



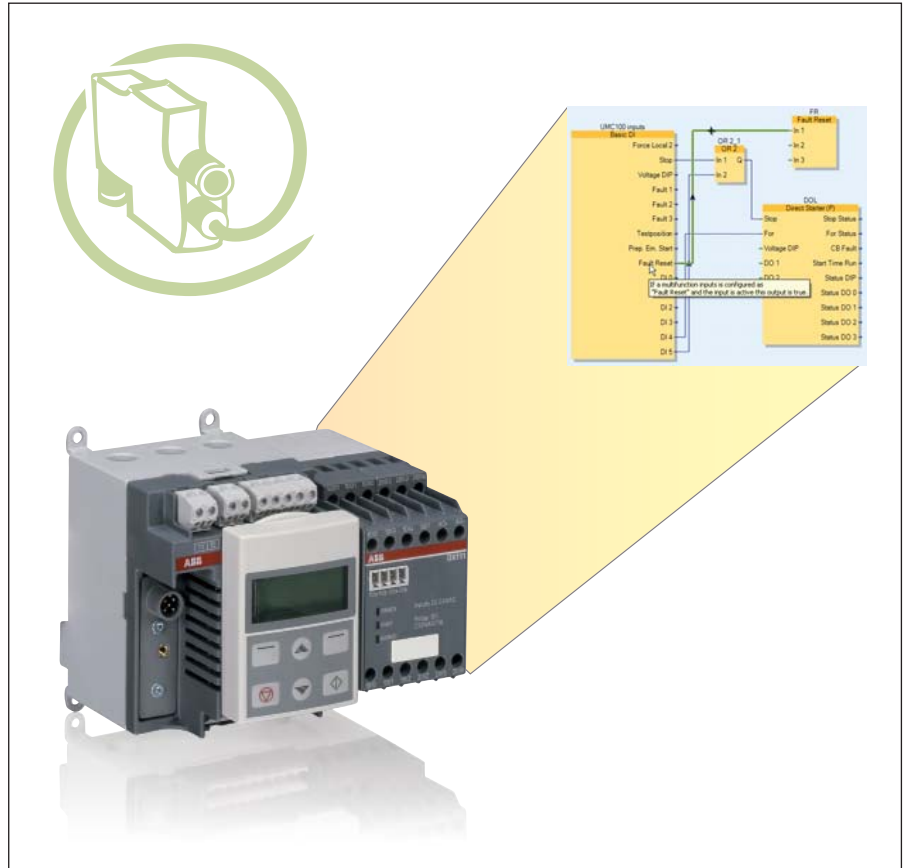
# FBP FieldBusPlug Communicative Control and Protection Components





# FBP FieldBusPlug

## Communicative Switching and Automation Components



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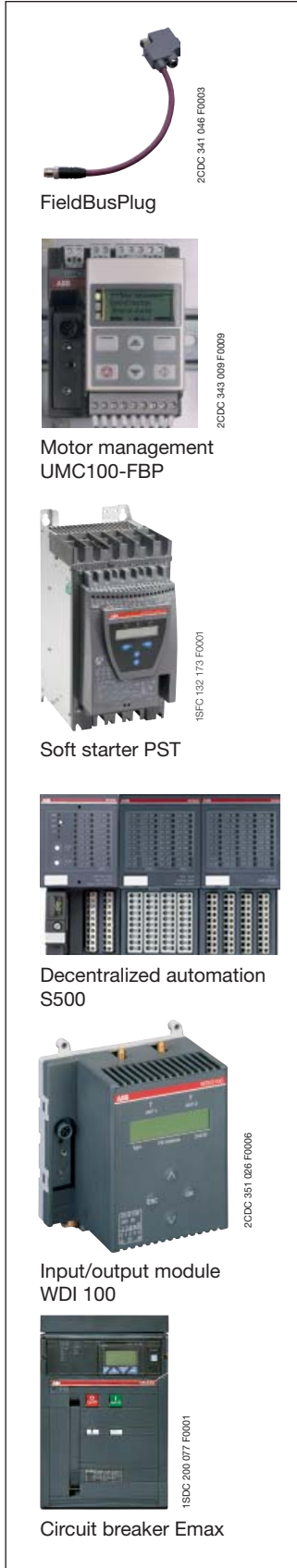
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# FBP FieldBusPlug

## System description, general information

The FieldBusPlug system allows simple, universal and intelligent integration of numerous switching devices and components into any automation systems. Simple and flexible planning and integration also has an effect on the design and operation of machines and systems.



### Typical devices

These are intelligent motor controllers, soft starters, circuit breakers and decentralized automation systems.

### Fieldbus interface

The listed devices are fieldbus-neutral. With the FieldBusPlug (FBP) they can be connected to any fieldbus systems.

### Reduces multiplicity of devices

One single device version can be connected to different fieldbus systems via suitable FieldBusPlugs. This simplifies planning, development, service and storage.

### Operational safety

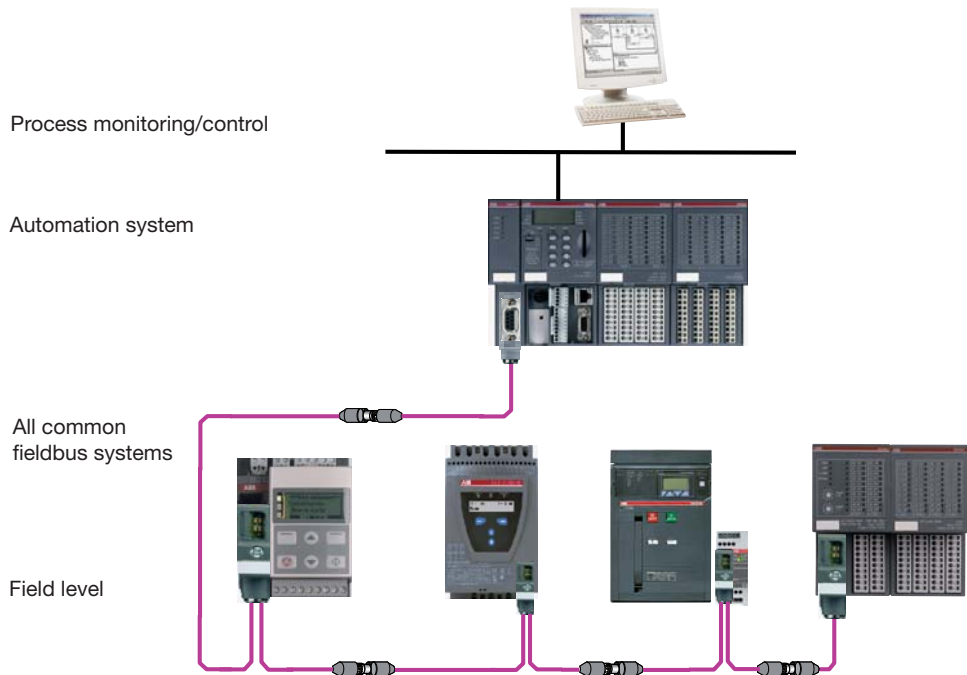
The M12 connection technology with ready-made components ensures easy assembly and high availability.

### Large product portfolio

A comprehensive range of accessories, like cables, adapters, plugs and software tools rounds off the product range.

### Simple integration

New tools based on the generally valid FDT / DTM (Device Type Manager) standard support planners and operators in configuring and implementing the systems.



# FBP FieldBusPlug

## Motor management, general information

With the new UMC100-FBP, ABB provides the optimum solution for integrating motor control into system control. The UMC100-FBP is a flexible, modular expandable motor management system for low voltage motors with constant rotational speed. Its most important task is avoiding system downtimes through early detection of possible drive problems and reducing the associated downtimes through quick detection of the error cause, if a motor stop has occurred.



2CDC 341 008 F0009

Universal Motor Controller  
UMC100-FBP



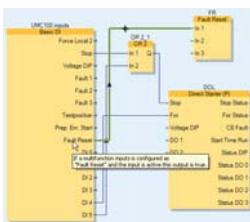
2CDC 341 008 F0009

Operating panel  
UMC100-PAN



2CDC 341 005 F0009

I/O expansion module  
DX111-FBP / DX122-FBP



Customer-specific  
application

### Continued further development

The UMC100-FBP Universal Motor Controller ideally supplements the already proven UMC22-FBP with several additional functions and extensions. It is based on ABB's long-standing experience in the area of motor protection and drive technology.

### Motor management and more

With its predefined control features and the option to optimally adapt the device to different system conditions due to its flexible logic, the UMC100-FBP is very well suited to varied applications. For complex applications with more I/Os or special signals, extension modules are available.

### High system availability

The UMC100-FBP continuously provides extensive operating, service and diagnostic data of the motor. This enables the operator to detect faults in time or to even prevent these with suitable measures, or to limit their effect. Quick error location and elimination increases system availability.

### Electronic full motor protection

The comprehensive electronic full motor protection is self-sufficient and guarantees full motor protection even if superordinated automation or process control systems or the bus system fail. The high accuracy of the electronic measuring system better utilizes the performance of the motors. The digital technology guarantees high long-term stability of the tripping characteristic and consistent tripping behavior even after many years of use.

### Less planning, development and material effort

The UMC100-FBP already convinces during the planning and development phase due to its universal and modular structure. All required protection, monitoring and control features are integrated in one single device, which thus reduces the wiring effort. One single version for all current ranges and field buses simplifies planning and service from systems through to the spares inventory.

### Simple integration in a confined space

Due to its compact design with integrated measuring system, the UMC100-FBP reduces the required floor space. This is important for application in low voltage drawer systems in conditions with limited space, or for conversion of existing systems to a modern motor management system.

### Flexible integration into process control

With the FieldBusPlug, the UMC100-FBP can communicate with control systems via the widespread standard fieldbus systems PROFIBUS DP, CANopen, DeviceNet or Modbus. With the FDT interface it is easy to configure the motor management in the process control and adapt it to the process.

### Application in industrial plants

In large industrial systems it is quite common that several thousand motors are required to provide the required movement. This in turn requires intelligent devices on site, as well as a continuous connection from the process control and automation level through to the field. For this reason it is particularly important that motors can be easily integrated into system control and monitoring. With the FieldBusPlug system and the new UMC100-FBP motor management system, the best prerequisites are created for this. Intelligent motor management ensures high reliability in the process. The UMC100-FBP motor management system is easy to handle, from planning and implementation through to on-site service.

## FBP FieldBusPlug

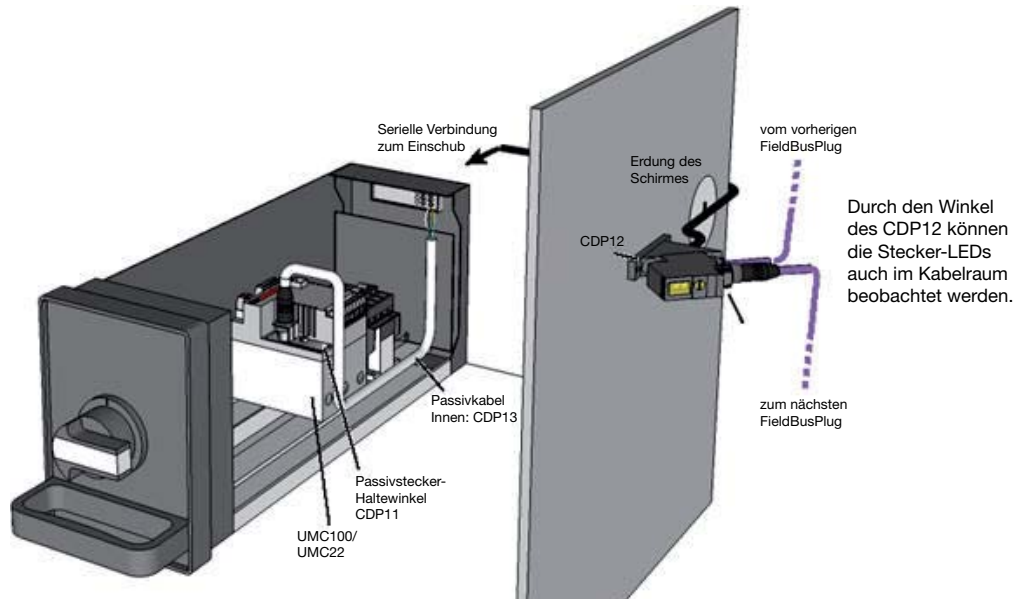
### Application example: UMC100-FBP Universal Motor Controllers in Motor Control Centers (MCC)

#### Application of UMC100-FBP Universal Motor Controllers in MCCs

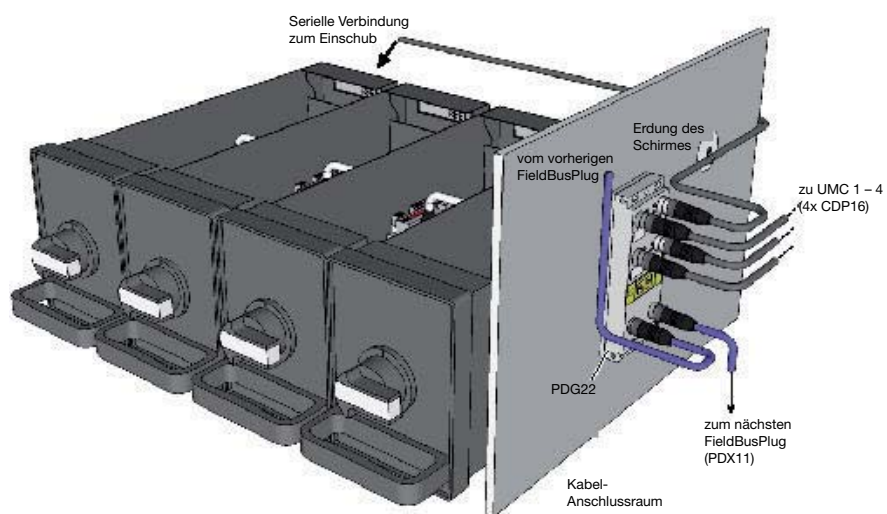
The use of intelligent motor management systems with their coordinated accessories provides many advantages.

- When removing the basic drawer unit from the control cabinet, the bus system remains fully operational. This applies to all FieldBusPlugs. There are no branch lines that could result in malfunctions of the fieldbus.
- Bus addresses are kept

#### Single Universal Motor Controller on a PROFIBUS DP node



#### Multiple Universal Motor Controllers on a PROFIBUS DP node



UMC100-FBP

2CDC 341 009 F0009



UMC100-PAN

2CDC 341 006 F0009



UMC22-FBP

2CDC 341 001 F0008



UMC-PAN

2CDC 341 005 F0008

# FBP FieldBusPlug

## Further FBP terminal devices



S500



Tmax



Emax



PSR3...PSR16



Soft starter PST



Input/output module  
WDIO 100

### Decentralized S500 I/O components

Interface module DC505 with fieldbus-neutral interface for connection to FieldBusPlug. Expandable with I/O modules of the AC500 automation system for decentralized automation concepts.

For technical details, please refer to chapter 8, Automation Devices.

### Communicative circuit breakers Tmax and Emax

Circuit breakers can be integrated into any fieldbus systems via the FBP interface module EP010 for connection to FieldBusPlug.

For technical details, please refer to chapter 11, Circuit Breakers.

### Communicative soft starters PSR/PST

#### PSR

Compact device with fieldbus-neutral interface via external module (type PSR-FBPA) for connection to FieldBusPlug.

For technical details, please refer to chapter 3, Soft Starters.

#### PST

Soft starter with integrated fieldbus-neutral interface for connection to FieldBusPlug.

For technical details, please refer to chapter 3, Soft Starters.

### Input/output module for WDIO 100

Input/output module with fieldbus-neutral interface for wireless automation.

For technical details, please refer to chapter 7b, Wireless Automation.



# FBP FieldBusPlug

## Universal Motor Controller UMC100-FBP and accessories, ordering data



UMC100-FBP

2CDC 341 008 F0009



UMC100-PAN

2CDC 341 008 F0009



DX111-FBP / DX122-FBP

2CDC 341 004 F0009

### Universal Motor Controller UMC100-FBP

Intelligent motor management system for three-phase motors of 0.24 - 63 A in one single device type. Thermal overload protection according to EN/IEC 60947-4-1, adjustable trip categories 5, 10, 20, 30. Integrated bushing-type current transformers for cable cross section up to 25 mm<sup>2</sup> (11 mm max. diameter incl. insulation).

Easily configurable motor control functions: Direct starting, reverse starting, star-delta starting, actuator, pole-changing. Additionally free programmability for customer-specific applications.

Motor protection functions: Overload, blocking, phase failure, phase imbalance, ground fault with sensor CEM11, temperature.

Diagnostic functions: Operating hours, number of motor starts and overload trips, storage of parameters, motor data and error messages.

Integrated I/Os: 6 digital inputs, 1 PTC input, 4 digital outputs.

Maximum number of I/Os with expansion module: 14 digital inputs, 8 digital outputs, 1 analog output.

Fieldbus-neutral interface for FieldBusPlug for connection to fieldbus systems.

Interface for UMC100-PAN operating panel.

Bus interface for connection of I/O expansion modules.

Type	Designation	Nominal motor current	Order code	Pack. size	Weight p. pc. kg
UMC100-FBP.0	Universal Motor Controller	0.24 – 63 A	1SAJ 520 000 R0100	1	0.36

### Expansion modules and accessories for Universal Motor Controller UMC100-FBP

DX111-FBP.0: I/O expansion module for 24 V DC supply voltage, 8 digital inputs 24 V DC, 4 digital relay outputs

DX122-FBP.0: I/O expansion module for 24 V DC supply voltage, 8 digital inputs 110 - 230 V AC, 4 digital relay outputs

Furthermore, each module has a 0/4 - 20 mA or 0 - 10 V analog output.

Type	Designation	For use with	Order code	Pack. size	Weight p. pc. kg
DX111-FBP.0	IO module for UMC100, 24 V DC digital input and supply voltage	UMC100-FBP	1SAJ 611 000 R0101	1	
DX122-FBP.0	IO module for UMC100, 110 - 230 V AC digital input, 24 V DC supply voltage	UMC100-FBP	1SAJ 622 000 R0101	1	
UMCIO-CAB.030	Connection cable UMC100 - IO module, length 0.30 m	UMC100-FBP	1SAJ 691 000 R0001	1	
UMCTB-FBP.0	Terminal set for UMC	UMC100-FBP UMC22-FBP	1SAJ 929 160 R0001	1	

### Operating panel UMC100-PAN and accessories for Universal Motor Controller UMC100-FBP

Operating, diagnostics and parameter setting panel for Universal Motor Controller UMC100-FBP.

Setting of motor and bus parameters. Backlit, graphic, multilingual display.

Assembly directly on UMC100-FBP or on the control cabinet door via extension cable and door mounting set IP65 (front side)

Type	Designation	For use with	Order code	Pack. size	Weight p. pc. kg
UMC100-PAN	Operating panel	UMC100-FBP	1SAJ 590 000 R0101	1	0.04
UMC-CAB.300	3 m ext. cable with door mounting set	UMC100-FBP	1SAJ 510 002 R0001	1	0.40
UMC-CAB.070	0.7 m ext. cable with door mounting set	UMC100-FBP	1SAJ 510 003 R0001	1	0.40



## FBP FieldBusPlug

### Communicative motor starter UMC22-FBP with control functions, ordering data



UMC22-FBP

2CDC 341 001 F0008



UMC-PAN

2CDC 341 006 F0008

#### Universal Motor Controller UMC22-FBP

Universal motor controller for three-phase motors of 0.24 - 63 A in one single device type.

Thermal overload protection according to EN/IEC 60947-4-1, adjustable trip categories 5, 10, 20, 30.

Integrated bushing-type current transformers for cable cross section up to 25 mm<sup>2</sup> (11 mm max. diameter incl. insulation).

Easily configurable motor control functions: Direct starting, reverse starting, star-delta starting, actuator, pole-changing.

Motor protection functions: Overload, blocking, phase failure, ground fault with sensor CEM11, temperature.

Diagnostic functions: Operating hours, number of motor starts and overloads, storage of parameters and motor data.

Integrated I/Os: 6 digital inputs, 1 PTC input, 3 relay outputs.

Fieldbus-neutral interface for FieldBusPlug. Interface to UMC-PAN control panel.

Type	Designation	Nominal motor current	Order code	Pack. size	Weight p. pc. kg
<b>UMC22-FBP.0</b>	Universal Motor Controller	0.24 – 63 A	<b>1SAJ 510 000 R0600</b>	1	0.36
<b>UMC22-FBP.0</b>	Universal Motor Controller, ATEX version	0.24 – 63 A	<b>1SAJ 510 000 R0500</b>	1	0.36

#### Operating panel UMC-PAN with accessories for Universal Motor Controller UMC22-FBP

Operating, diagnostics and parameter setting panel for Universal Motor Controller UMC22-FBP.

Setting of motor and bus parameters.

Copy function: Reading and transferring motor parameters to additional UMC22-FBPs.

Accessories: Extension cable and door mounting set IP65 (front side).

Type	Designation	For use with	Order code	Pack. size	Weight p. pc. kg
<b>UMC-PAN</b>	Operating panel	UMC22-FBP	<b>1SAJ 510 001 R0002</b>	1	0,04
<b>UMC-CAB.300</b>	3 m ext. cable with door mounting set	UMC-PAN	<b>1SAJ 510 002 R0001</b>	1	0,40
<b>UMC-CAB.070</b>	0.7 m ext. cable with front mounting set	UMC-PAN	<b>1SAJ 510 003 R0001</b>	1	0,40

# FBP FieldBusPlug

## Configuration software overview, ordering data

### Configuration software for the UMC100-FBP motor management system

#### The software screwdriver for your application

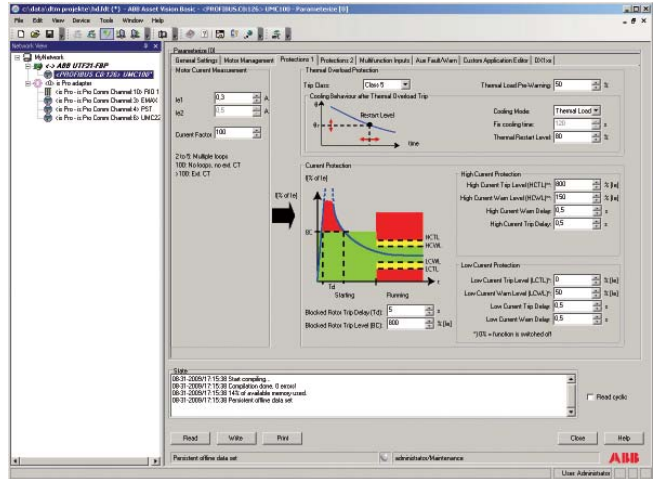
Asset Vision Basic is an FDT frame application with a modern and simple graphical user interface. It provides effective basic functionality for configuration, diagnosis and maintenance of intelligent low voltage switching devices from ABB. Furthermore, due to the open FDT interface, other ABB and 3rd party DTMs can also be used.

Asset Vision Basic is the optimal tool for configuring FBP devices during commissioning, in the workshop or as second master in a PROFIBUS network of a process control system.

#### Overview of features:

- Online/offline configuration and parameterization of devices
- Reading parameterization and configuration information from the device
- Online display of measuring and status data
- Online operation and error acknowledgement
- Creation of customer-specific logics
- Archiving

Connection to the device can either be via PROFIBUS (option 1) or as point to point connection directly to the device (option 2).



#### Configuration software (option 1):

This option is recommended, if the system comprises many devices.



UTP22-FBP (option 1)

Type	Designation	Order code	Pack. size pieces	Weight p. pc. kg
UTP22-FBP	USB interface for PROFIBUS networks	1SAJ 924 013 R0001	1	
PBDTM-FBP	PDP22/PDQ22 Device Type Manager (DTM) incl. FDT/DTM frame application	1SAJ 924 012 R0003	1	
PDA11-FBP.050	PROFIBUS DP adapter cable Dsub9-M12 (optional, for use if Dsub9 connection is not available, e.g. on master or repeater)	1SAJ 924 009 R0005	1	

#### Configuration software (option 2):

This option is recommended, if it is intended to use devices without a bus or if devices are connected to a DeviceNet, CANopen or Modbus bus.



UTF21-FBP (option 2)

Type	Designation	Order code	Pack. size pieces	Weight p. pc. kg
UTF21-FBP	USB to FBP interface cable	1SAJ 929 400 R0002	1	
PBDTM-FBP	PDP22/PDQ22 Device Type Manager (DTM) incl. FDT/DTM frame application	1SAJ 924 012 R0003	1	

## FBP FieldBusPlug

Devices for extension of protection functions,  
ordering data

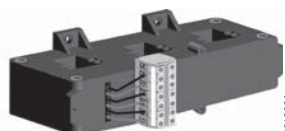


CEM11-FBP

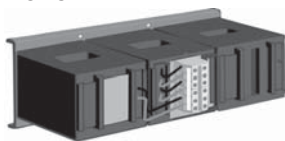
### Earth fault monitor CEM11-FBP for Universal Motor Controllers UMC100-FBP / UMC22-FBP

Type	Earth fault currents [mA]	Through-hole diameter	Order code	Pack. size	Weight p. pc. kg
<b>CEM11-FBP.20</b>	80 <sup>1)</sup> , 300, 550, 750, 1000, 1200, 1500, 1700	20 mm	<b>1SAJ 929 200 R0020</b>	1	0.130
<b>CEM11-FBP.35</b>	100 <sup>1)</sup> , 500, 1000, 1400, 2000, 2400, 3000, 3400	35 mm	<b>1SAJ 929 200 R0035</b>	1	0.200
<b>CEM11-FBP.60</b>	120 <sup>1)</sup> , 1000, 2000, 2800, 4000, 4800, 6000, 6800	60 mm	<b>1SAJ 929 200 R0060</b>	1	0.330
<b>CEM11-FBP.120</b>	300 <sup>1)</sup> , 2000, 4000, 5600, 8000, 9600, 12000, 13600	120 mm	<b>1SAJ 929 200 R0120</b>	1	0.940

<sup>1)</sup> lower values have higher inaccuracy



KORC 4L...



KORC 5L...

### Current transformers for use with Universal Motor Controllers UMC100-FBP / UMC22-FBP

Secondary-linear transformer, 3-phase with terminal block, intended for conductors Cu 2.5 mm<sup>2</sup>.

Type	Designation	Recomm. current range	Order code	Pack size	Weight p. pc. kg
<b>KORC 4L 185 R/4</b>	Current transformer	60 ... 185 A	<b>1SCA 022 193 R7830</b>	1	1.550
<b>KORC 4L 310 R/4</b>	Current transformer	180 ... 310 A	<b>1SCA 022 181 R0760</b>	1	1.442
<b>KORC 5L 500 R/4</b>	Current transformer	300 ... 500 A	<b>1SCA 022 208 R1010</b>	1	1.700
<b>KORC 5L 850 R/4</b>	Current transformer	500 ... 850 A	<b>1SCA 022 208 R1440</b>	1	1.900

### Connection kits for use with KORC current transformers

Connection kits for application with KORC current transformers and series A contactors.

Type	Designation	Appropriate for contactor type	Order code	Pack. size	Weight p. pc. kg
<b>DT 450 / A185</b>	Connection kit	AF145 – AF185	<b>1SAZ 501 901 R1001</b>	1	0.500
<b>DT 450 / A300</b>	Connection kit	AF260 – AF300	<b>1SAZ 501 902 R1001</b>	1	0.200
<b>DT 450 / AF460L</b>	Connection kit <sup>1)</sup>	AF400 – AF460	<b>1SAX 701 902 R1001</b>	1	0.330
<b>DT 450 / AF750L</b>	Connection kit <sup>1)</sup>	AF580 – AF750	<b>1SAX 801 902 R1001</b>	1	0.940

<sup>1)</sup> Connection kit for star-delta starter. For other connection kits, please refer to Volume 2 of Switching Components main catalog part 1.



PDP22-FBP

2CDC341 048 F0003



PDQ22-FBP

2CDC341 048 F0006

### PROFIBUS DP FieldBusPlug

Ready-made PROFIBUS DP fieldbus interface with various cable lengths.

Supports PROFIBUS DP V0 and V1.

- Data transfer rate up to 12 Mbit/s.
- Certified PROFIBUS subscriber.
- Degree of protection: IP65. Diagnostic LED.
- A-coded M12 plug.
- Approvals: CE, cUL (other approvals in preparation).

Type	Designation	Cable length	Order code	Pack. unit	Weight p. pc. kg
PDP22-FBP.025	PROFIBUS DP FBP	0.25 m	1SAJ 240 100 R1003	1	0.09
PDP22-FBP.050	PROFIBUS DP FBP	0.50 m	1SAJ 240 100 R1005	1	0.10
PDP22-FBP.100	PROFIBUS DP FBP	1.00 m	1SAJ 240 100 R1010	1	0.13
PDP22-FBP.200	PROFIBUS DP FBP	2.00 m	1SAJ 240 100 R1020	1	0.20
PDP22-FBP.500	PROFIBUS DP FBP	5.00 m	1SAJ 240 100 R1050	1	0.36

### PROFIBUS DP FieldBusPlug for 4 devices

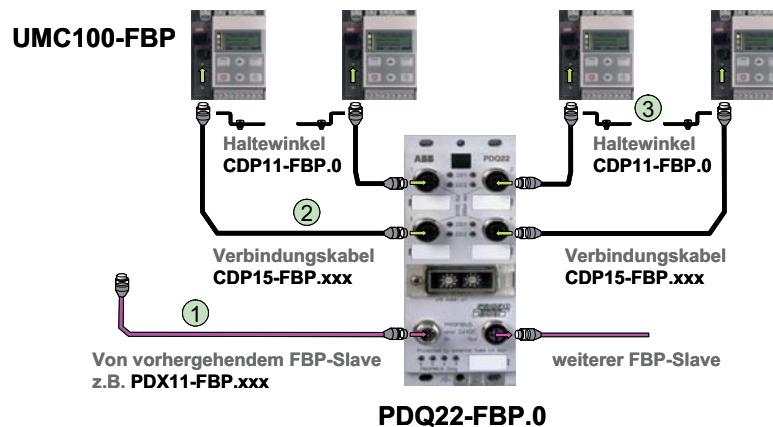
The PDQ22 is a member of the ABB FieldBusPlug family of bus connectors. It allows the connection of up to four devices to PROFIBUS DP by just using one PROFIBUS node address.

This allows cost-efficient integration of devices that are located physically nearby.

- The PDQ22 supports: Universal Motor Controllers UMC100 and UMC22, soft starters PSR2-105 and I/O pads WDI and WDI/O.
- Degree of protection: IP65.
- Separate LEDs for device status and bus status indication.
- Approvals: CE, cUL (other approvals in preparation).

Type	Designation	Order code	Pack. size	Weight p. pc. kg
PDQ22-FBP	Quadruple bus connector	1SAJ 240 200 R0050	1	0.20

### Connecting several Universal Motor Controllers to one PROFIBUS DP node



1	PROFIBUS DP extension cable (0.50 m ... 5.00 m)	PDX11-FBP.050 PDX11-FBP.100 PDX11-FBP.300 PDX11-FBP.500	1SAJ 924 001 R0005 1SAJ 924 001 R0010 1SAJ 924 001 R0030 1SAJ 924 001 R0050
2	Connection cable (0.30 m ... 1.50 m)	CDP15-FBP.030 CDP15-FBP.060 CDP15-FBP.150	1SAJ 929 140 R0003 1SAJ 929 140 R0006 1SAJ 929 140 R0015
3	Fixing bracket for passive plug	CDP11-FBP.0	1SAJ 929 100 R0001

Note: Refer to page 9/15 for system accessories and documentation.

### Accessories for PROFIBUS DP bus connection

#### Round cables for bus junctions

Ready-made bus cable with M12 connector and one cable end open.  
Applicable for bus junctions such as e.g. PROFIBUS DP couplers or devices with integrated PROFIBUS DP communication. All M12 plugs are A-coded, if not explicitly stated otherwise.

Type	PROFIBUS DP round cable for bus junctions	Cable length	Order code	Pack. size	Weight p. pc. kg
<b>PDF11-FBP.050</b>	Round cable with female connector	0.50 m	<b>1SAJ 924 002 R0005</b>	1	0.04
<b>PDM11-FBP.050</b>	Round cable with male connector	0.50 m	<b>1SAJ 924 003 R0005</b>	1	0.04

#### Round cables for bus extension

Ready-made PROFIBUS DP cable  
– round cable with M12 female and male connectors (PDX11-FBP.xxx).  
PROFIBUS DP bus cable  
– round cable on coil (PDC11-FBP.999).

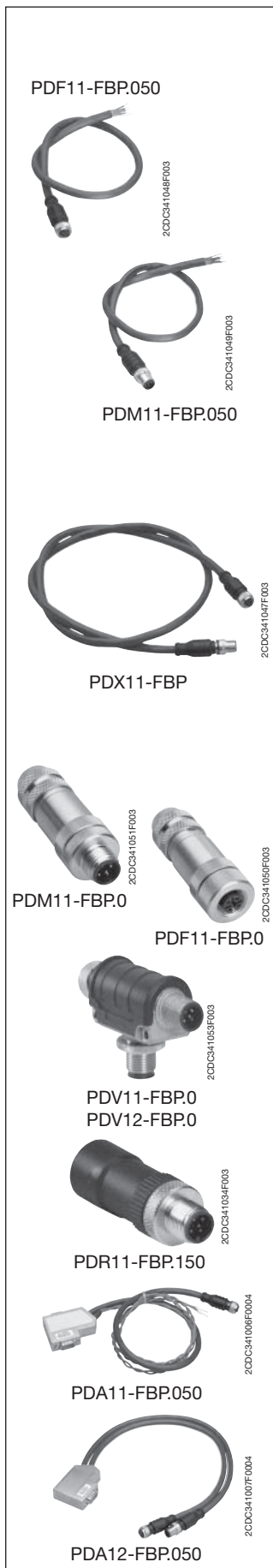
Type	PROFIBUS DP extension cable	Cable length	Order code	Pack. size	Weight p. pc. kg
<b>PDX11-FBP.050</b>	Ready-made	0.50 m	<b>1SAJ 924 001 R0005</b>	1	0.04
<b>PDX11-FBP.100</b>	Ready-made	1.00 m	<b>1SAJ 924 001 R0010</b>	1	0.08
<b>PDX11-FBP.300</b>	Ready-made	3.00 m	<b>1SAJ 924 001 R0030</b>	1	0.20
<b>PDX11-FBP.500</b>	Ready-made	5.00 m	<b>1SAJ 924 001 R0050</b>	1	0.31
<b>PDC11-FBP.999</b>	Coil	100 m	<b>1SAJ 924 004 R1000</b>	1	5.60

#### Accessories for bus extension

Type	PROFIBUS DP cable connector	Order code	Pack. size	Weight p. pc. kg
<b>PDM11-FBP.0</b>	Male plug for round cables	<b>1SAJ 924 005 R0001</b>	1	0.03
<b>PDF11-FBP.0</b>	Female plug for round cables	<b>1SAJ 924 006 R0001</b>	1	0.03

#### Line termination, feeding connectors, adapters

Type	Designation	Order code	Pack. size	Weight p. pc. kg
<b>PDR11-FBP.150</b>	Line termination 150 ohms	<b>1SAJ 924 007 R0001</b>	1	0.03
<b>PDV11-FBP.0</b>	Feeding connector 24 V DC, code B-A	<b>1SAJ 924 008 R0001</b>	1	0.04
<b>PDV12-FBP.0</b>	Feeding connector 24 V DC, code A-A	<b>1SAJ 924 011 R0001</b>	1	0.04
<b>PDA11-FBP.050</b>	Adapter Dsub9-M12, cable length 0.50 m	<b>1SAJ 924 009 R0005</b>	1	0.04
<b>PDA12-FBP.050</b>	Adapter M12-Dsub9-M12, cable length 2 x 0.50 m	<b>1SAJ 924 010 R0005</b>	1	0.04



### Accessories for PROFIBUS DP FieldBusPlug PDQ22-FBP

#### Mounting material

Type	Designation	Order code	Pack. size	Weight p. pc. kg
<b>CDA11-FBP.0</b>	DIN rail adapter for PDQ22-FBP	<b>1SAJ 929 300 R0001</b>	1	0.110
<b>CDP11-FBP.0</b>	Fixing bracket for passive plug of connection cable	<b>1SAJ 929 100 R0001</b>	1	0.50

#### Connection cables

Type	Designation	Order code	Pack. size	Weight p. pc. kg
<b>CDP15-FBP.030</b>	Connection cable (female/male), shielded, length 0.3 m	<b>1SAJ 929 140 R0003</b>	1	
<b>CDP15-FBP.060</b>	Connection cable (female/male), shielded, length 0.6 m	<b>1SAJ 929 140 R0006</b>	1	
<b>CDP15-FBP.150</b>	Connection cable (female/male), shielded, length 1.5 m	<b>1SAJ 929 140 R0015</b>	1	0.20
<b>CDP16-FBP.150</b>	Connection cable (female/open end), shielded, length 1.5 m	<b>1SAJ 929 150 R0015</b>	1	0.20



CDP15-FBP

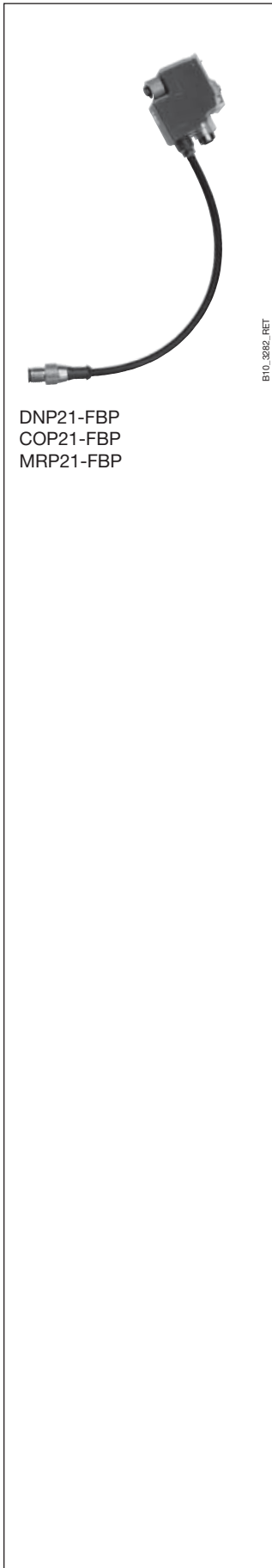
ST04801



CDP16-FBP

ST05301

Note: Refer to page 9/15 for system accessories and documentation.



#### DeviceNet FieldBusPlug

Ready-made DeviceNet fieldbus interface with various cable lengths.

- Applicable with all FBP motor starters and other terminal devices
- Data transfer rate up to 500 kbit/s
- Degree of protection: IP65
- Diagnostic LED
- Approvals: CE, cUL (applied for)

Type	Designation	Cable length	Order code		Pack. size	Weight p. pc. kg
<b>DNP21-FBP.025</b>	DeviceNet FBP	0.25 m	<b>1SAJ 230 000 R1003</b>		1	0.09
<b>DNP21-FBP.050</b>	DeviceNet FBP	0.50 m	<b>1SAJ 230 000 R1005</b>		1	0.10
<b>DNP21-FBP.100</b>	DeviceNet FBP	1.00 m	<b>1SAJ 230 000 R1010</b>		1	0.13
<b>DNP21-FBP.500</b>	DeviceNet FBP	5.00 m	<b>1SAJ 230 000 R1050</b>		1	0.36

#### CANopen® FieldBusPlug

Ready-made CANopen® fieldbus interface with various cable lengths.

- Applicable with all FBP motor starters and other terminal devices
- Data transfer rate up to 500 kbit/s
- Degree of protection: IP65
- Diagnostic LED
- Approvals: CE, cUL (applied for)

Type	Designation	Cable length	Order code		Pack. size	Weight p. pc. kg
<b>COP21-FBP.025</b>	CANopen FBP	0.25 m	<b>1SAJ 230 100 R1003</b>		1	0.09
<b>COP21-FBP.050</b>	CANopen FBP	0.50 m	<b>1SAJ 230 100 R1005</b>		1	0.10
<b>COP21-FBP.100</b>	CANopen FBP	1.00 m	<b>1SAJ 230 100 R1010</b>		1	0.13

#### Modbus-RTU FieldBusPlug

Ready-made Modbus-RTU fieldbus interface with various cable lengths.

- Applicable with all FBP motor starters and other terminal devices
- Data transfer rate up to 57.6 kbit/s
- Degree of protection: IP65
- Diagnostic LED
- Approvals: CE, cUL (applied for)

Type	Designation	Cable length	Order code		Pack. size	Weight p. pc. kg
<b>MRP21-FBP.025</b>	Modbus-RTU FBP	0.25 m	<b>1SAJ 250 000 R0003</b>		1	0.09
<b>MRP21-FBP.050</b>	Modbus-RTU FBP	0.50 m	<b>1SAJ 250 000 R0005</b>		1	0.10
<b>MRP21-FBP.100</b>	Modbus-RTU FBP	1.00 m	<b>1SAJ 250 000 R0010</b>		1	0.13
<b>MRP21-FBP.500</b>	Modbus-RTU FBP	5.00 m	<b>1SAJ 250 000 R0050</b>		1	0.36



## Accessories for DeviceNet, CANopen®, Modbus-RTU bus connection

### Round cables for bus junctions

Ready-made bus cable for bus junctions, one cable end open

Type	Round cables for bus junctions	Cable length	Order code	Pack. size	Weight p. pc. kg
<b>DNF11-FBP.050</b>	Round cable with female plug	0.50 m	<b>1SAJ 923 002 R0005</b>	1	0.04
<b>DNM11-FBP.050</b>	Round cable with male plug	0.50 m	<b>1SAJ 923 003 R0005</b>	1	0.04

### Round cables for bus extension

Ready-made bus cable  
 – Round cable with female and male M12 plug (DNX11-FBP.xxx)  
 – Round cable on coil (DNC11-FBP.999)

Type	PROFIBUS extension cable	Cable length	Order code	Pack. unit	Weight p. pc. kg
<b>DNX11-FBP.100</b>	Ready-made cable	1.00 m	<b>1SAJ 923 001 R0010</b>	1	0.08
<b>DNX11-FBP.300</b>	Ready-made cable	3.00 m	<b>1SAJ 923 001 R0030</b>	1	0.20
<b>DNX11-FBP.500</b>	Ready-made cable	5.00 m	<b>1SAJ 923 001 R0050</b>	1	0.31
<b>DNC11-FBP.999</b>	Cable on Coil	100.00 m	<b>1SAJ 923 004 R1000</b>	1	5.60

### Accessories for bus extension

Type	Cable connector	Order code	Pack. size	Weight p. pc. kg
<b>DNM11-FBP.0</b>	Male plug for round cable	<b>1SAJ 923 005 R0001</b>	1	0.03
<b>DNF11-FBP.0</b>	Female plug for round cable	<b>1SAJ 923 006 R0001</b>	1	0.03

### Termination resistor

Type	Bus accessories	Order code	Pack. size	Weight p. pc. kg
<b>DNR11-FBP.120</b>	Termination resistor 120 ohms	<b>1SAJ 923 007 R0001</b>	1	0.02



Note: Refer to page 9/15 for system accessories and documentation.

# FBP FieldBusPlug

## System accessories and documentation, ordering data

### Miscellaneous accessories

- Addressing labels for address labelling of FieldBusPlugs.
- Covering caps for protection of open M12 plugs

Type	Designation	Order code	Pack. size	Weight p. unit kg
<b>CAL11-FBP.0</b>	Addressing labels for FieldBusPlugs	<b>1SAJ 929 005 R0001</b>	400	
<b>CCC11-FBP.0</b>	M12 covering caps for FieldBusPlugs	<b>1SAJ 929 006 R0001</b>	10	

### FieldBusPlug power supply unit

Supply voltage: 90...260 V AC, 47...63 Hz.  
Adjustable output voltage: 23...28 V DC, 5 A.

Type	Designation	Order code	Pack. size	Weight p. pc. kg
<b>CP-E 24/2.5</b>	Power supply unit 24 V / 2.5 A	<b>1SVR 427 032 R0000</b>	1	0.36
<b>CP-S 24/5.0</b>	Power supply unit 24 V / 5 A	<b>1SVR 427 014 R0000</b>	1	0.58

For technical data, please refer to chapter 5, Electronic Relays, Converters, Power Supplies.

### Accessories for installation inside control cabinet drawer systems

Fixing brackets for passive plug and FBP passive cables for installation of FBP terminal devices in drawer systems.

Type	Designation	Cable length	Order code	Pack. size	Weight p. unit kg
<b>CDP11-FBP.0</b>	Passive plug fixing bracket for drawer systems		<b>1SAJ 929 100 R0001</b>	50	0.50
<b>CDP11-FBP.4</b>	Passive plug fixing bracket for drawer systems		<b>1SAJ 929 100 R0004</b>	4	0.04
<b>CDP12-FBP.100</b>	Passive cable for drawer systems (outside)	1.00 m	<b>1SAJ 929 120 R0001</b>	1	0.20
<b>CDP13-FBP.100</b>	Passive cable for drawer systems (inside)	1.00 m	<b>1SAJ 929 110 R0001</b>	1	0.31

### FieldBusPlug system documentation

Complete system documentation for planning and project planning.  
Technical data, software, CAD symbols, examples, FAQs.

Type	Designation	Language	Order code	Pack. size	Weight p. pc. kg
<b>FieldBusPlug documentation</b>	CD-ROM version	German English	<b>2CDC 190 008 E04xx</b>	1	0.01



CP-E 24/2.5



CP-S 24/5.0



CDP12-FBP



CDP13-FBP

# FBP FieldBusPlug

## FBP terminal device data, overview

### Communicative motor starters with control functions Universal Motor Controller UMC100-FBP / UMC22-FBP



UMC100-FBP

2CDC 341 008 F0009



UMC100-PAN

2CDC 341 008 F0009



UMC22-FBP

2CDC 341 081 F0006



UMC-PAN

2CDC 341 081 F0006

	UMC100-FBP	UMC22-FBP
<b>Main circuit</b>		
Voltage (3-phase system)	1000 V AC (see manual), 45 ... 65 Hz, 3-phase system	
Nominal motor current	0.24 ... 63 A with integrated current transformers, up to 850 A with external current transformers (see page 11)	
Overload protection for 3-phase motors	According to EN/IEC 60947-4-1	
Trip categories (adjustable)	5, 10, 20, 30, 40	5, 10, 20, 30
Extended motor model	Cooling time definition by calculat. or configurat.	
Feed-through holes of internal current transformer	25 mm <sup>2</sup> max. (11 mm max. wire diameter incl. insulation)	
Short-circuit protection	By fuse on line side	
<b>Control voltage circuit</b>		
Supply voltage	24 V DC (+ 30 %, - 20 %, incl. residual ripple)	
Current consumption incl. inputs, relays energized	160 mA max.	
Total power dissipation	3.7 W max.	
Reverse polarity protection	yes	
<b>Inputs/outputs</b>		
Digital inputs	6 inputs 24 V DC	
PTC input	1	1
Digital outputs	3 relay outputs with common supply 1 transistor output 24 V DC, 0.5 A	
Voltage switching capacity	24 V AC/DC ... 250 V AC/DC	
Current switching capacity per relay	240 V AC (AC15) 1.5 A max. 120 V AC (AC15) 3 A max. 250 V DC (DC13) 0.11 A max. 125 V DC (DC 13) 0.22 A max. 24 V DC (DC13) 1 A max.	
Load current via common	I <sub>max</sub> = 6 A gL / gG	
Relay contact lifetime	mechanical lifetime > 5 x 10 <sup>6</sup> switching cycles > 1 x 10 <sup>6</sup> switching cycles at 230 V AC, 0.5 A	
Contact wiring for inductive load	Free-wheeling diode for direct current, varistors/VDRs for alternating current	
<b>Interfaces</b>		
Bus interface	1 (for connection of ABB FieldBusPlug)	
Operating panel interface	1 (for connection of UMC100-PAN operating panel)	1 (for connection of UMC-PAN operating panel)
Interface for I/O expansion	1 (for connection of I/O expansion modules)	
<b>Integrated diagnostic functions</b>		
	Green LED: Device ready for operation Yellow LED: Motor running (motor current > 20 % of nominal current adjusted) Red LED: Error (tripping, failure, ...)	
<b>Further diagnostic functions</b>		
	Operating hours, contactor switching cycles count, tripping events due to overload count	
	Time period since last tripping event	
	Data of last 16 tripping events (analysis via DTM)	Data of last tripping event
	2 warn. limits & 2 tripp. limits selectable	1 warning limit (fixed)
<b>Integrated control functions</b>		
	Direct starting, reverse starting, star-delta starting, pole-changing starting, actuator/servo-drive, transparent mode, emergency start function, stand alone operation (even without bus connection)	
	Time-controlled load shedding in case of voltage dips / configurable starting delay	
<b>Integrated verification functions</b>		
	I/O channel interconnections, fieldbus usage, panel display	
<b>Integrated motor protection functions</b>		
	Overload monitoring, phase failure detection, motor blocking detection, thermal overload monitoring (PTC), earth fault monitoring with sensor CEM11-FBP	
	Configurable checkback time, phase imbalance detection, fast blocking protection during starting	
<b>Parameter setting / configuration</b>		
	Operating panel, fieldbus (FieldBusPlug), DTM (DeviceTypeManager)	
<b>Customer-specific applications</b>		
	Configurable logic	
<b>General data</b>		
Conductor cross section	1 x 2.5 mm <sup>2</sup> or 2 x 1.5 mm <sup>2</sup> max.	
Mounting	On DIN rail or with screws (4 screws M4)	
Dimensions	70 x 105 x 87,5 mm (110 mm incl. operating panel and FBP)	
Weight	0.282 kg	0.390 kg
Degree of protection	IP20	
Temperature range	Storage: - 25 ... + 70 °C Operation: 0 ... + 60 °C      Operation: 0 ... + 55 °C	
<b>Approvals</b>		
	CE, cUL (other approvals in preparation)	CE, UL, GL, CSA, SN, RMRS, CCC
<b>Operating panel (optional)</b>		
	Adjustment and visualization of motor & device data and bus parameters, status indication of digital inputs & outputs, contactor switching cycles and operating hours counting, local operation on site	
	Graphical multilingual user interface: German, English, Spanish	
<b>I/O expansion modules (optional)</b>		
	2 I/O expansion modules	

# FBP FieldBusPlug

## FBP terminal device data, overview

### I/O expansion modules for Universal Motor Controller UMC100-FBP

The I/O expansion modules are exclusively intended to supplement the UMC100-FBP with additional inputs and outputs. Customer-specific adaptations are possible by means of logical interconnection of the I/O channels. The information are available for local functions and via the fieldbus. The PBTDM tool is required for configuration.



DX111-FBP

2CDC341 005 F0089



DX122-FBP

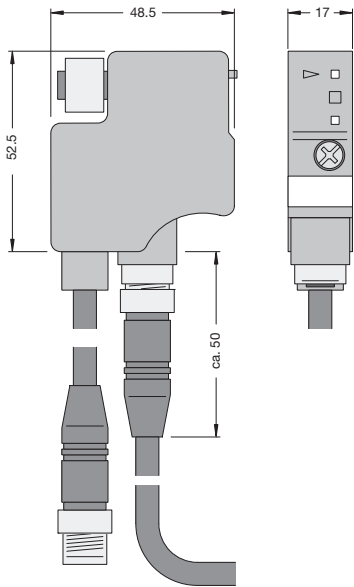
2CDC341 004 F0089

	DX111	DX122
<b>Electrical data</b>		
Supply voltage	24 V DC (+ 30 %, - 20 % = 19.2 ... 31.2 V DC incl. residual ripple)	
Current consumption incl. inputs, relays energized	90 mA max.	
<b>Digital Inputs</b>		
Number of inputs	8 inputs in 2 groups of common reference potential (1 group with 5 inputs, 1 group with 3 inputs) Insulation: Type 1 acc. to EN 61131-1	8 inputs in 2 groups of common reference potential (1 group with 5 inputs, 1 group with 3 inputs) Insulation: Type 2 acc. to EN 61131-1
Input voltage	24 V DC	110 V AC ... 240 V AC
Input delay	4 ms typ.	20 ms typ.
Signal levels 0 state 1 state	- 31.2 ... + 5 V + 15 ... + 31.2 V	0 ... 40 V AC 74 ... 265 V AC
ON current per channel	6.0 mA typ. (24 V DC)	10.0 mA typ. (230 V AC)
Input resistance against 0 V	3.9 kΩ	
Frequency range		45 ... 65 Hz
<b>Digital outputs</b>		
Number of outputs	4 relay outputs with 2 common supplies (1DO0 & 1DO1 by 1DOC; 2DO2 & 2DO3 by 2DOC)	
Voltage switching capacity	12 ... 250 V AC/DC	
Load current via common	I <sub>max</sub> = 6 A gL / gG	
Minimum load for proper switching	1 W or 1 VA	
Contact wiring for inductive load	Free-wheeling diode for direct current, varistors/VDRs for alternating current	
Current switching capacity per relay	EN 60947-5-1	
240 V AC (AC15)	1.5 A max.	
120 V AC (AC15)	3 A max.	
250 V DC (DC13)	0.11 A max.	
125 V DC (DC13)	0.22 A max.	
24 V DC (DC13)	1 A max.	
Relay contact lifetime	mechanical lifetime > 5 x 10 <sup>6</sup> switching cycles > 1 x 10 <sup>6</sup> switching cycles at 250 V AC, 0.5 A > 0.5 x 10 <sup>6</sup> switching cycles at 250 V AC, 1.5 A	
<b>Analog output</b>		
Number of analog outputs	1	
Connection type	2-wire, for motor current indication on an external analog instrument	
Output ranges	Configurable: 0/4 ... 20 mA or 0 ... 10 V	
Cable specification	< 30 m outside the control cabinet; > 30 m if shielded	
Max. output voltage	10 V	
Accuracy	< 5 %	
Output load	500 Ω max., if configured for 0/4 ... 20 mA output; 1 kΩ min., if configured for 0 ... 10 V output	
Resolution	8 bits	
Short-circuit detection	Yes, if configured for 0 ... 10 V output	
Wire break detection	Yes, if configured for 0/4 ... 20 mA output	
Insulation	none	
<b>Interfaces</b>		
Interface for I/O expansion	1 (for connection to UMC100-FBP or I/O expansion modules)	
<b>Integrated diagnostic functions</b>		
Green LED: Device ready for operation Yellow LED: Wire break or short circuit indication Red LED: Error (loss of communication, failure, ...)		
<b>General data</b>		
Conductor cross section	1 x 1.5 mm <sup>2</sup> or 2 x 0.75 mm <sup>2</sup> max.	
Mounting	Snap-on mounting on DIN rail, any mounting position	
Dimensions	45 x 77 x 100 mm (without communication plug)	
Weight	0.220 kg	
Degree of protection	IP20	
Temperature range	Storage: - 25 ... + 70 °C Operation: 0 ... + 60 °C   Operation: 0 ... + 55 °C	
<b>Approvals</b>		
CE, cUL (other approvals in preparation)		

# FBP FieldBusPlug Dimensional drawings

Dimensions in mm

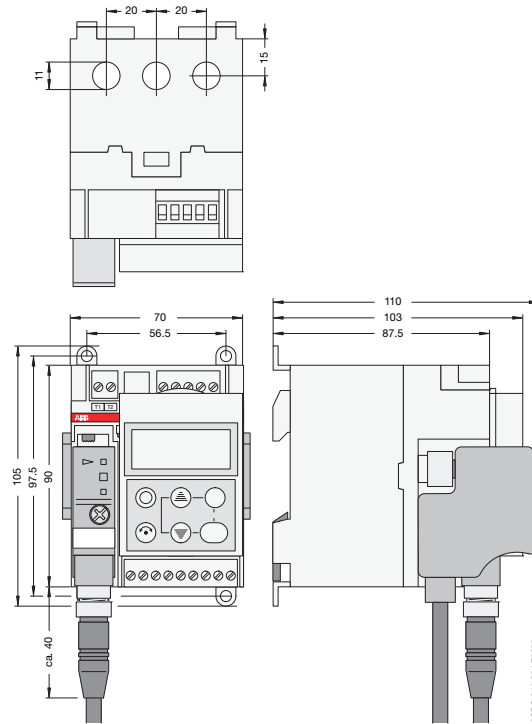
## FieldBusPlugs and accessories



ASI-FBP-Plug\_Massbild

PDP22-FBP, DNP21-FBP, COP21-FBP, MRP21-FBP

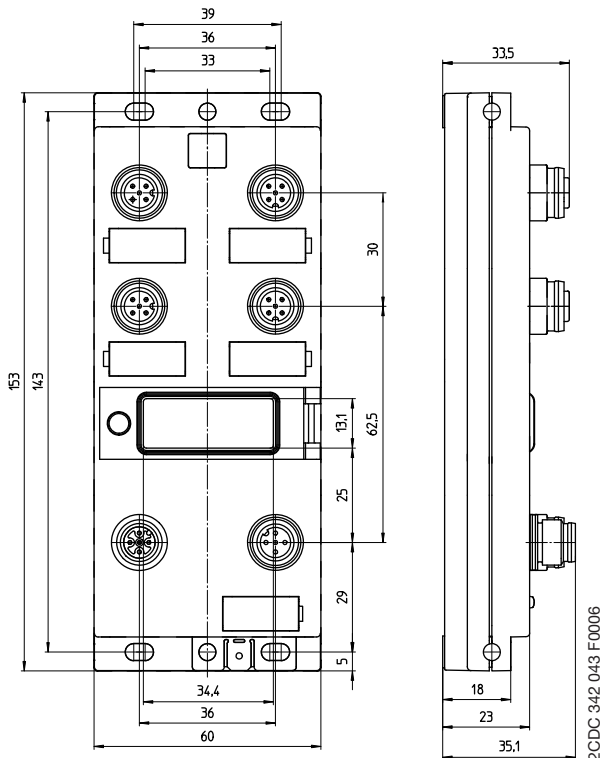
## Communicative motor starters with control functions



2CDC 342 041 F0006

Universal Motor Controller UMC100-FBP / UMC22-FBP

## PROFIBUS DP FieldBusPlug for 4 FBP devices



2CDC 342 043 F0006

PDQ22-FBP

PROFIBUS DP (V0/V1)  
Node for 4 FBP subscribers

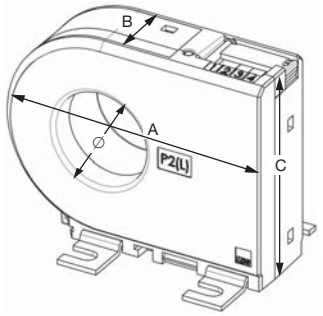
# FBP FieldBusPlug

## Dimensional drawings

### Accessories

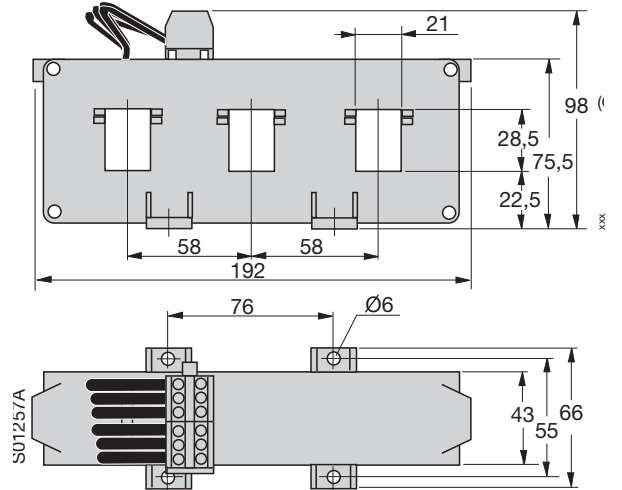
Dimensions in mm

#### Earth fault monitor for use with Universal Motor Controller UMC100-FBP / UMC22-FBP

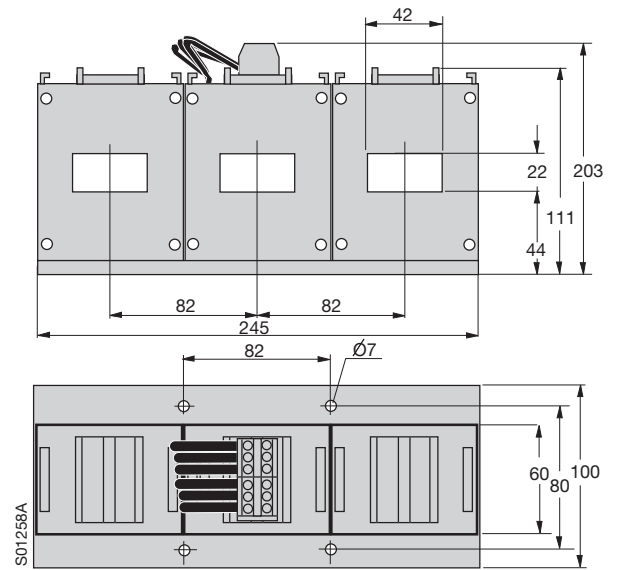


Type	W (A)	D (B)	H (C)	∅
CEM11-FBP.20	76	31	56	20
CEM11-FBP.35	100	31	79	35
CEM11-FBP.60	135	38	116	60
CEM11-FBP.120	210	38	190	120

#### Current transformer for use with Universal Motor Controller UMC100-FBP / UMC22-FBP



KORC 4L185 R/4, KORC 4L310 R/4



KORC 5L500 R/4, KORC 5L850 R/4

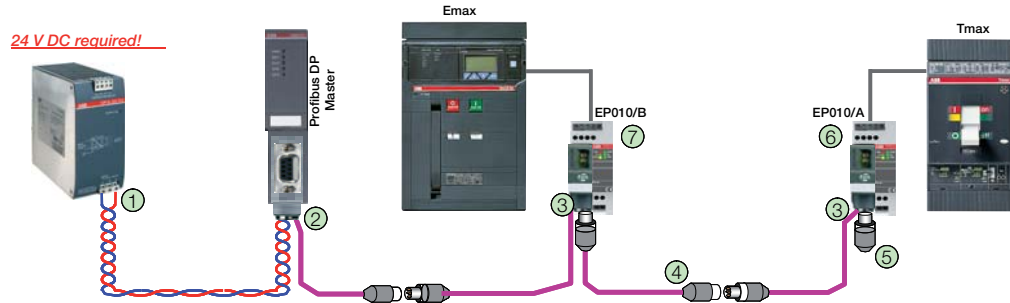
# FBP FieldBusPlug

## Configuration examples for the integration of other terminal devices to the FieldBusPlug system

### Communicative power circuit breakers Tmax and Emax

FBP interface module EP010 for connection to FieldBusPlug connector.  
For technical details, please refer to chapter 11, Circuit Breakers.

#### PROFIBUS line with power circuit breaker and EP010

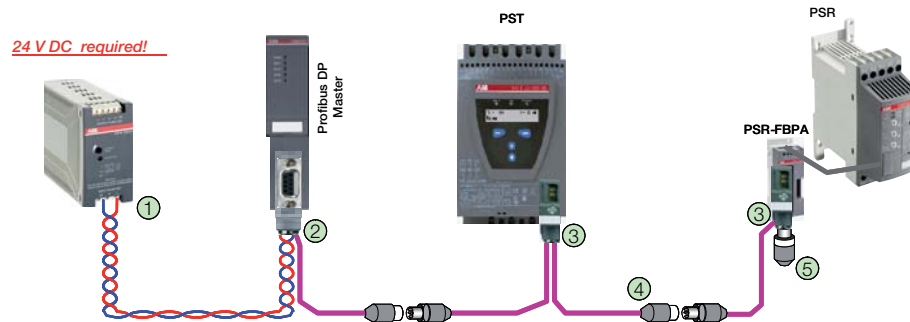


1	Power supply unit 110 ... 240 V AC/24 V DC, 10 A	CP-S 24/10.0	1SVR 427 015 R0100
2	Adapter SubD-9 - M12 (A-coded)	PDA11-FBP.050	1SAJ 924 009 R0005
3	FieldBusPlug PROFIBUS DP V0/V1 (0.25 m ... 5 m)	PDP22-FBP.025 PDP22-FBP.050 PDP22-FBP.100 PDP22-FBP.200 PDP22-FBP.500	1SAJ 240 100 R1003 1SAJ 240 100 R1005 1SAJ 240 100 R1010 1SAJ 240 100 R1020 1SAJ 240 100 R1050
4	PROFIBUS DP extension cable (0.50 m ... 5.00 m)	PDX11-FBP.050 PDX11-FBP.100 PDX11-FBP.300 PDX11-FBP.500	1SAJ 924 001 R0005 1SAJ 924 001 R0010 1SAJ 924 001 R0030 1SAJ 924 001 R0050
5	Line termination 150 ohms	PDR11-FBP.150	1SAJ 924 007 R0001
6	Communication interface type A (Tmax: T4, T5, T6)	EP010	1SDA 059 469 R0001
7	Communication interface type B (Emax, Tmax: T7)	EP010	1SDA 060 198 R0001

### Communicative soft starters PST/PSR

Compact device with fieldbus-neutral interface for connection to FieldBusPlug connector.  
For technical details, please refer to chapter 3, Soft Starters.

#### PROFIBUS line with soft starter



1	Power supply unit 100 .. 240 V AC/24 V DC, 1.25 A	CP-E 24/1.25	1SVR 427 031 R0000
2	Adapter SubD-9 - M12 (A-coded)	PDA11-FBP.050	1SAJ 924 009 R0005
3	FieldBusPlug PROFIBUS DP V0/V1 (0.25 m ... 5 m)	PDP22-FBP.025 PDP22-FBP.050 PDP22-FBP.100 PDP22-FBP.200 PDP22-FBP.500	1SAJ 240 100 R1003 1SAJ 240 100 R1005 1SAJ 240 100 R1010 1SAJ 240 100 R1020 1SAJ 240 100 R1050
4	PROFIBUS DP extension cable (0.50 m ... 5.00 m)	PDX11-FBP.050 PDX11-FBP.100 PDX11-FBP.300 PDX11-FBP.500	1SAJ 924 001 R0005 1SAJ 924 001 R0010 1SAJ 924 001 R0030 1SAJ 924 001 R0050
5	Line termination 150 ohms	PDR11-FBP.150	1SAJ 924 007 R0001



Tmax T4/T5



Emax



EP010



PST



PSR



# FBP FieldBusPlug

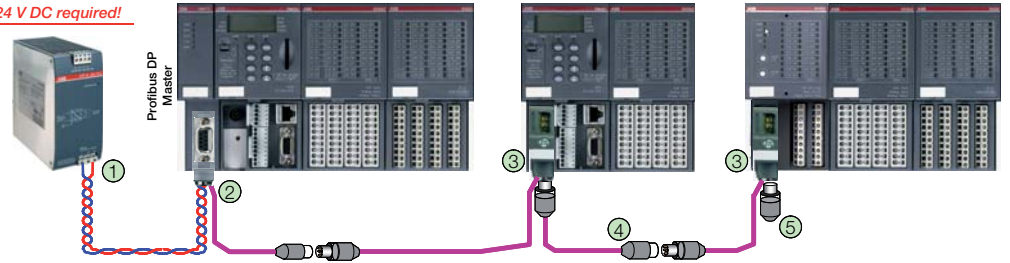
## Configuration examples for the integration of other terminal devices to the FieldBusPlug system

### AC500 automation devices connected via PROFIBUS DP

Automation device with fieldbus-neutral interface for connection to FieldBusPlug connector. For technical details, please refer to chapter 8, Automation Devices.

PROFIBUS line with intelligent and non-intelligent decentralized AC500 I/O devices

24 V DC required!



AC500



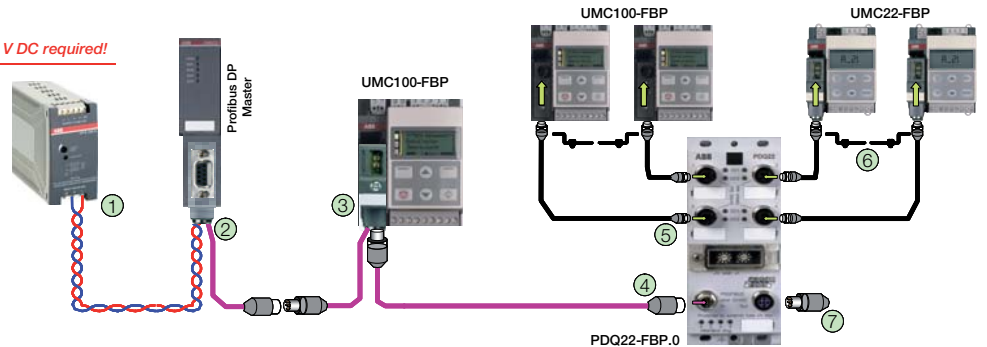
S500

1	Power supply unit 110 ... 240 V AC/24 V DC, 10 A	CP-S 24/10.0	1SVR 427 015 R0100
2	Adapter SubD-9 - M12 (A-coded)	PDA11-FBP.050	1SAJ 924 009 R0005
3	FieldBusPlug PROFIBUS DP V0/V1 (0.25 m ... 5 m)	PDP22-FBP.025	1SAJ 240 100 R1003
		PDP22-FBP.050	1SAJ 240 100 R1005
		PDP22-FBP.100	1SAJ 240 100 R1010
		PDP22-FBP.200	1SAJ 240 100 R1020
	PDP22-FBP.500	1SAJ 240 100 R1050	
4	PROFIBUS DP extension cable (0.50 m ... 5.00 m)	PDX11-FBP.050	1SAJ 924 001 R0005
		PDX11-FBP.100	1SAJ 924 001 R0010
		PDX11-FBP.300	1SAJ 924 001 R0030
		PDX11-FBP.500	1SAJ 924 001 R0050
5	Line termination 150 ohms	PDR11-FBP.150	1SAJ 924 007 R0001

### Several Universal Motor Controllers connected to one PROFIBUS DP node

Up to 4 FBP devices can be connected to one PROFIBUS DP distributor. The fieldbus-neutral interface of each FBP device is connected to the fieldbus-neutral interface of the distributor. For technical details, please refer to chapter 9, FieldBusPlug.

24 V DC required!



UMC100-FBP  
DX122-FBP



PDQ22-FBP

1	Power supply unit 110 ... 240 V AC/24 V DC, 2.5 A	CP-E 24/2.5	1SVR 427 032 R0000
2	Adapter SubD-9 - M12 (A-coded)	PDA11-FBP.050	1SAJ 924 009 R0005
3	FieldBusPlug PROFIBUS DP V0/V1 (0.25 m ... 5 m)	PDP22-FBP.025	1SAJ 240 100 R1003
		PDP22-FBP.050	1SAJ 240 100 R1005
		PDP22-FBP.100	1SAJ 240 100 R1010
		PDP22-FBP.200	1SAJ 240 100 R1020
	PDP22-FBP.500	1SAJ 240 100 R1050	
4	PROFIBUS DP extension cable (0.50 m ... 5.00 m)	PDX11-FBP.050	1SAJ 924 001 R0005
		PDX11-FBP.100	1SAJ 924 001 R0010
		PDX11-FBP.300	1SAJ 924 001 R0030
		PDX11-FBP.500	1SAJ 924 001 R0050
5	Connection cable (0.30 m ... 1.50 m)	CDP15-FBP.030	1SAJ 929 140 R0003
		CDP15-FBP.060	1SAJ 929 140 R0006
		CDP15-FBP.150	1SAJ 929 140 R0015
6	Fixing bracket for passive plug	CDP11-FBP.0	1SAJ 929 100 R0001
7	Line termination 150 ohms	PDR11-FBP.150	1SAJ 924 007 R0001

# FBP FieldBusPlug

## Configuration examples for the integration of Universal Motor Controllers into MCCs

### Universal Motor Controllers in Motor Control Centers (MCCs)

Components for installation of Universal Motor Controllers UMC100-FBP or UMC22-FBP to an MCC using drawer systems. Configurations with up to four controllers connected to one PROFIBUS DP node are supported.



Motor management  
UMC100-FBP

2CDC341.003 F0009



Operating panel  
UMC100-PAN

2CDC341.008 F0009



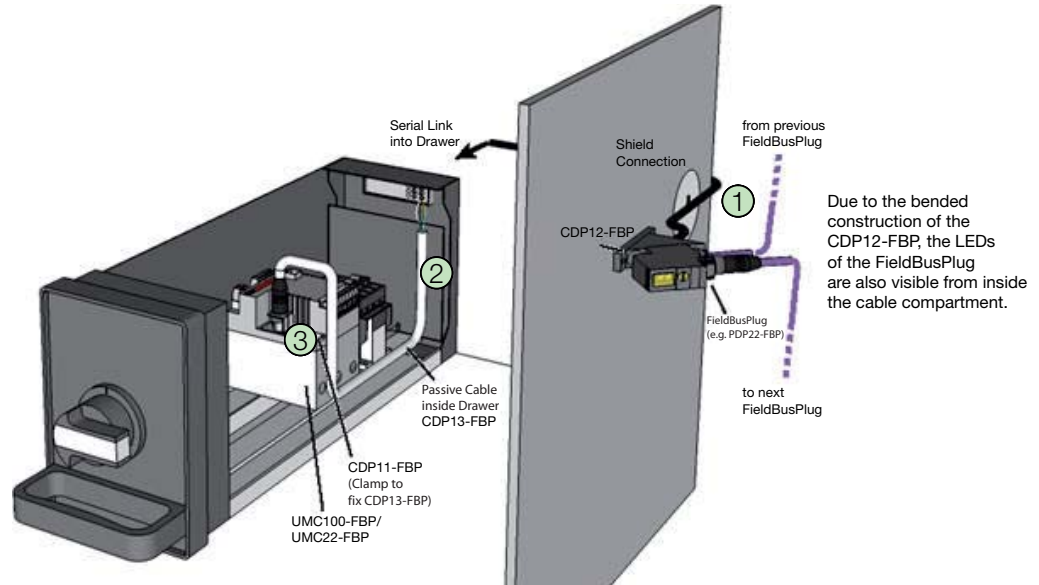
Universal Motor Controller  
UMC22-FBP

2CDC341.001 F0008

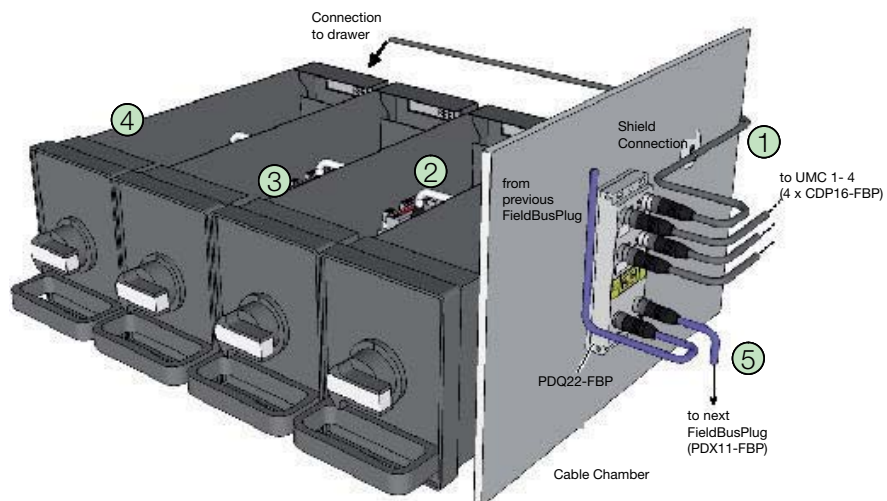


PDQ22-FBP

2CDC341.048 F0006



1	Passive cable for drawer systems (outside)	CDP12-FBP.100	1SAJ 929 120 R0001
2	Passive cable for drawer systems (inside)	CDP13-FBP.100	1SAJ 929 110 R0001
3	Fixing bracket for passive plug	CDP11-FBP.0	1SAJ 929 100 R0001



1	Connection cable, one end open, 1.50 m	CDP16-FBP.150	1SAJ 929 150 R0015
2	Passive cable for drawer systems (inside)	CDP13-FBP.100	1SAJ 929 110 R0001
3	Fixing bracket for passive plug	CDP11-FBP.0	1SAJ 929 100 R0001
4	Extension cable for operating panel, 0.70 m	UMC-CAB.070	1SAJ 510 003 R0001
5	PROFIBUS DP extension cable (0.50 m ... 5.00 m)	PDX11-FBP.050 PDX11-FBP.100 PDX11-FBP.300 PDX11-FBP.500	1SAJ 924 001 R0005 1SAJ 924 001 R0010 1SAJ 924 001 R0030 1SAJ 924 001 R0050

<sup>1)</sup> No. 4 only necessary when using an operating panel!

# FBP FieldBusPlug

## Configuration examples for the integration of third-party terminal devices to the FieldBusPlug system

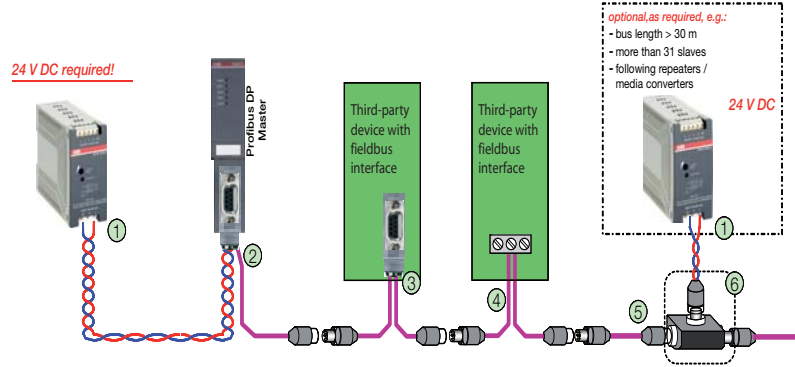
### Integration of third-party fieldbus components to the FBP system

Configuration of a PROFIBUS DP bus line consisting of FieldBusPlug components and third-party devices with different connection types.



UMC100-FBP  
DX122-FBP

2CDC-345 011 F0009



1	Power supply unit 110 ... 240 V AC/24 V DC, 2.5 A	CP-E 24/2.5	1SVR 427 032 R0000
2	Adapter SubD-9 - M12 (A-coded)	PDA11-FBP.050	1SAJ 924 009 R0005
3	Adapter M12 - SubD-9 - M12 (A/A-coded)	PDA12-FBP.050	1SAJ 924 010 R0005
4	Round cable with female plug, length 0.50 m Round cable with male plug, length 0.50 m	PDF11-FBP.050 PDM11-FBP.050	1SAJ 924 002 R0005 1SAJ 924 003 R0005
5	PROFIBUS DP extension cable (0.50 m ... 5.00 m)	PDX11-FBP.050 PDX11-FBP.100 PDX11-FBP.300 PDX11-FBP.500	1SAJ 924 001 R0005 1SAJ 924 001 R0010 1SAJ 924 001 R0030 1SAJ 924 001 R0050
6	Feeding connector 24 V DC (A-coded)	PDV12-FBP.0	1SAJ 924 011 R0001

# FBP FieldBusPlug

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