

PowerFlex 755 On-Machine Drive Specifications

Catalog Number 266



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Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes. Translated versions are not always available for each revision.

Topic	Page
Added factory installed battery information	6
Added WEEE label	30

Product Overview

The PowerFlex® 755 On-Machine™ Drive is designed for automotive, packaging, and any material handling customer applications for conveyance including transfer tables, vertical lifts, power roll beds, framers, and turntables for example. The IP66 enclosure rating allows the drive to be mounted on or near the machine and close to the motor to reduce the length of cables and installation costs. Customers can select from various options for Safe Torque Off, Network-Integrated Safety, input and control power, braking controls, and encoder types to meet their specific application needs. All connections to the drive are made using quick-connect receptacles that are mounted directly to the enclosure for quick installation.

Standard components that are installed in each package include:

- PowerFlex 755 AC Drive
- 400/480 V AC branch circuit breaker with through-door rotary disconnect
- Front-mounted human interface module (HIM) with enhanced LCD display and full numeric keypad
- Dual-port Ethernet
- Quick connect receptacles for all customer connections
- Brake contactor
- EMC filter
- Output common mode core provided on induction motor versions
- Multi-language product label support including English, Chinese, French, German, Portuguese, Romanian, and Spanish

User-selectable options include:

- AC induction motor or Allen-Bradley permanent magnet servo motor control
- Safety Option Module (S3) with Hardware or Network Safe Torque Off
- Networked Integrated Safety Function Module (S4)
- 380...480V source brake or 24V DC brake
- Encoder feedback options including Incremental HTL 12V DC, Dual Incremental 12V DC, SSI SC Rotary Absolute, SSI Linear Absolute, Hiperface SC, Hiperface SC + SSI Linear

Maximize your productivity by taking advantage of these key features:

- Safe Torque Off (S3) is ideal for safety-related applications that require the removal of rotational power to the motor without shutting down the drive.
- Network Integrated Safety Function (S4) combines Safe Torque Off capability and the safe speed control technology in one hardware option. With the integrated safety function option, you can safely monitor and control the speed of your application, which allows operators to perform processes or maintenance work without stopping the machine.
- Quick-connect cable receptacles reduce installation and commissioning time.
- Built-in dual-port for Ethernet/IP that supports Star, Linear, and DLR topologies to enhance efficiency and reduce installation cost.
- Local lockable motor disconnect provides motor isolation and can reduce system component cost.
- Embedded DeviceLogix™ provides fast local processing of I/O.
- Experience premier integration when configuring with Studio 5000 Logix Designer®.
- Full local and network diagnostics information provides secure integration with an enterprise network.

IMPORTANT This equipment is supplied as enclosed equipment. It should not require an additional system enclosure when used in locations consistent with the enclosure type ratings stated in the [Compliance Certifications](#) section of this publication. Subsequent sections of this publication may contain additional information regarding specific enclosure type ratings, beyond what this product provides, that are required to comply with certain product safety certifications.

See also the following: NEMA 250 and IEC 60529, as applicable, for explanations of the degrees of protection provided by enclosures.

IMPORTANT This equipment is intended for use in overvoltage Category III applications (as defined in IEC 60664-1), at altitudes up to 2000 m (6562 ft) at the default carrier frequency without derating. See [Derating Guidelines](#) for more information.

Catalog Number Explanation

1...3 4 5 6 7 8...10
 26G 1 1 F D 022
 a b c d e f
a

Drive	
Code	Type
26G	PowerFlex 755

Future Use	
Code	Description
1	Future Use

Input Type	
Code	Description
1	AC input with precharge, includes DC terminals

Enclosure Type	
Code	Type
F	UL Type 12 / IP66 (indoor use only)

Voltage Rating Class	
Code	Type
C	400V AC, 50 Hz
D	480V AC, 60 Hz

Normal Duty Drive Rating @ 400V AC, 50 Hz			
Code	Amps	kW	Frame
8P7	8.7	4	2
011	11.5	5.5	2
015	15.4	7.5	2
022	22.0	11	2

Normal Duty Drive Rating @ 480V AC, 60 Hz			
Code	Amps	Hp	Frame
8P0	8.0	5	2
011	11.0	7.5	2
014	14.0	10	2
022 ⁽¹⁾	22.0 / 14.0	15 / 10	2

(1) Option 022 for 22A, 15Hp, Normal Duty with induction motor or Allen-Bradley servo motor. Option 022 for 14A, 10Hp, Heavy Duty with Allen-Bradley servo motor only.

Filtering and Common Mode Cap Configuration		
Code	Filtering	Default Connection
J	Yes	Jumper installed

Dynamic Braking (internal to drive)		
Code	Resistor	Transistor
A	No	Yes

11 12 13 14 15 16 17 18
 J A 4 N N N N A
 g h i j k l m n
i

Cover-Mounted HIM	
Code	Type
4	UL Type 4X / IP66

Future Use	
Code	Description
N	Future Use

Safety Option Module - Slot 6	
Code	Type
A	Network-Integrated Safe Torque Off Module (STO) S3
B ⁽¹⁾⁽²⁾⁽³⁾	Network-Integrated Safety Function (SSM) S4
C ⁽¹⁾⁽²⁾⁽⁴⁾	Network-Integrated Safety Function with Brake Control (S4)
N	None

- Integrated Safety Function option module requires Studio 5000 V31.00 or higher firmware with Guard Logix 5580 or Compact GuardLogix 5380 controllers for drive safety functions.
- Options B and C require, at a minimum, selection of one of the following options: E42, E43, E44, E51, E52, E53, E55, E56.
- Option B provides two customer safety inputs, S0 and S1.
- Option C uses the safety output S0 to provide control power to the brake circuit and provides one customer input S1. The S0 input is used internally to monitor the status of the brake contactor.

Motor Type	
Code	Motor
M1	Induction motor
M2 ⁽¹⁾⁽²⁾	Allen-Bradley [®] MPL, MPM servo motor, for use with 14 AWG or 16 AWG motor cable
M3 ⁽²⁾⁽³⁾	Allen-Bradley MPL, MPM servo motor, for use with 10 AWG motor cable

- Option M2 selected with Drive Rating 022 configures the drive for Heavy Duty (HD) rating.
- M2 and M3 are only available in 480V AC / 60 Hz.
- Option M3 for use with Drive Rating 022 only.

Connector - AC Input Power and Control		
Code	Input Size / Type	Control Size / Type
IN1	M35 Allen-Bradley, 4-pin male	Mini, 4-pin, male
IN2	Future use	Mini, 4-pin, male

19 20 21 22 23
 -M1 -IN1 -SB -E41 -E51
 o p q r s
q

Brake Control Options	
Code	Brake Control ⁽¹⁾
SB	400/480V AC source brake, M24 output receptacle, 3-pin female. No additional connector for brake
B2	24V DC brake, M24 output receptacle, 3-pin female with 24V DC auxiliary power input, mini 4-pin, male
B3	24V DC brake + servo motor output, M40 or M23 output receptacle, 6-pin, female with 24V DC auxiliary power input, mini 4-pin male

- (1) Options SB and B2 are for use with AC induction motors. Option B3 is for use with Allen-Bradley MPM and MPL servo motors.

Encoder Type - Slot 4		
Code	Type ⁽¹⁾	Receptacle
E41	Incremental HTL, 12V DC	M23, Female, 12-Pin, 20° Coded
E42	Hiperface SC	M23, Female, 12-pin, 20° Coded
E43	SSI SC Rotary	M23, Female, 12-pin, 20° Coded
E44 ⁽²⁾	Dual Incremental HTL, 12V DC	M23 (qty. 2), Female, 12-pin, 20° Coded
N	None (Future Use)	None (Future Use)

- (1) Option E41 is for use with the AC induction motors only. Option E42, E43, and E44 are for use with the AC induction and Allen-Bradley servo-motors.
 (2) Option E44 on-board P3 jumper is set to provide feedback to an SSM Safety Option Module.

Encoder Type - Slot 5		
Code	Type ⁽¹⁾	Receptacle
E51	Hiperface SC	M23, Female, 12-pin, 20° Coded
E52	Hiperface SC	AB servo motor bulk head
E53	Hiperface SC + SSI Linear	M23 (qty. 2), Female, 12-pin, 20° Coded
E54	SSI Linear	M23, Female, 12-pin, 20° Coded
E55	Hiperface SC + SSI Linear	AB servo motor bulk head + M23, Female, 12-pin, 20° Coded
E56	SSI SC Rotary	M23, Female, 12-pin, 20° Coded
N	None	None

- (1) Option E51, E53, E54, and E56 are for use with AC induction motors. Option E52 and E55 are for use with Allen-Bradley servo motors.

Compliance Certifications

This section provides information for certifications and specifications.

Certification	Description
c-UL-us	Listed to UL508A and CSA22.2 No. 14
CE	In conformity with these European Directives EMC Directive EN 61800-3 (EMC Directive 2014/30/EU) Low Voltage Directive EN 61800-5-1 (LVD Directive 2014/35/EU) RoHS Directive EN 50581: 2012 (RoHS Directive 2011/65/EU)
RCM	EN 61800-3
Functional safety	TÜV Rheinland – Certification applies to 20-750-S3 and 20-750-S4 Safety Options when installed in drive. Standards applied EN 61800-3, EN 61508 PARTS 1...7 EN 61800-5-1, EN 62061 EN 61800-5-2, EN 60204-1 EN ISO 13849-1
KCC	R-R-RAA Drive

- IMPORTANT** To comply with the CE Low Voltage Directive (LVD), all connections to this equipment must be powered from a source compliant with the following:
- Safety extra low voltage (SELV) Supply
 - Protected extra low voltage (PELV) Supply
- To comply with UL/C-UL requirements, this equipment must be powered from a source compliant with the following:
- IEC 60950-1 Ed. 2.1, Clause 2.2 - SELV Circuits

Environmental Specifications

Category	Specification									
Maximum surrounding air temperature										
IP66 / NEMA / UL Type 12	0...40 °C (32...104 °F)									
Storage temperature (all constructions)	-20...+70 °C (-4...+158 °F)									
Atmosphere	IMPORTANT: Do not install the drive in an area where the ambient atmosphere contains volatile or corrosive gas, vapors, or dust. If the drive is not going to be installed right away, store the drive in an area where it is not exposed to a corrosive atmosphere.									
Altitude	Based on load. See derating guidelines on page 12 . Based on voltage. See this table and the footnotes that are based on EN61800-5-1 (Electro-thermal Safety Standard for drives). <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th>System and Ground Configuration⁽¹⁾</th> <th>Oversvoltage Category⁽²⁾</th> <th>Altitude Limit Above Sea Level, m (ft)⁽³⁾</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>400/480V AC</td> </tr> <tr> <td>With solid ground</td> <td>III (3)</td> <td>4800 (15,748.0)</td> </tr> </tbody> </table> <p>(1) Incoming power requirements must be a delta-Wye solid ground neutral to maintain the CE/UL certification. If the user supplied input power distribution exceeds 20 times the drive rating kVa, additional impedance must be supplied in the form of an input line reactor or isolation transformer. (2) Category III (most common) Distribution Level Inside a Building - Typically one level of isolation or protection from outdoor power lines. (3) Excluding failure from cosmic radiation. Cosmic radiation increases rate of IGBT malfunction at altitudes greater than 3000 m (9842.6) above sea level. Concrete walls and ceilings or concrete walls and large bottles of water overhead are examples of ways to shield against cosmic radiation.</p>	System and Ground Configuration ⁽¹⁾	Oversvoltage Category ⁽²⁾	Altitude Limit Above Sea Level, m (ft) ⁽³⁾			400/480V AC	With solid ground	III (3)	4800 (15,748.0)
System and Ground Configuration ⁽¹⁾	Oversvoltage Category ⁽²⁾	Altitude Limit Above Sea Level, m (ft) ⁽³⁾								
		400/480V AC								
With solid ground	III (3)	4800 (15,748.0)								
Shock - operating	15 g peak for 11 ms duration (±1.0 ms)									
Vibration - operating	1.000 mm (0.040 in.) displacement, 2 g peak									
Shock - packaged for shipment	<ul style="list-style-type: none"> • Per ASTM D880 Test Method for Impact Testing of Shipping Containers and Systems; Procedure B, Assurance Level II • Per ASTM 6179 Test Methods for Rough Handling of Unitized Loads and Large Shipping Cases and Crates; Methods A,B,C & F; Assurance Level II 									
Vibration - packaged for shipment	Per ASTM D999 Test Methods for Vibration Testing of Shipping Containers - Method A1 or A2, 1 g input									
UV radiation	Not UV rated.									

Environmental Specifications (continued)

Category	Specification
Relative humidity	5...95% noncondensing
Required airflow	Total fan airflow 84.95 m ³ /h (50 CFM)
Sound	Mean sound pressure level 63 dB

Technical Specifications

Category	Specification																														
Protection	<table border="1"> <thead> <tr> <th colspan="2">Motor Voltage</th> </tr> <tr> <th>380/400V</th> <th>480V</th> </tr> </thead> <tbody> <tr> <td>AC input overvoltage trip</td> <td>576V AC</td> </tr> <tr> <td>AC input undervoltage trip</td> <td>250V AC</td> </tr> <tr> <td>Bus overvoltage trip</td> <td>815V DC</td> </tr> <tr> <td>Bus undervoltage shutoff Frame 2</td> <td>200V DC</td> </tr> <tr> <td>Nominal bus voltage (full load)</td> <td>540V DC</td> </tr> <tr> <td>Drive overcurrent trip</td> <td>200% of drive rated</td> </tr> <tr> <td> Software overcurrent trip</td> <td>100% of 3 s rating (158...210%)</td> </tr> <tr> <td> Instantaneous current limit</td> <td>143% of 3 s rating (215...287%)</td> </tr> <tr> <td> Hardware overcurrent trip</td> <td></td> </tr> <tr> <td>Line transients</td> <td>Up to 6000V peak per IEEE C62.41-1991</td> </tr> <tr> <td>Control logic noise immunity</td> <td>Showering arc transients up to 1500V peak</td> </tr> <tr> <td>Power ride-through</td> <td>15 ms at full load</td> </tr> <tr> <td>Logic control ride-through</td> <td>0.5 s min, 2 s typical</td> </tr> </tbody> </table>	Motor Voltage		380/400V	480V	AC input overvoltage trip	576V AC	AC input undervoltage trip	250V AC	Bus overvoltage trip	815V DC	Bus undervoltage shutoff Frame 2	200V DC	Nominal bus voltage (full load)	540V DC	Drive overcurrent trip	200% of drive rated	Software overcurrent trip	100% of 3 s rating (158...210%)	Instantaneous current limit	143% of 3 s rating (215...287%)	Hardware overcurrent trip		Line transients	Up to 6000V peak per IEEE C62.41-1991	Control logic noise immunity	Showering arc transients up to 1500V peak	Power ride-through	15 ms at full load	Logic control ride-through	0.5 s min, 2 s typical
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Electrical	Ground fault trip	Phase-to-ground on drive output																													
	Short-circuit current	Phase-to-phase on drive output																													
	AC input voltage tolerance	See Input Voltage Tolerance on page 15 for full power and operating range.																													
	Frequency tolerance	47...63 Hz																													
	Input phases	Three-phase input provides full rating for all drives. Maximum operating current for On-Machine is 22 A at 40 °C (104 °F) ambient temperature.																													
	Displacement power factor	0.98 across entire speed range																													
	DC link impedance	≤ 4%																													
	Short circuit rating	65,000 A RMS symmetrical																													
	Drive to motor power ratio																														
	Min	Recommended not less than 1:2 ratio																													
	Max	Recommended not greater than 2:1 ratio																													
	Brake IGBT rating	100% of motor-rated torque																													
	Digital Inputs																														
	Nominal	24V DC																													
	Maximum	30V DC																													
High State	20...24V DC																														
Low State	0...5V DC																														
Incoming Power, Power Ratings, and Voltages ⁽¹⁾	400V AC, 3 PH, 50 Hz ratings: <ul style="list-style-type: none"> • 8.7 A, 4 kW, Normal Duty • 11.5 A, 5.5 kW, Normal Duty • 15.4 A, 7.5 kW, Normal Duty • 22 A, 11 kW, Normal Duty 480V AC, 3 PH, 60 Hz, ratings: <ul style="list-style-type: none"> • 8 A, 5 Hp, Normal Duty • 11 A, 7.5 Hp, Normal Duty • 14 A, 10 Hp, Normal Duty • 22 A, 15 Hp, Normal Duty • 14 A, 10 Hp, Heavy Duty (only when Motor Type = M2) 																														
Battery	Factory-installed CR1220 lithium coin cell battery provides power to the real-time clock (supplied). Preserves the clock setting in the event power to the drive is lost or cycled. Approximate life is 4.5 years with drive unpowered, or lifetime if drive is powered.																														

Technical Specifications (continued)

Category	Specification		
Control	Method	Sine coded PWM with programmable carrier frequency.	
	Carrier frequency	Default settings Frame 2 4 kHz Settings Frame 2 2, 4, 8, 12 kHz	
	Output voltage range	0 to rated motor voltage	
	Output frequency range	0...325 Hz at 2 kHz carrier 0...590 Hz at 4 kHz carrier	
	Frequency accuracy Digital input	Within $\pm 0.01\%$ of set output frequency	
	Digital input	Six digital inputs (2 assigned / 4 available): Input 0 is the brake contactor status Input 1 is the circuit breaker status P0 - input 2 and 3 (customer use) P1 - input 4 and 5 (customer use)	
	Frequency control	Speed regulation - with slip compensation (VHz and Sensorless Vector modes) 0.5% of base speed across 40:1 speed range, 40:1 operating range	
	Speed control	Without feedback (Flux Vector mode), 0.1% of base speed across 100:1 speed range, 120:1 operating range, 50 rad/s bandwidth	
		With feedback (Flux Vector mode), 0.001% of base speed across 100:1 speed range, 1000:1 operating range, 190 rad/s bandwidth	
	Torque regulation	Without feedback (Flux Vector mode), $\pm 5\%$, 600 rad/s bandwidth	
		With feedback (Flux Vector mode), $\pm 2\%$, 2500 rad/s bandwidth	
	Selectable motor control	<ul style="list-style-type: none"> • Induction SV - Induction motor, sensorless vector control mode. • Induct Econ - Induction motor, economize control mode. • Induction FV - Induction motor, flux vector control mode. • PM VHz - Permanent magnet motor, volts per Hertz control mode. • PM SV - Permanent magnet motor, sensorless vector control mode. • PM FV - Permanent magnet motor, flux vector control mode. • SyncRel VHz - Synchronous Reluctance motor, volts per Hertz control mode. • SyncRel SV - Synchronous Reluctance motor, sensorless vector control mode. • Adj VltgMode - Adjustable voltage control mode. • IPM FV - Interior permanent magnet motor, flux vector control mode. 	
	Stop modes	Multiple programmable stop modes including - Ramp, Coast, DC-Brake, Ramp to Hold, Fast Braking, and Current Limit Stop.	
	Accel/Decel	Two independently programmable accel and decel times. Each time can be programmed from 0...3600 seconds in 0.1 second increments (0 to motor nameplate speed).	
	S-curve time	Adjustable from 0...100% of ramp time (normal duty rating)	
	Intermittent overload	Normal duty	110% overload capability for up to 1 min out of 10 min 150% overload capability for up to 3 s out of 60 s
		Heavy duty ⁽²⁾ ⁽³⁾	150% overload capability for up to 1 min out of 10 min 180% overload capability for up to 3 s out of 60 s
Current limit capability	Proactive current limit programmable from 20...160% of rated output current. Independently programmable proportional and integral gain.		
Electronic motor overload protection	Class 10 motor overload protection according to NEC article 430 and motor over-temperature protection according to NEC article 430.126 (A)(2). UL 508A File 113759.		

(1) All ratings to support continuous duty. There is no derate for duty cycle variations. All ratings are for normal duty except for the variation that has 14 A Heavy-Duty rating.

(2) Selecting Option M2 with Drive Rating 022 will set up the drive for Heavy Duty (HD) rating.

(3) M2 and M3 are only available in 480V, 60Hz.

Drive Enclosure Ratings

Pollution Degree Ratings According to EN 61800-5-1

Pollution Degree	Description
1	No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.
2	Normally, only non-conductive pollution occurs. Occasionally, a temporary conductivity that is caused by condensation is to be expected, when the drive is out of operation.
3	Conductive pollution or dry non-conductive pollution occurs, which becomes conductive due to condensation, which is to be expected.
4	The pollution generates persistent conductivity that is caused, for example, by conductive dust or rain or snow.

Frame	Enclosure Type (Cat. No. Position 6)	Enclosure Type	Pollution Degree
2	F	IP66 / UL Type 12	1, 2, 3, 4

Condition	Requirement
Ambient Operating Temperature	0...40 °C (32...104 °F)
Storage Temperature	-20...+70 °C (-4...+158 °F)
Relative Humidity	5...95% (noncondensing)
Cabinet Rating ⁽¹⁾	UL Type 12 / IP66 (indoor use only)

(1) Enclosure provides protection from: dust, falling debris, and hose-directed water.

Logix, Firmware, and AOP Compatibility

There are separate Add-on Profiles (AOP) for the Logix Designer application for each of these Modes of control, along with the safety option module used in the On-Machine drive. See the On-Machine drive [Catalog Number Explanation](#) to determine which safety option module should be installed in your drive.

Each option has different minimum system requirements depending on the safety controller series that is used, Logix controller firmware, and the drive firmware level.

Safety and Logix Compatibility Table

Safety Option Module - Slot 6		20-750-S3 Integrated Safe Torque Off Module (option A)		20-750-S4 Integrated Safety Functions Module (option B or C)	
Mode of Operation		I/O mode	Integrated Motion mode	I/O mode	Integrated Motion mode
Minimum Drive Firmware Required		Version 13	Version 14	Version 14	Version 14
Minimum Controller Firmware Required	GuardLogix® 5570, Compact GuardLogix 5370, Armor™ GuardLogix® 5570 Controllers	Version 30	Version 31	Version 31	Not supported
	GuardLogix 5580, Compact GuardLogix 5380 Controllers	Version 31		Version 31	

For PowerFlex 755 Embedded EtherNet/IP detailed information, see the PowerFlex 755 Drive Embedded EtherNet/IP Adapter User Manual, publication [750COM-UM001](#). For additional reference materials, see the [Additional Resources](#) table.

Network	Software	Version
EtherNet/IP	RSLinx® Classic	2.50 or later
	RSLogix 5000®	20.00 or previous
	Studio 5000 Logix Designer ⁽¹⁾	21.00...29.00 for hardware-based Safe Torque Off (20-750-S3) 30.00 or later for network-based Safe Torque Off (20-750-S3) 31.00 or later for Integrated Motion on EtherNet/IP networks 31.00 or later for Advanced Integrated Safety Functions Option Module (20-750-S4)
	Add-on Profile	Download the most current version from https://compatibility.rockwellautomation.com/Pages/home.aspx
	PowerFlex 755 Firmware	13.00 or later when Safe Torque Off (20-750-S3) is used, 14.00 or later when Integrated Safety Functions Option Module (20-750-S4) or Integrated motion is used.

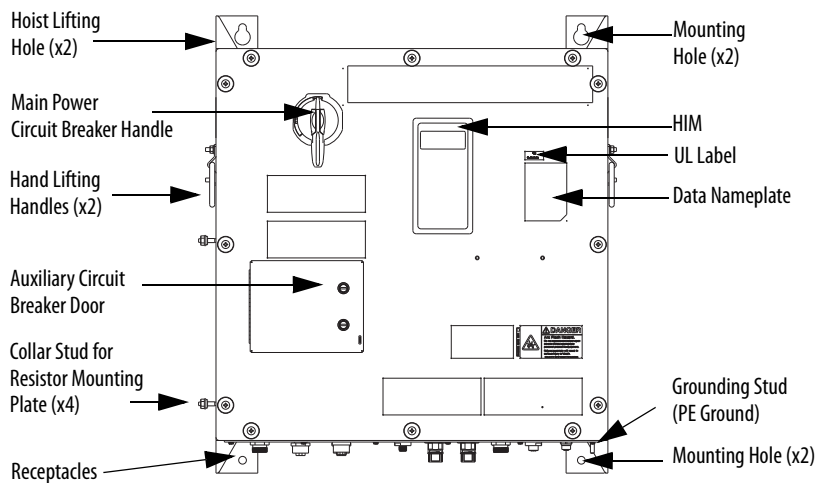
(1) Refer to [Safety and Logix Compatibility Table](#).

Tool	Reference
PowerFlex 20-HIM-C6S HIM	20HIM-UM001
Connected Components Workbench™ software, version 1.02 or later	http://compatibility.rockwellautomation.com/Pages/home.aspx , or online help (installed with the software)
DriveExplorer™ software, version 6.01 or later	http://compatibility.rockwellautomation.com/Pages/home.aspx , or online help (installed with the software)
DriveExecutive™ software, version 5.06 or later	http://compatibility.rockwellautomation.com/Pages/home.aspx , or online help (installed with the software)

Design Considerations - Mechanical

See the figure for the location of the PE Ground Stud and key features.

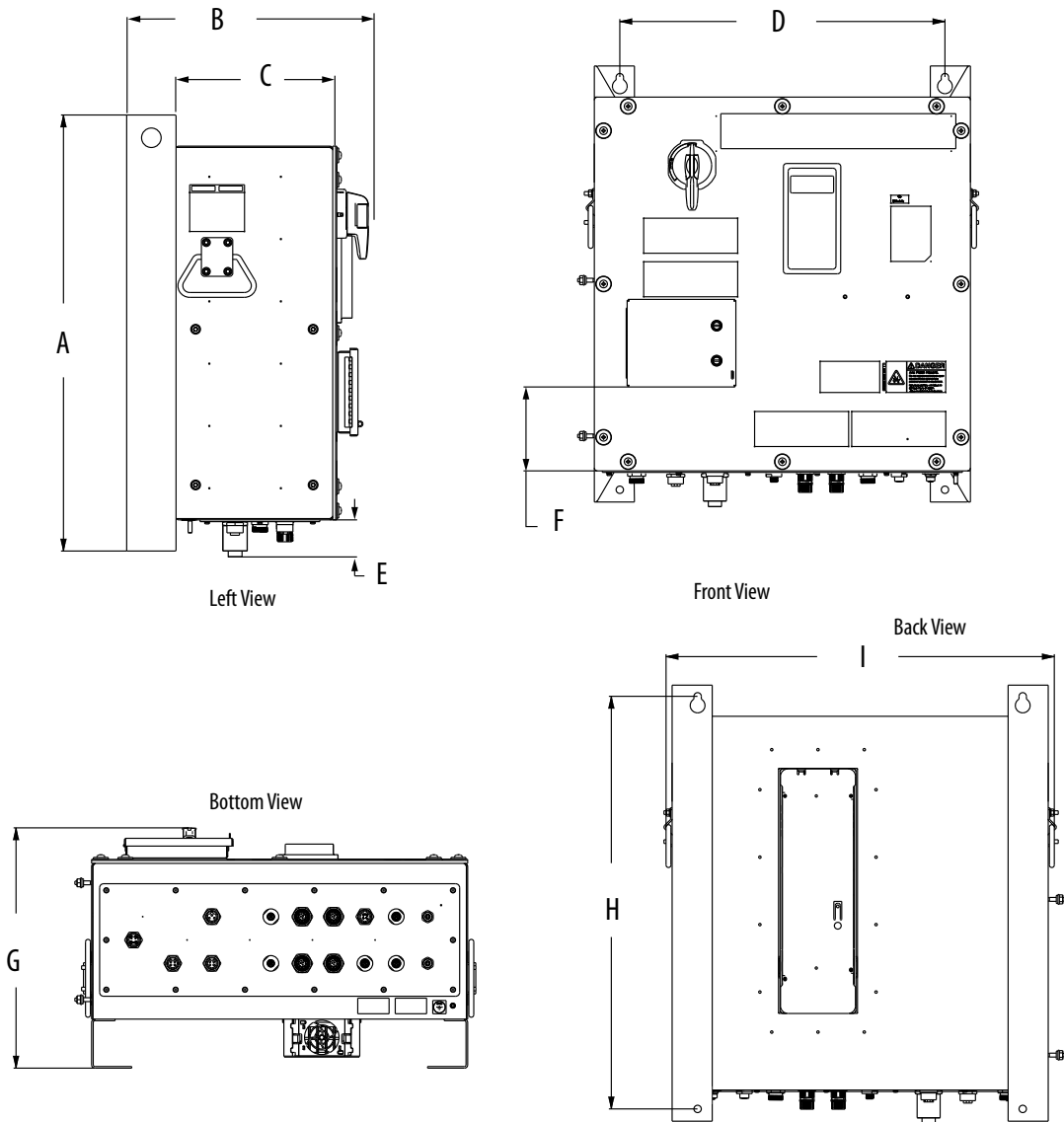
Dimensions and Weights



On-Machine Drive Dimensions and Weights

Condition	Description
Enclosure dimensions (H x W x D)	609.6 mm x 609.6 mm x 274.4 mm (24 in. x 24 in. x 11 in.)
Product dimensions (H x W x D)	711.2 mm x 649.8 mm x 391.9 mm (28 in. x 25.58 in. x 15.43 in.)
Packaging dimensions (H X W x D) with product inside	475 mm x 800 mm x 800 mm (18.69 in. x 31.5 in. x 31.5 in.)
Weight	47.62 kg (approx. 105 lb)
Weight with packaging	63.95 kg (approx. 141 lb)

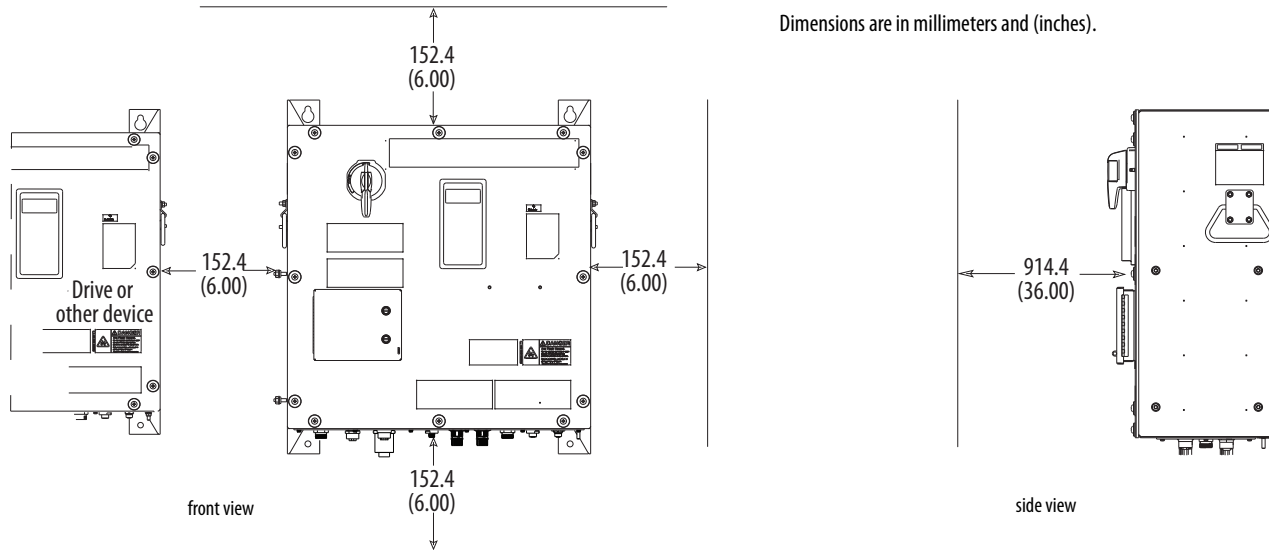
The approximate dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes. All dimensions are subject to change.



On-Machine Drive Dimensions	A	B	C	D	E	F	G	H	I
Millimeters	711.2	391.9	260.5	527.0	33.5	136.9	391.9	673.0	649.8
Inches	28.0	15.3	10.26	20.75	1.32	5.39	15.43	26.5	25.58

Minimum Mounting Clearances

Specified vertical clearance requirements are intended to be from the drive to the closest object that can restrict airflow through the drive heatsink and chassis. The drive must be mounted in a vertical orientation as shown and must make full contact with the mounting surface. Do not use standoffs or spacers. In addition, inlet air temperature must not exceed the product specification.



Approximate Watts Loss

The following table lists watts loss data for PowerFlex 750-Series drives running at full load, full speed, and default carrier frequency. Total watts are the watts that dissipate from the enclosure and the externally installed the heatsink.

Watts Loss for 400/480V Drives

Drive Cat. No. ⁽¹⁾	Normal Duty		Total Watt Loss	Drive Cat. No. ⁽¹⁾	Normal Duty		Total Watt Loss
	kW	Continuous Output Amps			Hp	Continuous Output Amps	
400 Volts				480 Volts			
26G...C8P7	4.0	8.7	163	26G...D8P0	5.0	8	163
26G...C011	5.5	11.5	202	26G...D011	7.5	11	206
26G...C015	7.5	15.4	265	26G...D014	10	14	254
26G...C022	11	22	335	26G...D022	15	22 (14 A HD)	271

(1) Select the watts loss based on the catalog number.

Derating Guidelines

Ambient Temperature/Load and Altitude/Load - 400V AC (Frame 2)

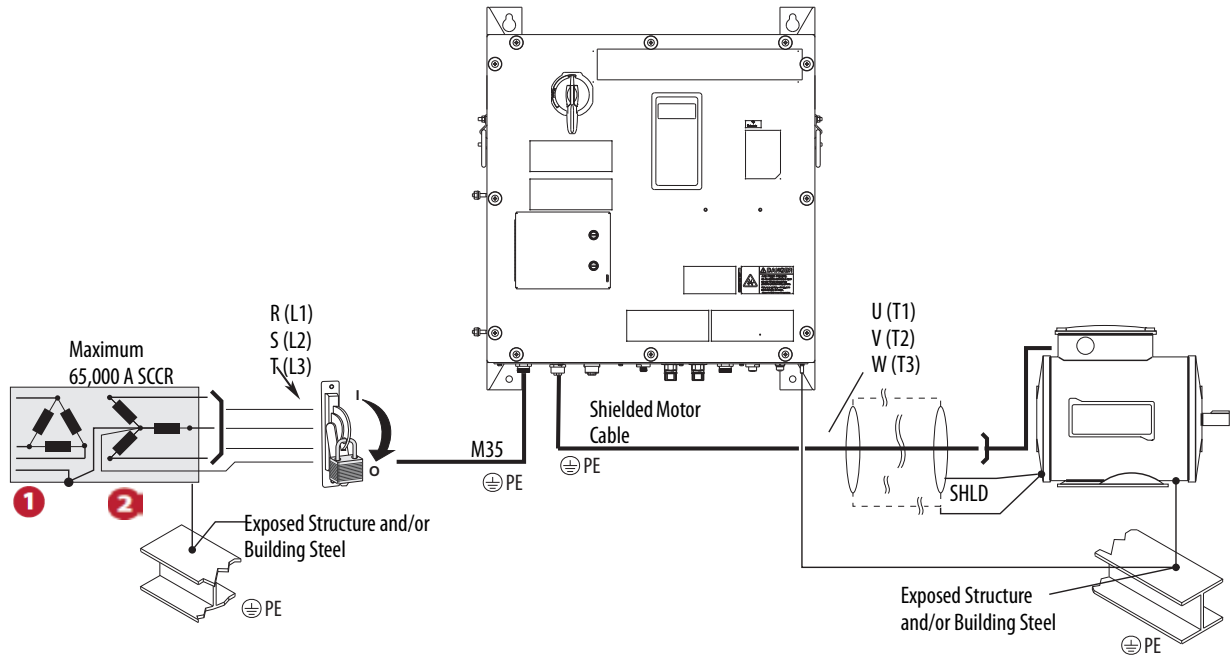
Cat. No.	400V AC Power Rating				Derating for IP66 NEMA/UL Type 12	
	Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
	kW	Cont. Amps	kW	Cont. Amps		
26G...C8P7	4.0	8.7	-	-		
26G...C011	5.5	11.5	-	-		
26G...C015	7.5	15.4	-	-		
26G...C022	11	22	-	-		

Ambient Temperature/Load and Altitude/Load - 480V AC (Frame 2)

Cat. No.	480V AC Power Rating				Derating for IP66 NEMA/UL Type 12	
	Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
	Hp	Cont. Amps	Hp	Cont. Amps		
26G...D8P0	5.0	8.0	-	-		
26G...D011	7.5	11	-	-		
26G...D014	10	14	-	-		
26G...D022	15	22	10	14		

Design Considerations - Electrical

This shows an example of the configuration with a grounding application.



1. From user-supplied 400/480V AC, 3-phase, 50/60-Hz delta-Wye connected power distribution with solidly grounded neutral.
2. If the user-supplied input power distribution exceeds 20 times drive rating kVA, additional impedance must be supplied in the form of an input line reactor or isolation transformer.

IMPORTANT Grounding and power jumper configuration must be appropriate for EMC applications. See Drive Power Jumper Configuration in the PowerFlex 750-Series AC Drives Installation Instructions, publication [750-IN001](#) for details. The On-Machine drive is configured for EMC applications.

IMPORTANT The On-Machine drive has multiple grounding locations. See the electrical schematics for specific information about the grounding for your specific configuration. See the [Catalog Number Explanation](#) for more information about configuration type.

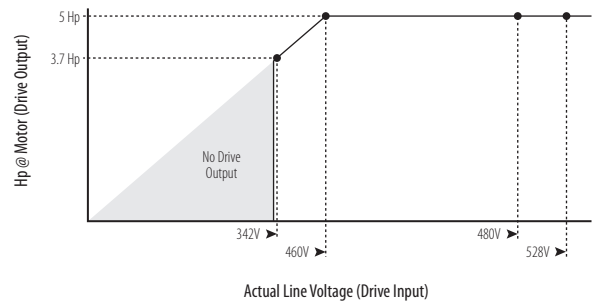
Input Voltage Tolerance

Drive Rating	Nominal Line Voltage	Nominal Motor Voltage	Drive Full Power Range	Drive Operating Range	
380...480	380 400 480	380 400 460	380...528 400...528 460...528	342...528	
Drive full power range =	Nominal motor voltage to drive-rated voltage + 10%. Rated current is available across the entire drive full-power range.				
Drive operating range =	Lowest nominal motor voltage - 10% to drive-rated voltage + 10%. Drive output is linearly derated when actual line voltage is less than the nominal motor voltage				

EXAMPLE Calculate the maximum power of a 5.0 Hp, 460V motor connected to a 480V-rated drive supplied with 342V actual line voltage input.

- Actual line voltage/nominal motor voltage = 74.3%
- 74.3% x 5.0 Hp = 3.7 Hp
- 74.3% x 60 Hz = 44.6 Hz

At 342V actual line voltage, the maximum power the 5.0 Hp, 460V motor can produce is 3.7 Hp at 44.6 Hz.



IMPORTANT For maximum protection of the drive and its internal components, we recommend the use of semiconductor fuses to other methods of circuit protection. Semiconductor fuses reduce the risk of drive damage from power quality events and improve machine and process utilization.

Circuit Protection

Branch circuit protection for the On-Machine drive is provided by the internal circuit breaker. The feeder available fault current must not exceed 65,000 A RMS symmetrical at 480V AC. Input feeder power fuse and/or circuit breaker protection is required for the M35 input connector and the customer must provide it based on NEC guidelines and specific local codes.

Short-circuit current rating (SCCR)

The short circuit rating for the On-Machine drive is 65,000A RMS at 480V AC. The suitable circuit breaker for this circuit must be capable of delivering not more than 65,000 RMS symmetrical amperes at 480V AC, 100 A maximum, when protected by a Bulletin 140G-H frame circuit breaker. Also, the suitable fuses for this circuit must be capable of delivering not more than 65,000 RMS symmetrical amperes at 480V AC maximum when protected by CC, J, and T classes.

Branch Circuit Protection

IMPORTANT The motor branch circuit protection is provided by the main circuit breaker, which complies with UL508 and CSA guidelines.

Ground the On-Machine Drive



ATTENTION: A hazard of personal injury and equipment damage exists. A minimum of 10 AWG should be used for the solid earth-grounding-system.

To properly ground the package drive, connect the Safety Ground-PE terminal to the power-distribution earth-grounding-system through a ground or low impedance connections. The ground connection must have sufficient current-carrying capacity to help prevent the build-up of voltages that can result in a hazard to the connected equipment or a person (as defined by the US National Electric Code NFPA70, Article 100B). Grounding is done for two basic reasons: safety (defined above) and noise containment or reduction. While the safety ground scheme and the noise current return circuit can sometimes share a path and components, they must be considered different circuits with different requirements.

The On-Machine drive has an internal ground bus to connect all incoming and outgoing connector grounds. The On-Machine drive also has an external ground stud on bottom-right corner of enclosure to connect the PE ground stud with the earth-grounding-system.

Grounding Safety Grounds

The object of a safety ground is to verify that all metal work is at the same power-distribution earth-grounding-system potential, at power frequencies. Impedance between the drive and the building scheme ground must conform to the requirements of national and local industrial safety regulations or electrical codes. These requirements vary based on country, type of distribution system, and other factors. Periodically check the integrity of all ground connections.

General safety dictates that all metal parts are connected to the power-distribution earth-grounding-system with separate copper wire or wires of the appropriate gauge. Most equipment has specific provisions to connect a safety ground or PE (protective earth) directly to it.

IMPORTANT The safety ground (PE), must be connected to the power-distribution earth-grounding-system. Some codes may require redundant ground paths and periodic examination of connection integrity.

Grounding PE or Ground

The safety ground or PE, must be connected to the power-distribution earth-grounding-system. This ground point must be connected to adjacent building steel (girder, joist), a floor ground rod, busbar, or building ground grid. Grounding points must comply with national and local industrial safety regulations or electrical codes. Some codes can require redundant ground paths and periodic examination of connection integrity.

IMPORTANT To avoid electrolytic corrosion on the external earth terminal, avoid spraying moisture directly on the terminal. When used in wash-down environments apply a sealant or other corrosion inhibitor on the external ground terminal to minimize any negative effects of galvanic or electro-chemical corrosion. Ground connections must be inspected regularly.

Package Ratings

400 Volt AC Ratings

Applied Rating	Frame	Cont. Output Amps	Drive Sized For Normal Duty			Input Rating	
			Cat. No.	Output Overload Amps		Continuous AC Input	
				1 Min	3 s	kVA	Amps
4.0 kW	2	8.7	26G...C8P7	13.0	15.6	5.4	7.8
5.5 kW	2	11.5	26G...C011	17.2	20.7	7.4	10.7
7.5 kW	2	15.4	26G...C015	16.9	23.1	10.1	14.6
11 kW	2	22	26G...C022	24.2	33.0	14.6	21.1

480 Volt AC Ratings

Applied Rating	Frame	Cont. Output Amps	Drive Sized For Normal Duty			Drive Sized For Heavy Duty			Input Rating	
			Cat. No.	Output Overload Amps		Cat. No.	Output Overload Amps		Continuous AC Input	
				1 Min	3 s		1 Min	3 s	kVA	Amps
480 Volt AC Input										
5.0 Hp	2	8	26G...D8P0	12.0	14.4	—	—	—	5.7	6.9
7.5 Hp	2	11	26G...D011	16.5	19.8	—	—	—	7.9	9.5
10 Hp ⁽¹⁾	2	14	26G...D014	15.4	21.0	26G...D022	21.0	33.0	10.4	12.5
15 Hp	2	22	26G...D022	24.2	33.0	—	—	—	16.6	19.9

(1) Selecting option M2 with Drive Rating 022 will set up the drive for Heavy Duty (HD) rating. M2 and M3 are only available in 480V, 60 Hz. All ratings are for Normal duty except for the variation that has 14 A (10 HP) Heavy-Duty rating.

Minimum Dynamic Brake Resistance Ratings

A dynamic brake resistor that rated is below the minimum recommended value will damage the IGBT because of excessive current. The table shows the minimum ohms allowed and the resulting maximum current.

Brake Resistance for 400/480V Drives

Frame	400V				480V			
	ND kW	Catalog Code	Min Resistance	Max Db Current	ND Hp	Catalog Code	Min Resistance	Max Db Current
2	4	C8P7	31.6	25	5.0	D8P0	31.6	25
	5.5	C011	31.6	25	7.5	D011	31.6	25
	7.5	C015	31.6	25	10	D014	31.6	25
	11	C022	22.6	34.9	15	D022	22.6	34.9

Circuit Breakers

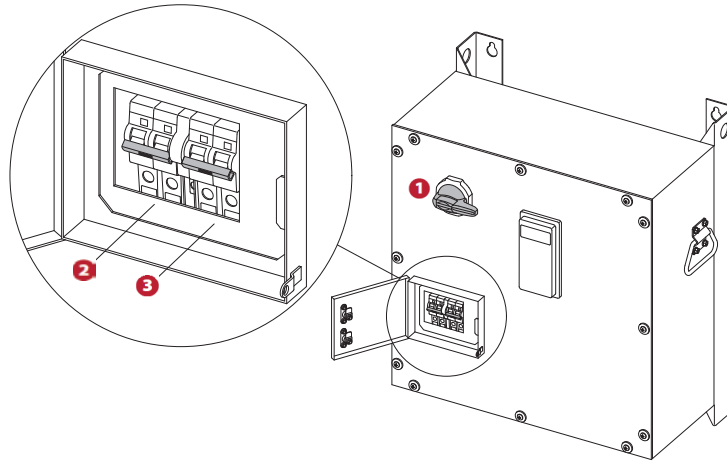
The circuit breakers for the On-Machine drive are pre-selected and minimally configurable, see [Catalog Number Explanation](#). The circuit breakers that have been chosen meet both IEC and UL requirements.

- IEC - 140G self-protected combination motor controllers are acceptable for IEC installations.
- UL - 140G self-protected combination motor controllers are acceptable for UL installations.

The On-Machine drive has three circuit breakers that are accessible on the front cover. All three circuit breakers must be ON for the drive to operate and control the motor and brake properly. The 400/480V AC main input rotary circuit breaker provides power through the M35 power receptacle (L123). See [Design Considerations - Electrical](#) for more information.

The mechanical brake circuit breaker and the control power circuit breaker are located under the auxiliary circuit breaker door, and are provided power by Receptacles CP (24V DC auxiliary power), CPBR (24V DC brake option B2 and B3), and L123 (source brake option SB). The brake circuit breaker will vary in design and operation based on it being a 24V DC mechanical brake or 480V source mechanical brake.

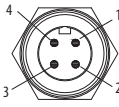
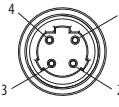
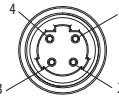
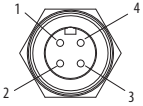
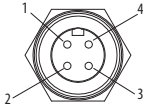
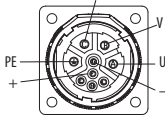
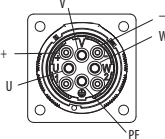

A visual inspection can verify that the breakers are individually opened or closed. For information on how to open the auxiliary circuit breaker door and more details about the circuit breaker reset procedures, see PowerFlex 755 On-Machine Drive User Manual, publication [750-UM006](#).

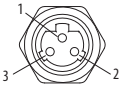
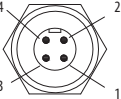
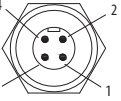
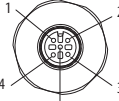
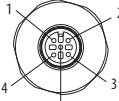
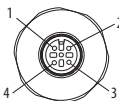


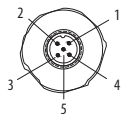
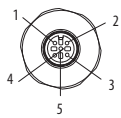
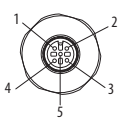
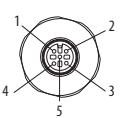
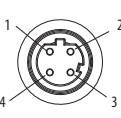
1. 400/480V AC rotary power disconnect
2. 24V DC mechanical brake circuit breaker (shown) or 480V AC source mechanical brake circuit breaker
3. 24V DC control power circuit breaker.

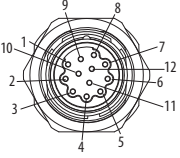
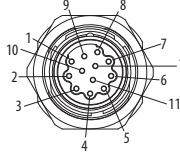
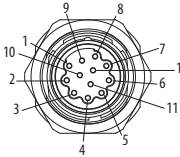
Cable Considerations

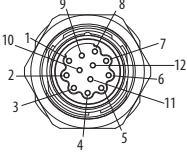
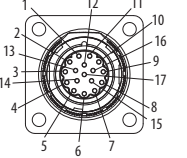
This section provides information for cable types and routing.

Cable Type	Name	Abbreviation	Pin layout	Wire No.	Wire Size	Wire Color	From	To/Label Marking
Power	Input Power	L123		1	#10 AWG	BLACK	PIN 1	1CB030-L1
				2	#10 AWG	GREEN/YELLOW	PIN 2	PE BUS-1
				3	#10 AWG	RED	PIN 3	1CB030-L3
				4	#10 AWG	WHITE	PIN 4	1CB030-L2
	Output Power	T123 (for Drive Rating < 22 Amps)		1	#12 AWG	BLACK	PIN 1	1EA030-U
				2	#12 AWG	WHITE	PIN 2	1EA030-V
				3	#12 AWG	RED	PIN 3	1EA030-W
				4	#12 AWG	GREEN/YELLOW	PIN 4	1EA030-PE
	Dynamic Brake	DBR for Drive Rating < 22 Amps		1	#12 AWG	BLACK	PIN 1	1EA030-BR1
				2	#12 AWG	WHITE	PIN 2	1EA030-BR2
				3	#12 AWG	RED	PIN 3	3
				4	#12 AWG	GREEN/YELLOW	PIN 4	PE BUS-4
Power (cont.)	Output Power	T123 for Drive Rating = 22 Amps		1	#10 AWG	BLACK	PIN 1	1EA030-U
				2	#10 AWG	GREEN/YELLOW	PIN 2	1EA030-PE
				3	#10 AWG	RED	PIN 3	1EA030-W
				4	#10 AWG	WHITE	PIN 4	1EA030-V
	Dynamic Brake	DBR for Drive Rating = 22 Amps		1	#10 AWG	BLACK	PIN 1	1EA030-BR1
				2	#10 AWG	GREEN/YELLOW	PIN 2	PE BUS-4
				3	#10 AWG	RED	PIN 3	3
				4	#10 AWG	WHITE	PIN 4	1EA030-BR2
	Allen-Bradley Servo Motor Power and Brake	CPBM for Drive Rating < 22 Amps		1	#14 AWG	BROWN	PIN A	1EA030-U
				2	#14 AWG	BLACK	PIN B	1EA030-V
				3	#14 AWG	BLUE	PIN C	1EA030-W
				4	#14 AWG	GREEN/YELLOW	PIN PE	1EA030-PE
				5	#18 AWG	WHITE	PIN F	5BC130-T1
				6	#18 AWG	BLACK	PIN G	5BC130-T2
	Allen-Bradley Servo Motor Power and Brake	CPBM for Drive Rating = 22 Amps		1	#10 AWG	BROWN	PIN U	1EA030-U
				2	#10 AWG	BLACK	PIN V	1EA030-V
				3	#10 AWG	BLUE	PIN W	1EA030-W
				4	#10 AWG	GREEN/YELLOW	PIN PE	1EA030-PE
5				#18 AWG	WHITE	PIN +	5BC130-T1	
6				#18 AWG	BLACK	PIN -	5BC130-T2	
380V...480V AC Source Mechanical Brake	EMB1		1	#14 AWG	GREEN/YELLOW	PIN 1	PE BUS-3	
			2	#14 AWG	BLACK	PIN 2	5BC130-T1	
			3	#14 AWG	BLACK	PIN 3	5BC130-T2	

Cable Type	Name	Abbreviation	Pin layout	Wire No.	Wire Size	Wire Color	From	To/Label Marking
Control	24V DC Mechanical Brake	EMB2		1	#14 AWG	GREEN/YELLOW	PIN 1	PE BUS-3
				2	#14 AWG	BLACK	PIN 2	5BC130-T1
				3	#14 AWG	BLACK	PIN 3	5BC130-T2
	24V DC Control Power	CP		1	#18 AWG	BROWN	PIN 1	TB2-1 LINE
				2	#18 AWG	WHITE	PIN 2	TB2-3 LINE
				3	#18 AWG	BLUE	PIN 3	TB2-8 LINE
				4	#18 AWG	BLACK	PIN 4	TB2-12 LINE
	24V DC Brake Power	CPBR		1	#18 AWG	BROWN	PIN 1	1
				2	#18 AWG	WHITE	PIN 2	5CB130-1
				3	#18 AWG	BLUE	PIN 3	5CB130-3
				4	#18 AWG	BLACK	PIN 4	4
	Digital I/O	P0 Digital Input	P0		1	#18 AWG	BROWN	PIN 1
2					#18 AWG	WHITE	PIN 2	I/O-DI3
3					#18 AWG	BLUE	PIN 3	TB2-8 load
4					#18 AWG	BLACK	PIN 4	I/O-DI2
5					#18 AWG	GRAY	PIN 5	5
P1 Digital Input		P1		1	#18 AWG	BROWN	PIN 1	TB2-5 load
				2	#18 AWG	WHITE	PIN 2	I/O-DI5
				3	#18 AWG	BLUE	PIN 3	TB2-8 load
				4	#18 AWG	BLACK	PIN 4	I/O-DI4
				5	#18 AWG	GRAY	PIN 5	5
Brake Resistor Thermostat Temperature		DBRT		1	#18 AWG	BROWN	PIN 1	DI-ODC
				2	#18 AWG	WHITE	PIN 2	TB2-6 load
				3	#18 AWG	BLUE	PIN 3	3
				4	#18 AWG	BLACK	PIN 4	4

Cable Type	Name	Abbreviation	Pin layout	Wire No.	Wire Size	Wire Color	From	To/Label Marking
Safety	S0 Network Safety (S3)	S0 (S3 Safety)		1	#18 AWG	BROWN	PIN 1	ST0-SP
				2	#18 AWG	WHITE	PIN 2	ST0-SC
				3	#18 AWG	BLUE	PIN 3	3
				4	#18 AWG	BLACK	PIN 4	ST0-SIO
				5	#18 AWG	GRAY	PIN 5	5
	S0 Network Safety (S4)	S0 (S4 Safety)		1	#18 AWG	BROWN	PIN 1	TB2-14 LINE
				2	#18 AWG	WHITE	PIN 2	SSM-SI1
				3	#18 AWG	BLUE	PIN 3	SSM-SC
				4	#18 AWG	BLACK	PIN 4	SSM-SIO
				5	#18 AWG	GRAY	PIN 5	TB2-13 LINE
	S0 Network Safety (S4 with brake)	S0 (S4 Safety with Brake)		1	#18 AWG	BROWN	PIN 1	TB2-14 LINE
				2	#18 AWG	WHITE	PIN 2	SSM-SI1
				3	#18 AWG	BLUE	PIN 3	SSM-SC
				4	#18 AWG	BLACK	PIN 4	4
				5	#18 AWG	GRAY	PIN 5	TB2-13 LINE
	S1 Network Safety (S4)	S1 (S4 Safety)		1	#18 AWG	BROWN	PIN 1	TB2-14 LINE
				2	#18 AWG	WHITE	PIN 2	SSM-SI3
				3	#18 AWG	BLUE	PIN 3	SSM-SC
				4	#18 AWG	BLACK	PIN 4	SSM-SI2
				5	#18 AWG	GRAY	PIN 5	TB2-13 LINE
Communication	EtherNet/IP Link	ETH1 / ETH2		1	#24 AWG	WHITE/ORANGE	PIN 1	RJ45-PIN 1
				2	#24 AWG	WHITE/GREEN	PIN 2	RJ45-PIN 3
				3	#24 AWG	ORANGE	PIN 3	RJ45-PIN 2
				4	#24 AWG	GREEN	PIN 4	RJ45-PIN 6

Cable Type	Name	Abbreviation	Pin layout	Wire No.	Wire Size	Wire Color	From	To/Label Marking
Signal	M23 Incremental Encoder	ENCO		1	#24 AWG	BLACK	PIN 1	Z
				2	#24 AWG	RED	PIN 2	Z-
				3	#24 AWG	BLACK	PIN 3	A
				4	#24 AWG	WHITE	PIN 4	A-
				5	#24 AWG	BLACK	PIN 5	B
				6	#24 AWG	GREEN	PIN 6	B-
				7	#24 AWG	BLACK	PIN 7	7
				8	#24 AWG	BLUE	PIN 8	8
				9	#24 AWG	BLACK	PIN 9	9
				10	#24 AWG	YELLOW	PIN 10	10
				11	#24 AWG	BLACK	PIN 11	COM
					#22 AWG		SHIELD	Sd
				M23 Hiperface SC Encoder	HIPSC		1	#24 AWG
	2	#24 AWG	RED				PIN 2	2
	3	#24 AWG	BLACK				PIN 3	+Cs
	4	#24 AWG	WHITE				PIN 4	-Cs
	5	#24 AWG	BLACK				PIN 5	+Sn
	6	#24 AWG	GREEN				PIN 6	-Sn
	7	#24 AWG	BLACK				PIN 7	-Xd
	8	#24 AWG	BLUE				PIN 8	+Xd
	9	#24 AWG	BLACK				PIN 9	9
	10	#24 AWG	YELLOW				PIN 10	10
	11	#24 AWG	BLACK				PIN 11	12c
	12	#24 AWG	BROWN				PIN 12	+12
		#22 AWG					SHIELD	0s
	M23 SSI SC Rotary Encoder	SSISC		1	#24 AWG	BLACK	PIN 1	+Xc
				2	#24 AWG	RED	PIN 2	-Xc
				3	#24 AWG	BLACK	PIN 3	+Cs
				4	#24 AWG	WHITE	PIN 4	-Cs
				5	#24 AWG	BLACK	PIN 5	+Sn
				6	#24 AWG	GREEN	PIN 6	-Sn
				7	#24 AWG	BLACK	PIN 7	-Xd
				8	#24 AWG	BLUE	PIN 8	+Xd
				9	#24 AWG	BLACK	PIN 9	9
				10	#24 AWG	YELLOW	PIN 10	10
				11	#24 AWG	BLACK	PIN 11	12c
12				#24 AWG	BROWN	PIN 12	+12	
				#22 AWG		SHIELD	0s	

Cable Type	Name	Abbreviation	Pin layout	Wire No.	Wire Size	Wire Color	From	To/Label Marking
Signal (cont.)	M23 Dual Incremental Encoder - 0	DENCO		1	#24 AWG	BLACK	PIN 1	OZ
				2	#24 AWG	RED	PIN 2	OZ-
				3	#24 AWG	BLACK	PIN 3	OA
				4	#24 AWG	WHITE	PIN 4	OA-
				5	#24 AWG	BLACK	PIN 5	OB
				6	#24 AWG	GREEN	PIN 6	OB-
				7	#24 AWG	BLACK	PIN 7	7
				8	#24 AWG	BLUE	PIN 8	8
				9	#24 AWG	BLACK	PIN 9	9
				10	#24 AWG	YELLOW	PIN 10	10
				11	#24 AWG	BLACK	PIN 11	EC
				12	#24 AWG	BROWN	PIN 12	ES
		#22 AWG		SHIELD	Sd			
		#24 AWG	BLACK	PIN 1	1Z			
		#24 AWG	RED	PIN 2	1Z-			
		#24 AWG	BLACK	PIN 3	1A			
		#24 AWG	WHITE	PIN 4	1A-			
		#24 AWG	BLACK	PIN 5	1B			
		#24 AWG	GREEN	PIN 6	1B-			
		#24 AWG	BLACK	PIN 7	7			
		#24 AWG	BLUE	PIN 8	8			
		#24 AWG	BLACK	PIN 9	9			
		#24 AWG	YELLOW	PIN 10	10			
		#24 AWG	BLACK	PIN 11	EC			
		#24 AWG	BROWN	PIN 12	ES			
		#22 AWG		SHIELD	Sd			
		#24 AWG	BLACK	PIN 1	+Yc			
		#24 AWG	RED	PIN 2	-Yc			
		#24 AWG	BLACK	PIN 3	3			
		#24 AWG	WHITE	PIN 4	4			
		#24 AWG	BLACK	PIN 5	5			
		#24 AWG	GREEN	PIN 6	6			
		#24 AWG	BLACK	PIN 7	-Yd			
		#24 AWG	BLUE	PIN 8	+Yd			
		#24 AWG	BLACK	PIN 9	9			
		#24 AWG	YELLOW	PIN 10	10			
	#24 AWG	BLACK	PIN 11	12c				
	#24 AWG	BROWN	PIN 12	+12				
	#22 AWG		SHIELD	0s				
Signal (cont.)	Allen-Bradley Servo Bulk Head Hiperface Encoder	CFBM		1	#22 AWG	BLACK	PIN 1	+Sn
				2	#22 AWG	WHITE/BLACK	PIN 2	-Sn
				3	#22 AWG	RED	PIN 3	+Cs
				4	#22 AWG	WHITE/RED	PIN 4	-Cs
				5	#22 AWG	GREEN	PIN 5	+Xd
				6	#22 AWG	WHITE/GREEN	PIN 6	-Xd
				9	#22 AWG	GRAY	PIN 9	9
				11	#22 AWG	ORANGE	PIN 11	+12
				10	#22 AWG	WHITE/GRAY	PIN 10	10
				12	#18 AWG	WHITE/GRAY	PIN 12	12c
				14	#18 AWG	WHITE/GRAY	PIN 14	14
				13	#22 AWG	WHITE/ORANGE	PIN 13	13
							SHIELD	0s

Cable Descriptions and Receptacle Information

Receptacle Abbreviation	Receptacle Description	Recommended Interface Cable / Connector ⁽¹⁾	Cable Description
L123	Input Power Receptacle, IN1, M35, 4-pin	280-PWRM35A-M*	ArmorConnect® Power Media - Trunk Cable, IP67, UL 4/12, NEMA 6P, Straight Female to Straight Male Patchcord, 10 AWG
		280-PWRM35E-M*	ArmorConnect Power Media - Trunk Cable, IP67, UL 4/12, NEMA 6P, Straight Female Cordset, 10 AWG
T123 (for drive rating < 22 A)	Output Power Receptacle, M29, 4-pin	284-PWRM29A-M*	Shielded Motor patch cable assembly With straight Male/Female receptacle with leads, 29 mm Shell, 4-pin, 12 AWG
		280-PWRM29A-M*	Non-Shielded Motor patch cable assembly With straight Male/Female receptacle with leads, 29 mm Shell, 4-pin, 12 AWG
DBR (for drive rating <22 A)	Dynamic Brake Receptacle, M29, 4-pin	284-PWRM29A-M*	Shielded Motor patch cable assembly With straight Male/Female receptacle with leads, 29 mm Shell, 4-pin, 12 AWG
		280-PWRM29A-M*	Non-Shielded Motor patch cable assembly With straight Male/Female receptacle with leads, 29 mm Shell, 4-pin, 12 AWG
T123 (for drive rating =22 A)	Output Power Receptacle, M35, 4-pin	280-PWRM35G-M*(2)	ArmorConnect Power Media - Trunk Cable, IP67, UL 4/12, NEMA 6P, Straight Male Cordset.
		280-PWRM35A-M*(2)	ArmorConnect Power Media - Trunk Cable, IP67, UL 4/12, NEMA 6P, Straight Male to Straight Female Patchcord
DBR (for drive rating = 22 A)	Dynamic Brake Receptacle, M35, 4-pin	280-PWRM35G-M*	ArmorConnect Power Media - Trunk Cable, IP67, UL 4/12, NEMA 6P, Straight Male Cordset.
		280-PWRM35A-M*	ArmorConnect Power Media - Trunk Cable, IP67, UL 4/12, NEMA 6P, Straight Male to Straight Female Patchcord
EMB1 or EMB2	Mechanical Brake Receptacle, M24, 3-pin	285-BRC22-M*D	Non-shielded patch cable assembly with straight male / straight female receptacle with leads, 22 mm shell, 3-pin, 16 AWG Conductors
		285-BRC22D-M*	Non-shielded patch cable assembly with Straight Male receptacle with flying leads, 22 mm shell, 3-pin, 16 AWG Conductors
CP	24V DC Control Power Receptacle, mini, 4-pin	889N-F4AFNM-*	Patchcord: Mini/Mini Plus, Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, Mini, Male, Straight, 16 AWG
		889N-F4AENM-D*	22 mm, 18 AWG, 300V, 10 A, 4-pin, straight mini Male to straight Mini Female
CPBR	24V DC Brake Power Receptacle, mini, 4-pin	889N-F4AFNM-*	Patchcord: Mini/Mini Plus, Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, Mini, Male, Straight, 16 AWG
		889N-F4AENM-D*	22 mm, 18 AWG, 300V, 10 A, 4-pin, straight mini Male to straight Mini Female
P0	P0 Digital Input Receptacle, micro, 5-pin	889D-F4ACDM-*	Patchcord: DC Micro (M12), Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, DC Mic, Male, Straight
		879D-F4ACDM-*	V-Cable, DC Micro (M12), Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, 22 AWG, DC Micro (M12), Straight Male
		879D-R4ACDM-*	V-Cable, DC Micro (M12), Female, Right Angle, 4-Pin, PVC Cable, Yellow, Unshielded, 22 AWG, DC Micro (M12), Straight Male
		889D-M4AC-*	DC micro (M12), Male, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, IEC Color coded, No Connector

Cable Descriptions and Receptacle Information (continued)

Receptacle Abbreviation	Receptacle Description	Recommended Interface Cable / Connector⁽¹⁾	Cable Description
P1	P1 Digital Input Receptacle, micro, 5-pin	889D-F4ACDM-*	Patchcord: DC Micro (M12), Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, DC Mic, Male, Straight
		879D-F4ACDM-*	V-Cable, DC Micro (M12), Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, 22 AWG, DC Micro (M12), Straight Male
		879D-R4ACDM-*	V-Cable, DC Micro (M12), Female, Right Angle, 4-Pin, PVC Cable, Yellow, Unshielded, 22 AWG, DC Micro (M12), Straight Male
		889D-M4AC-*	DC Micro (M12), Male, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, No Connector
DBRT	Brake Resistor Thermostat Temperature Receptacle, micro, 4-pin	889D-F4ACDM-*	Patchcord: DC Micro (M12), Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, DC Mic, Male, Straight
		879D-F4ACDM-*	V-Cable, DC Micro (M12), Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, 22 AWG, DC Micro (M12), Straight Male
		879D-R4ACDM-*	V-Cable, DC Micro (M12), Female, Right Angle, 4-Pin, PVC Cable, Yellow, Unshielded, 22 AWG, DC Micro (M12), Straight Male
		889D-M4AC-*	DC Micro (M12), Male, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, No Connector
S0 (S3 safety)	S0 Safety Receptacle, micro, 5-pin	889D-F4ACDM-*	Patchcord: DC Micro (M12), Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, DC Mic, Male, Straight
		879D-F4ACDM-*	V-Cable, DC Micro (M12), Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, 22 AWG, DC Micro (M12), Straight Male
		879D-R4ACDM-*	V-Cable, DC Micro (M12), Female, Right Angle, 4-Pin, PVC Cable, Yellow, Unshielded, 22 AWG, DC Micro (M12), Straight Male
		889D-F4AC-*	DC Micro (M12), Female, Straight, 4-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, No Connector
S0 (S4 safety)	S0 Network Safety Receptacle, A, micro, 5-pin	889D-M5AC-*	DC Micro (M12), Male, Straight, 5-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, No Connector
		889D-F5ACDM-*	Patchcord: DC Micro (M12), Female, Straight, 5-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, DC Mic, Male, Straight
		889D-F5ACDE-*	Patchcord: DC Micro (M12), Female, Straight, 5-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, DC Mic, Male, R-Angle
S0 (S4 safety with brake)	S0 Network Safety Receptacle, C, micro, 5-pin, female	889D-M5AC-*	DC Micro (M12), Female, Straight, 5-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, No Connector
		889D-F5ACDM-*	Patchcord: DC Micro (M12), Female, Straight, 5-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, DC Mic, Male, Straight
		889D-F5ACDE-*	Patchcord: DC Micro (M12), Female, Straight, 5-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, DC Mic, Male, R-Angle
S1 (S4 safety)	S1 Network Safety Receptacle, B&C, micro, 4-pin, female	889D-M5AC-*	DC Micro (M12), Male, Straight, 5-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, No Connector
		889D-F5ACDM-*	Patchcord: DC Micro (M12), Female, Straight, 5-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, DC Mic, Male, Straight
		889D-F5ACDE-*	Patchcord: DC Micro (M12), Female, Straight, 5-Pin, PVC Cable, Yellow, Unshielded, IEC Color Coded, DC Mic, Male, R-Angle
CFBM	HIP SC Encoder Receptacle, Servo, Bulk H, E52, E55	2090-CFBM7E7-CEAF**	SpeedTEC Cable, Motor Feedback Only, SpeedTEC DIN Connector, Extension Receptacle (SpeedTEC ready), SIN/COS High-Resolution/Resolver Encoder Type, Continuous-Flex
CPBM (for drive rating = 22 A)	Output Power #10 and Brake, #18, Receptacle, 6-pin	2090-CPBM7E7-10AF**	SpeedTEC Cable, Motor Power With Brake Wires, SpeedTEC DIN Connector, Extension Receptacle (SpeedTEC ready), 10 AWG, Continuous-Flex

Cable Descriptions and Receptacle Information (continued)

Receptacle Abbreviation	Receptacle Description	Recommended Interface Cable / Connector ⁽¹⁾	Cable Description
CPBM (for drive rating < 22 A)	Output Power #14 and Brake, #18, Receptacle, 6-pin	2090-CPBM7E7-14AF**	SpeedTEC Cable, Motor Power With Brake Wires, SpeedTEC DIN Connector, Extension Receptacle (SpeedTEC ready), 14 AWG, Continuous-Flex
ENCO ⁽³⁾	Incremental Encoder Receptacle, M23, 12-pin, E41	-	-
HIPSC ⁽³⁾	HIP Encoder Receptacle, M23,12-pin, E42		
SSISC ⁽³⁾	SSI SC Rotary Encoder Receptacle, M23,12-pin, E43		
DENCO ⁽³⁾	Dual Incremental Encoder Receptacle, M23,12-pin,E44, female		
DENCT ⁽³⁾	Dual Incremental Encoder 1 Receptacle, M23,12-pin,E44		
HIPSC ⁽³⁾	HIP SC Encoder Receptacle, M23, 12-pin,E51,E53		
SSIL ⁽³⁾	SSI Linear Encoder Receptacle, M23,12-pin,E53,E54,E55		
SSISC ⁽³⁾	SSI SC Rotary Encoder Receptacle, M23,12-pin, E56		
ETH1 / ETH2 (Ethernet)	Micro D-Code, QD Style Ethernet Media	1585D-M4TBJM-*	1585 Ethernet Cables, 4 Conductors, M12, Straight Male, Standard, RJ45, Straight Male, Teal Robotic TPE, 100BASE-TX, 100 Mbit/s, 4 Conductor, Teal TPE, Flex Rated
		1585D-M4TBDM-*	1585 Ethernet Cables, 4 Conductors, M12, Straight Male, Standard, M12, Straight Male, Teal Robotic TPE, 100BASE-TX, 100 Mbit/s, 4 Conductor, Teal TPE, Flex Rated
		1585D-M4TB-*	1585 Ethernet Cables, 4 Conductors, M12, Straight Male, Standard, Flying Leads, Teal Robotic TPE, 100BASE-TX, 100 Mbit/s, 4 Conductor, Teal TPE, Flex Rated

(1) For recommended connectors/cables that contain an (*), the asterisk represents variance in cable lengths and configuration options.

(2) Rockwell Automation only supplies unshielded motor cables for the M35 Motor Receptacles. Contact your local Rockwell Automation® distributor directly for shielded motor cables.

(3) Use M23, 12-Pin, 20° coded connector cable. The cable jacket that is used, must be marked and tested for UL oil resistance, to preserve the UL Type 12 rating for the On-Machine drive in the end-user application. Always use shielded cable with copper wire. We recommend wire with an insulation rating of 300V or greater. Separate analog signal wires from power wires by at least 0.3 m (1 ft).

Motor Considerations

Due to the operational characteristics of AC variable-frequency drives, we recommend motors with inverter grade insulation systems that are designed to meet or exceed NEMA MG1 Part 31.40.4.2 standards for resistance to spikes of 1600 volts.

Guidelines must be followed when using non-inverter grade motors to avoid premature motor failures. See Wiring and Grounding Guidelines for Pulse Width Modulated (PWM) AC Drives, publication [DRIVES-IN001](#) for recommendations.

Shield and Ground Motors and Motor Cables

The motor frame or stator core must be connected directly to the PE connection with a separate ground conductor. We recommend that each motor frame is grounded to building steel at the motor. Keep the motor cable lengths less than 13.7 m (45 ft) unless otherwise noted in the device specifications.

See [Cable Descriptions and Receptacle Information](#) for motor cable information.

Permanent Magnet Servo Motors

IMPORTANT For compatibility, the motor cable connector that is selected must provide good 360-degree contact and low transfer impedance from the shield or armor of the cable to the conduit entry plate at both the motor and the On-Machine drive, for electrical bonding.

The motor cable should be kept as short as possible to avoid electromagnetic emissions and capacitive currents. CE conformity of an On-Machine drive with EMC Directive does not confirm that the entire machine installation complies with CE EMC requirements.

See the National Electrical Code (NEC) NFPA 70 and/or the Electrical Standard for Industrial Machinery NFPA 79 for proper installation details.

When using a PowerFlex 755 drive to control a permanent magnet motor, the motor feedback device must have a resolution such that the number of pulses per revolution (PPR) is an exponent of 2 (for example: 512, 1024, 2048, 4096, 8192, and so on).

The following table contains a list of specifications for Allen-Bradley servo motors compatible with PowerFlex 750-Series drives. This information is provided to help configure a PowerFlex 750-Series drive with the appropriate servo motor data. For information about compatibility and configuration of Allen-Bradley servo motors (including Bulletin RDB or RDD-Series™ Direct Drive™ motors) and third-party PM motors, contact Rockwell Automation technical support.

Allen-Bradley Servo Motors Compatible with PowerFlex 750-Series Drives

Product	Gauge Wire	Cat. No.	Motor NP Volts (line-line vs. rms)	NP Amps (A rms)	Motor NP Hertz (Hz)	Motor NP RPM (oper. rpm)	Motor NP Power (kW)	Motor Poles	Current Peak Amps	System Cont. Stall Torque (N·m)	Motor Max RPM
MPL-B210V-VJ74AA	16	-	-	-	-	-	-	-	-	-	-
MPL-B220T-VJ74AA	16	-	-	-	-	-	-	-	-	-	-
MPL-B230P-VJ74AA	16	-	-	-	-	-	-	-	-	-	-
MPL-B310P-MJ74AA	16	MPL-B310P	460	1.7	310	4650	0.77	8	3	1.58	5000
MPL-B320P-MJ74AA	16	MPL-B320P	460	3.2	313.3	4700	1.5	8	5	3.05	5000
MPL-B330P-MK74AA	16	MPL-B330P	460	4.3	274	4110	1.8	8	7	4.18	5000
MPL-B420P-MJ74AA	16	MPL-B420P	460	4.5	255.3	3830	1.9	8	9.2	4.74	5000
MPL-B430P-MJ74AA	16	MPL-B430P	460	6.5	214	3210	2.2	8	12	6.55	5000
MPL-B4530F-MJ74AA	16	MPL-B4530K	460	7.8	200.7	3010	2.6	8	19.1	8.25	4000
MPL-B4540F-MJ74AA	16	MPL-B4540F	460	6.4	162	2430	2.6	8	16.3	10.2	3000
MPL-B4560F-MJ74AA	16	MPL-B4560F	460	8.3	144.7	2170	3.2	8	25.5	14.1	3000
MPL-B520K-MJ74AA	16	MPL-B520K	460	8.1	208	3120	3.5	8	23.3	10.7	4000
MPL-B540K-MJ74AA	14	MPL-B540K	460	14.5	177.3	2660	5.4	8	42.4	19.4	4000
MPL-B560F-MJ74AA	14	MPL-B560F	460	14.5	130.7	1960	5.5	8	42.4	26.8	3000
MPL-B580F-MJ74AA	10	MPL-B580F	460	18.4	132.7	1990	7.1	8	66.5	34	3000
MPM-B1151F-MJ74AA	16	-	-	-	-	-	-	-	-	-	-
MPM-B1152C-MJ74AA	16	MPM-B1152C	480	2.3	166.7	2500	1.2	8	8.8	2.18	3000
MPM-B1152F-MJ74AA	16	MPM-B1152F	480	2.9	266.7	4000	1.4	8	15.5	4.74	5200
MPM-B1152T-MJ74AA	16	MPM-B1152T	480	5.2	266.7	4000	1.4	8	26.8	4.74	7000
MPM-B1153E-MJ74AA	16	MPM-B1153E	480	2.7	200	3000	1.4	8	15.3	6.55	3500
MPM-B1153F-MJ74AA	16	MPM-B1153F	480	3.2	266.7	4000	1.45	8	22.6	6.55	5500
MPM-B1153T-MJ74AA	14	MPM-B1153T	480	5.5	266.7	4000	1.45	8	39.2	6.55	7000
MPM-B1302F-MJ74AA	16	MPM-B1302F	480	3.4	266.7	4000	1.65	8	15.6	5.99	4500
MPM-B1302M-MJ74AA	16	MPM-B1302M	480	4.9	266.7	4000	1.65	8	22.6	5.99	6000
MPM-B1302T-MJ74AA	14	MPM-B1302T	480	6.6	266.7	4000	1.65	8	30.7	5.99	7000
MPM-B1304C-MJ74AA	16	MPM-B1304C	480	3.4	183.3	2750	2	8	15.8	10.2	2750
MPM-B1304E-MJ74AA	16	MPM-B1304E	480	4.1	166.7	2500	2.2	8	24.2	10.2	4000
MPM-B1304M-MJ74AA	14	MPM-B1304M	480	7.3	233.3	3500	2.2	8	42.9	10.2	6000

Allen-Bradley Servo Motors Compatible with PowerFlex 750-Series Drives

Product	Gauge Wire	Cat. No.	Motor NP Volts (line-line vs. rms)	NP Amps (A rms)	Motor NP Hertz (Hz)	Motor NP RPM (oper. rpm)	Motor NP Power (kW)	Motor Poles	Current Peak Amps	System Cont. Stall Torque (N·m)	Motor Max RPM
MPM-B1651C-MJ74AA	16	MPM-B1651C	480	4.7	200	3000	2.5	8	20.6	10.7	3500
MPM-B1651F-MJ74AA	16	MPM-B1651F	480	8.2	200	3000	2.5	8	36	10.7	5000
MPM-B1651M-MJ74AA	10	MPM-B1651M	480	10.9	200	3000	2.5	8	40.2	10.7	5000
MPM-B1652C-MJ74AA	16	MPM-B1652C	480	7	166.7	2500	3.8	8	23.8	16	2500
MPM-B1652E-MJ74AA	10	MPM-B1652E	480	8	233.3	3500	4.3	8	42.8	19.4	3500
MPM-B1652F-MJ74AA	10	MPM-B1652F	480	11	233.3	3500	4.3	8	59.5	19.4	4500
MPM-B1653C-MJ74AA	14	MPM-B1653C	480	10.5	133.3	2000	4.6	8	41.9	26.8	2500
MPM-B1653E-MJ74AA	10	MPM-B1653E	480	10.2	200	3000	5.1	8	51.6	26.8	3500
MPM-B2152C-MJ74AA	10	MPM-B2152C	480	12.3	133.3	2000	5.6	8	39.2	36.7	2500
MPM-B2153B-MJ74AA	10	MPM-B2153B	480	12.7	116.7	1750	6.8	8	42.4	48	2000

For motor power and feedback cable information, see the Kinetix® Motion Control Selection Guide, publication [GMC-SG001](#).

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
ArmorConnect Power and Control Media Selection Guide, publication 280PWR-SG001	This manual describes how to select the ArmorConnect power and control media cables.
Wiring and Grounding for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-IN001	This manual provides basic information to install, protect, wire, and ground pulse-width modulated (PWM) AC drives. This manual is intended for qualified personnel who plan and design installations of PWM AC drives.
Product Certifications website, http://rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

The following publications provide setup information.

Resource	Description
Ethernet Tap, publication 1783-PC011	Provides detailed information on setting the IP address using the 1783-ETAP.
PowerFlex 20-HIM-A6/-C6S HIM (human interface module) User Manual, publication 20HIM-UM001	Provides detailed information on HIM components, operation, and features.
PowerFlex 755 Drive Embedded EtherNet/IP Adapter User Manual, publication 750COM-UM001	This manual provides information about the EtherNet/IP adapter that is embedded on the main control board in PowerFlex 755 drives, and how to use it for network communication.
PowerFlex 755 On-Machine Drive User Manual, publication 750-UM006	This document contains a detailed instructions for the unpacking, installation, startup, and maintenance instructions for the PowerFlex 755 On-Machine drive.
PowerFlex 755 On-Machine Drive Product Information, publication 750-PC004	This document contains a high level view of the installation and unpacking instructions for the PowerFlex 755 On-Machine drive.
PowerFlex 750-Series Drive Programming Manual, publication 750-PM001	Provides detailed information on: <ul style="list-style-type: none"> I/O, control, and feedback options Parameters and programming Faults, alarms, and troubleshooting
PowerFlex 750-Series AC Drives Technical Data, publication 750-TD001	Provides detailed information on: <ul style="list-style-type: none"> Drive specifications Option specifications Fuse and circuit breaker ratings
PowerFlex 755/755T Integrated Safety - Safe Torque Off Option Module (S3), publication 750-UM004	These publications provide detailed information on how to install, configure, and operate the 750-Series safety option modules.
PowerFlex 755/755T Integrated Safety Functions Option Module (S4), publication 750-UM005	
EtherNet/IP Network Configuration User Manual, publication ENET-UM006	This manual describes how to use EtherNet/IP communication modules in Logix 5000 control systems.

You can view or download publications at rok.auto/literature.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	rok.auto/support
Knowledgebase	Access Knowledgebase articles.	rok.auto/knowledgebase
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	rok.auto/pcdc

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Rockwell Otomasyon Ticaret A.Ş. Kar Plaza İş Merkezi E Blok Kat:6 34752, İçerenköy, İstanbul, Tel: +90 (216) 5698400 EEE Yönetmeliğine Uygundur

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AMERICAS: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

EUROPE/MIDDLE EAST/AFRICA: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

ASIA PACIFIC: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846