.5-16	3.5	Posidriv 2
DISC	R9K	Integral	60-100	CU Solid	10	35.5	6	4	4MM HEX
DISC	R9K	Integral	60-100	CU	10 - 6	35.5	6 - 16	4	4MM HEX
DISC	R9K	Integral	60-100	CU	4 - 1	44.2	25 -	5	4MM HEX
DISC	R9L	LK3R9DL	200	CU	6 - 300 QTY 1	200	13 - 152 QTY 1	22.5	
DISC	R9M	LK3R9FN	400	CU	2 - 600 QTY 2	500	34 - 304 QTY 2	56.5	
DISC	R9N	LK3R9FN	600-800	CU	2 - 600 QTY 2	500	34 - 304 QTY 2	56.5	

Circuit breaker terminal data

Connection ID	Frame / ID	Series	Terminal Catalog Number	Terminal Material	Max Rated AMPS	Wire Type	AWG Wire Range	Torque IN-IB	Metric wire size mm^2	Torque NM	Screw/Head Type/Tool
CB	F	C	3TA50FB	Aluminum	50	CU	6 - 4 QTY1	45	16-25 QTY1	5.09	Slotted
CB	F	C	3T100FB	Steel	100	CU	14 - 10 QTY 1	35	2.5 - 6 QTY 1	3.96	Slotted
CB	F	C	3T100FB	Steel	100	CU	8 QTY 1	40	10 QTY 1	4.52	Slotted
CB	F	C	3T100FB	Steel	100	CU	6 - 4 QTY 1	45	16 - 25 QTY1	5.09	Slotted
CB	F	C	3T100FB	Steel	100	CU	3 - 1/0 QTY 1	50	27 - 53 QTY1	5.65	Slotted
CB	F	C	3TA100FD	Aluminum	100	CU	14 - 10 QTY1	35	2.5 - 6 QTY 1	3.96	Slotted
CB	F	C	3TA100FD	Aluminum	100	CU	8 QTY 1	40	10 QTY 1	4.52	Slotted
CB	F	C	3TA100FD	Aluminum	100	CU	6 - 4 QTY 1	45	16 - 25 QTY 1	5.09	Slotted
CB	F	C	3TA100FD	Aluminum	100	CU	3 - 1/0 QTY 1	50	27 - 53 QTY 1	5.65	Slotted
CB	F	C	3TA150F3K	Aluminum	150	CU	14 - 2 QTY1	70	2.5 - 25	7.9	5/32 HEX
CB	F	C	3TA150F6K	Aluminum	150	CU	14 - 6 QTY1	25	2.5 - 10	2.8	3/32 HEX
CB	F	C	3TA150FB	S Steel	150	CU	4 QTY 1	45	25 QTY 1	5.09	Slotted
CB	F	C	3TA150FB	S Steel	150	CU	3 - 4/0 QTY 1	50	35 - 95 QTY 1	5.65	Slotted
CB	F	C	3TA225FD	Aluminum	225	CU	4 - 4/0 QTY1	120	25 - 95	13.6	3/16 HEX
CB	F	C	3TA225FDK	Aluminum	225	CU	6 - 300 QTY1	275	16 - 150	31	5/16 HEX
CB	F	C	3TA225FDM	Aluminum	225	CU	4 - 4/0 QTY1	120	25 - 95	13.6	5MM HEX
CB	J	C	T250KB	S Steel	250	CU	4 - 350 QTY 1	275	25 - 185 QTY 1	31	5/16 HEX
CB	J	C	TA250KB	Aluminum	250	CU	4 - 350 QTY 1	275	25 - 185 QTY 1	31	5/16 HEX
CB	K	C	T300K	Copper	300	CU	3 - 350 QTY 1	275	35 - 185 QTY 1	31	
CB	K	C	TA300K	Aluminum	300	CU	3 - 350 QTY 1	275	35 - 185 QTY 1	31	
CB	K	C	T350K	Copper	350	CU	250 - 500 QTY 1	375	120 - 240 QTY 1	42	
CB	K	C	TA350K	Aluminum	350	CU	250 - 500 QTY 1	375	120 - 240 QTY 1	42	
CB	K	C	T400K	Copper	400	CU	3/0 - 250 QTY 2	275	95 - 120 QTY 2	31	
CB	K	C	TA400K	Aluminum	400	CU	3/0 - 250 QTY 2	275	95 - 120 QTY 2	31	
CB	K	C	TA401K	Aluminum	400	CU	250 QTY 2/500 QTY 1	275/375	120 QTY 2/240 QTY 1	31/42	
CB	K	C	TA402K	Aluminum	400	CU	500 - 750 QTY 1	550	240 - 300 QTY 1	62	
CB	N	C	TA700NB1	Aluminum	700	CU	1 - 500 QTY 1		50 - 240 QTY 1		
CB	N	C	TA1000NB1	Aluminum	1000	CU	3/0 - 400 QTY 3		95 - 185 QTY 3		
CB	N	C	TA1200NB1	Aluminum	1200	CU	4/0 - 500 QTY 4		120 - 240 QTY 4		
CB	N	C	TA1201NB1	Aluminum	1200	CU	500 - 750 QTY 3		300 - 400 QTY 3		
CB	R	C	T1600RD	Copper	1600	CU	1 - 600 QTY 4	375	50 - 300 QTY 4	42	
CB	R	C	TA1600RD	Aluminum	1600	CU	500- 1000 QTY 4	550	300 - 500 QTY 4	62	
CB	R	C	TA2000RD	Aluminum	1600	CU	2 - 600 QTY 6		35 - 300 QTY 6		

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