

4 MOVIFIT® MC / SC / FC

4.1 MOVIFIT® MC for controlling MOVIMOT® drives

The following figure shows a MOVIFIT® MC with assigned MOVIMOT® helical gearmotors:



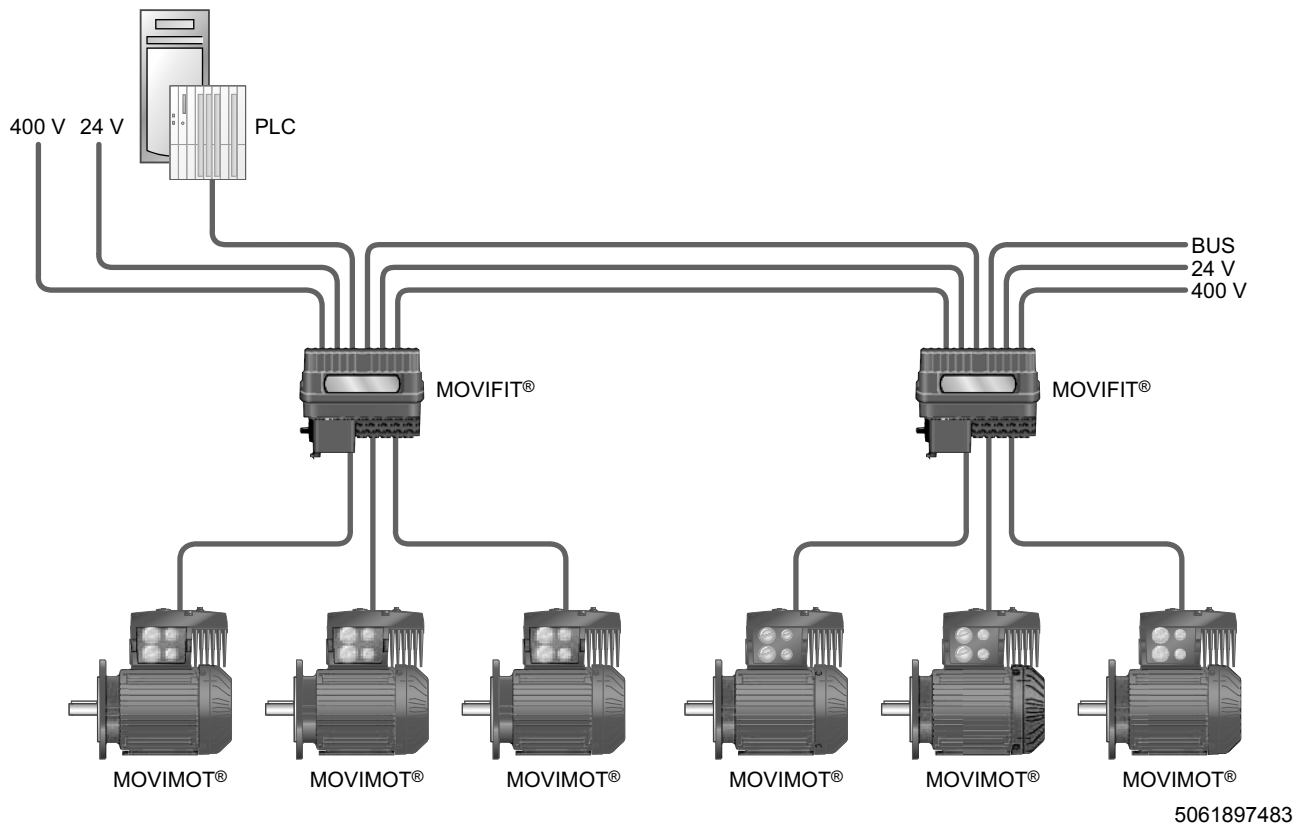
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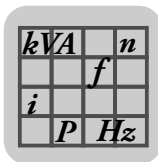
4.1.1 MOVIFIT® MC characteristics

- Up to three MOVIMOT® drives can be connected via hybrid cable
- Voltage range 3 x 380 – 500 V
- Integrated power distribution and line protection
- Available fieldbus interfaces
 - PROFIBUS
 - PROFINET
 - DeviceNet
 - EtherNet/IP
 - Modbus/TCP
- Maintenance switch
- "Safe torque off" STO function
 - Performance level d according to EN ISO 13849-1
 - Stop categories 0 and 1 according to EN 60204-1 (stop category 1 only in combination with external safety device)
- Optional PROFIsafe extension /S11 with 4 x safe inputs and 2 x safe outputs
- 12 binary inputs + 4 binary inputs/outputs
- CAN/SBus interface
- Simple and fast parameter setting via DIP switches or fieldbus

4.1.2 MOVIFIT® MC installation topology

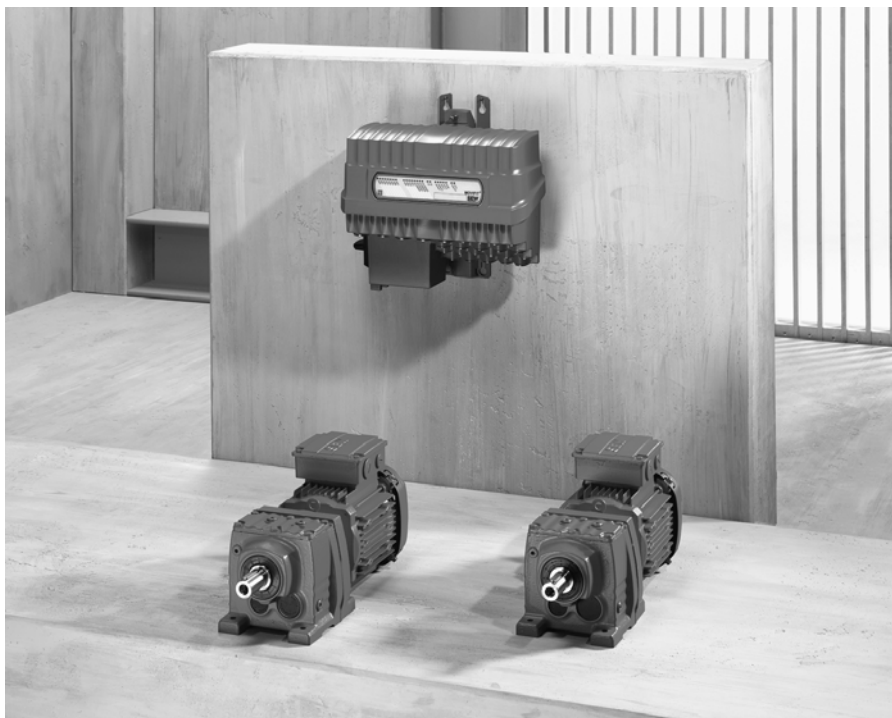
The following figure shows the general installation topology of MOVIFIT® MC with 3 MOVIMOT® drives each:





4.2 MOVIFIT® SC with integrated motor starter

The following figure shows a MOVIFIT® SC unit with assigned helical gearmotors:



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4.2.1 MOVIFIT® SC characteristics

- Electronic (contactless) motor starter
 - When 2 motors are connected (dual-motor starter): one direction of rotation
 - When 1 motor is connected (reversing starter): two directions of rotation
- Power range
 - When 2 motors are connected: 2 x 0.37 – 1.5 kW
 - When 1 motor is connected: 1 x 0.37 – 3.0 kW
- Parameterizable soft startup time
- Voltage range 3 x 380 – 500 V
- Increased safety through three-phase switching
- Integrated energy distribution
- Integrated brake management for SEW three-wire brakes
- Optional maintenance switch
- Available fieldbus interfaces
 - PROFIBUS
 - PROFINET
 - PROFINET POF
 - DeviceNet
 - EtherNet/IP
 - Modbus/TCP

- Optional design without fieldbus interface as SBus slave
- Binary inputs/outputs

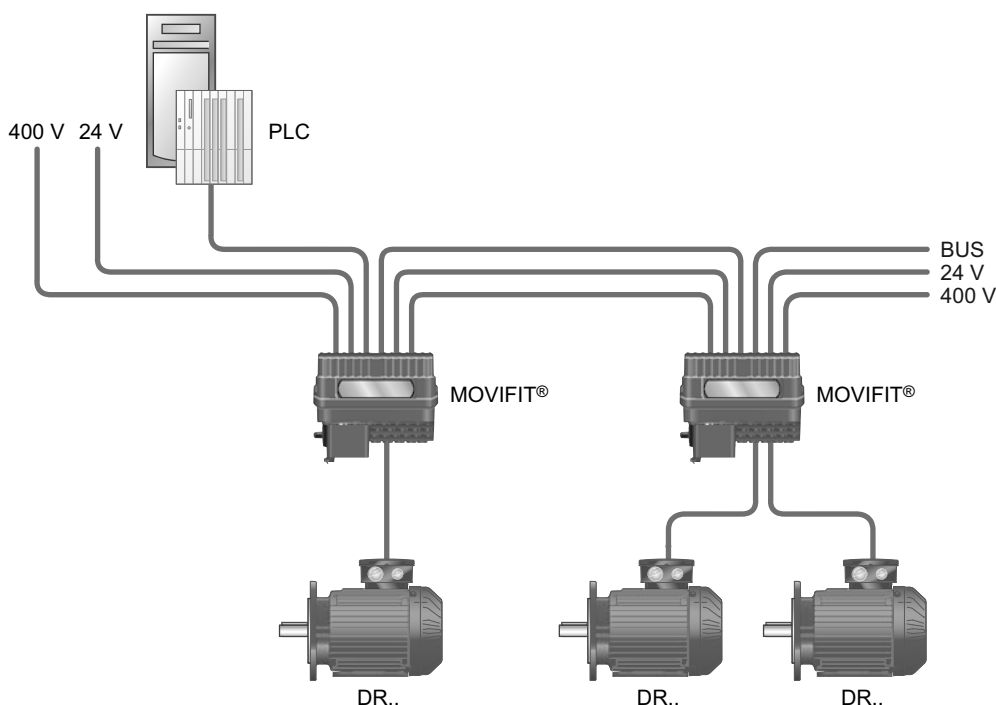
Depends on the unit design, see following table:

Binary inputs/outputs	Function level	Fieldbus interface
12 DI + 4 DI/O	Technology	PROFIBUS DeviceNet PROFINET EtherNet/IP Modbus/TCP
12 DI + 4 DI/O	Classic	PROFINET EtherNet/IP Modbus/TCP
6 DI + 2 DI/O	Classic	PROFIBUS DeviceNet
4 DI	None	SBus slave

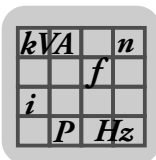
- CAN/SBus interface
- Simple and fast parameter setting via DIP switches (Easy mode)
- Extended parameter setting via fieldbus or diagnostic interface (Expert mode)

4.2.2 MOVIFIT® SC installation topology

The following figure shows the general installation topology of MOVIFIT® SC with AC motor:



5407763979



4.3 **MOVIFIT® FC with integrated frequency inverter**

The following figure shows the MOVIFIT® FC (both sizes) with assigned helical gearmotor:



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4.3.1 **Sizes**

MOVIFIT® FC is available in two sizes, see the following figures:

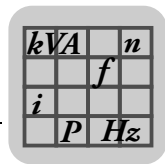
0.37 – 1.5 kW



2.2 – 4 kW



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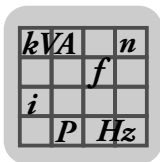
4.3.2 MOVIFIT® FC characteristics

- Parameterizable open-loop frequency inverter
- Power range from 0.37 to 4 kW (in two sizes)
- Voltage range 3 x 380 – 500 V
- Integrated energy distribution
- Integrated brake management
- Optional internal braking resistor (integrated in ABOX)
- Optional external braking resistor
- Optional maintenance switch
- Available fieldbus interfaces
 - PROFIBUS
 - PROFINET
 - PROFINET POF
 - DeviceNet
 - EtherNet/IP
 - Modbus/TCP
- Optional design without fieldbus interface as SBus slave
- Binary inputs/outputs

Depends on the unit design, see following table:

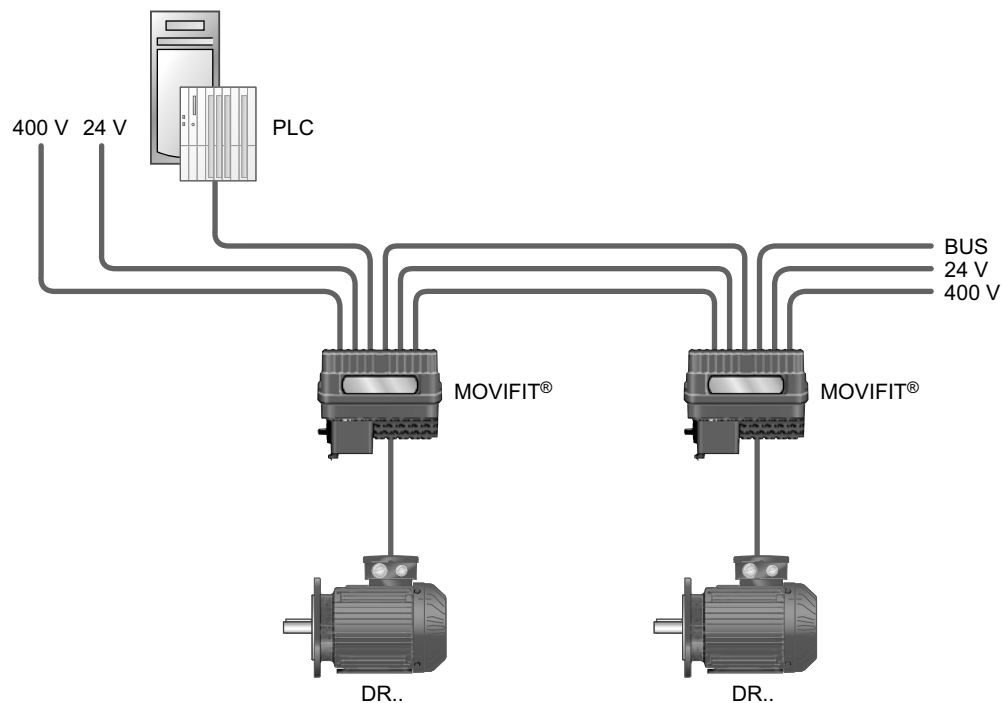
Binary inputs/outputs	Function level	Fieldbus interface
12 DI + 4 DI/O	Technology	PROFIBUS DeviceNet PROFINET EtherNet/IP Modbus/TCP
12 DI + 4 DI/O	Classic	PROFINET EtherNet/IP Modbus/TCP
6 DI + 2 DI/O	Classic	PROFIBUS DeviceNet
4 DI	None	SBus slave

- CAN/SBus interface
- "Safe torque off" STO function
 - Performance level d according to EN ISO 13849-1
 - Stop categories 0 and 1 according to EN 60204-1 (stop category 1 only in combination with external safety device)
- Optional PROFIsafe extension /S11 with 4 x safe inputs and 2 x safe outputs
- Simple and fast parameter setting via DIP switches (Easy mode)
- Extended parameter setting via fieldbus or diagnostic interface (Expert mode)

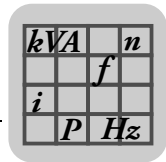


4.3.3 MOVIFIT® FC installation topology

The following figure shows the general installation topology of MOVIFIT® FC with AC motor:



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4.4 Functional safety

4.4.1 MOVIFIT® MC and FC – basic functions

Due to the integrated safety concept, suitable MOVIFIT® MC and MOVIFIT® FC units can be safely disconnected via the 24V_P supply voltage.

This includes the function:

- STO = Safe Torque Off according to EN 61800-5-2 with fail-safe protection against restart according to EN 1037.

In addition to that, a suitable external device (e.g. safety controller) can be used to realize stop category 1 according to EN 60204-1.

The safety function of MOVIFIT® MC and FC is suitable for safety-related applications up to PL d according to EN ISO 13849-1.

4.4.2 Extended safety functionality with PROFIsafe option /S11

For MOVIFIT® MC and MOVIFIT® FC in connection with the PROFIsafe option S11, the STO safety function can also be controlled via PROFIsafe as an option on the basis of the fundamental functions.

The safety-related PROFIsafe communication with the higher-level safety controller can be realized via PROFIBUS or PROFINET.

In addition to that, the S11 option has the following safe inputs/outputs:

- 4 safe inputs (F-DI) for connecting up to 4 sensors
- 2 safe outputs (F-DO), each with 2 pins, designed as P-M switch, for connecting up to 2 actuators

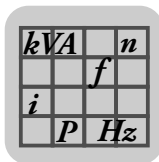
The safe inputs/outputs of the PROFIsafe option S11 are suitable for safety-related applications up to SIL3 according to EN 61508 and Performance Level e according to EN ISO 13849-1.

The drive safety function (STO) is suitable for safety-related applications up to PL d according to EN ISO 13849-1.

INFORMATION



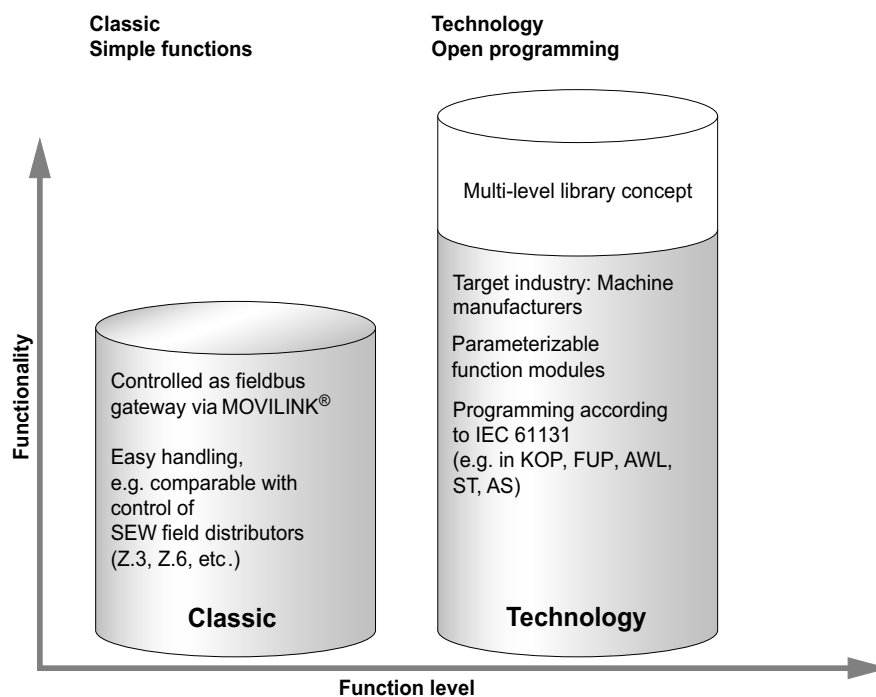
Only those components may be installed in safety applications that are market with the FS logo for functional safety. For unit combinations without FS logo (consisting of individual EBOX and ABOX), the safety function must be described in the documentation.



4.5 Function level

The function level describes the functions included in the for MOVIFIT® software regarding operation, plant control and diagnostics.

The following figure gives an overview of the MOVIFIT® function levels:



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INFORMATION

For detailed information about the MOVIFIT® function levels, refer to the fieldbus-specific manuals:

- "MOVIFIT® Function Level Classic .." manual
- "MOVIFIT® Function Level Technology .." manual

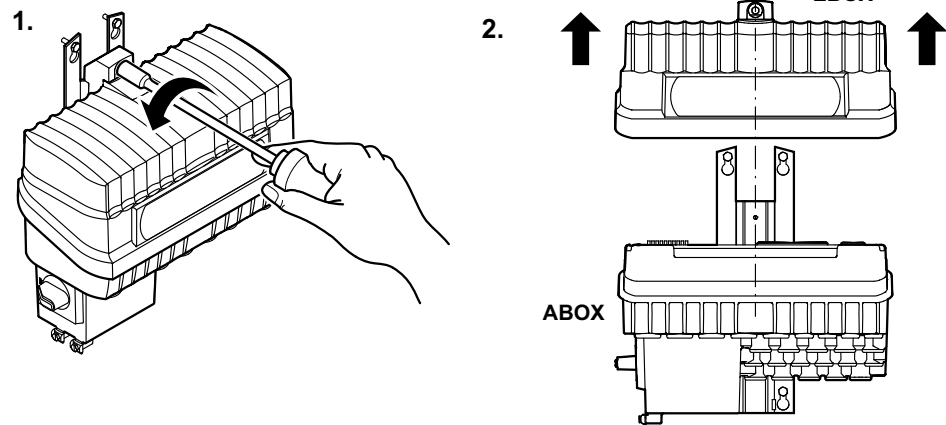
4.6 Type designation and unit concept

4.6.1 Characteristics

MOVIFIT® units have the following characteristics:

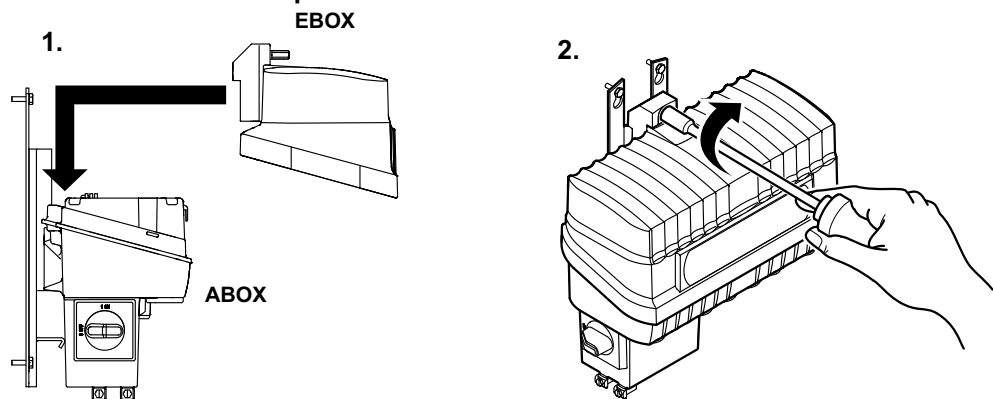
- Aluminum die-cast housing
 - High rigidity
 - IP65 design for industrial requirements
 - Hygienic design with increased degree of protection and special surface treatment for the food industry
- Separation of connection unit (ABOX) and electronics (EBOX)
 - No damage/contamination to the electronics during installation and maintenance
 - The bus address remains the same when the electronics (EBOX) is replaced
 - Data backup of user parameters in the ABOX is possible
 - Fast replacement of electronics without wiring: Only one screw is required to connect the EBOX to the ABOX, see following figures.

Remove EBOX

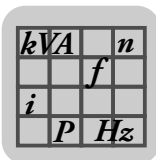


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Place EBOX on top of ABOX and screw it on



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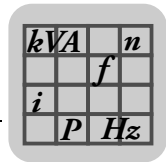


4.6.2 Sample type designation

Example EBOX

MT F 11 A 015 - 50 3 - P1 0 A - 15 / S11

	MOVIFIT® MC	MOVIFIT® SC	MOVIFIT® FC
	EBOX option S11 = PROFIsafe option	EBOX option Not available	EBOX option S11 = PROFIsafe option
	EBOX design	EBOX design	EBOX design 10 = DRS motor 400 V, 50 Hz 11 = DRE motor 400 V, 50 Hz 15 = DRS/DRE 50 – 60 Hz (global motor)
	A = Version	A = Version	A = Version
	Function level 0 = Classic 1 = Technology	Function level 0 = Classic 1 = Technology	Function level 0 = Classic 1 = Technology
	Fieldbus P1 = PROFIBUS D1 = DeviceNet E2 = PROFINET IO E3 = EtherNet/IP, Modbus/TCP Z1 = SBus slave	Fieldbus P1 = PROFIBUS D1 = DeviceNet E2 = PROFINET IO E3 = EtherNet/IP, Modbus/TCP Z1 = SBus slave	Fieldbus P1 = PROFIBUS D1 = DeviceNet E2 = PROFINET IO E3 = EtherNet/IP, Modbus/TCP Z1 = SBus slave
	Connection type -	Connection type 3 = 3-phase	Connection type 3 = 3-phase
	Supply voltage -	Supply voltage 50 = AC 380 – 500 V	Supply voltage 50 = AC 380 – 500 V
	Unit power 000 = MOVIFIT® MC	Unit power 015 = 1.5 kW 030 = 3.0 kW	Unit power 003 = 0.37 kW 005 = 0.55 kW 007 = 0.75 kW 011 = 1.1 kW 015 = 1.5 kW 022 = 2.2 kW 030 = 3.0 kW 040 = 4.0 kW
	Version A	Version A	Version A
	Series 11 = Standard (IP65)	Series 11 = Standard (IP65) 12 = Hygenic ^{plus} (IP69K)	Series 11 = Standard (IP65) 12 = Hygenic ^{plus} (IP69K)
	Unit type M = MOVIFIT® MC (MOVIMOT® control) S = MOVIFIT® SC (motor starter) F = MOVIFIT® FC (frequency inverter)		
	MT = MOVIFIT® unit series		



Example: ABOX

MTA11A-503-S011-M01-00/BW1/L10

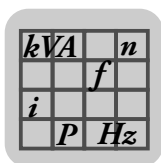
	MOVIFIT® MC	MOVIFIT® SC	MOVIFIT® FC
	-	ABOX option L10 = PROFINET interface SCRJ / POF ¹⁾	ABOX option 2 L10 = PROFINET interface SCRJ / POF ¹⁾
	-	-	ABOX option 1 BW. = Braking resistor
	ABOX design 00 = Series	ABOX design 00 = Series	ABOX design 00 = Series
	Maintenance switch M01 = Load disconnecter and line protection up to 12 A ²⁾ M14 = Load disconnecter and line protection up to 9 A ³⁾ M15 = Load disconnecter and line protection up to 12 A ³⁾	Maintenance switch D01 = Load disconnecter M12 = Load disconnecter and line protection up to 9 A ⁴⁾	Maintenance switch D01 = Load disconnecter M11 = Load disconnecter and line protection up to 4 A ³⁾ M12 = Load disconnecter and line protection up to 9 A ³⁾
	Fieldbus 1 = PROFIBUS 2 = DeviceNet 3 = ETHERNET	Fieldbus 1 = PROFIBUS 2 = DeviceNet 3 = ETHERNET	Fieldbus 1 = PROFIBUS 2 = DeviceNet 3 = ETHERNET
	Connection configuration S01 = Standard S41 = Hybrid S51 = Hybrid S61 = Hybrid I51 = Hybrid G51 = Hybrid I61 = Hybrid G61 = Hybrid	Connection configuration S02 = Standard S42 = Hybrid S52 = Hybrid S53 = Hybrid ¹⁾ S62 = Hybrid I52 = Hybrid G52 = Hybrid I55 = Hybrid G55 = Hybrid I62 = Hybrid G62 = Hybrid I65 = Hybrid G65 = Hybrid	Connection configuration S02 = Standard S42 = Hybrid S52 = Hybrid S53 = Hybrid ¹⁾ S62 = Hybrid I55 = Hybrid G55 = Hybrid I65 = Hybrid G65 = Hybrid
	Connection type 3 = 3-phase	Connection type 3 = 3-phase	Connection type 3 = 3-phase
	Supply voltage 50 = AC 380 – 500 V	Supply voltage 50 = AC 380 – 500 V	Supply voltage 50 = AC 380 – 500 V
	A = Version	A = Version	A = Version
	Series 11 = Standard (IP65)	Series 11 = Standard (IP65) 12 = Hygenic ^{plus} (IP69K)	Series 11 = Standard (IP65) 12 = Hygenic ^{plus} (IP69K)
	Unit type A = ABOX MT = MOVIFIT® series		

1) POF option L10 and connection configuration S53 are only available in combination.

2) In connection with UL, the maintenance switch is only a load disconnecter.

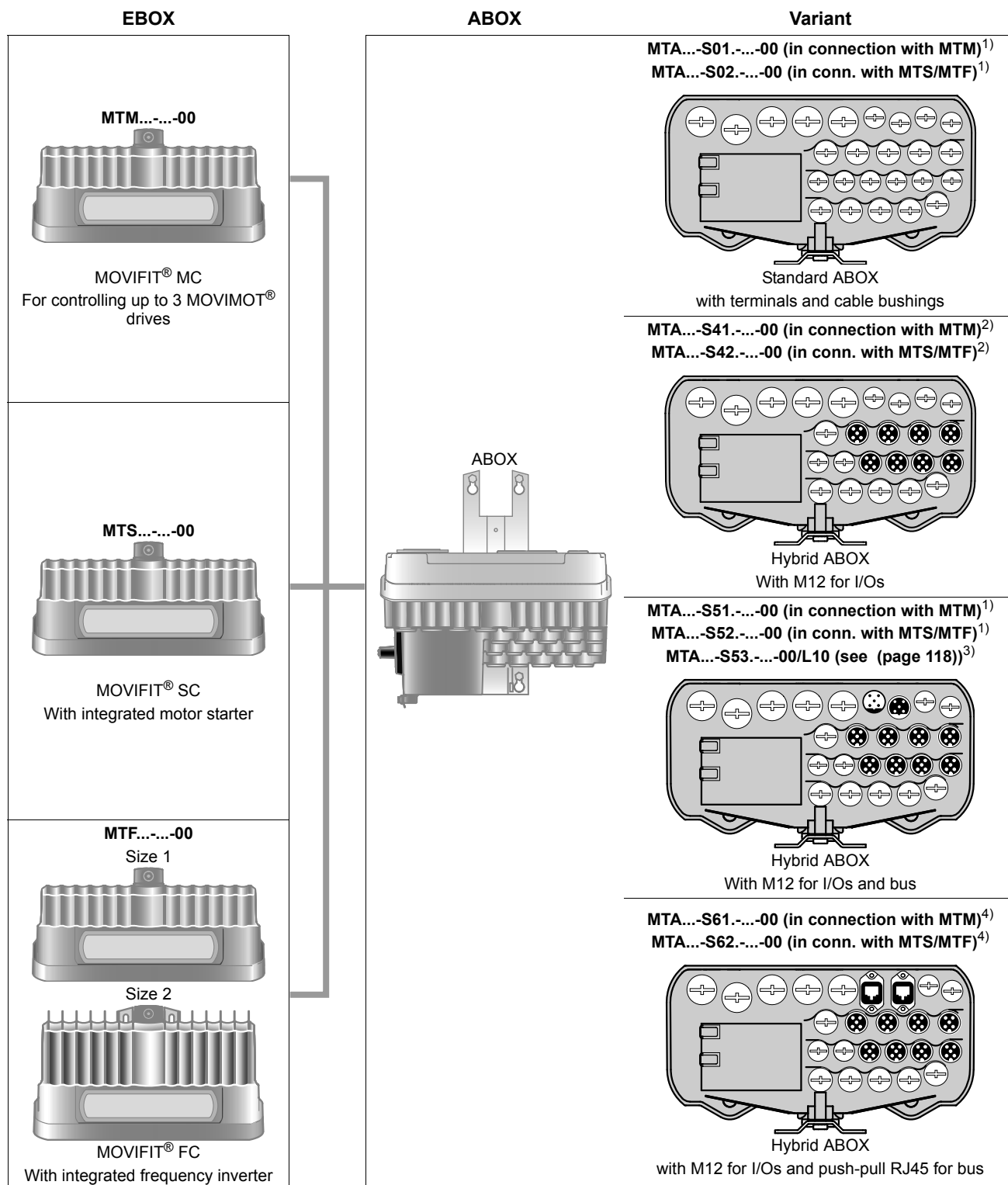
3) Only available in connection with UL

4) For units with UL, the maintenance switch M12 is mandatory.



4.6.3 Combination options with MOVIFIT® MC, SC and FC

The following figures show the MOVIFIT® MC, SC and FC variants:

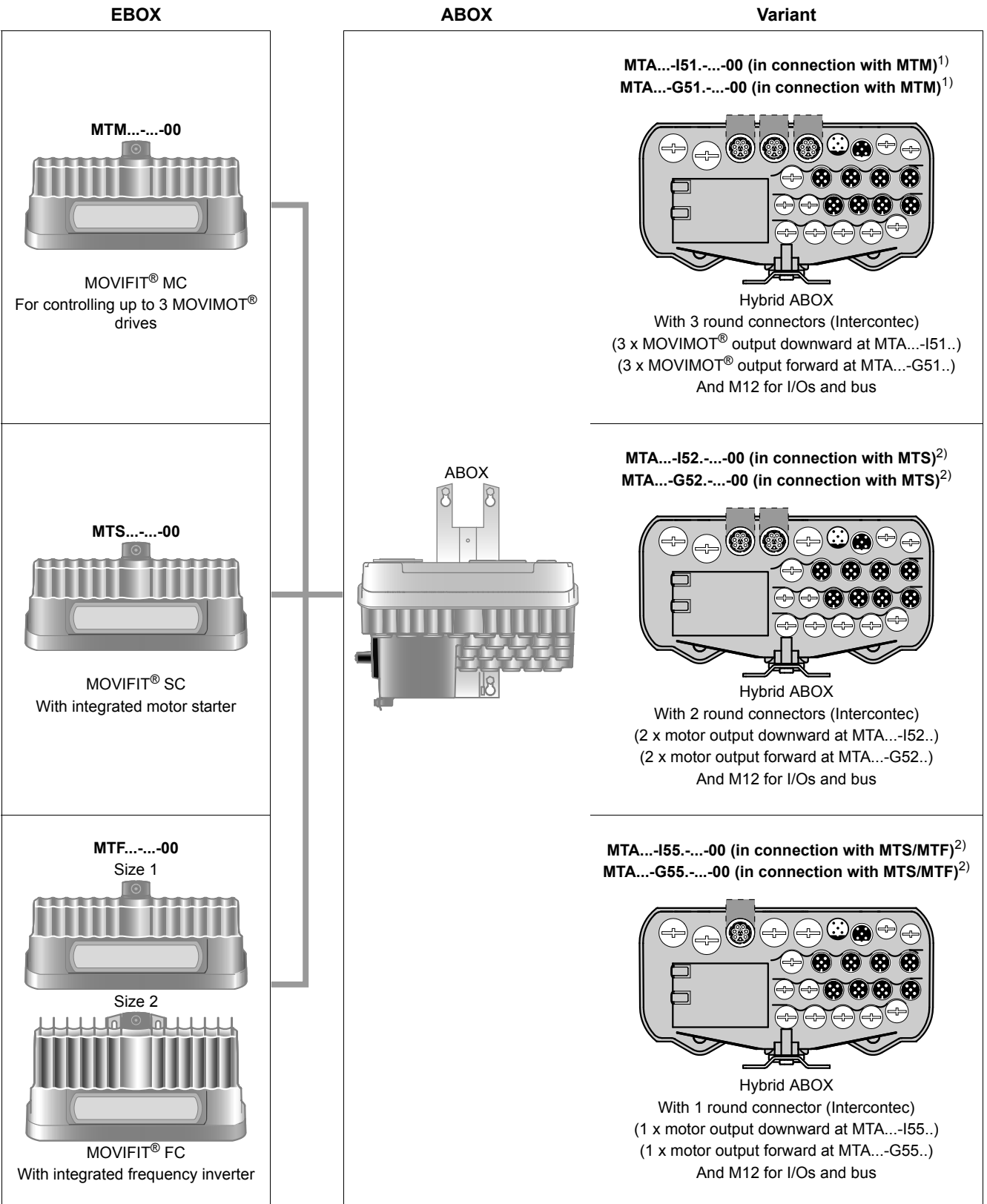


1) In connection with DeviceNet: Micro-style connector for DeviceNet connection

2) Not available in connection with DeviceNet

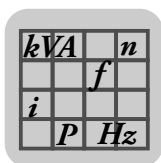
3) Only in connection with MTS/MTF and the PROFINET interface L10 SCRJ / POF. The MTA...-53. ABOX has an additional M12 plug connector to supply the PROFINET interface L10 SCRJ / POF with 24 V.

4) Not available in connection with DeviceNet and PROFIBUS



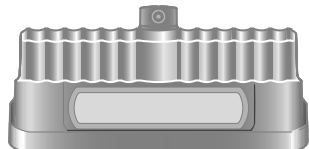
1) In preparation

2) In connection with DeviceNet: Micro-style connector for DeviceNet connection



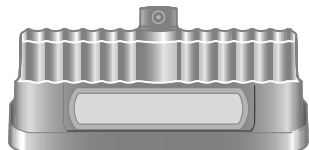
EBOX

MTM...-...-00



MOVIFIT® MC
For controlling up to 3 MOVIMOT® drives

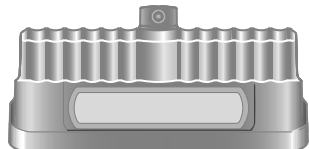
MTS...-...-00



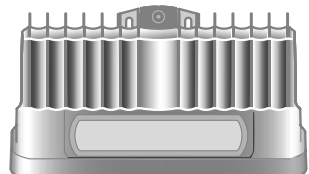
MOVIFIT® SC
With integrated motor starter

MTF...-...-00

Size 1

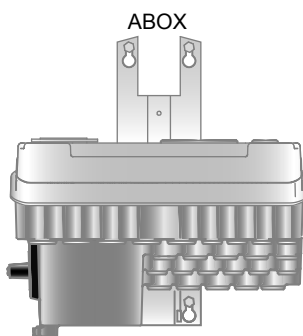


Size 2



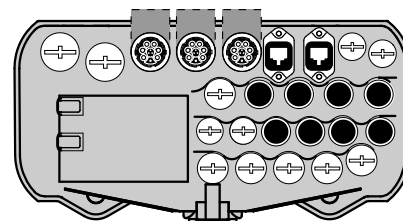
MOVIFIT® FC
With integrated frequency inverter

ABOX



Variant

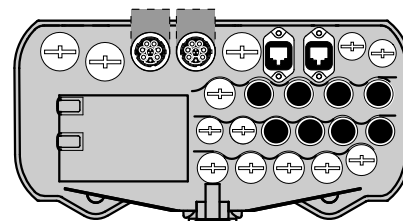
MTA...-I61...-00 (in connection with MTM)^{1) 2)}
MTA...-G61...-00 (in connection with MTM)^{1) 2)}



Hybrid ABOX

With 3 round connectors (Intercontec)
(3 x MOVIMOT® output downward at MTA...-I61...)
(3 x MOVIMOT® output forward at MTA...-G61...)
M12 for I/Os
And push-pull RJ45 for bus

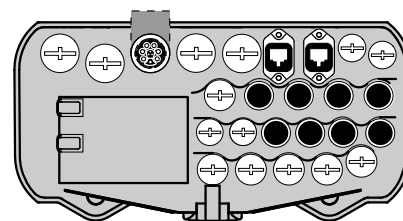
MTA...-I62...-00 (in connection with MTS)²⁾
MTA...-G62...-00 (in connection with MTS)²⁾



Hybrid ABOX

With 2 round connectors (Intercontec)
(2 x motor output downward at MTA...-I62...)
(2 x motor output forward at MTA...-G62...)
M12 for I/Os
And push-pull RJ45 for bus

MTA...-I65...-00 (in connection with MTS/MTF)²⁾
MTA...-G65...-00 (in connection with MTS/MTF)²⁾

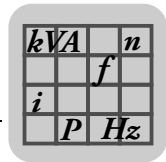


Hybrid ABOX

With 1 round connector (Intercontec)
(1 x motor output downward at MTA...-I65...)
(1 x motor output forward at MTA...-G65...)
M12 for I/Os
And push-pull RJ45 for bus

1) In preparation

2) Not available in connection with DeviceNet and PROFIBUS



4.7 Hygienic^{plus} design

The following figure shows the Hygienic^{plus} design of MOVIFIT®.



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4.7.1 Properties

The Hygienic^{plus} variant has the following characteristics:

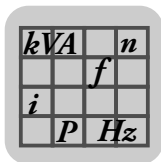
- IP66 in accordance with EN 60529 and IP69K according to DIN 40050-9 (MOVIFIT® housing closed and all cable bushings sealed according to the relevant degree of protection)
- Easy-to-clean housing (self-draining design)
- Surface with non-stick properties
- High impact resistance of the surface against mechanical damage
- Compatibility with cleansing agents having the following properties:
 - Alkaline
 - Acidic
 - Disinfectant
- Resistant to temperature fluctuations
- Resistant to condensation caused by coated connection boards



INFORMATION

Further information can be found in the following chapters:

- "MOVIFIT® SC" and "MOVIFIT® FC" operating instructions



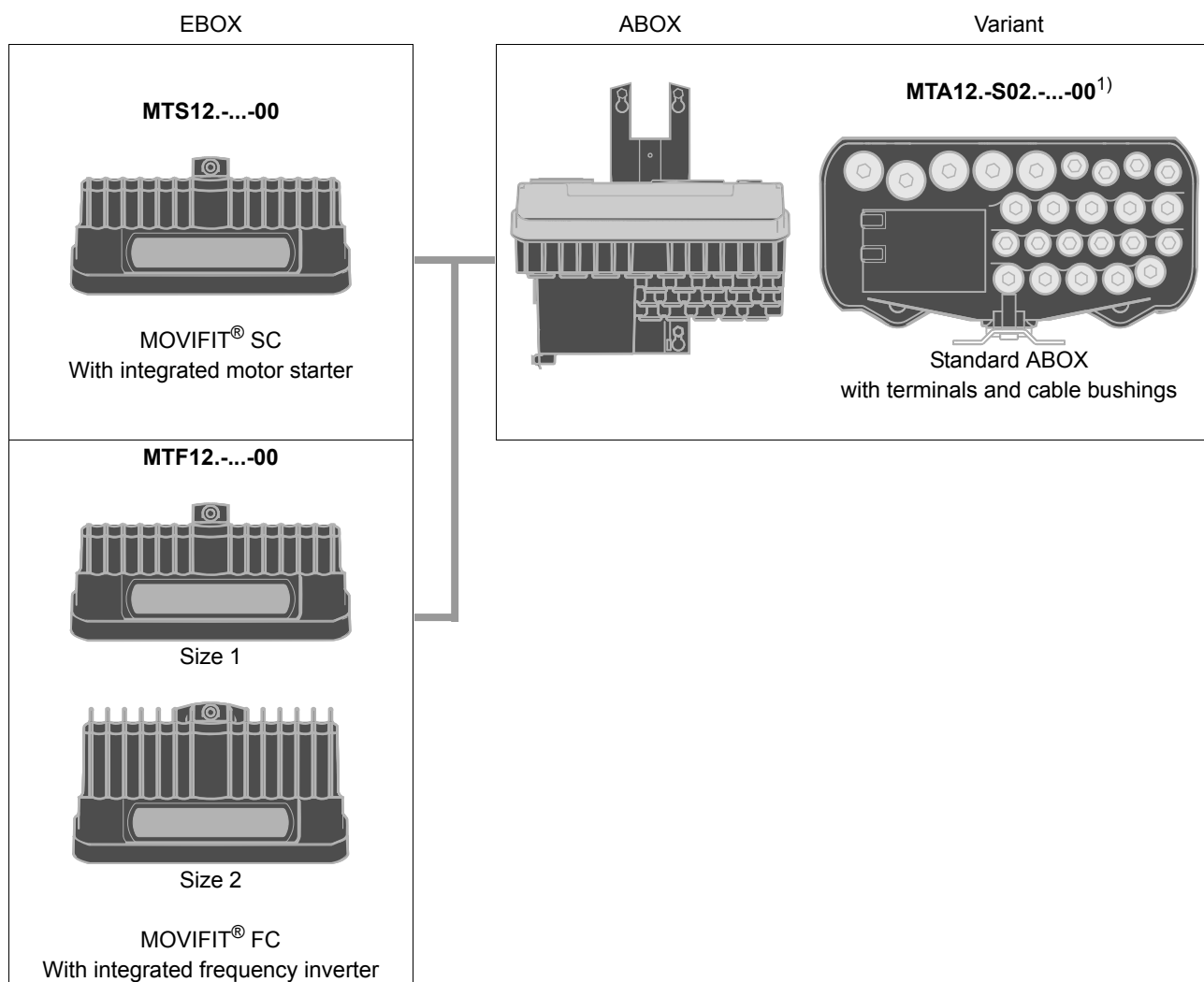
4.7.2 Combination options with MOVIFIT® SC and FC Hygienic^{plus}



INFORMATION

The Hygienic^{plus} design is only available in connection with the following unit variants:

- Only in connection with MOVIFIT® SC or MOVIFIT® FC
- only in connection with the standard ABOX with terminals and cable bushings



1) In connection with DeviceNet: Micro-style connector for DeviceNet connection

 In SEW-EURODRIVE publications, all illustrations of MOVIFIT® in Hygienic^{plus} design are displayed as hatched (= surface coating).

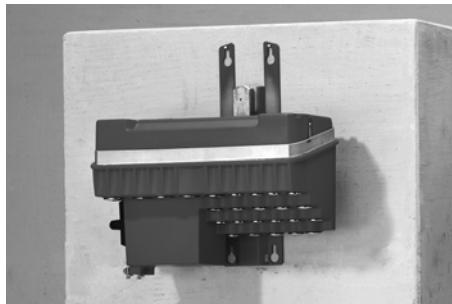
4.8 Flexible connection technology

4.8.1 Overview

The flexible connection technology of MOVIFIT® allows for perfect adaptation to different installation philosophies. In addition to the standard variant, which must be wired during installation, SEW-EURODRIVE also offers prewired solutions with industry-standard plug connectors.

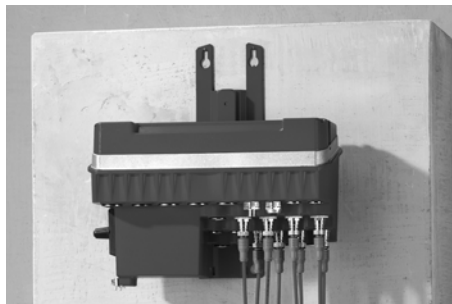
- **Standard ABOX**

- With terminals and cable bushings



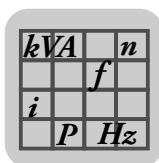
- **Hybrid ABOX**

- With M12 for I/Os
- With M12 for I/Os and bus
- With M12 for I/Os and push-pull RJ45 for bus



- With M12 for I/Os and bus and 1 – 3 motor plug connectors
- With M12 for I/Os and push-pull RJ45 for bus and 1 – 3 motor plug connectors

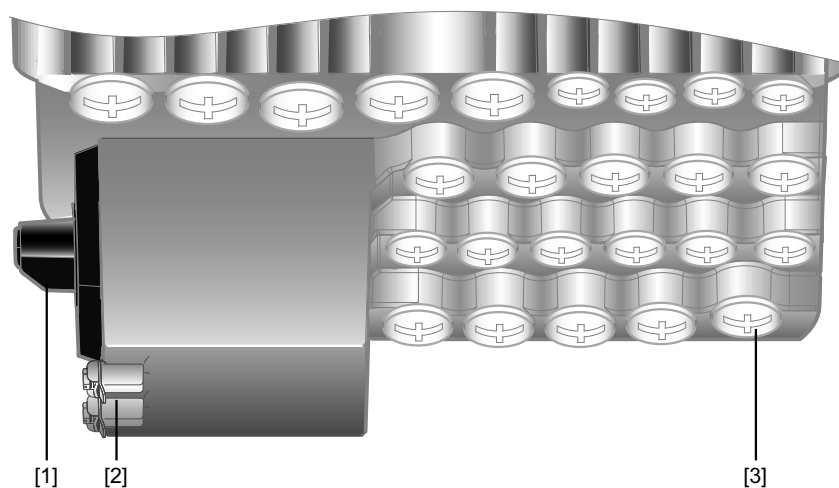




4.9 Available ABOXes

4.9.1 Standard ABOX "MTA...-S01.-...-00", "MTA...-S02.-...-00"

Description The following figure depicts the Standard ABOX with terminals and cable bushings:



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[1] Maintenance switch (integrated as standard in connection with MOVIFIT® MC)

[2] PE connection

[3] Diagnostics socket (RJ10) underneath the screw plug

In connection with a DeviceNet interface, the Standard ABOX is always supplied with micro-style connector:

*Ethernet adapter,
optional*

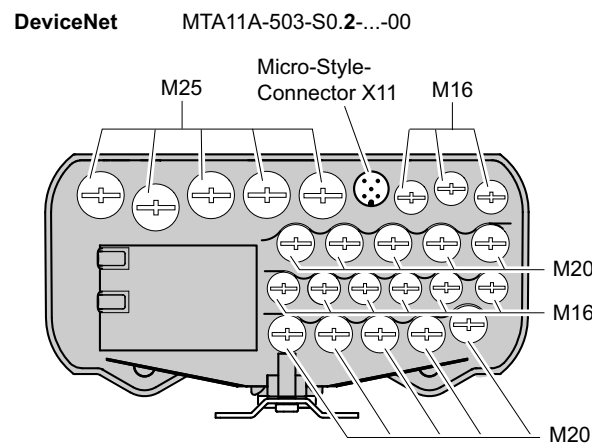
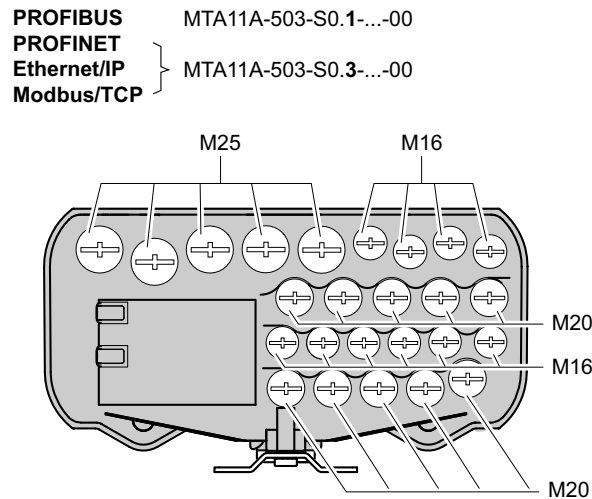
Type	Figure	Content	Part number
RJ45-M12 Ethernet adapter RJ45 (internal) M12 (external) 2 pieces required for each unit.		1 pc	1328 168 2

Variants

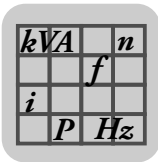
The Standard ABOX is available in the following variants:

- MTA11A-503-S01-...-00: Standard ABOX for MOVIFIT® MC (MTM)
- MTA11A-503-S02-...-00: Standard ABOX for MOVIFIT® SC (MTS) and FC (MTF)

The following figure shows the cable glands and plug connectors of the Standard ABOX depending on the fieldbus interface:



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4.9.2 Hybrid ABOX "MTA...-S41.-...-00", "MTA...-S42.-...-00"

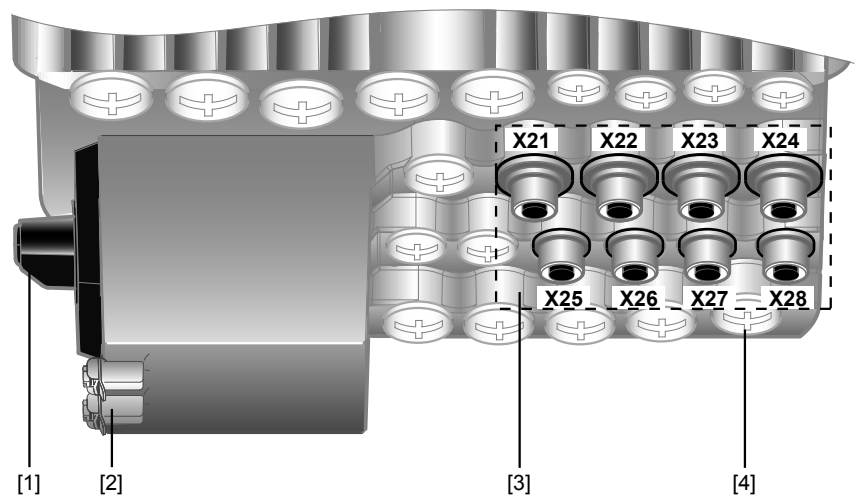


INFORMATION

- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with M12 plug connectors for connecting digital I/Os:

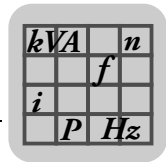


915287947

- [1] Maintenance switch (integrated as standard in connection with MOVIFIT® MC)
- [2] PE connection
- [3] M12 plug connector for I/Os
- [4] Diagnostics socket (RJ10) underneath the screw plug

Ethernet adapter,
optional

Type	Figure	Content	Part number
RJ45-M12 Ethernet adapter RJ45 (internal) M12 (external) 2 pieces required for each unit.		1 pc	1328 168 2



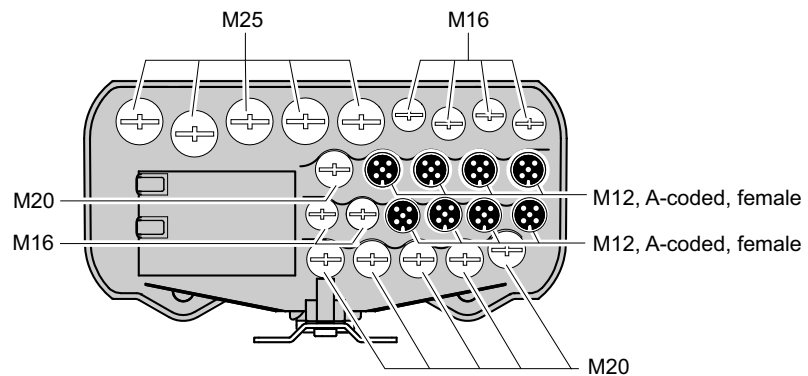
Variants

The hybrid ABOX is available in the following variants:

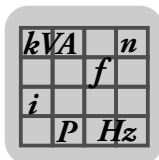
- MTA11A-503-**S41**....-00: Hybrid ABOX for MOVIFIT® MC (MTM)
- MTA11A-503-**S42**....-00: Hybrid ABOX for MOVIFIT® SC (MTS) and FC (MTF)

The following figure shows the cable glands and plug connectors of the hybrid ABOX:

PROFIBUS } MTA11A-503-S4.1-...-00
PROFINET }
EtherNet/IP } MTA11A-503-S4.3-...-00
Modbus/TCP }



4939503243



4.9.3 Hybrid ABOX "MTA...-S51....-00", "MTA...-S52....-00"

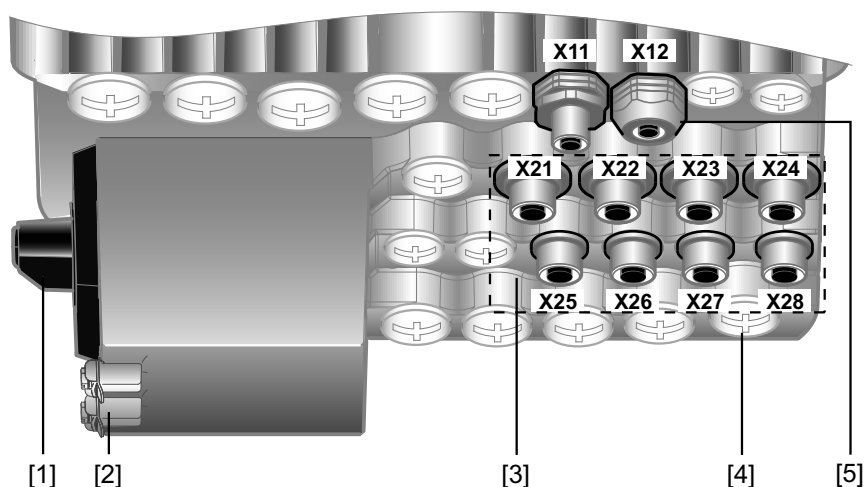


INFORMATION

- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the Standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure depicts the hybrid ABOX with M12 plug connectors for connecting I/Os and bus:



934768139

- [1] Maintenance switch (integrated as standard in connection with MOVIFIT® MC)
 [2] PE connection
 [3] M12 plug connector for I/Os
 [4] Diagnostics socket (RJ10) underneath the screw plug
 [5] M12 plug connector for fieldbus connection

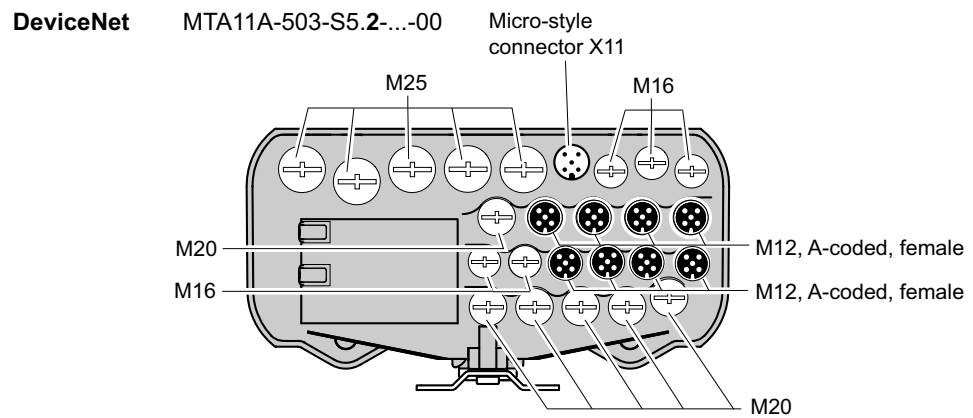
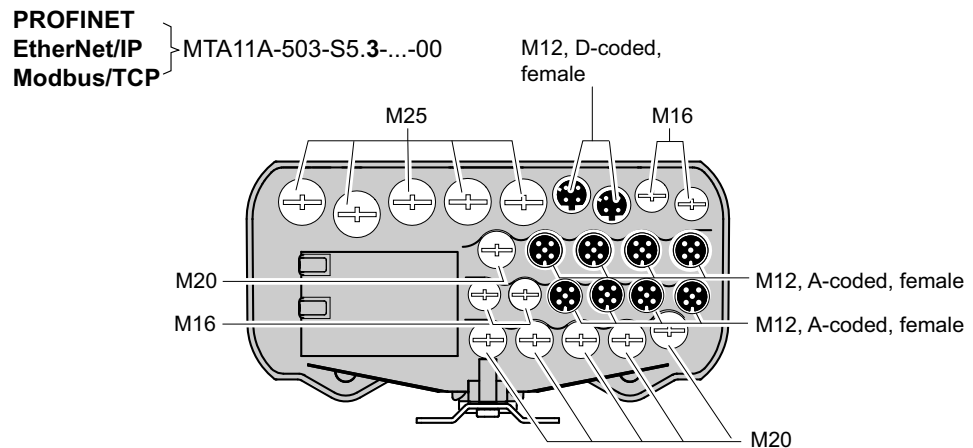
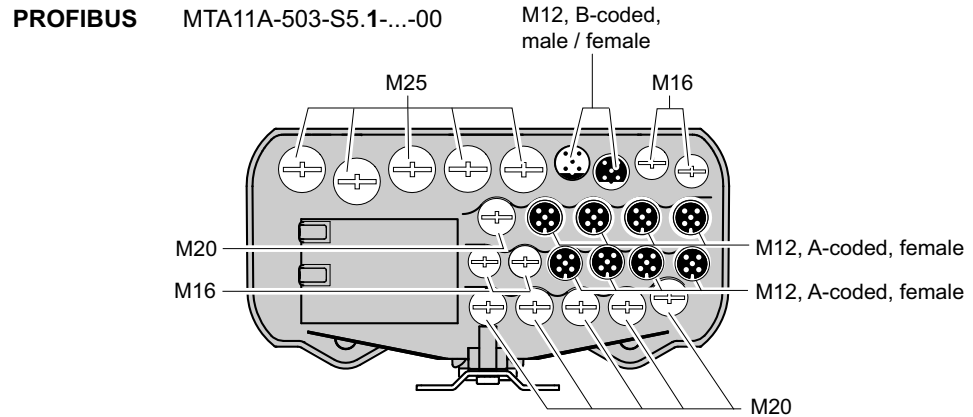
Variants

The hybrid ABOX is available in the following variants:

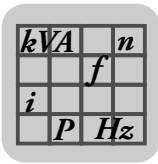
- MTA11A-503-S51-...-00: Hybrid ABOX for MOVIFIT® MC (MTM)
- MTA11A-503-S52-...-00: Hybrid ABOX for MOVIFIT® SC (MTS) and FC (MTF)

The following figure shows the cable glands and plug connectors of the hybrid ABOX depending on the fieldbus interface:

4



9007200774630795



4.9.4 Hybrid ABOX "MTA...-S53....-00/L10"

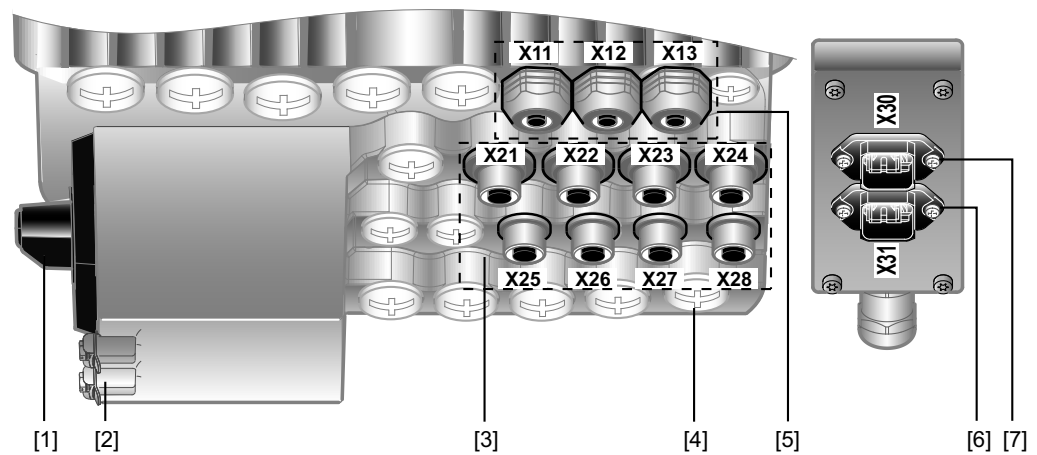


INFORMATION

- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.
- All electrical connections of the POF option L10 are installed at the factory.

Description

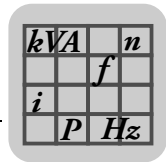
The following figure shows the hybrid ABOX with M12 plug connectors for connecting I/Os and bus and the POF option L10 with push-pull SCRJ plug connector for PROFINET POF:



5058563595

- [1] Optional maintenance switch
- [2] PE connection
- [3] M12 plug connector for I/Os
- [4] Diagnostics socket (RJ10) under the screw plug
- [5] M12 plug connector for PROFINET connection and DC 24 V output (plugged at the factory)
- [6] Push-pull SCRJ plug connector for PROFINET POF port 2
- [7] Push-pull SCRJ plug connector for PROFINET POF port 1

POF = **P**olymer **O**ptical **F**iber



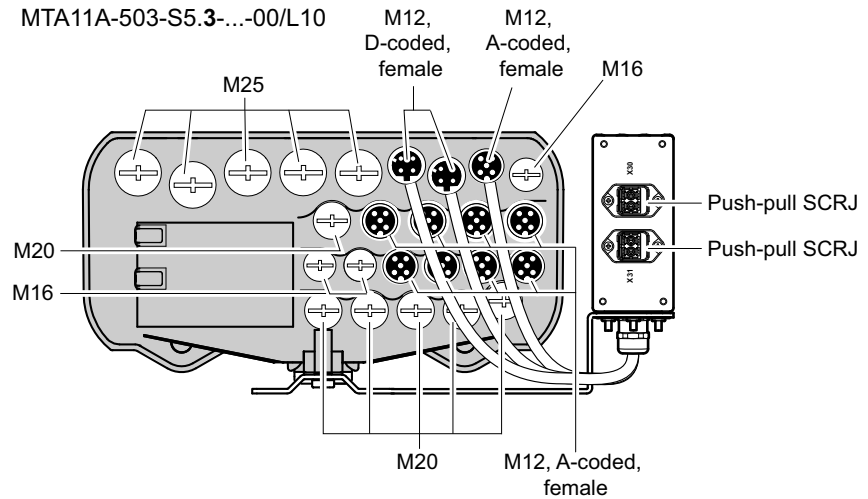
Variants

The hybrid ABOX is available in the following variants:

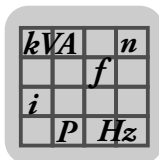
- MTA11A-503-**S53**...-00/L10: Hybrid ABOX for MOVIFIT® SC (MTS) / FC (MTF) with POF option L10

The following figure shows the cable glands and plug connectors of the hybrid ABOX with POF option L10:

PROFINET MTA11A-503-S5.3...-00/L10



5284143499



4.9.5 Hybrid ABOX "MTA...-S61....-00", "MTA...-S62....-00"

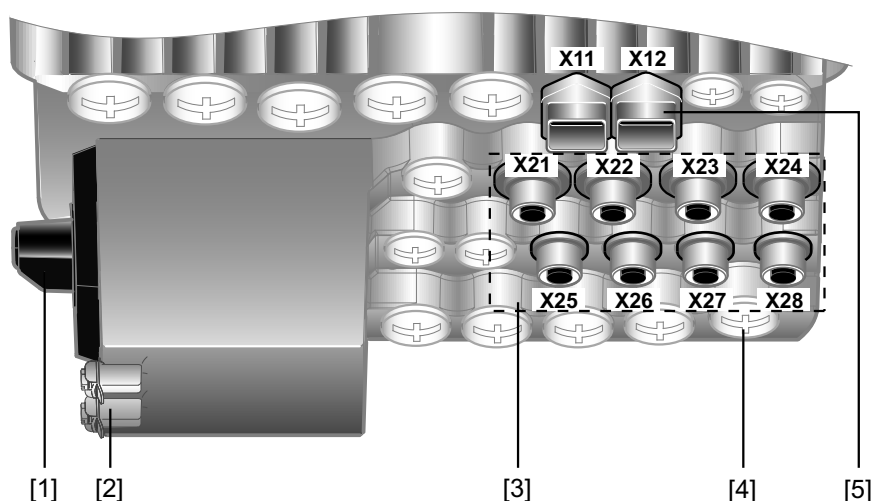


INFORMATION

- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with M12 plug connectors for connecting I/Os and push-pull RJ45 plug connector for Ethernet connection:



915673995

- [1] Maintenance switch (integrated as standard in connection with MOVIFIT® MC)
 [2] PE connection
 [3] M12 plug connector for I/Os
 [4] Diagnostics socket (RJ10) underneath the screw plug
 [5] Push-pull RJ45 plug connector for Ethernet connection

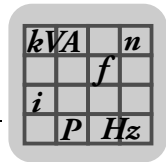


INFORMATION

Do not use push-pull RJ45 sockets without the mating push-pull RJ45 connector according to IEC 1076-3-117. Commercially available RJ45 patch cables without push-pull connector housings do not lock into the connectors. They may damage the socket and are therefore not suited.

Optional closing plug

Type	Figure	Content	Part number
Ethernet closing plug for push-pull RJ45 socket		10 pcs	1822 370 2
		30 pcs	1822 371 0



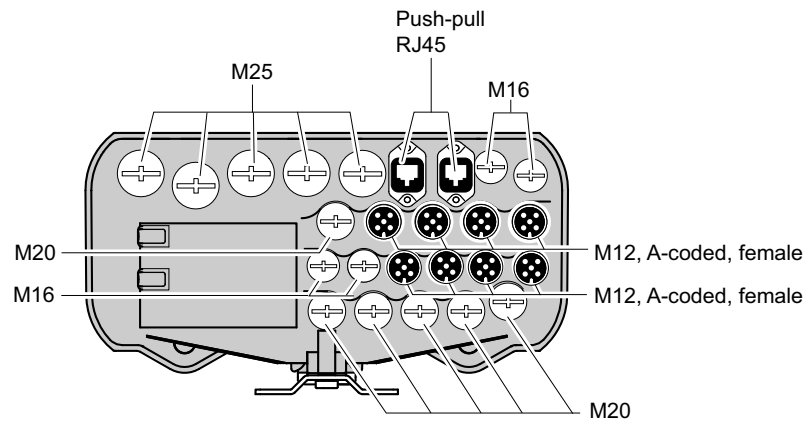
Variants

The hybrid ABOX is available in the following variants:

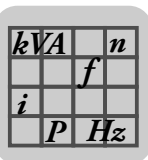
- MTA11A-503-**S61**....-00: Hybrid ABOX for MOVIFIT® MC (MTM)
- MTA11A-503-**S62**....-00: Hybrid ABOX for MOVIFIT® SC (MTS) and FC (MTF)

The following figure shows the cable glands and plug connectors of the hybrid ABOX:

PROFINET
EtherNet/IP
Modbus/TCP } MTA11A-503-S6.3-...-00



4939863307



4.9.6 Hybrid ABOX "MTA...-I51.-...-00", "MTA...-G51.-...-00"



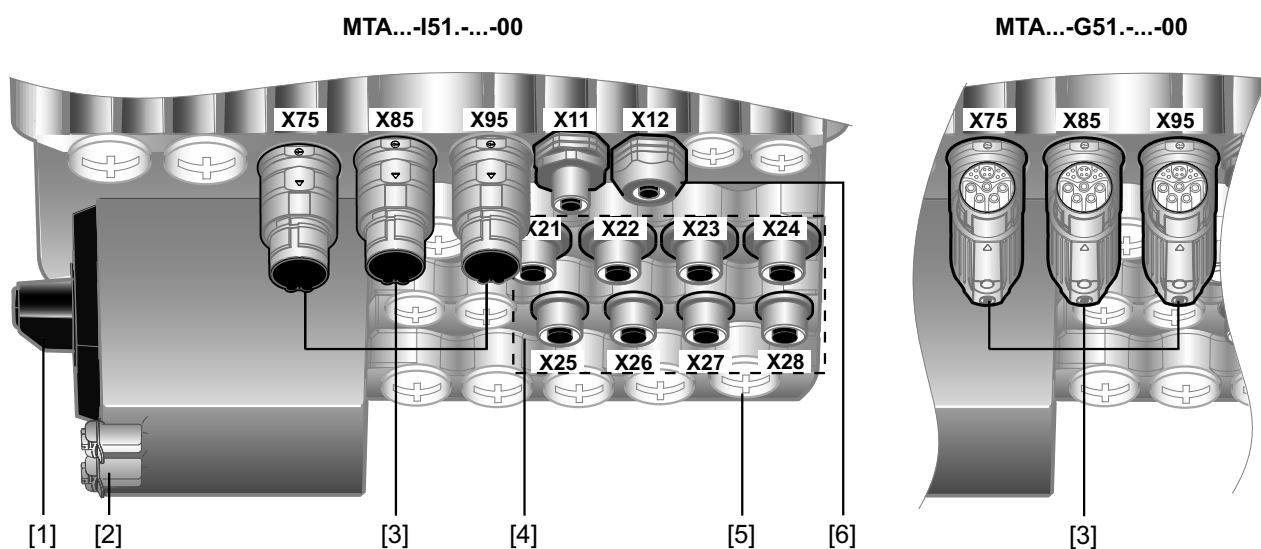
INFORMATION

- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 3 round connectors (Intercontec) for connecting the MOVIMOT® drives
 - MOVIMOT® output pointing downward (of MTA...-I51.-...-00)
 - MOVIMOT® output pointing forward (of MTA...-G51.-...-00)
- M12 plug connectors for the connection of I/Os and bus



4944057611

- [1] Maintenance switch (integrated as standard in connection with MOVIFIT® MC)
 [2] PE connection
 [3] Round connectors (Intercontec), MOVIMOT® output
 [4] M12 plug connector for I/Os
 [5] Diagnostics socket (RJ10) underneath the screw plug
 [6] M12 plug connector for fieldbus connection

Variants

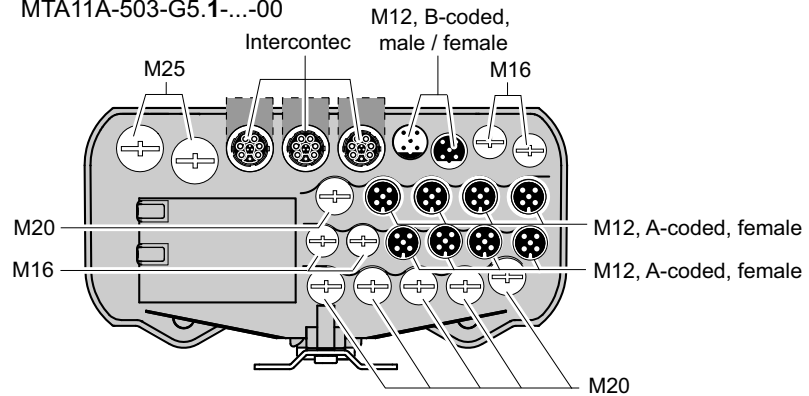
The hybrid ABOX is available in the following variants:

- MTA11A-503-I51-...-00: Hybrid ABOX for MOVIFIT® MC (MTM)
- MTA11A-503-G51-...-00: Hybrid ABOX for MOVIFIT® MC (MTM)

The following figure shows the cable glands and plug connectors of the hybrid ABOX depending on the fieldbus interface:

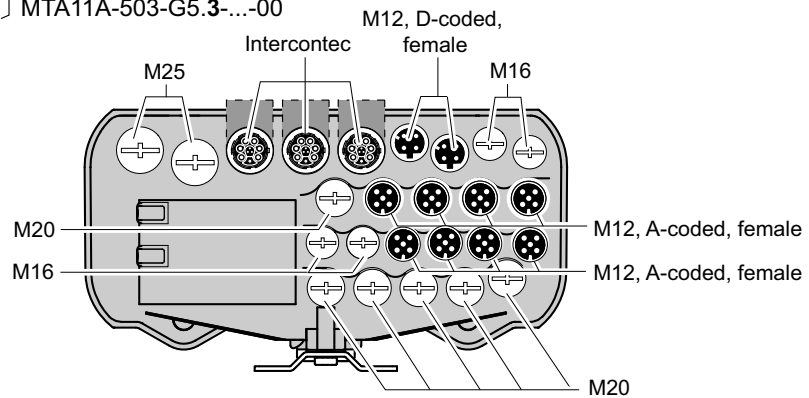
PROFIBUS

MTA11A-503-I5.1-...-00
MTA11A-503-G5.1-...-00



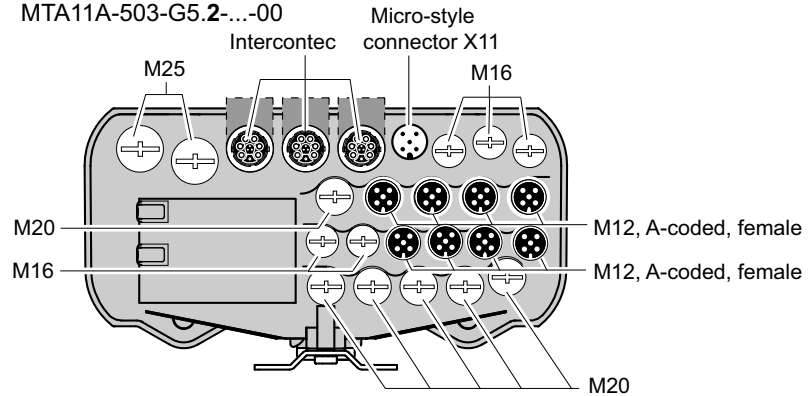
PROFINET EtherNet/IP Modbus/TCP

MTA11A-503-I5.3-...-00
MTA11A-503-G5.3-...-00

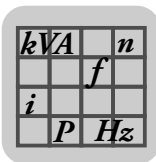


DeviceNet

MTA11A-503-I5.2-...-00
MTA11A-503-G5.2-...-00



4944426635



4.9.7 Hybrid ABOX "MTA...-I52.-...-00", "MTA...-G52.-...-00"



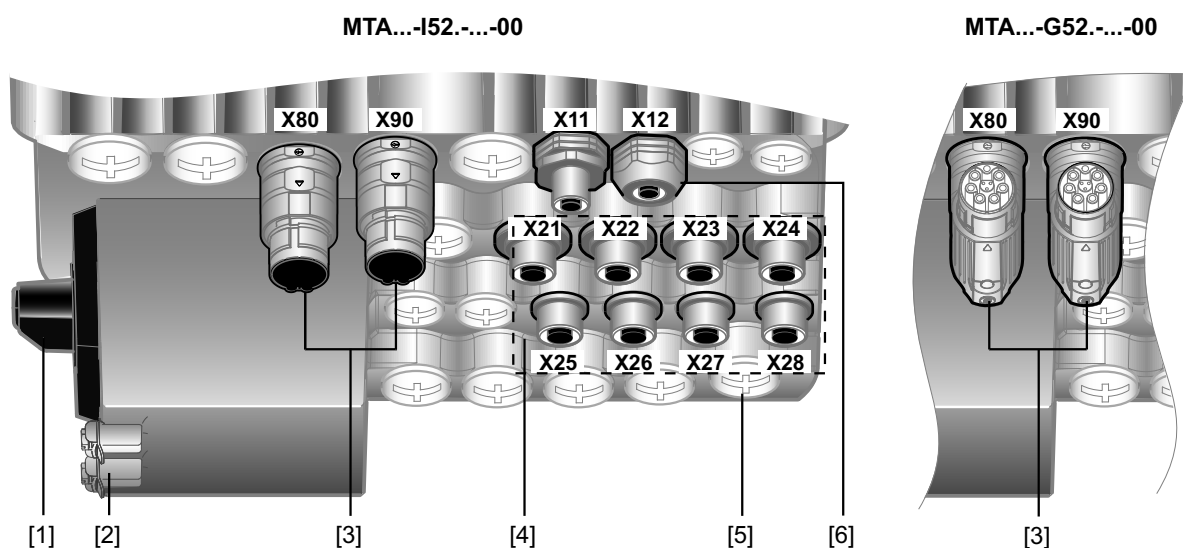
INFORMATION

- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 2 round connectors (Intercontec) for connecting the motors
 - Motor output pointing downward (of MTA...-I52.-...-00)
 - Motor output pointing forward (of MTA...-G52.-...-00)
- M12 plug connectors for the connection of I/Os and bus



4940110219

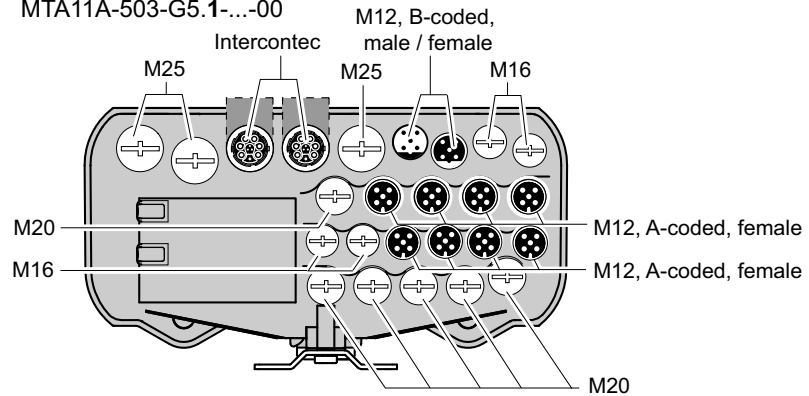
- [1] Maintenance switch (optional)
- [2] PE connection
- [3] Round connectors (Intercontec), motor output
- [4] M12 plug connector for I/Os
- [5] Diagnostics socket (RJ10) underneath the screw plug
- [6] M12 plug connector for fieldbus connection

The hybrid ABOX is available in the following variants:

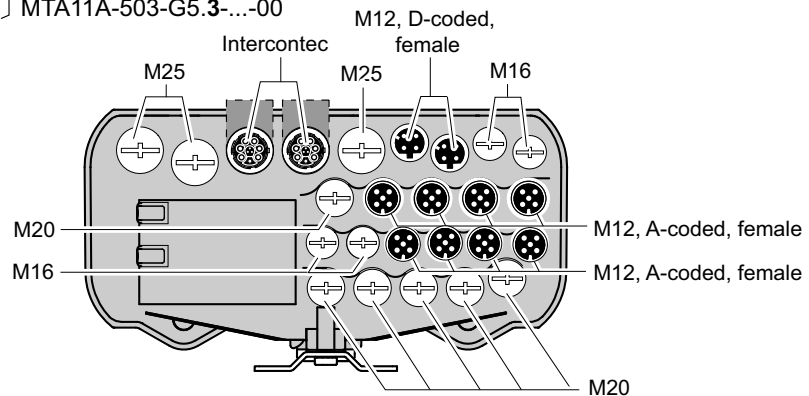
- MTA11A-503-I52-...-00: Hybrid ABOX for MOVIFIT® SC (MTS)
- MTA11A-503-G52-...-00: Hybrid ABOX for MOVIFIT® SC (MTS)

The following figure shows the cable glands and plug connectors of the hybrid ABOX depending on the fieldbus interface:

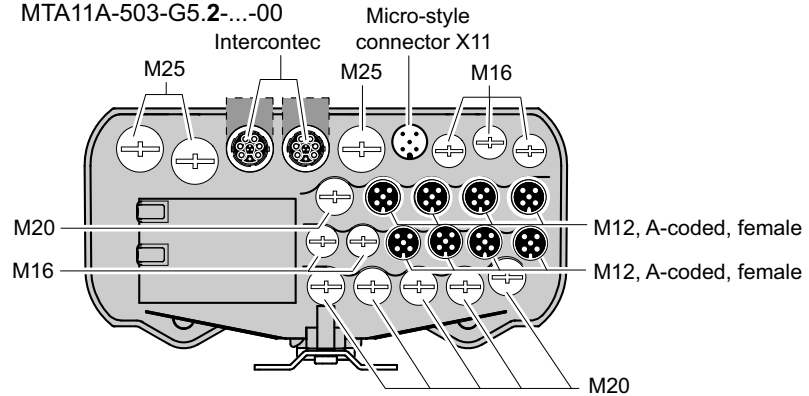
MTA11A-503-I5.1-...-00
MTA11A-503-G5.1-...-00



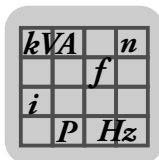
MTA11A-503-I5.3-...-00
MTA11A-503-G5.3-...-00



MTA11A-503-I5.2-...-00
MTA11A-503-G5.2-...-00



4945041931



4.9.8 Hybrid ABOX "MTA...-I55.-...-00", "MTA...-G55.-...-00"



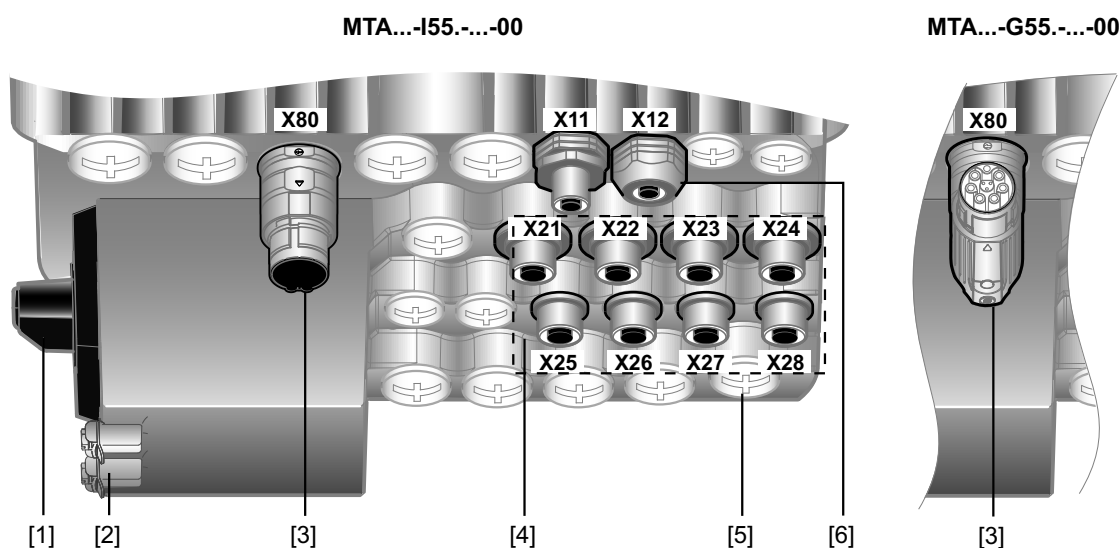
INFORMATION

- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

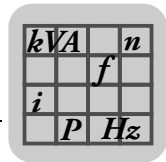
The following figure shows the hybrid ABOX with:

- 1 round connector (Intercontec) for connecting the motors
 - Motor output pointing downward (of MTA...-I55.-...-00)
 - Motor output pointing forward (of MTA...-G55.-...-00)
- M12 plug connectors for the connection of I/Os and bus



4755910923

- [1] Maintenance switch (optional)
- [2] PE connection
- [3] Round connectors (Intercontec), motor output
- [4] M12 plug connector for I/Os
- [5] Diagnostics socket (RJ10) underneath the screw plug
- [6] M12 plug connector for fieldbus connection



Variants

The hybrid ABOX is available in the following variants:

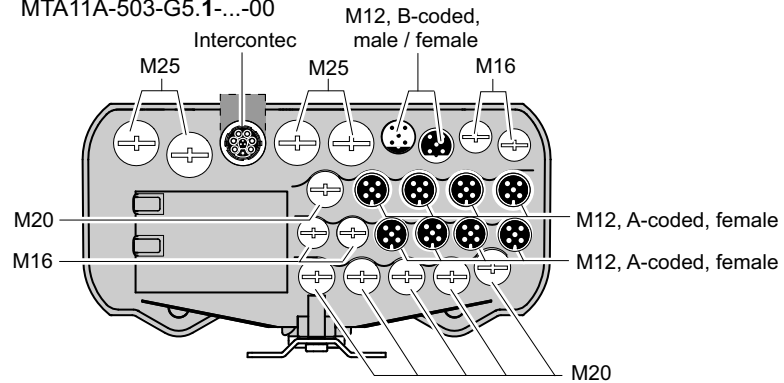
- MTA11A-503-**I55**....-00: Hybrid ABOX for MOVIFIT® SC (MTS) and FC (MTF)
- MTA11A-503-**G55**....-00: Hybrid ABOX for MOVIFIT® SC (MTS) and FC (MTF)

The following figure shows the cable glands and plug connectors of the hybrid ABOX depending on the fieldbus interface:

4

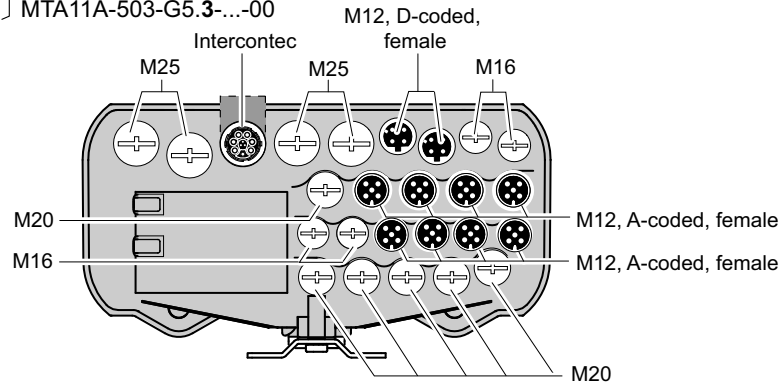
PROFIBUS

MTA11A-503-I5.1-...-00
MTA11A-503-G5.1-...-00



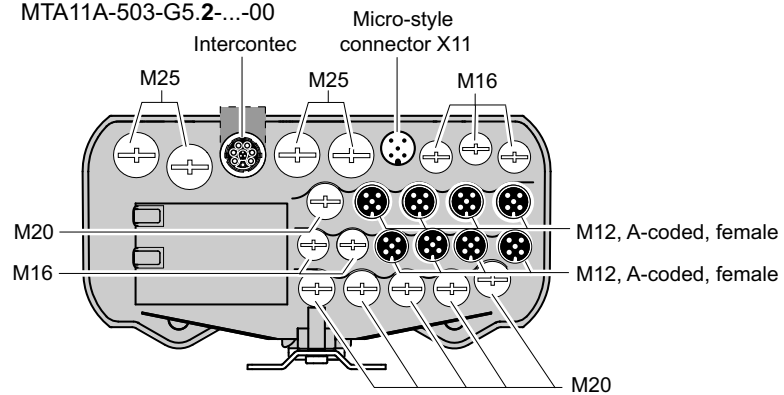
PROFINET EtherNet/IP Modbus/TCP

MTA11A-503-I5.3-...-00
MTA11A-503-G5.3-...-00

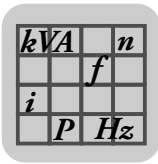


DeviceNet

MTA11A-503-I5.2-...-00
MTA11A-503-G5.2-...-00



4301968139



4.9.9 Hybrid ABOX "MTA...-I61.-...-00", "MTA...-G61.-...-00"



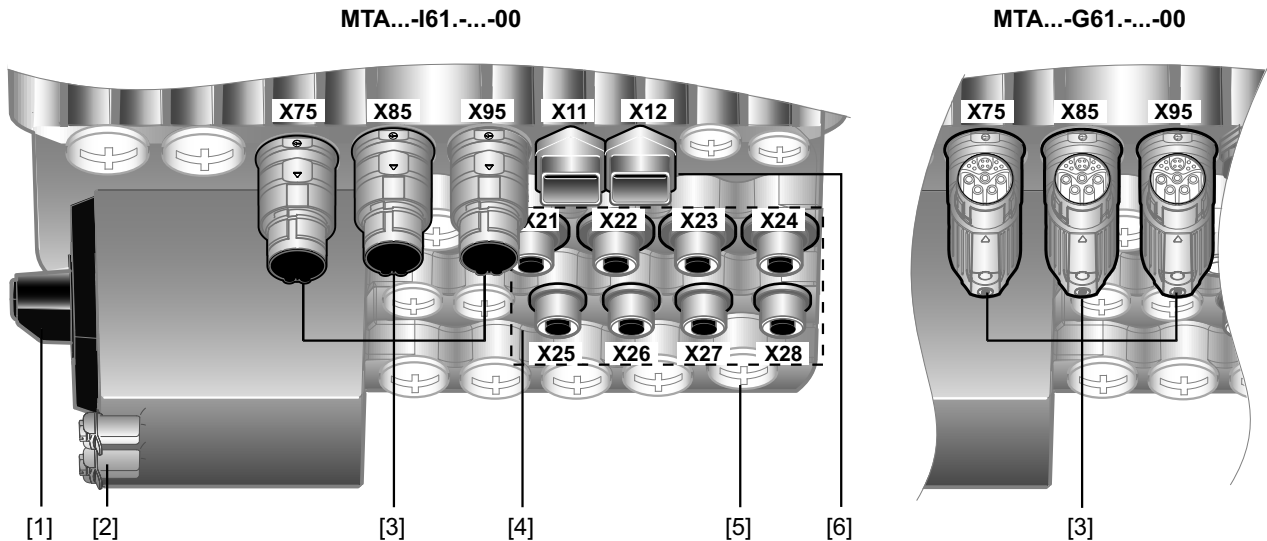
INFORMATION

- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 3 round connectors (Intercontec) for connecting the MOVIMOT® drives
 - MOVIMOT® output pointing downward (of MTA...-I61.-...-00)
 - MOVIMOT® output pointing forward (of MTA...-G61.-...-00)
- M12 plug connectors for the connection of I/Os
- Push-pull RJ plug connectors for Ethernet connection



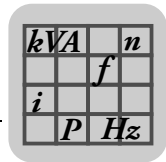
4940044171

- [1] Maintenance switch (integrated as standard in connection with MOVIFIT® MC)
- [2] PE connection
- [3] Round connectors (Intercontec), MOVIMOT® output
- [4] M12 plug connector for I/Os
- [5] Diagnostics socket (RJ10) underneath the screw plug
- [6] Push-pull RJ45 plug connector for Ethernet connection



INFORMATION

Do not use push-pull RJ45 sockets without the mating push-pull RJ45 connector according to IEC 1076-3-117. Commercially available RJ45 patch cables without push-pull connector housings do not lock into the connectors. They may damage the socket and are therefore not suited.



Optional closing plug

Type	Figure	Content	Part number
Ethernet closing plug for push-pull RJ45 socket		10 pcs	1822 370 2
		30 pcs	1822 371 0

Variants

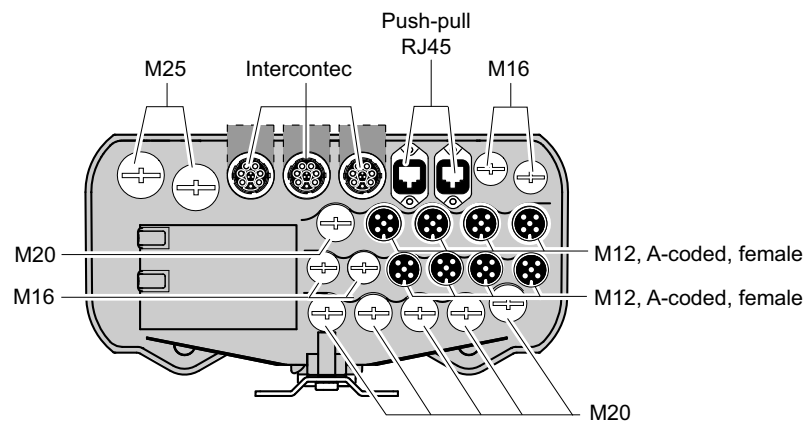
The hybrid ABOX is available in the following variants:

- MTA11A-503-**I61**.-...-00: Hybrid ABOX for MOVIFIT® MC (MTM)
- MTA11A-503-**G61**.-...-00: Hybrid ABOX for MOVIFIT® MC (MTM)

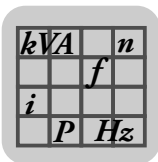
The following figure shows the cable glands and plug connectors of the hybrid ABOX:

PROFINET
EtherNet/IP
Modbus/TCP

MTA11A-503-I6.3-...-00
MTA11A-503-G6.3-...-00



4945059339



4.9.10 Hybrid ABOX "MTA...-I62.-...-00", "MTA...-G62.-...-00"



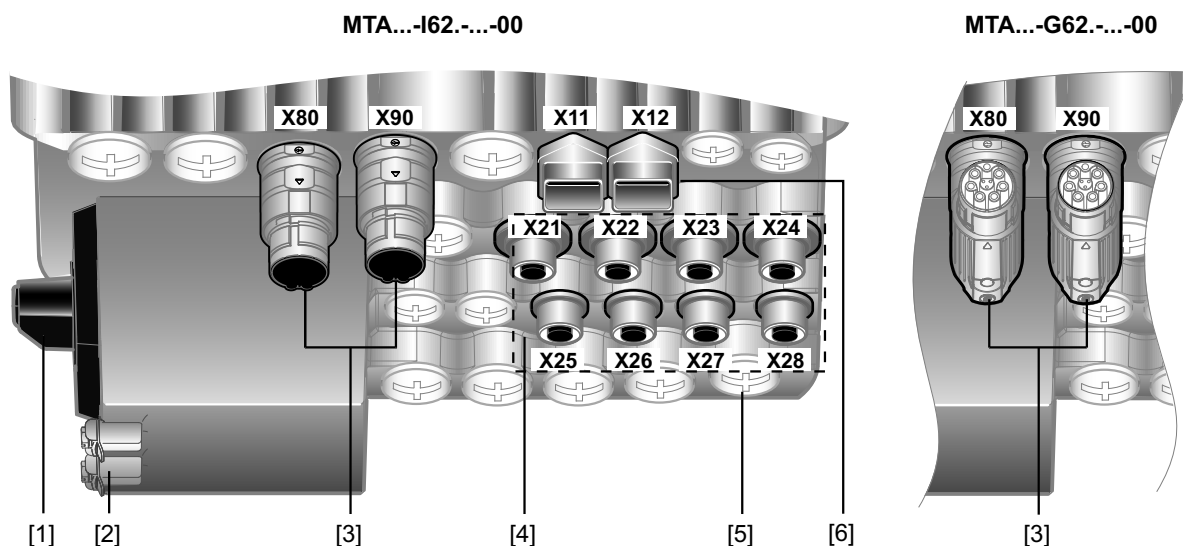
INFORMATION

- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 2 round connectors (Intercontec) for connecting the motors
 - Motor output pointing downward (of MTA...-I62.-...-00)
 - Motor output pointing forward (of MTA...-G62.-...-00)
- M12 plug connectors for the connection of I/Os
- Push-pull RJ plug connectors for Ethernet connection



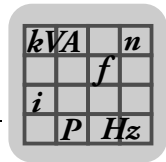
4944368907

- [1] Maintenance switch (optional)
- [2] PE connection
- [3] Round connectors (Intercontec), motor output
- [4] M12 plug connector for I/Os
- [5] Diagnostics socket (RJ10) underneath the screw plug
- [6] Push-pull RJ45 plug connector for Ethernet connection

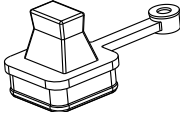


INFORMATION

Do not use push-pull RJ45 sockets without the mating push-pull RJ45 connector according to IEC 1076-3-117. Commercially available RJ45 patch cables without push-pull connector housings do not lock into the connectors. They may damage the socket and are therefore not suited.



Optional closing plug

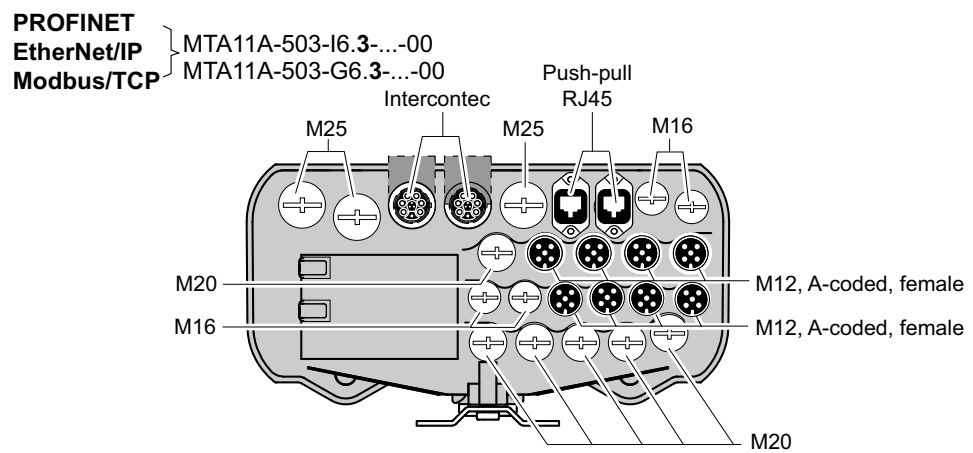
Type	Figure	Content	Part number
Ethernet closing plug for push-pull RJ45 socket		10 pcs	1822 370 2
		30 pcs	1822 371 0

Variants

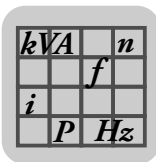
The hybrid ABOX is available in the following variants:

- MTA11A-503-**I62**....-00: Hybrid ABOX for MOVIFIT® SC (MTS)
- MTA11A-503-**G62**....-00: Hybrid ABOX for MOVIFIT® SC (MTS)

The following figure shows the cable glands and plug connectors of the hybrid ABOX:



4945522571



4.9.11 Hybrid ABOX "MTA...-I65.-...-00", "MTA...-G65.-...-00"



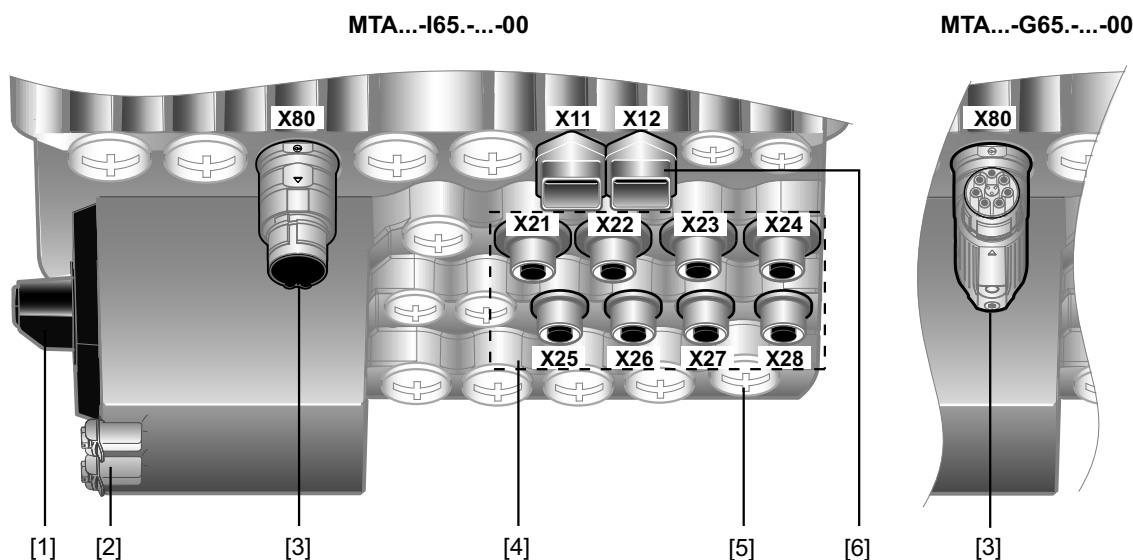
INFORMATION

- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 1 round connector (Intercontec) for connecting the motor
 - Motor output pointing downward (of MTA...-I65.-...-00)
 - Motor output pointing forward (of MTA...-G65.-...-00)
- M12 plug connectors for the connection of I/Os
- Push-pull RJ plug connectors for Ethernet connection



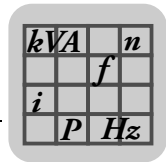
4758234891

- [1] Maintenance switch (optional)
- [2] PE connection
- [3] Round connectors (Intercontec), motor output
- [4] M12 plug connector for I/Os
- [5] Diagnostics socket (RJ10) underneath the screw plug
- [6] Push-pull RJ45 plug connector for Ethernet connection

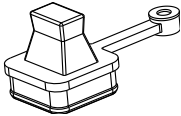


INFORMATION

Do not use push-pull RJ45 sockets without the mating push-pull RJ45 connector according to IEC 1076-3-117. Commercially available RJ45 patch cables without push-pull connector housings do not lock into the connectors. They may damage the socket and are therefore not suited.



Optional closing
plug

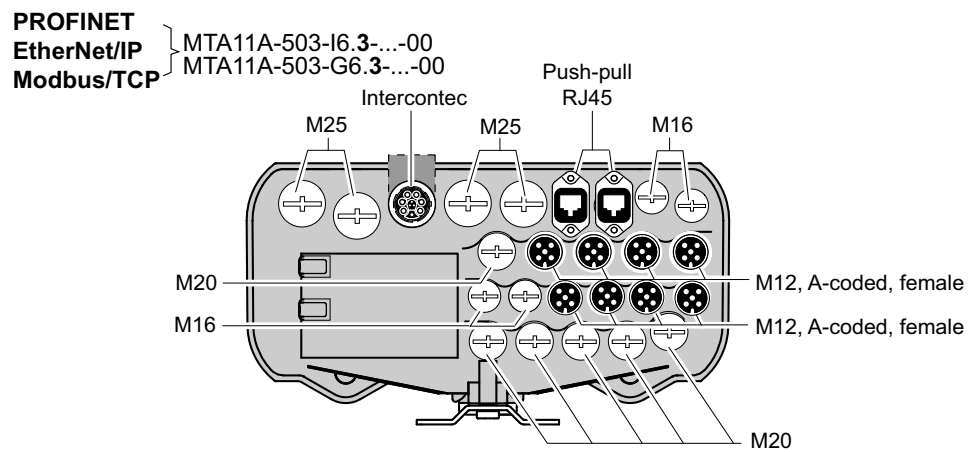
Type	Figure	Content	Part number
Ethernet closing plug for push-pull RJ45 socket		10 pcs	1822 370 2
		30 pcs	1822 371 0

Variants

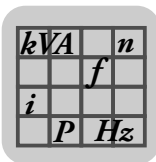
The hybrid ABOX is available in the following variants:

- MTA11A-503-I65.-...-00: Hybrid ABOX for MOVIFIT® SC (MTS) and FC (MTF)
- MTA11A-503-G65.-...-00: Hybrid ABOX for MOVIFIT® SC (MTS) and FC (MTF)

The following figure shows the cable glands and plug connectors of the hybrid ABOX:



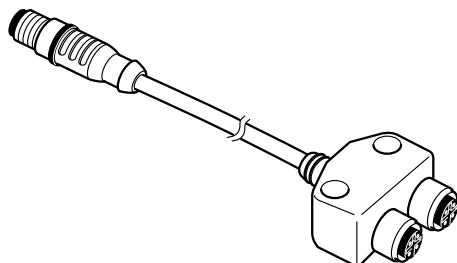
4945538571



4.9.12 Recommended Y adapter for the hybrid ABOX

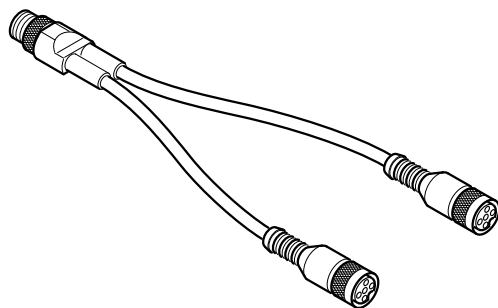
For connecting 2 sensors/actuators to an M12 plug connector, use a Y adapter with extension.

The Y adapter is available from different manufacturers:



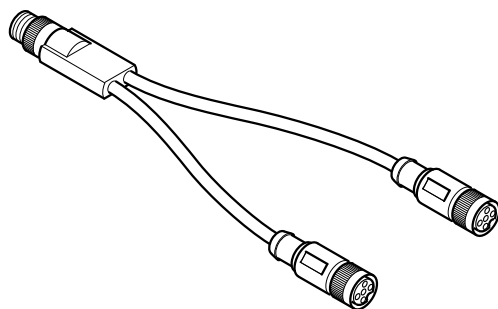
915294347

Manufacturer: Escha
Type: WAS4-0,3-2FKM3/..



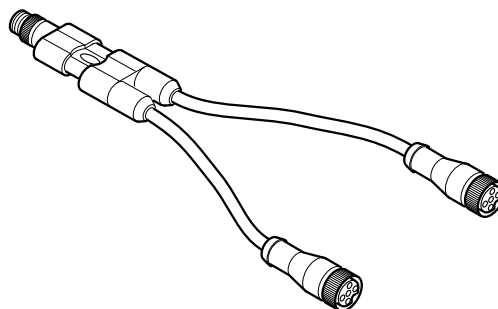
1180380683

Manufacturer: Binder
Type: 79 5200 ..



1180375179

Manufacturer: Phoenix Contact
Type: SAC-3P-Y-2XFS SCO/.../...
The sheath of the cables is made of PVC. Provide suitable UV protection.



1180386571

Manufacturer: Murr-Elektronik
Type: 7000-40721-..

4.10 Connection options for encoders

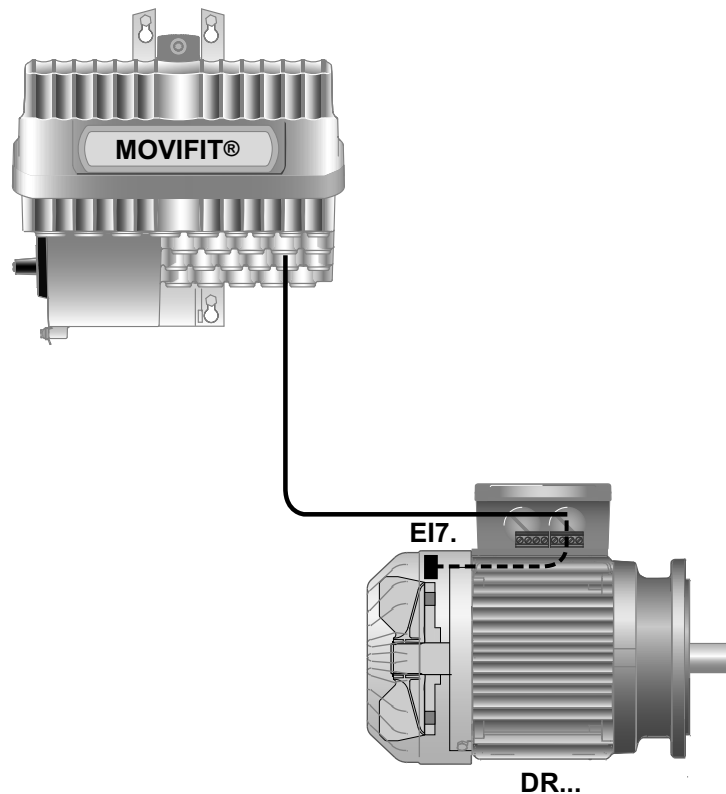


INFORMATION

- MOVIFIT® units in connection with the "Technology" function level offer suitable inputs for connecting, monitoring and evaluating EI7. incremental encoders.
- For detailed information on encoder connection, refer to the relevant MOVIFIT® operating instructions.

4.10.1 Example: EI7. incremental encoder

The following figure shows the connection of the EI7. incremental encoder:



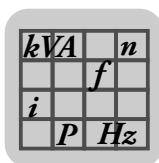
1406158987

4.10.2 Supported encoders in connection with DR motors

EI7. incremental encoder

The EI7. incremental encoder offers the following features:

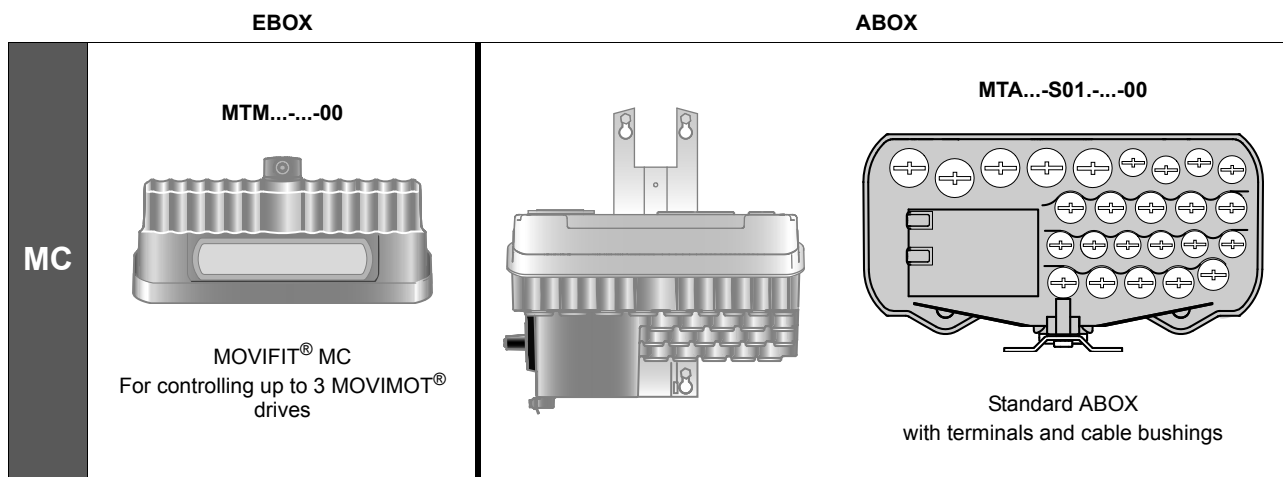
- EI71: 1 pulse/revolution => 4 increments/revolution¹⁾
 - EI72: 2 pulses/revolution => 8 increments/revolution¹⁾
 - EI76: 6 pulses/revolution => 24 increments/revolution¹⁾
 - EI7C: 24 pulses/revolution => 96 increments/revolution¹⁾
- ¹⁾ due to 4-fold evaluation
- Encoder monitoring and evaluation is possible with MOVIFIT® function level "Technology".



4.11 Selection tables

4.11.1 MOVIFIT® MC – available combinations

MOVIFIT® MC in connection with standard ABOX MTA...-S01...-00



Function level	Fieldbus	EBOX Type	ABOX Type
Classic	PROFIBUS	MTM11A000-P10A-00	MTA11A-503-S011-M...-00
	DeviceNet	MTM11A000-D10A-00	MTA11A-503-S012-M...-00
	PROFINET (Cu)	MTM11A000-E20A-00	MTA11A-503-S013-M...-00
Technology	PROFIBUS	MTM11A000-P11A-00	MTA11A-503-S011-M...-00
	DeviceNet	MTM11A000-D11A-00	MTA11A-503-S012-M...-00
	PROFINET (Cu)	MTM11A000-E21A-00	MTA11A-503-S013-M...-00
	EtherNet/IP (Cu) Modbus/TCP (Cu)	MTM11A000-E31A-00	MTA11A-503-S013-M...-00

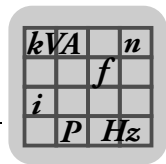
Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Maintenance switch	Integrated in	Type
Load interrupter switch and line protection	ABOX	MTA...-...-M01-00 (up to 12 A) ¹⁾ MTA...-...-M14-00 (up to 9 A) ²⁾ MTA...-...-M15-00 (up to 12 A) ²⁾

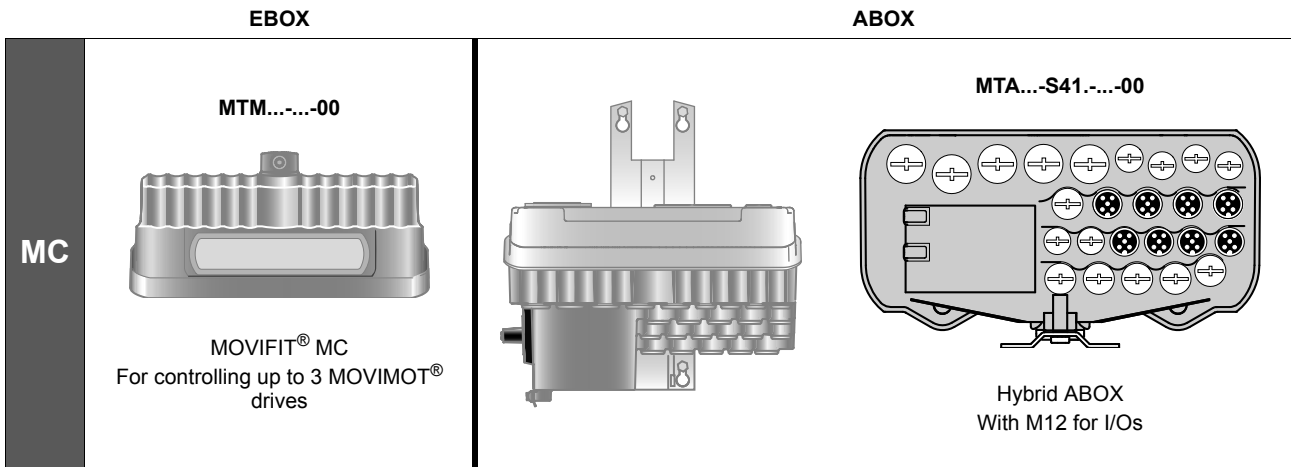
1) Only load disconnecter for UL

2) Only available in connection with UL

Option	Integrated in	Type
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11



MOVIFIT® MC in connection with hybrid ABOX MTA...-S41-...-00



Function level	Fieldbus	EBOX Type	ABOX Type
Classic	PROFIBUS	MTM11A000-P10A-00	MTA11A-503-S411-M...-00
	PROFINET (Cu)	MTM11A000-E20A-00	MTA11A-503-S413-M...-00
Technology	PROFIBUS	MTM11A000-P11A-00	MTA11A-503-S411-M...-00
	PROFINET (Cu)	MTM11A000-E21A-00	MTA11A-503-S413-M...-00
	EtherNet/IP (Cu) Modbus/TCP (Cu)	MTM11A000-E31A-00	MTA11A-503-S413-M...-00

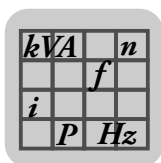
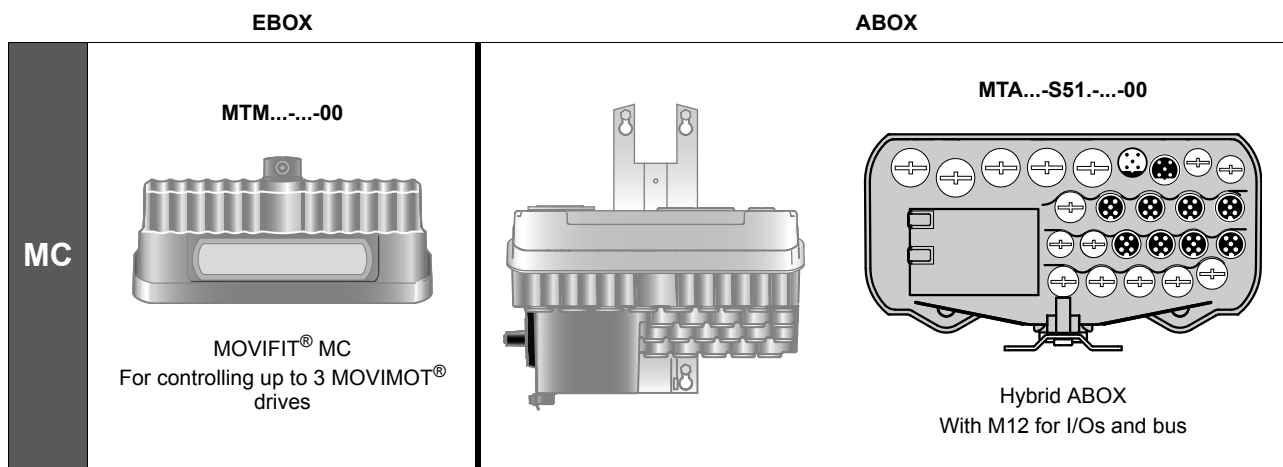
Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Maintenance switch	Integrated in	Type
Load interrupter switch and line protection	ABOX	MTA...-...-M01-00 (up to 12 A) ¹⁾ MTA...-...-M14-00 (up to 9 A) ²⁾ MTA...-...-M15-00 (up to 12 A) ²⁾

1) Only load disconnecter for UL

2) Only available in connection with UL

Option	Integrated in	Type
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11


MOVIFIT® MC in connection with hybrid ABOX MTA...-S51...-00


Function level	Fieldbus	EBOX Type	ABOX Type
Classic	PROFIBUS	MTM11A000-P10A-00	MTA11A-503-S511-M...-00
	DeviceNet	MTM11A000-D10A-00	MTA11A-503-S512-M...-00
	PROFINET (Cu)	MTM11A000-E20A-00	MTA11A-503-S513-M...-00
Technology	PROFIBUS	MTM11A000-P11A-00	MTA11A-503-S511-M...-00
	DeviceNet	MTM11A000-D11A-00	MTA11A-503-S512-M...-00
	PROFINET (Cu)	MTM11A000-E21A-00	MTA11A-503-S513-M...-00
	EtherNet/IP (Cu) Modbus/TCP (Cu)	MTM11A000-E31A-00	MTA11A-503-S513-M...-00

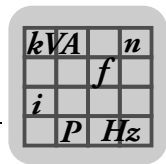
Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Maintenance switch	Integrated in	Type
Load interrupter switch and line protection	ABOX	MTA...-S51...-M01-00 (up to 12 A) ¹⁾ MTA...-S51...-M14-00 (up to 9 A) ²⁾ MTA...-S51...-M15-00 (up to 12 A) ²⁾

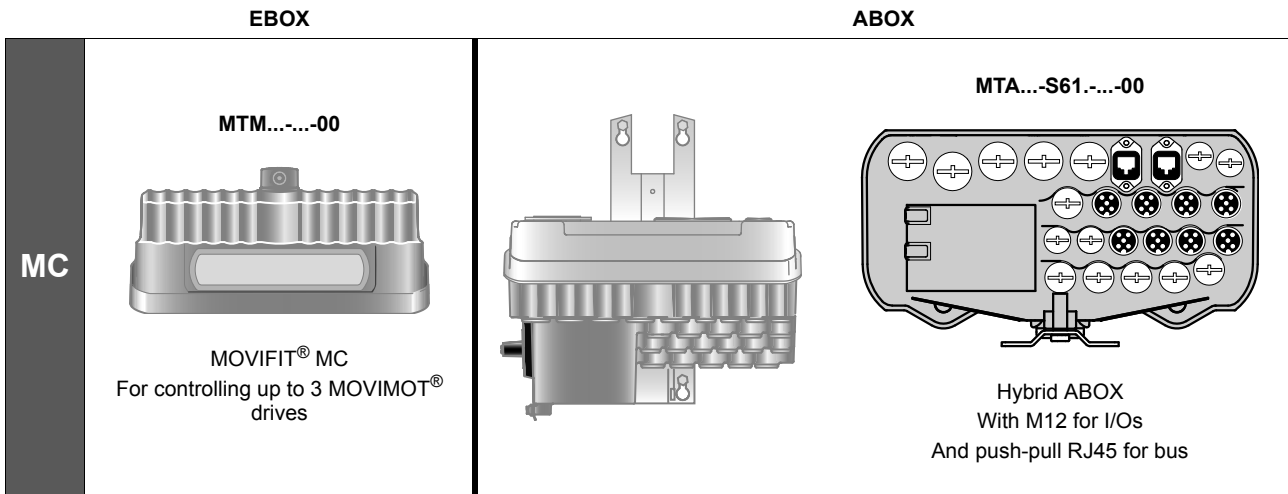
1) Only load disconnecter for UL

2) Only available in connection with UL

Option	Integrated in	Type
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11



MOVIFIT® MC in connection with hybrid ABOX MTA...-S61-...-00



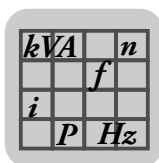
Function level	Fieldbus	EBOX Type	ABOX Type
Classic	PROFINET (Cu)	MTM11A000-E20A-00	MTA11A-503-S613-M...-00
Technology	PROFINET (Cu)	MTM11A000-E21A-00	MTA11A-503-S613-M...-00
	EtherNet/IP (Cu) Modbus/TCP (Cu)	MTM11A000-E31A-00	MTA11A-503-S613-M...-00

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Maintenance switch	Integrated in	Type
Load interrupter switch and line protection	ABOX	MTA...-...-M01-00 (up to 12 A) ¹⁾ MTA...-...-M14-00 (up to 9 A) ²⁾ MTA...-...-M15-00 (up to 12 A) ²⁾

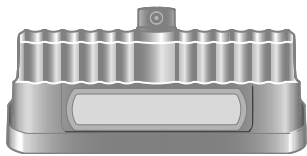
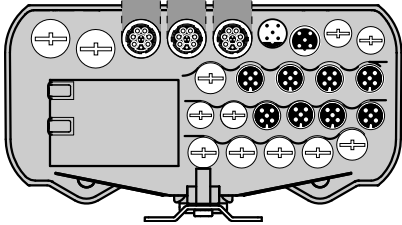
- 1) Only load disconnecter for UL
2) Only available in connection with UL

Option	Integrated in	Type
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11

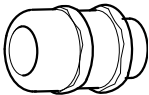


MOVIFIT® MC in connection with hybrid ABOX MTA...-I51...-00 and MTA...-G51...-00

(In preparation)

	EBOX	ABOX
MC	MTM...-00  MOVIFIT® MC For controlling up to 3 MOVIMOT® drives	MTA...-I51...-00 MTA...-G51...-00  Hybrid ABOX With 3 round connectors (Intercontec) (Motor output pointing downward at MTA...-I51...) (Motor output pointing forward at MTA...-G51...) And M12 for I/Os and bus

Function level	Fieldbus	EBOX Type	ABOX Type
Classic	PROFIBUS	MTM11A000-P10A-00	MTA11A-503-I511-M...-00 MTA11A-503-G511-M...-00
	DeviceNet	MTM11A000-D10A-00	MTA11A-503-I512-M...-00 MTA11A-503-G512-M...-00
	PROFINET (Cu)	MTM11A000-E20A-00	MTA11A-503-I513-M...-00 MTA11A-503-G513-M...-00
Technology	PROFIBUS	MTM11A000-P11A-00	MTA11A-503-I511-M...-00 MTA11A-503-G511-M...-00
	DeviceNet	MTM11A000-D11A-00	MTA11A-503-I512-M...-00 MTA11A-503-G512-M...-00
	PROFINET (Cu)	MTM11A000-E21A-00	MTA11A-503-I513-M...-00 MTA11A-503-G513-M...-00
	EtherNet/IP (Cu) Modbus/TCP (Cu)	MTM11A000-E31A-00	MTA11A-503-I513-M...-00 MTA11A-503-G513-M...-00

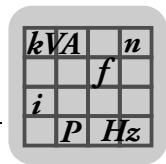
Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Maintenance switch	Integrated in	Type
Load interrupter switch and line protection	ABOX	MTA...-M01-00 (up to 12 A) ¹⁾ MTA...-M14-00 (up to 9 A) ²⁾ MTA...-M15-00 (up to 12 A) ²⁾

1) Only load disconnecter for UL

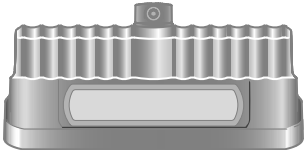
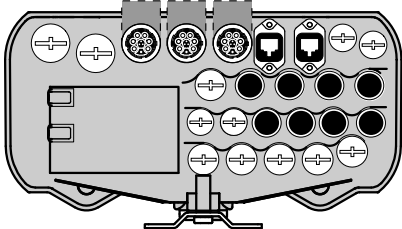
2) Only available in connection with UL

Option	Integrated in	Type
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11

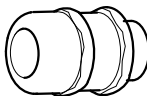


MOVIFIT® MC in connection with hybrid ABOX MTA...-I61...-00 or MTA...-G61...-00

(In preparation)

	EBOX	ABOX
MC	MTM...-00  MOVIFIT® MC For controlling up to 3 MOVIMOT® drives	MTA...-I61...-00 MTA...-G61...-00  Hybrid ABOX With 3 round connectors (Intercontec) (Motor output pointing downward at MTA...-I61..) (Motor output pointing forward at MTA...-G61..) M12 for I/Os And push-pull RJ45 for bus

Function level	Fieldbus	EBOX Type	ABOX Type
Classic	PROFINET (Cu)	MTM11A000-E20A-00	MTA11A-503-I613-M...-00 MTA11A-503-G613-M...-00
Technology	PROFINET (Cu)	MTM11A000-E21A-00	MTA11A-503-I613-M...-00 MTA11A-503-G613-M...-00
	EtherNet/IP (Cu) Modbus/TCP (Cu)	MTM11A000-E31A-00	MTA11A-503-I613-M...-00 MTA11A-503-G613-M...-00

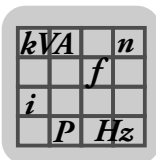
Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Maintenance switch	Integrated in	Type
Load interrupter switch and line protection	ABOX	MTA...-M01-00 (up to 12 A) ¹⁾ MTA...-M14-00 (up to 9 A) ²⁾ MTA...-M15-00 (up to 12 A) ²⁾

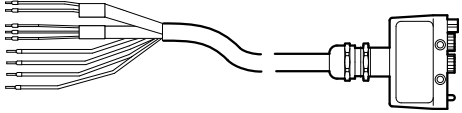
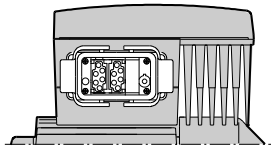
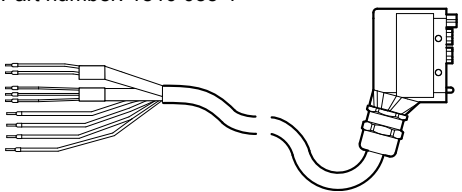
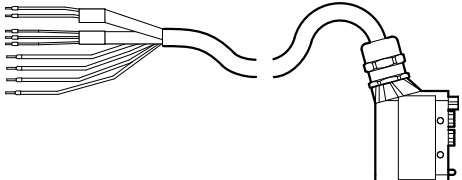
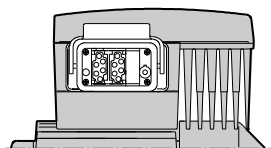
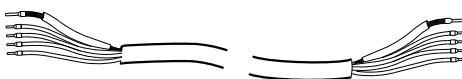
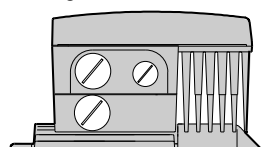
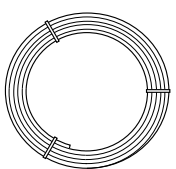
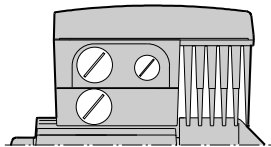
1) Only load disconnecter for UL

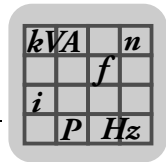
2) Only available in connection with UL

Option	Integrated in	Type
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11


4.11.2 Hybrid cable for connecting MOVIFIT® MC and MOVIMOT®

The following table lists the available hybrid cables for total currents of up to 12 A (with UL approval only up to 9 A):

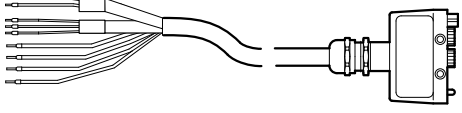
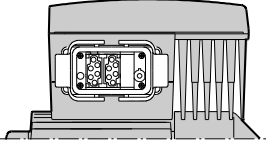
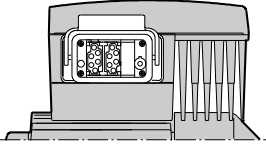
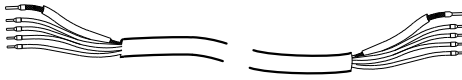
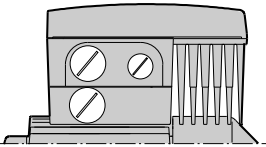
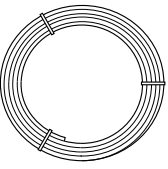
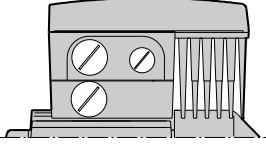
MOVIFIT® MC	Hybrid cables / hybrid cable roll	Length	Cable type	Drive
MC	Standard ABOX: MTA....S01....-00 	Variable	B	MOVIMOT® with AMA6 plug connector 
	Hybrid ABOX: MTA....S41....-00 MTA....S51....-00 MTA....S61....-00 			
	Part number: 1810 056 2 			
	Part number: 0819 871 3 	Variable	B	MOVIMOT® with plug connector AMD6 
	Part number: 0819 947 4 	Variable	B	MOVIMOT® with Cable glands 
	Part number: 0814 517 2 / 30 m Part number: 0814 517 2 / 100 m (Hybrid cable roll) 	30 m 100 m	B	MOVIMOT® with Cable glands 

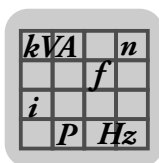


	MOVIFIT® MC	Hybrid cables / hybrid cable roll	Length	Cable type	Drive
MC	Hybrid ABOX:	Hybrid cable with round connector (Intercontec) (In preparation)			MOVIMOT® drive
	MTA....I51.-...-00				
	MTA....G51.-...-00				
	MTA....I61.-...-00				
	MTA....G61.-...-00				

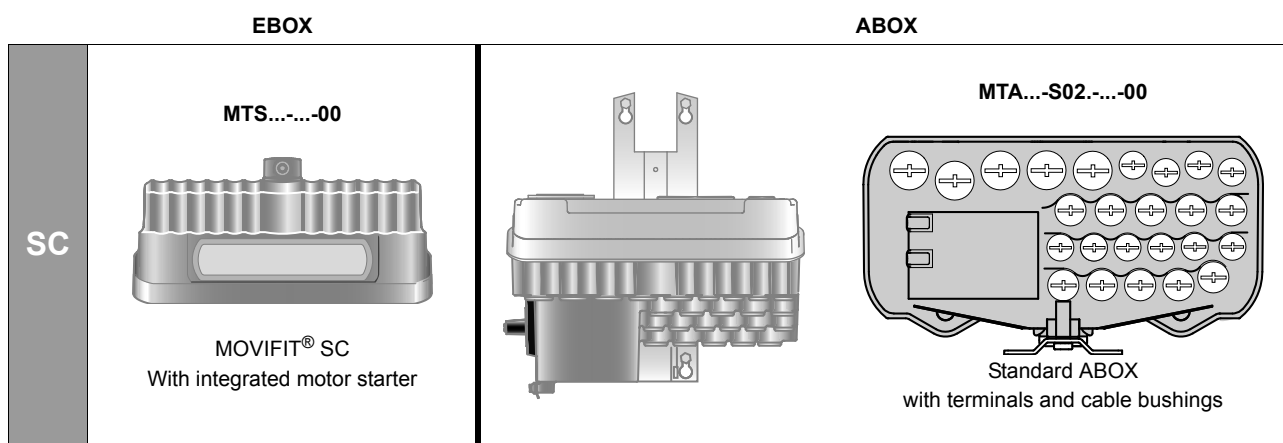
Hybrid cables for UL-compliant installation up to 12 A

For UL-compliant installation with a total current of up to 12 A, only the following hybrid cables are permitted for connecting MOVIFIT® MC and MOVIMOT®

	MOVIFIT® MC	Hybrid cables / hybrid cable roll	Length	Cable type	Drive
MC	Standard ABOX:	Part number: 1811 299 4 	Variable	B/2.5	MOVIMOT® with AMA6 plug connector 
	MTA....S01.-...-00				
	Hybrid ABOX:	Part number: 1811 300 1 	Variable	B/2.5	MOVIMOT® with plug connector AMD6 
	MTA....S41.-...-00				
	MTA....S51.-...-00	Part number: 1811 303 6 	Variable	B/2.5	MOVIMOT® with Cable glands 
	MTA....S61.-...-00				
		Part number: 1328 436 3 / 30 m Part number: 1328 436 3 / 100 m (Hybrid cable roll) 	30 m 100 m	B/2.5	MOVIMOT® with Cable glands 


4.11.3 Available combinations for MOVIFIT® SC

MOVIFIT® SC in connection with standard ABOX MTA...-S02.-...-00

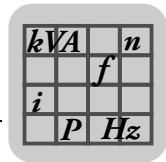


Function level	Fieldbus	Unit power	EBOX Type	ABOX Type
Classic	PROFIBUS	1.5 kW	MTS11A015-503-P10A-00	MTA11A-503-S021-00
		3.0 kW	MTS11A030-503-P10A-00	
	DeviceNet	1.5 kW	MTS11A015-503-D10A-00	MTA11A-503-S022-00
		3.0 kW	MTS11A030-503-D10A-00	
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-S023-00
		3.0 kW	MTS11A030-503-E20A-00	
Technology	PROFIBUS	1.5 kW	MTS11A015-503-P11A-00	MTA11A-503-S021-00
		3.0 kW	MTS11A030-503-P11A-00	
	DeviceNet	1.5 kW	MTS11A015-503-D11A-00	MTA11A-503-S022-00
		3.0 kW	MTS11A030-503-D11A-00	
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-S023-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP (Cu) Modbus/TCP (Cu)	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-S023-00
		3.0 kW	MTS11A030-503-E31A-00	
SBus slave	None	1.5 kW	MTS11A015-503-Z10A-00	MTA11A-503-S021-00
		3.0 kW	MTS11A030-503-Z10A-00	

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-...-M12-00 (up to 9 A) ¹⁾

1) For units with UL, the maintenance switch M12 is mandatory.



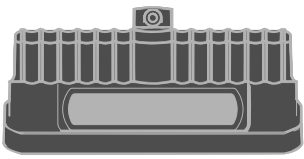
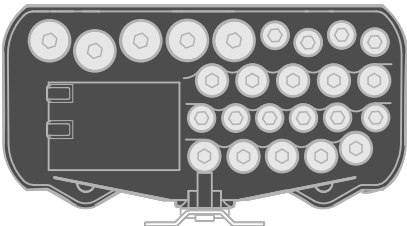
MOVIFIT® SC in connection with standard ABOX and Hygienic^{plus} design



INFORMATION

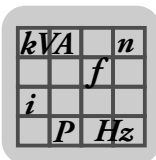
- Enclosure IP69 is only achieved if the plastic screw plugs delivered as standard are replaced by suitable IP69K screw plugs.
- The screw plugs available from SEW-EURODRIVE are listed on the following pages.

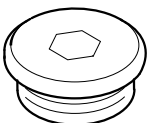
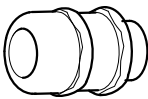
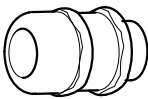
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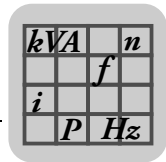
	EBOX	ABOX
SC	MTS12....-....-00  MOVIFIT® SC With integrated motor starter (Hygienic^{plus} design)	MTA12....-S02....-00  Standard ABOX with terminals and cable bushings (Hygienic^{plus} design)

In SEW-EURODRIVE publications, all illustrations of MOVIFIT® in Hygienic^{plus} design are displayed as hatched (= surface coating).

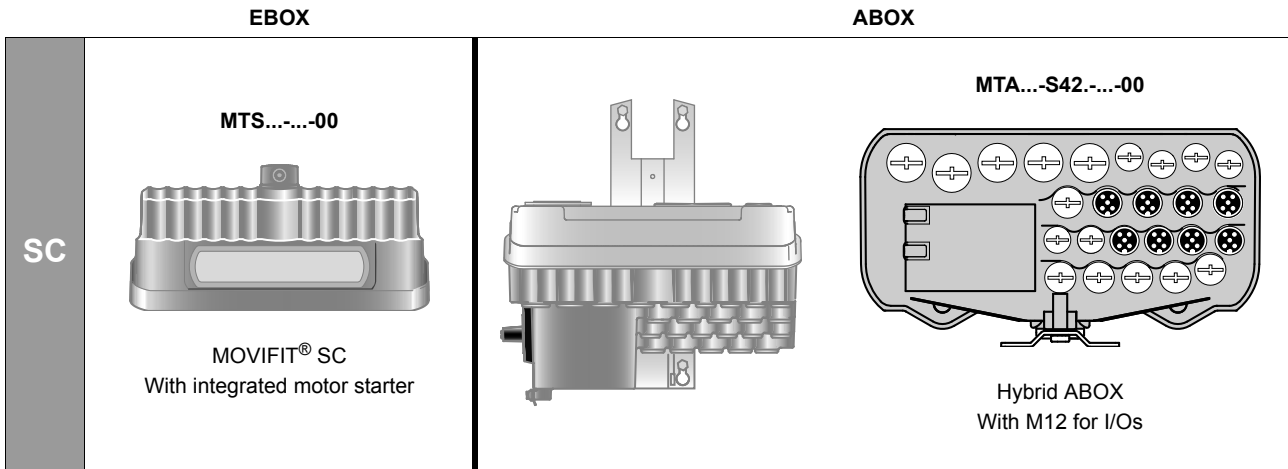
Function level	Fieldbus	Unit power	EBOX Type	ABOX Type
Classic	PROFIBUS	1.5 kW	MTS12A015-503-P10A-00	MTA12A-503-S021-00
		3.0 kW	MTS12A030-503-P10A-00	
	DeviceNet	1.5 kW	MTS12A015-503-D10A-00	MTA12A-503-S022-00
		3.0 kW	MTS12A030-503-D10A-00	
	PROFINET (Cu)	1.5 kW	MTS12A015-503-E20A-00	MTA12A-503-S023-00
		3.0 kW	MTS12A030-503-E20A-00	
Technology	PROFIBUS	1.5 kW	MTS12A015-503-P11A-00	MTA12A-503-S021-00
		3.0 kW	MTS12A030-503-P11A-00	
	DeviceNet	1.5 kW	MTS12A015-503-D11A-00	MTA12A-503-S022-00
		3.0 kW	MTS12A030-503-D11A-00	
	PROFINET (Cu)	1.5 kW	MTS12A015-503-E21A-00	MTA12A-503-S023-00
		3.0 kW	MTS12A030-503-E21A-00	
	EtherNet/IP (Cu) Modbus/TCP (Cu)	1.5 kW	MTS12A015-503-E31A-00	MTA12A-503-S023-00
		3.0 kW	MTS12A030-503-E31A-00	
SBus slave	None	1.5 kW	MTS12A015-503-Z10A-00	MTA12A-503-S021-00
		3.0 kW	MTS12A030-503-Z10A-00	



Screw fitting	Degree of protection	Figure	Content	Size	Part number
Stainless steel screw plugs	IP69K		10 pcs	M16 x 1.5	1820 223 3
			10 pcs	M20 x 1.5	1820 224 1
			10 pcs	M25 x 1.5	1820 226 8
EMC cable gland (brass, nickel plated)	IP66		10 pcs	M16 x 1.5	1820 478 3
			10 pcs	M20 x 1.5	1820 479 1
			10 pcs	M25 x 1.5	1820 480 5
EMC cable gland (stainless steel)	IP69K		10 pcs	M16 x 1.5	1821 636 6
			10 pcs	M20 x 1.5	1821 637 4
			10 pcs	M25 x 1.5	1821 638 2



MOVIFIT® SC in connection with hybrid ABOX MTA...-S42-...-00

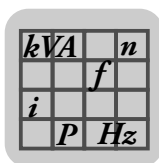
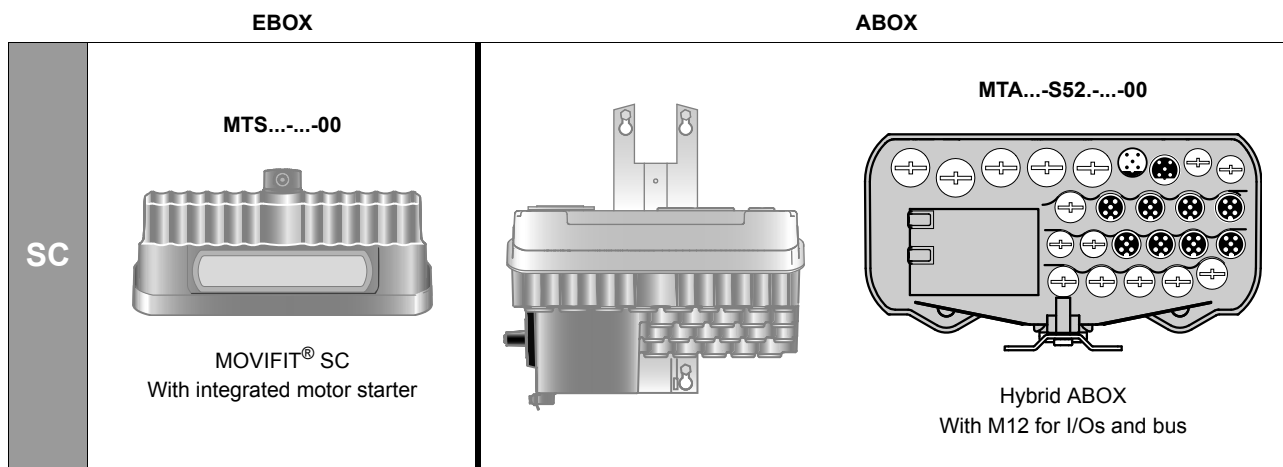


Function level	Fieldbus	Unit power	EBOX Type	ABOX Type
Classic	PROFIBUS	1.5 kW	MTS11A015-503-P10A-00	MTA11A-503-S421-00
		3.0 kW	MTS11A030-503-P10A-00	
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-S423-00
		3.0 kW	MTS11A030-503-E20A-00	
Technology	PROFIBUS	1.5 kW	MTS11A015-503-P11A-00	MTA11A-503-S421-00
		3.0 kW	MTS11A030-503-P11A-00	
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-S423-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP (Cu) Modbus/TCP (Cu)	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-S423-00
		3.0 kW	MTS11A030-503-E31A-00	
SBus slave	None	1.5 kW	MTS11A015-503-Z10A-00	MTA11A-503-S421-00
		3.0 kW	MTS11A030-503-Z10A-00	

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-...-M12-00 (up to 9 A) ¹⁾

1) For units with UL, the maintenance switch M12 is mandatory.

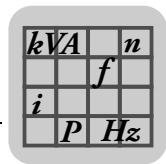

MOVIFIT® SC in connection with hybrid ABOX MTA...-S52-...-00


Function level	Fieldbus	Unit power	EBOX Type	ABOX Type
Classic	PROFIBUS	1.5 kW	MTS11A015-503-P10A-00	MTA11A-503-S521-00
		3.0 kW	MTS11A030-503-P10A-00	
	DeviceNet	1.5 kW	MTS11A015-503-D10A-00	MTA11A-503-S522-00
		3.0 kW	MTS11A030-503-D10A-00	
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-S523-00
		3.0 kW	MTS11A030-503-E20A-00	
Technology	PROFIBUS	1.5 kW	MTS11A015-503-P11A-00	MTA11A-503-S521-00
		3.0 kW	MTS11A030-503-P11A-00	
	DeviceNet	1.5 kW	MTS11A015-503-D11A-00	MTA11A-503-S522-00
		3.0 kW	MTS11A030-503-D11A-00	
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-S523-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP (Cu) Modbus/TCP (Cu)	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-S523-00
		3.0 kW	MTS11A030-503-E31A-00	

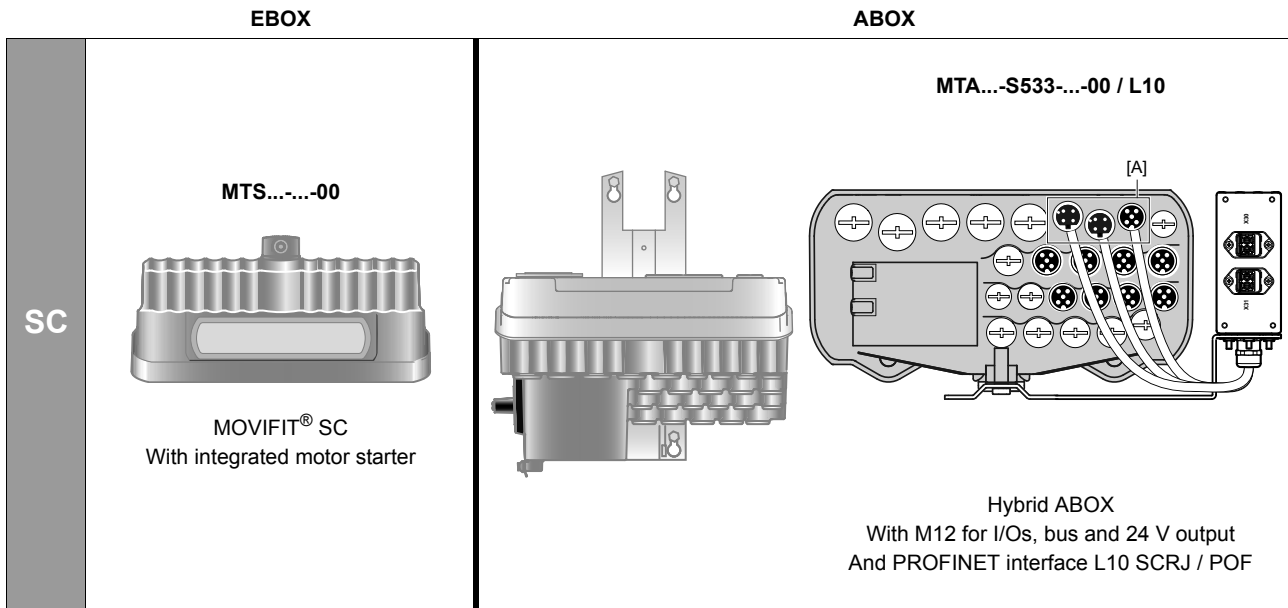
Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-...-M12-00 (up to 9 A) ¹⁾

1) For units with UL, the maintenance switch M12 is mandatory.



MOVIFIT® SC in connection with hybrid ABOX MTA...-S533-...-00 / L10 (POF)



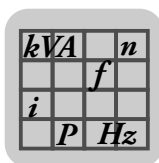
[A] The 3 M12 plug connectors (bus + 24 V) for connecting the POF option L10 are assigned at the factory.

Function level	Fieldbus	Unit power	EBOX Type	ABOX Type
Technology	PROFINET (SCRJ / POF)	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-S533-00/L10
		3.0 kW	MTS11A030-503-E21A-00	

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-D01-00/L10
Load interrupter switch and line protection	ABOX	MTA...-...-M12-00/L10 (up to 9 A) 1)

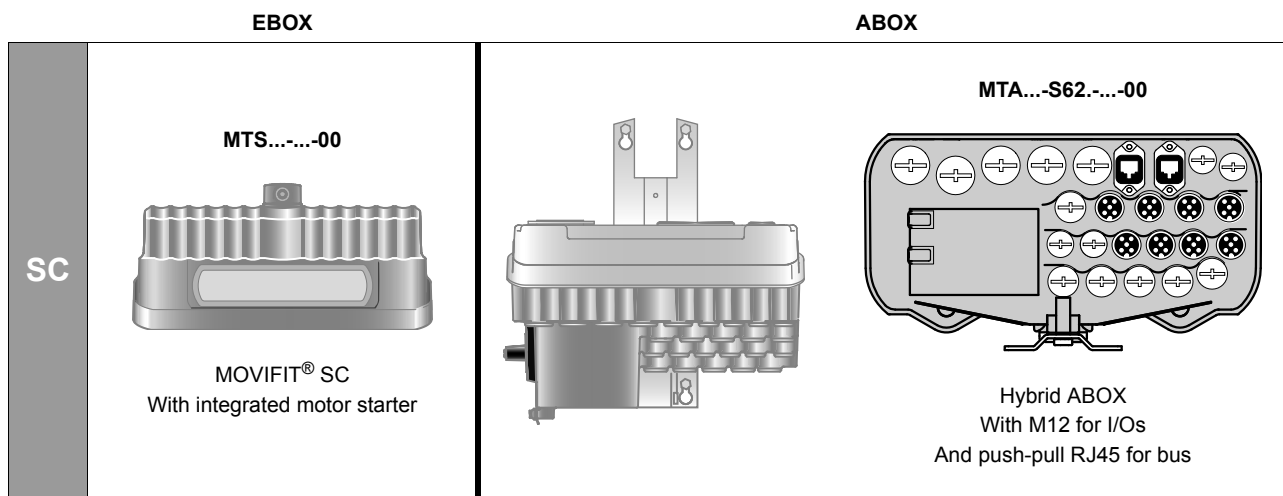
1) In preparation



MOVIFIT® MC / SC / FC

Selection tables

MOVIFIT® SC in connection with hybrid ABOX MTA...-S62-...-00



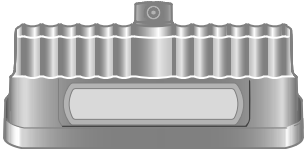
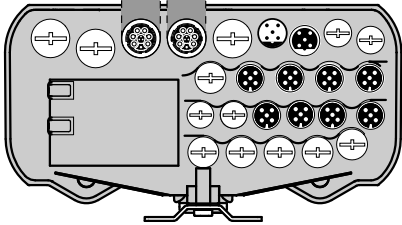
Function level	Fieldbus	Unit power	EBOX Type	ABOX Type
Classic	PROFINET (Cu)	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-S623-00
		3.0 kW	MTS11A030-503-E20A-00	
Technology	PROFINET (Cu)	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-S623-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP (Cu) Modbus/TCP (Cu)	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-S623-00
		3.0 kW	MTS11A030-503-E31A-00	

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

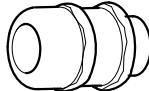
Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-...-M12-00 (up to 9 A) ¹⁾

1) In preparation

MOVIFIT® SC in connection with hybrid ABOX MTA...-I52...-00 and MTA...-G52...-00

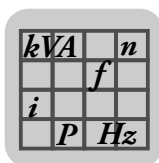
	EBOX	ABOX
SC	MTS...-00  MOVIFIT® SC With integrated motor starter	MTA...-I52...-00 MTA...-G52...-00  Hybrid ABOX With 2 round connectors (Intercontec) (Motor output pointing downward at MTA...-I52...) (Motor output to the front at MTA...-G52...) And M12 for I/Os and bus

Function level	Fieldbus	Unit power	EBOX Type	ABOX Type
Classic	PROFIBUS	1.5 kW	MTS11A015-503-P10A-00	MTA11A-503-I521-00
		3.0 kW	MTS11A030-503-P10A-00	MTA11A-503-G521-00
	DeviceNet	1.5 kW	MTS11A015-503-D10A-00	MTA11A-503-I522-00
		3.0 kW	MTS11A030-503-D10A-00	MTA11A-503-G522-00
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-I523-00
		3.0 kW	MTS11A030-503-E20A-00	MTA11A-503-G523-00
Technology	PROFIBUS	1.5 kW	MTS11A015-503-P11A-00	MTA11A-503-I521-00
		3.0 kW	MTS11A030-503-P11A-00	MTA11A-503-G521-00
	DeviceNet	1.5 kW	MTS11A015-503-D11A-00	MTA11A-503-I522-00
		3.0 kW	MTS11A030-503-D11A-00	MTA11A-503-G522-00
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-I523-00
		3.0 kW	MTS11A030-503-E21A-00	MTA11A-503-G523-00
	EtherNet/IP (Cu) Modbus/TCP (Cu)	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-I523-00
		3.0 kW	MTS11A030-503-E31A-00	MTA11A-503-G523-00

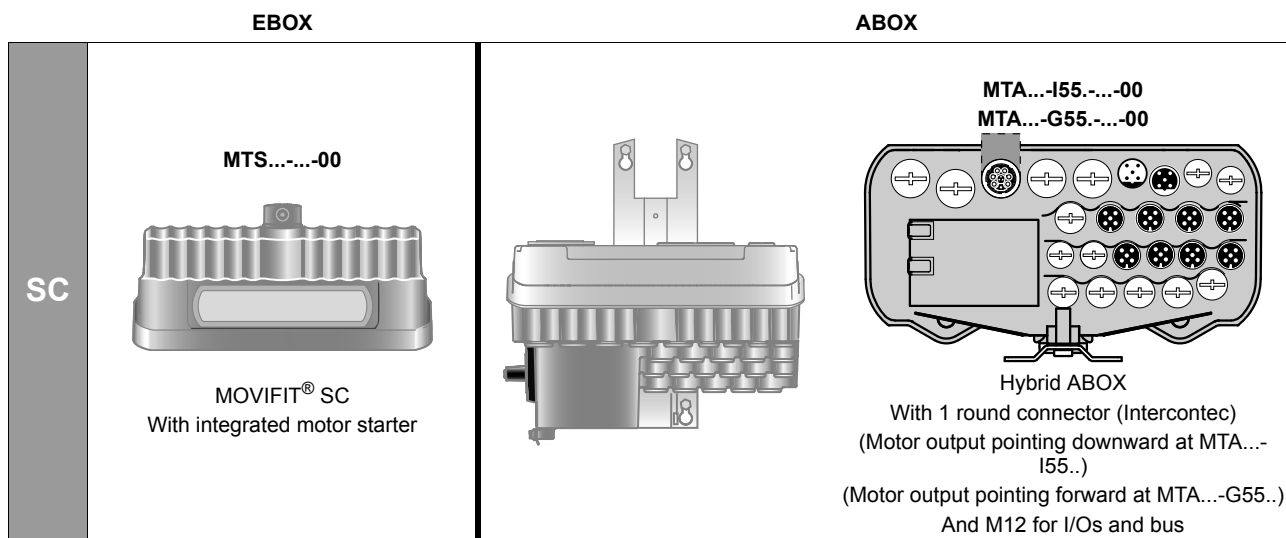
Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-M12-00 (up to 9 A) ¹⁾

1) In preparation



MOVIFIT® SC in connection with hybrid ABOX MTA...-I55...-00 or G55...-00



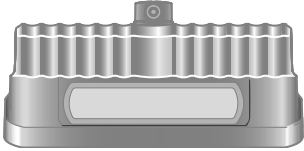
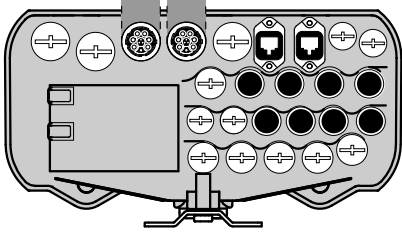
Function level	Fieldbus	Unit power	EBOX Type	ABOX Type
Classic	PROFIBUS	1.5 kW	MTS11A015-503-P10A-00	MTA11A-503-I551-00
		3.0 kW	MTS11A030-503-P10A-00	MTA11A-503-G551-00
	DeviceNet	1.5 kW	MTS11A015-503-D10A-00	MTA11A-503-I552-00
		3.0 kW	MTS11A030-503-D10A-00	MTA11A-503-G552-00
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-I553-00
		3.0 kW	MTS11A030-503-E20A-00	MTA11A-503-G553-00
Technology	PROFIBUS	1.5 kW	MTS11A015-503-P11A-00	MTA11A-503-I551-00
		3.0 kW	MTS11A030-503-P11A-00	MTA11A-503-G551-00
	DeviceNet	1.5 kW	MTS11A015-503-D11A-00	MTA11A-503-I552-00
		3.0 kW	MTS11A030-503-D11A-00	MTA11A-503-G552-00
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-I553-00
		3.0 kW	MTS11A030-503-E21A-00	MTA11A-503-G553-00
	EtherNet/IP (Cu) Modbus/TCP (Cu)	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-I553-00
		3.0 kW	MTS11A030-503-E31A-00	MTA11A-503-G553-00

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

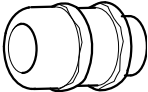
Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-M12-00 (up to 9 A) ¹⁾

1) In preparation

MOVIFIT® SC in connection with hybrid ABOX MTA...-I62...-00 or MTA...-G62...-00

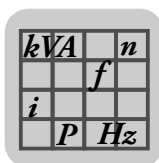
	EBOX	ABOX
SC	MTS...-00  MOVIFIT® SC With integrated motor starter	MTA...-I62...-00 MTA...-G62...-00  Hybrid ABOX With 2 round connectors (Intercontec) (Motor output pointing downward at MTA...-I62...) (Motor output pointing forward at MTA...-G62...) M12 for I/Os And push-pull RJ45 for bus

Function level	Fieldbus	Unit power	EBOX Type	ABOX Type
Classic	PROFINET (Cu)	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-I623-00
		3.0 kW	MTS11A030-503-E20A-00	MTA11A-503-G623-00
Technology	PROFINET (Cu)	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-I623-00
		3.0 kW	MTS11A030-503-E21A-00	MTA11A-503-G623-00
	EtherNet/IP (Cu) Modbus/TCP (Cu)	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-I623-00
		3.0 kW	MTS11A030-503-E31A-00	MTA11A-503-G623-00

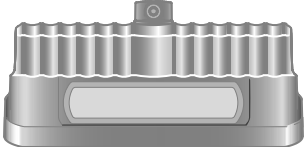
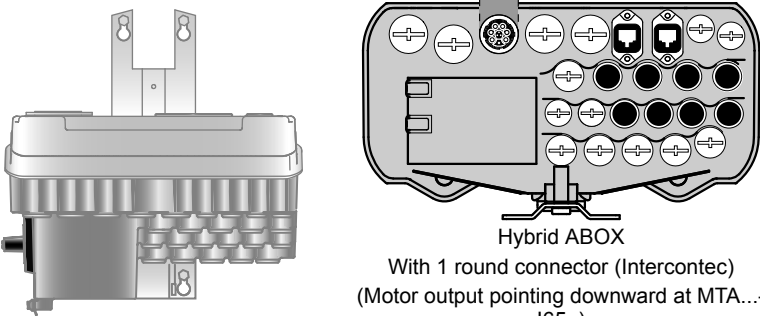
Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-M12-00 (up to 9 A) ¹⁾

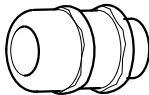
1) In preparation



MOVIFIT® SC in connection with hybrid ABOX MTA...-I65-...-00 or G65-...-00

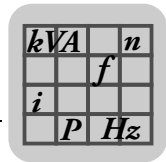
	EBOX	ABOX
SC	MTS...-...-00  MOVIFIT® SC With integrated motor starter	 MTA...-I65-...-00 MTA...-G65-...-00 Hybrid ABOX With 1 round connector (Intercontec) (Motor output pointing downward at MTA...-I65..) (Motor output pointing forward at MTA...-G65..) M12 for I/Os And push-pull RJ45 for bus

Function level	Fieldbus	Unit power	EBOX Type	ABOX Type
Classic	PROFIBUS	1.5 kW	MTS11A015-503-P10A-00	MTA11A-503-I651-00
		3.0 kW	MTS11A030-503-P10A-00	MTA11A-503-G651-00
	DeviceNet	1.5 kW	MTS11A015-503-D10A-00	MTA11A-503-I652-00
		3.0 kW	MTS11A030-503-D10A-00	MTA11A-503-G652-00
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-I653-00
		3.0 kW	MTS11A030-503-E20A-00	MTA11A-503-G653-00
Technology	PROFIBUS	1.5 kW	MTS11A015-503-P11A-00	MTA11A-503-I651-00
		3.0 kW	MTS11A030-503-P11A-00	MTA11A-503-G651-00
	DeviceNet	1.5 kW	MTS11A015-503-D11A-00	MTA11A-503-I652-00
		3.0 kW	MTS11A030-503-D11A-00	MTA11A-503-G652-00
	PROFINET (Cu)	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-I653-00
		3.0 kW	MTS11A030-503-E21A-00	MTA11A-503-G653-00
	EtherNet/IP (Cu) Modbus/TCP (Cu)	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-I653-00
		3.0 kW	MTS11A030-503-E31A-00	MTA11A-503-G653-00

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-...-M12-00 (up to 9 A) ¹⁾

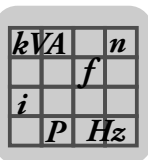
1) In preparation

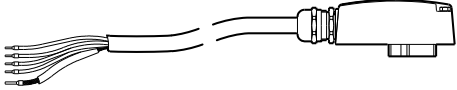
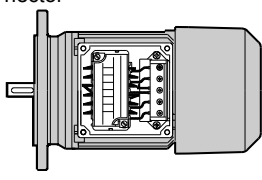
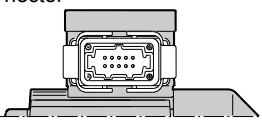
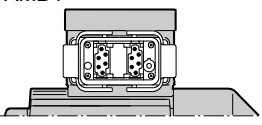
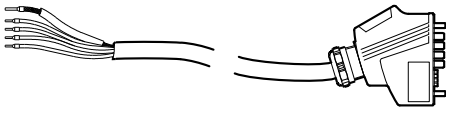
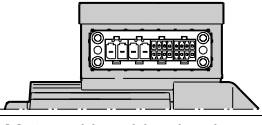
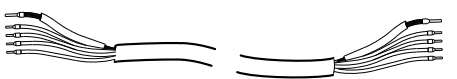
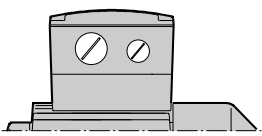
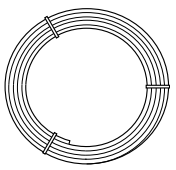
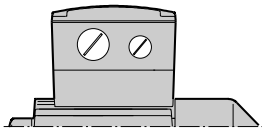


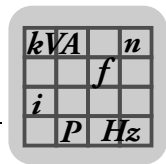
4.11.4 Motor requirements in connection with MOVIFIT® SC

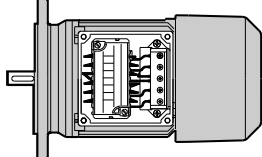
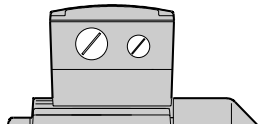
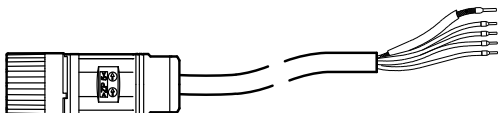
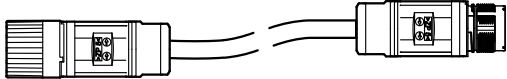
The following table lists the basic requirements and restrictions for assigned motors. Observe these specifications when ordering the drives assigned to MOVIFIT® SC:

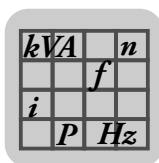
Integral characteristics	Requirements for the assigned AC motor
Permitted motors	Motors within the range 0.25 kW to 3 kW are permitted.
Permitted nominal motor voltage	AC 380 V to AC 500 V
Permitted brakes	No restrictions
Permitted brake voltage	With brakemotors, the brake voltage must correspond to the voltage of the phase voltage (e.g. 400 V line voltage = 400 V brake coil).
Brake rectifier	Always order the assigned motor without brake rectifier .
Permitted plug connectors	The following plug connectors are permitted in connection with the standard or hybrid ABOX: • ISU4 plug connector • ASB4 plug connector • AMB4 plug connector • APG4 plug connector For additional information, refer to section "Hybrid cables for connecting MOVIFIT® SC and motors" (page 156).
Permitted motor protection	• TH thermostat (bimetallic switch) • TF temperature sensor (positive coefficient thermistor or PTC resistor)


4.11.5 Hybrid cable for connecting MOVIFIT® SC and motors

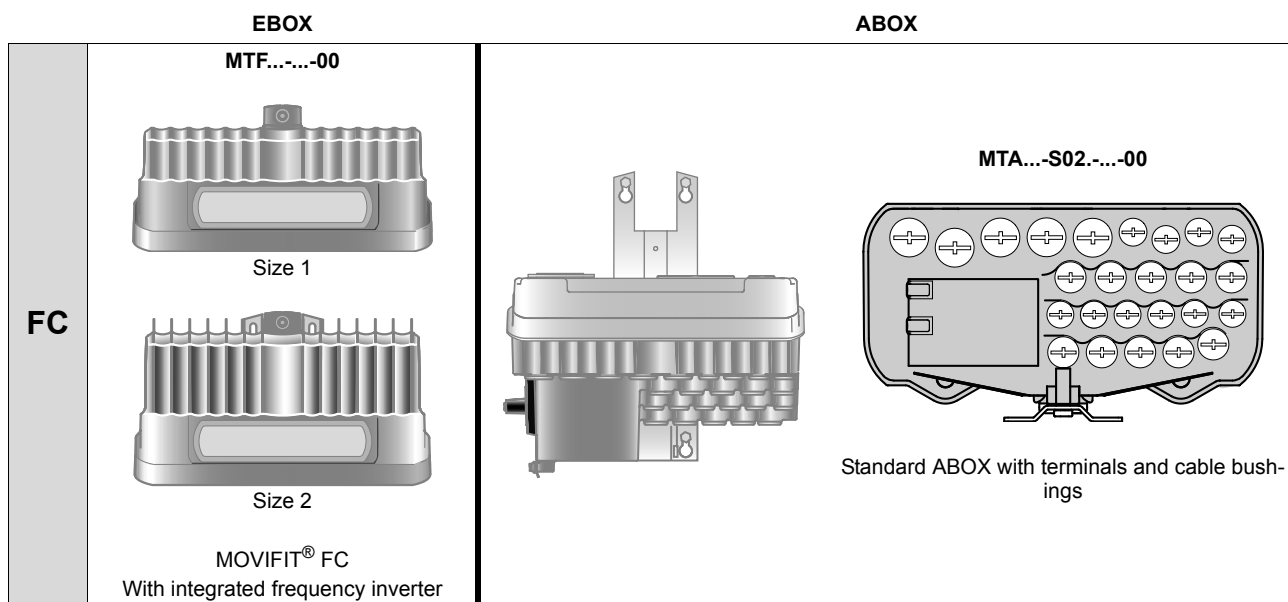
SC	MOVIFIT® SC	Hybrid cables / hybrid cable roll	Length	Cable type	Drive
	Standard ABOX: MTA....S02....-00 Hybrid ABOX: MTA....S42....-00 MTA....S52....-00 MTA....S533....-00 MTA....S62....-00	Part No. DR63 (∧): 0819 967 1 Part No. DR63 (△): 0819 969 8 Part No. DR.71-132 (∧): 0819 970 1 Part No. DR.71-132 (△): 0819 874 8 	Variable	A	Motor with ISU4 plug connector 
		Part number: 0819 972 8 	Variable	A	Motor with ASB4 plug connector 
		Part number: 0819 875 6 	Variable	A	Motor with plug connector AMB4 
		Part number: 0819 973 6 	Variable	A	Motor with APG4 plug connector 
		Part no. DR.71-100 (M4 ring cable lug): 0819 975 2 Part No. DR.112-132 (M5 ring cable lug): 1814 319 9 	Variable	A	Motor with cable glands 
		Part number: 0817 953 0 / 30 m Part number: 0817 953 0 / 100 m (Hybrid cable roll) 	30 m 100 m	A	Motor with cable glands 



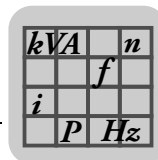
SC	MOVIFIT® SC	Hybrid cable	Length	Cable type	Drive
	Hybrid ABOX:	Part No. DR63 (λ): 1813 841 1 Part No. DR63 (Δ): 1813 843 8	Variable	A	Motor with ISU4 (02CI) plug connector 
	MTA...-I52.-...-00	Part No. DR.71-132 (λ): 1813 833 0 Part No. DR.71-132 (Δ): 1813 836 5			
	MTA...-G52.-...-00				
	MTA...-I55.-...-00				
	MTA...-G55.-...-00	Part no. DR.71-100 (M4 ring cable lug) 1814 187 0 Part no. DR.112-132 (M5 ring cable lug) 1814 223 0	Variable	A	Motor with cable glands 
	MTA...-I62.-...-00				
	MTA...-G62.-...-00				
	MTA...-I65.-...-00	Part number: 1814 105 6			
	MTA...-G65.-...-00				
			Variable	A	Hybrid cable


4.11.6 Available combinations for MOVIFIT® FC

MOVIFIT® FC in connection with standard ABOX MTA...-S02-...-00

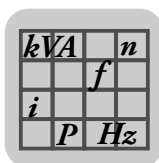


Function level	Fieldbus	Unit power	Size	Type of EBOX □ = Motor assignment (page 160)	Type of ABOX
Classic	PROFIBUS	0.37 kW	1	MTF11A003-503-P10A-□	MTA11A-503-S021-00
		0.55 kW		MTF11A005-503-P10A-□	
		0.75 kW		MTF11A007-503-P10A-□	
		1.1 kW		MTF11A011-503-P10A-□	
		1.5 kW		MTF11A015-503-P10A-□	
		2.2 kW	2	MTF11A022-503-P10A-□	
		3.0 kW		MTF11A030-503-P10A-□	
		4.0 kW		MTF11A040-503-P10A-□	
	DeviceNet	0.37 kW	1	MTF11A003-503-D10A-□	MTA11A-503-S022-00
		0.55 kW		MTF11A005-503-D10A-□	
		0.75 kW		MTF11A007-503-D10A-□	
		1.1 kW		MTF11A011-503-D10A-□	
		1.5 kW		MTF11A015-503-D10A-□	
		2.2 kW	2	MTF11A022-503-D10A-□	
		3.0 kW		MTF11A030-503-D10A-□	
		4.0 kW		MTF11A040-503-D10A-□	
	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E20A-□	MTA11A-503-S023-00
		0.55 kW		MTF11A005-503-E20A-□	
		0.75 kW		MTF11A007-503-E20A-□	
		1.1 kW		MTF11A011-503-E20A-□	
		1.5 kW		MTF11A015-503-E20A-□	
		2.2 kW	2	MTF11A022-503-E20A-□	
		3.0 kW		MTF11A030-503-E20A-□	
		4.0 kW		MTF11A040-503-E20A-□	



Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 160)	Type of ABOX
Technol- ogy	PROFIBUS	0.37 kW	1	MTF11A003-503-P11A-...	MTA11A-503-S021-00
		0.55 kW		MTF11A005-503-P11A-...	
		0.75 kW		MTF11A007-503-P11A-...	
		1.1 kW		MTF11A011-503-P11A-...	
		1.5 kW		MTF11A015-503-P11A-...	
		2.2 kW	2	MTF11A022-503-P11A-...	
		3.0 kW		MTF11A030-503-P11A-...	
		4.0 kW		MTF11A040-503-P11A-...	
	DeviceNet	0.37 kW	1	MTF11A003-503-D11A-...	MTA11A-503-S022-00
		0.55 kW		MTF11A005-503-D11A-...	
		0.75 kW		MTF11A007-503-D11A-...	
		1.1 kW		MTF11A011-503-D11A-...	
		1.5 kW		MTF11A015-503-D11A-...	
		2.2 kW	2	MTF11A022-503-D11A-...	
		3.0 kW		MTF11A030-503-D11A-...	
		4.0 kW		MTF11A040-503-D11A-...	
	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E21A-...	MTA11A-503-S023-00
		0.55 kW		MTF11A005-503-E21A-...	
		0.75 kW		MTF11A007-503-E21A-...	
		1.1 kW		MTF11A011-503-E21A-...	
		1.5 kW		MTF11A015-503-E21A-...	
		2.2 kW	2	MTF11A022-503-E21A-...	
		3.0 kW		MTF11A030-503-E21A-...	
		4.0 kW		MTF11A040-503-E21A-...	
	EtherNet/IP (Cu) Modbus/TCP (CU)	0.37 kW	1	MTF11A003-503-E31A-...	MTA11A-503-S023-00
		0.55 kW		MTF11A005-503-E31A-...	
		0.75 kW		MTF11A007-503-E31A-...	
		1.1 kW		MTF11A011-503-E31A-...	
		1.5 kW		MTF11A015-503-E31A-...	
		2.2 kW	2	MTF11A022-503-E31A-...	
		3.0 kW		MTF11A030-503-E31A-...	
		4.0 kW		MTF11A040-503-E31A-...	
SBus slave	None	0.37 kW	1	MTF11A003-503-Z10A-...	MTA11A-503-S021-00
		0.55 kW		MTF11A005-503-Z10A-...	
		0.75 kW		MTF11A007-503-Z10A-...	
		1.1 kW		MTF11A011-503-Z10A-...	
		1.5 kW		MTF11A015-503-Z10A-...	
		2.2 kW	2	MTF11A022-503-Z10A-...	
		3.0 kW		MTF11A030-503-Z10A-...	
		4.0 kW		MTF11A040-503-Z10A-...	

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5



MOVIFIT® MC / SC / FC

Selection tables

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-...-M11-00 (up to 4 A) ¹⁾ MTA...-...-...-M12-00 (up to 9 A) ¹⁾

1) Only available in connection with UL

Option	Integrated in	Type
Integrated braking resistor For the regenerative load capacity of the braking resistors, refer to section "4Q operation with integrated BW.. braking resistor" (page 299).	ABOX	MTF11A003... to MTF11A015...: /BW1 (part number 1820 705 7)
	ABOX	MTF11A003... to MTF11A040...: /BW2 (part number 1820 754 5)
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative load capacity of the braking resistors, refer to section "4Q operation with brake and external braking resistor" (page 302).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... Up to MTF11A015...	0 828 291 9	0 813 152 X
BW200-005/K-1.5		0 828 283 8	-
BW150-006-T		1 796 956 5	-
BW100-003/K-1.5	MTF11A022... Up to MTF11A040...	0 828 293 5	0 813 152 X
BW100-005/K-1.5		0 828 286 2	-
BW068-006-T		1 797 000 8	-
BW068-012-T		1 797 001 6	-

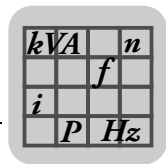
Motor assignment

Depending on the motor used, you have to complete the order designations for the MOVIFIT® EBOX listed in the selection tables as follows:

MOVIFIT®-EBOX MTF11A003-503-E20A-..

10 = DRS 400 V, 50 Hz
11 = DRE 400 V, 50 Hz
15 = DRS/DRE 50 – 60 Hz

9007200824738699



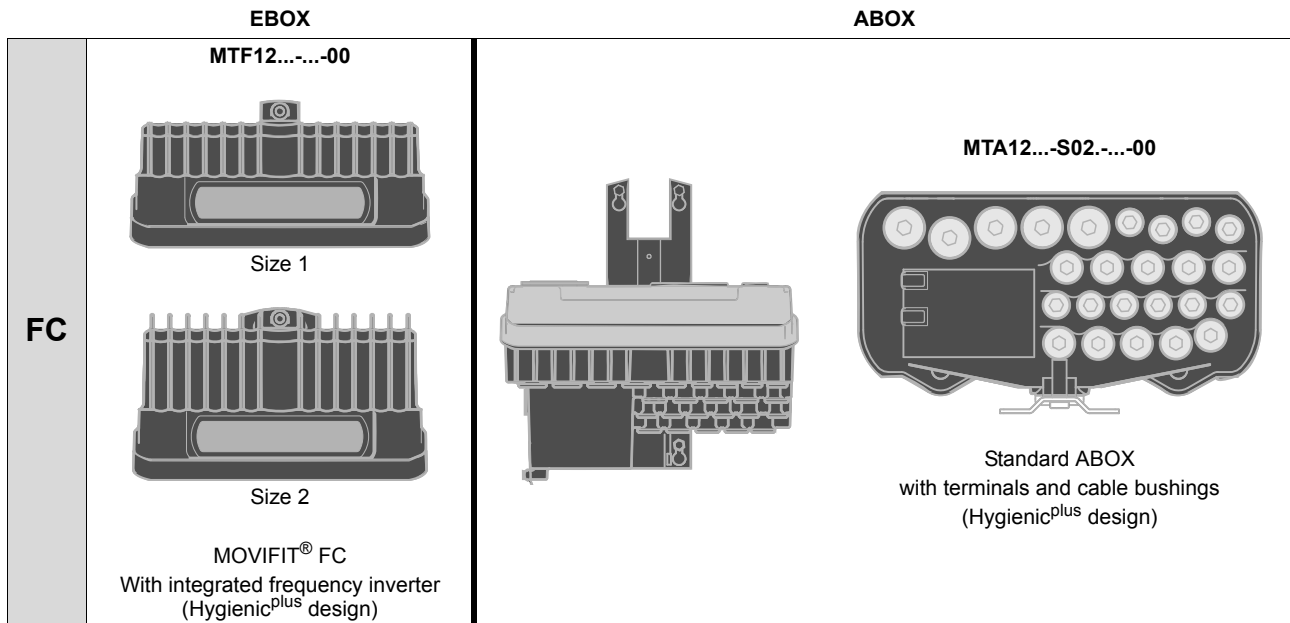
MOVIFIT® FC in connection with standard ABOX and Hygienic^{plus} design



INFORMATION

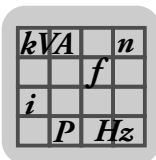
- Enclosure IP69 is only achieved if the plastic screw plugs delivered as standard are replaced by suitable IP69K screw plugs.
- The screw plugs available from SEW-EURODRIVE are listed on the following pages.

4

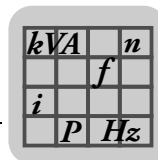


In SEW-EURODRIVE publications, all illustrations of MOVIFIT® in Hygienic^{plus} design are displayed as hatched (= surface coating).

Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 164)	Type of ABOX
Classic	PROFIBUS	0.37 kW	1	MTF12A003-503-P10A-...	MTA12A-503-S021-00
		0.55 kW		MTF12A005-503-P10A-...	
		0.75 kW		MTF12A007-503-P10A-...	
		1.1 kW		MTF12A011-503-P10A-...	
		1.5 kW		MTF12A015-503-P10A-...	
		2.2 kW	2	MTF12A022-503-P10A-...	
		3.0 kW		MTF12A030-503-P10A-...	
		4.0 kW		MTF12A040-503-P10A-...	
	DeviceNet	0.37 kW	1	MTF12A003-503-D10A-...	MTA12A-503-S022-00
		0.55 kW		MTF12A005-503-D10A-...	
		0.75 kW		MTF12A007-503-D10A-...	
		1.1 kW		MTF12A011-503-D10A-...	
		1.5 kW		MTF12A015-503-D10A-...	
		2.2 kW	2	MTF12A022-503-D10A-...	
		3.0 kW		MTF12A030-503-D10A-...	
		4.0 kW		MTF12A040-503-D10A-...	



Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 164)	Type of ABOX
Classic	PROFINET (Cu)	0.37 kW	1	MTF12A003-503-E20A-...	MTA12A-503-S023-00
		0.55 kW		MTF12A005-503-E20A-...	
		0.75 kW		MTF12A007-503-E20A-...	
		1.1 kW		MTF12A011-503-E20A-...	
		1.5 kW		MTF12A015-503-E20A-...	
		2.2 kW	2	MTF12A022-503-E20A-...	
		3.0 kW		MTF12A030-503-E20A-...	
		4.0 kW		MTF12A040-503-E20A-...	
Technology	PROFIBUS	0.37 kW	1	MTF12A003-503-P11A-...	MTA12A-503-S021-00
		0.55 kW		MTF12A005-503-P11A-...	
		0.75 kW		MTF12A007-503-P11A-...	
		1.1 kW		MTF12A011-503-P11A-...	
		1.5 kW		MTF12A015-503-P11A-...	
		2.2 kW	2	MTF12A022-503-P11A-...	
		3.0 kW		MTF12A030-503-P11A-...	
		4.0 kW		MTF12A040-503-P11A-...	
	DeviceNet	0.37 kW	1	MTF12A003-503-D11A-...	MTA12A-503-S022-00
		0.55 kW		MTF12A005-503-D11A-...	
		0.75 kW		MTF12A007-503-D11A-...	
		1.1 kW		MTF12A011-503-D11A-...	
		1.5 kW		MTF12A015-503-D11A-...	
		2.2 kW	2	MTF12A022-503-D11A-...	
		3.0 kW		MTF12A030-503-D11A-...	
		4.0 kW		MTF12A040-503-D11A-...	
	PROFINET (Cu)	0.37 kW	1	MTF12A003-503-E21A-...	MTA12A-503-S023-00
		0.55 kW		MTF12A005-503-E21A-...	
		0.75 kW		MTF12A007-503-E21A-...	
		1.1 kW		MTF12A011-503-E21A-...	
		1.5 kW		MTF12A015-503-E21A-...	
		2.2 kW	2	MTF12A022-503-E21A-...	
		3.0 kW		MTF12A030-503-E21A-...	
		4.0 kW		MTF12A040-503-E21A-...	
	EtherNet/IP (Cu) Modbus/TCP (CU)	0.37 kW	1	MTF12A003-503-E31A-...	MTA12A-503-S023-00
		0.55 kW		MTF12A005-503-E31A-...	
		0.75 kW		MTF12A007-503-E31A-...	
		1.1 kW		MTF12A011-503-E31A-...	
		1.5 kW		MTF12A015-503-E31A-...	
		2.2 kW	2	MTF12A022-503-E31A-...	
		3.0 kW		MTF12A030-503-E31A-...	
		4.0 kW		MTF12A040-503-E31A-...	



Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 164)	Type of ABOX
SBus slave	None	0.37 kW	1	MTF12A003-503-Z10A-...	MTA12A-503-S021-00
		0.55 kW		MTF12A005-503-Z10A-...	
		0.75 kW		MTF12A007-503-Z10A-...	
		1.1 kW		MTF12A011-503-Z10A-...	
		1.5 kW		MTF12A015-503-Z10A-...	
		2.2 kW	2	MTF12A022-503-Z10A-...	
		3.0 kW		MTF12A030-503-Z10A-...	
		4.0 kW		MTF12A040-503-Z10A-...	

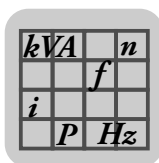
Screw fitting	Degree of protection	Figure	Content	Size	Part number
Stainless steel screw plugs	IP69K		10 pcs	M16 x 1.5	1820 223 3
			10 pcs	M20 x 1.5	1820 224 1
			10 pcs	M25 x 1.5	1820 226 8
EMC cable gland (brass, nickel plated)	IP66		10 pcs	M16 x 1.5	1820 478 3
			10 pcs	M20 x 1.5	1820 479 1
			10 pcs	M25 x 1.5	1820 480 5
EMC cable gland (stainless steel)	IP69K		10 pcs	M16 x 1.5	1821 636 6
			10 pcs	M20 x 1.5	1821 637 4
			10 pcs	M25 x 1.5	1821 638 2

Option	Integrated in	Type
Integrated braking resistor For the regenerative load capacity of the braking resistors, refer to section "4Q operation with integrated BW.. braking resistor" (page 299).	ABOX	MTF11A003... to MTF11A015...: /BW1 (part number 1820 705 7)
	ABOX	MTF11A003... to MTF11A040...: /BW2 (part number 1820 754 5)
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative load capacity of the braking resistors, refer to section "4Q operation with brake and external braking resistor" (page 302).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... Up to MTF11A015...	0 828 291 9	0 813 152 X
BW200-005/K-1.5		0 828 283 8	-
BW150-006-T		1 796 956 5	-
BW100-003/K-1.5	MTF11A022... Up to MTF11A040...	0 828 293 5	0 813 152 X
BW100-005/K-1.5		0 828 286 2	-
BW068-006-T		1 797 000 8	-
BW068-012-T		1 797 001 6	-



MOVIFIT® MC / SC / FC

Selection tables

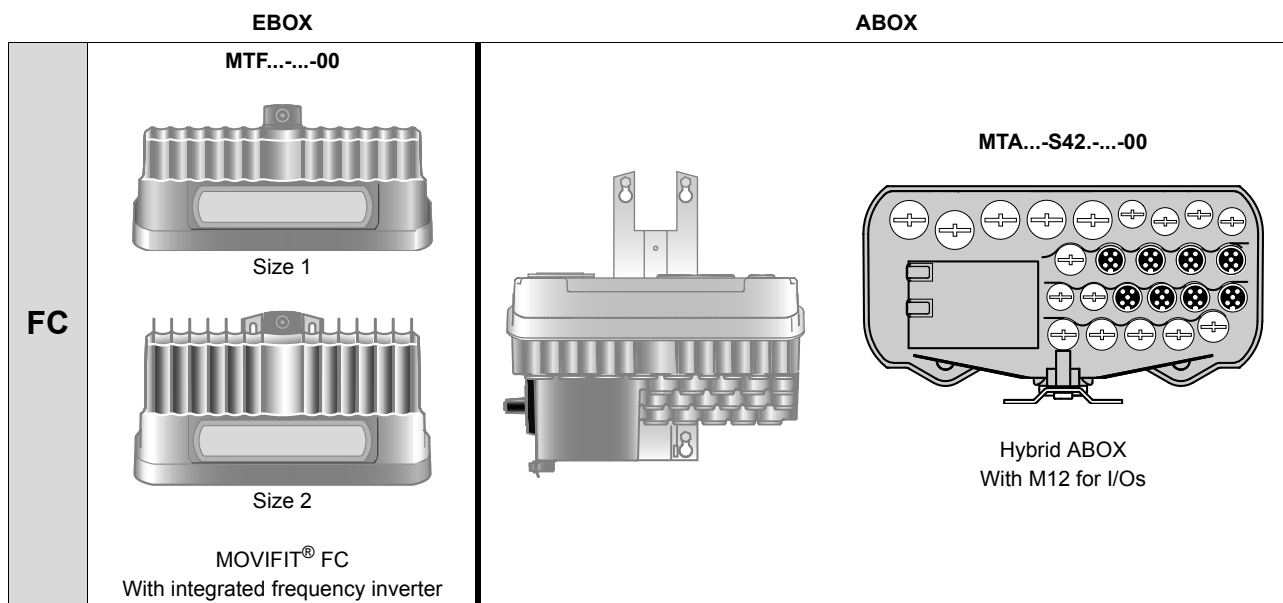
Motor assignment Depending on the motor used, you have to complete the order designations for the MOVIFIT® EBOX listed in the selection tables as follows:

MOVIFIT®-EBOX MTF11A003-503-E20A-...

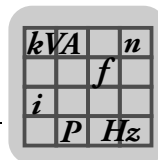
10 = DRS 400 V, 50 Hz
11 = DRE 400 V, 50 Hz
15 = DRS/DRE 50 – 60 Hz

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MOVIFIT® FC in connection with hybrid ABOX MTA...-S42-...-00



Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 166)	Type of ABOX
Classic	PROFIBUS	0.37 kW	1	MTF11A003-503-P10A-...	MTA11A-503-S421-00
		0.55 kW		MTF11A005-503-P10A-...	
		0.75 kW		MTF11A007-503-P10A-...	
		1.1 kW		MTF11A011-503-P10A-...	
		1.5 kW		MTF11A015-503-P10A-...	
		2.2 kW	2	MTF11A022-503-P10A-...	
		3.0 kW		MTF11A030-503-P10A-...	
		4.0 kW		MTF11A040-503-P10A-...	
	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E20A-...	MTA11A-503-S423-00
		0.55 kW		MTF11A005-503-E20A-...	
		0.75 kW		MTF11A007-503-E20A-...	
		1.1 kW		MTF11A011-503-E20A-...	
		1.5 kW		MTF11A015-503-E20A-...	
		2.2 kW	2	MTF11A022-503-E20A-...	
		3.0 kW		MTF11A030-503-E20A-...	
		4.0 kW		MTF11A040-503-E20A-...	

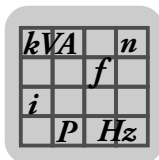


Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 166)	Type of ABOX
Technol- ogy	PROFIBUS	0.37 kW	1	MTF11A003-503-P11A-...	MTA11A-503-S421-00
		0.55 kW		MTF11A005-503-P11A-...	
		0.75 kW		MTF11A007-503-P11A-...	
		1.1 kW		MTF11A011-503-P11A-...	
		1.5 kW		MTF11A015-503-P11A-...	
		2.2 kW	2	MTF11A022-503-P11A-...	
		3.0 kW		MTF11A030-503-P11A-...	
		4.0 kW		MTF11A040-503-P11A-...	
	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E21A-...	MTA11A-503-S423-00
		0.55 kW		MTF11A005-503-E21A-...	
		0.75 kW		MTF11A007-503-E21A-...	
		1.1 kW		MTF11A011-503-E21A-...	
		1.5 kW		MTF11A015-503-E21A-...	
		2.2 kW	2	MTF11A022-503-E21A-...	
		3.0 kW		MTF11A030-503-E21A-...	
		4.0 kW		MTF11A040-503-E21A-...	
	EtherNet/IP (Cu) Modbus/TCP (CU)	0.37 kW	1	MTF11A003-503-E31A-...	MTA11A-503-S423-00
		0.55 kW		MTF11A005-503-E31A-...	
		0.75 kW		MTF11A007-503-E31A-...	
		1.1 kW		MTF11A011-503-E31A-...	
		1.5 kW		MTF11A015-503-E31A-...	
		2.2 kW	2	MTF11A022-503-E31A-...	
		3.0 kW		MTF11A030-503-E31A-...	
		4.0 kW		MTF11A040-503-E31A-...	
SBus slave	None	0.37 kW	1	MTF11A003-503-Z10A-...	MTA11A-503-S421-00
		0.55 kW		MTF11A005-503-Z10A-...	
		0.75 kW		MTF11A007-503-Z10A-...	
		1.1 kW		MTF11A011-503-Z10A-...	
		1.5 kW		MTF11A015-503-Z10A-...	
		2.2 kW	2	MTF11A022-503-Z10A-...	
		3.0 kW		MTF11A030-503-Z10A-...	
		4.0 kW		MTF11A040-503-Z10A-...	

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-M11-00 (up to 4 A) ¹⁾ MTA...-...-M12-00 (up to 9 A) ¹⁾

1) Only available in connection with UL



MOVIFIT® MC / SC / FC

Selection tables

Option	Integrated in	Type
Integrated braking resistor For the regenerative load capacity of the braking resistors, refer to section "4Q operation with integrated BW.. braking resistor" (page 299).	ABOX	MTF11A003... to MTF11A015...: /BW1 (part number 1820 705 7)
	ABOX	MTF11A003... to MTF11A040...: /BW2 (part number 1820 754 5)
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative load capacity of the braking resistors, refer to section "4Q operation with brake and external braking resistor" (page 302).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... Up to MTF11A015...	0 828 291 9	0 813 152 X
BW200-005/K-1.5		0 828 283 8	-
BW150-006-T		1 796 956 5	-
BW100-003/K-1.5	MTF11A022... Up to MTF11A040...	0 828 293 5	0 813 152 X
BW100-005/K-1.5		0 828 286 2	-
BW068-006-T		1 797 000 8	-
BW068-012-T		1 797 001 6	-

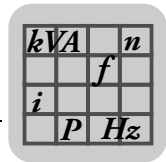
Motor assignment

Depending on the motor used, you have to complete the order designations for the MOVIFIT® EBOX listed in the selection tables as follows:

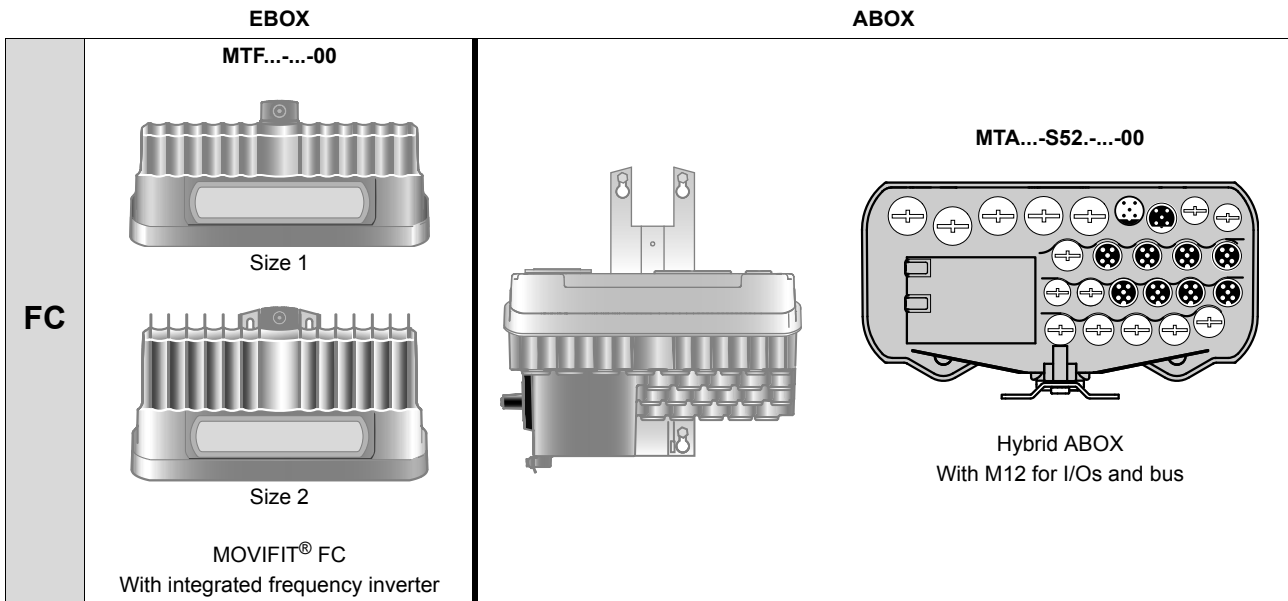
MOVIFIT®-EBOX MTF11A003-503-E20A-...

10 = DRS 400 V, 50 Hz
11 = DRE 400 V, 50 Hz
15 = DRS/DRE 50 – 60 Hz

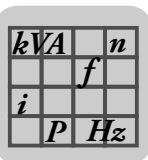
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MOVIFIT® FC in connection with hybrid ABOX MTA...-S52-...-00



Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 169)	Type of ABOX
Classic	PROFIBUS	0.37 kW	1	MTF11A003-503-P10A-...	MTA11A-503-S521-00
		0.55 kW		MTF11A005-503-P10A-...	
		0.75 kW		MTF11A007-503-P10A-...	
		1.1 kW		MTF11A011-503-P10A-...	
		1.5 kW		MTF11A015-503-P10A-...	
		2.2 kW	2	MTF11A022-503-P10A-...	
		3.0 kW		MTF11A030-503-P10A-...	
		4.0 kW		MTF11A040-503-P10A-...	
	DeviceNet	0.37 kW	1	MTF11A003-503-D10A-...	MTA11A-503-S522-00
		0.55 kW		MTF11A005-503-D10A-...	
		0.75 kW		MTF11A007-503-D10A-...	
		1.1 kW		MTF11A011-503-D10A-...	
		1.5 kW		MTF11A015-503-D10A-...	
		2.2 kW	2	MTF11A022-503-D10A-...	
		3.0 kW		MTF11A030-503-D10A-...	
		4.0 kW		MTF11A040-503-D10A-...	
	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E20A-...	MTA11A-503-S523-00
		0.55 kW		MTF11A005-503-E20A-...	
		0.75 kW		MTF11A007-503-E20A-...	
		1.1 kW		MTF11A011-503-E20A-...	
		1.5 kW		MTF11A015-503-E20A-...	
		2.2 kW	2	MTF11A022-503-E20A-...	
		3.0 kW		MTF11A030-503-E20A-...	
		4.0 kW		MTF11A040-503-E20A-...	

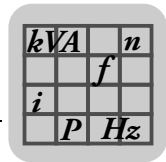


Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 169)	Type of ABOX
Technology	PROFIBUS	0.37 kW	1	MTF11A003-503-P11A-...	MTA11A-503-S521-00
		0.55 kW		MTF11A005-503-P11A-...	
		0.75 kW		MTF11A007-503-P11A-...	
		1.1 kW		MTF11A011-503-P11A-...	
		1.5 kW		MTF11A015-503-P11A-...	
		2.2 kW	2	MTF11A022-503-P11A-...	
		3.0 kW		MTF11A030-503-P11A-...	
		4.0 kW		MTF11A040-503-P11A-...	
	DeviceNet	0.37 kW	1	MTF11A003-503-D11A-...	MTA11A-503-S522-00
		0.55 kW		MTF11A005-503-D11A-...	
		0.75 kW		MTF11A007-503-D11A-...	
		1.1 kW		MTF11A011-503-D11A-...	
		1.5 kW		MTF11A015-503-D11A-...	
		2.2 kW	2	MTF11A022-503-D11A-...	
		3.0 kW		MTF11A030-503-D11A-...	
		4.0 kW		MTF11A040-503-D11A-...	
	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E21A-...	MTA11A-503-S523-00
		0.55 kW		MTF11A005-503-E21A-...	
		0.75 kW		MTF11A007-503-E21A-...	
		1.1 kW		MTF11A011-503-E21A-...	
		1.5 kW		MTF11A015-503-E21A-...	
		2.2 kW	2	MTF11A022-503-E21A-...	
		3.0 kW		MTF11A030-503-E21A-...	
		4.0 kW		MTF11A040-503-E21A-...	
	EtherNet/IP (Cu) Modbus/TCP (CU)	0.37 kW	1	MTF11A003-503-E31A-...	MTA11A-503-S523-00
		0.55 kW		MTF11A005-503-E31A-...	
		0.75 kW		MTF11A007-503-E31A-...	
		1.1 kW		MTF11A011-503-E31A-...	
		1.5 kW		MTF11A015-503-E31A-...	
		2.2 kW	2	MTF11A022-503-E31A-...	
		3.0 kW		MTF11A030-503-E31A-...	
		4.0 kW		MTF11A040-503-E31A-...	

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-M11-00 (up to 4 A) ¹⁾ MTA...-...-M12-00 (up to 9 A) ¹⁾

1) Only available in connection with UL



Option	Integrated in	Type
Integrated braking resistor For the regenerative load capacity of the braking resistors, refer to section "4Q operation with integrated BW.. braking resistor" (page 299).	ABOX	MTF11A003... to MTF11A015...: /BW1 (part number 1820 705 7)
	ABOX	MTF11A003... to MTF11A040...: /BW2 (part number 1820 754 5)
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative load capacity of the braking resistors, refer to section "4Q operation with brake and external braking resistor" (page 302).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... Up to MTF11A015...	0 828 291 9	0 813 152 X
BW200-005/K-1.5		0 828 283 8	-
BW150-006-T		1 796 956 5	-
BW100-003/K-1.5	MTF11A022... Up to MTF11A040...	0 828 293 5	0 813 152 X
BW100-005/K-1.5		0 828 286 2	-
BW068-006-T		1 797 000 8	-
BW068-012-T		1 797 001 6	-

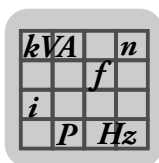
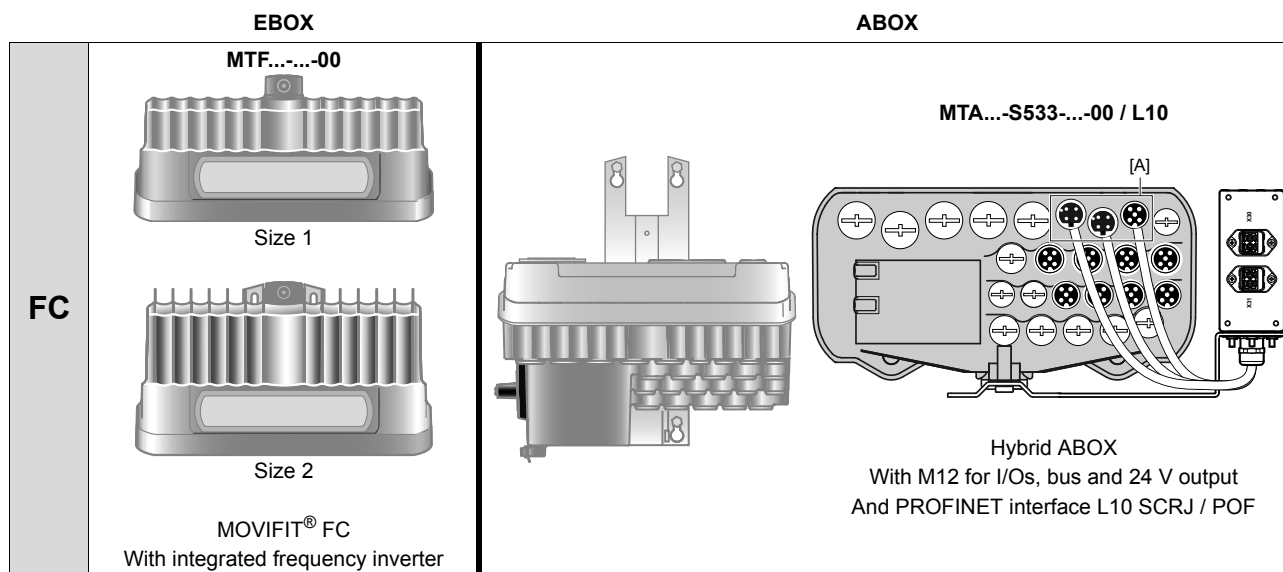
Motor assignment

Depending on the motor used, you have to complete the order designations for the MOVIFIT® EBOX listed in the selection tables as follows:

MOVIFIT®-EBOX MTF11A003-503-E20A-...

10 = DRS 400 V, 50 Hz
11 = DRE 400 V, 50 Hz
15 = DRS/DRE 50 – 60 Hz

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MOVIFIT® FC in connection with hybrid ABOX MTA...-S533-...-00 / L10 (POF)


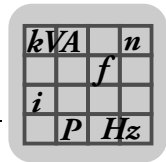
[A] The 3 M12 plug connectors (bus + 24 V) for connecting the POF option L10 are assigned at the factory.

Function level	Fieldbus	Unit power	Size	Type of EBOX	Type of ABOX
				.. = Motor assignment (page 169)	
Technology	PROFINET (SCRJ / POF)	0.37 kW	1	MTF11A003-503-E21A-..	MTA11A-503-S533-00/L10
		0.55 kW		MTF11A005-503-E21A-..	
		0.75 kW		MTF11A007-503-E21A-..	
		1.1 kW		MTF11A011-503-E21A-..	
		1.5 kW		MTF11A015-503-E21A-..	
		2.2 kW	2	MTF11A022-503-E21A-..	
		3.0 kW		MTF11A030-503-E21A-..	
		4.0 kW		MTF11A040-503-E21A-..	

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-...-D01-00/L10
Load interrupter switch and line protection	ABOX	MTA...-...-...-M11-00/L10 (up to 4 A) ¹⁾
		MTA...-...-...-M12-00/L10 (up to 9 A) ¹⁾

1) In preparation



Option	Integrated in	Type
Integrated braking resistor For the regenerative load capacity of the braking resistors, refer to section "4Q operation with integrated BW.. braking resistor" (page 299).	ABOX	MTF11A003... to MTF11A015...: /BW1 (part number 1820 705 7)
	ABOX	MTF11A003... to MTF11A040...: /BW2 (part number 1820 754 5)
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative load capacity of the braking resistors, refer to section "4Q operation with brake and external braking resistor" (page 302).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... Up to MTF11A015...	0 828 291 9	0 813 152 X
BW200-005/K-1.5		0 828 283 8	-
BW150-006-T		1 796 956 5	-
BW100-003/K-1.5	MTF11A022... Up to MTF11A040...	0 828 293 5	0 813 152 X
BW100-005/K-1.5		0 828 286 2	-
BW068-006-T		1 797 000 8	-
BW068-012-T		1 797 001 6	-

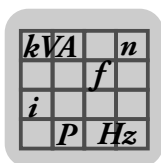
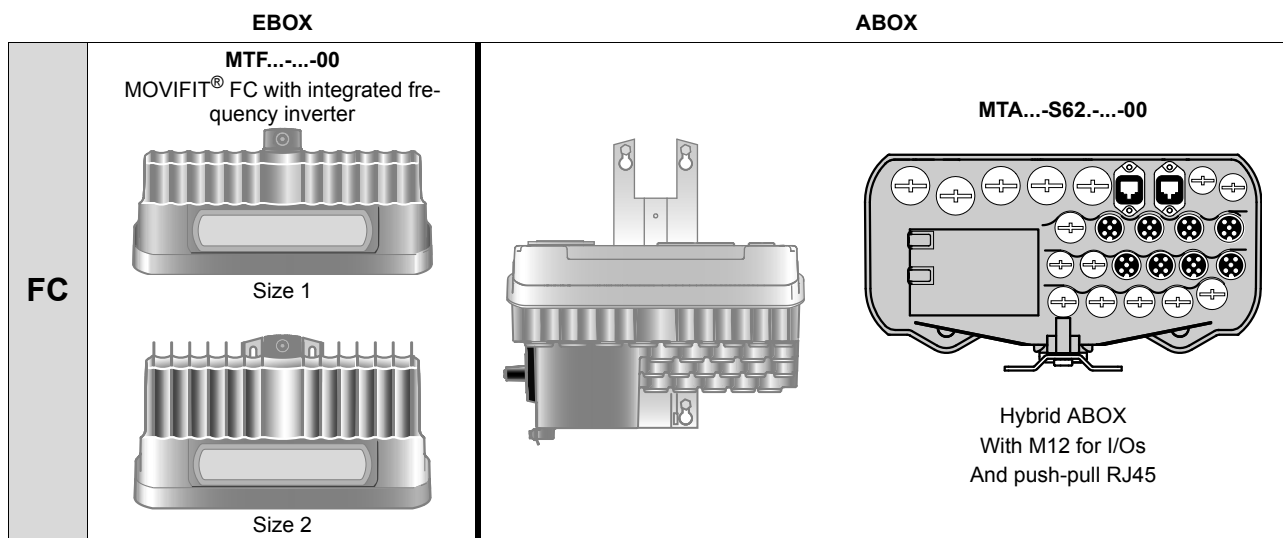
Motor assignment

Depending on the motor used, you have to complete the order designations for the MOVIFIT® EBOX listed in the selection tables as follows:

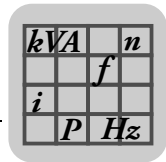
MOVIFIT®-EBOX MTF11A003-503-E20A-...

10 = DRS 400 V, 50 Hz
11 = DRE 400 V, 50 Hz
15 = DRS/DRE 50 – 60 Hz

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MOVIFIT® FC in connection with hybrid ABOX MTA...-S62-...-00


Function level	Fieldbus	Unit power	Size	Type of EBOX .. = Motor assignment (page 173)	Type of ABOX
Classic	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E20A-..	MTA11A-503-S623-00
		0.55 kW		MTF11A005-503-E20A-..	
		0.75 kW		MTF11A007-503-E20A-..	
		1.1 kW		MTF11A011-503-E20A-..	
		1.5 kW		MTF11A015-503-E20A-..	
		2.2 kW	2	MTF11A022-503-E20A-..	
		3.0 kW		MTF11A030-503-E20A-..	
		4.0 kW		MTF11A040-503-E20A-..	
Technology	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E21A-..	MTA11A-503-S623-00
		0.55 kW		MTF11A005-503-E21A-..	
		0.75 kW		MTF11A007-503-E21A-..	
		1.1 kW		MTF11A011-503-E21A-..	
		1.5 kW		MTF11A015-503-E21A-..	
		2.2 kW	2	MTF11A022-503-E21A-..	
		3.0 kW		MTF11A030-503-E21A-..	
		4.0 kW		MTF11A040-503-E21A-..	
	EtherNet/IP (Cu) Modbus/TCP (CU)	0.37 kW	1	MTF11A003-503-E31A-..	MTA11A-503-S623-00
		0.55 kW		MTF11A005-503-E31A-..	
		0.75 kW		MTF11A007-503-E31A-..	
		1.1 kW		MTF11A011-503-E31A-..	
		1.5 kW		MTF11A015-503-E31A-..	
		2.2 kW	2	MTF11A022-503-E31A-..	
		3.0 kW		MTF11A030-503-E31A-..	
		4.0 kW		MTF11A040-503-E31A-..	



Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnect	ABOX	MTA...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-M11-00 (up to 4 A) ¹⁾ MTA...-...-M12-00 (up to 9 A) ¹⁾

1) Only available in connection with UL

Option	Integrated in	Type
Integrated braking resistor For the regenerative load capacity of the braking resistors, refer to section "4Q operation with integrated BW.. braking resistor" (page 299).	ABOX	MTF11A003... to MTF11A015...: /BW1 (part number 1820 705 7)
	ABOX	MTF11A003... to MTF11A040...: /BW2 (part number 1820 754 5)
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative load capacity of the braking resistors, refer to section "4Q operation with brake and external braking resistor" (page 302).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... Up to MTF11A015...	0 828 291 9	0 813 152 X
BW200-005/K-1.5		0 828 283 8	-
BW150-006-T		1 796 956 5	-
BW100-003/K-1.5	MTF11A022... Up to MTF11A040...	0 828 293 5	0 813 152 X
BW100-005/K-1.5		0 828 286 2	-
BW068-006-T		1 797 000 8	-
BW068-012-T		1 797 001 6	-

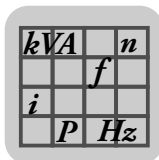
Motor assignment

Depending on the motor used, you have to complete the order designations for the MOVIFIT® EBOX listed in the selection tables as follows:

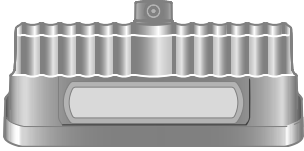
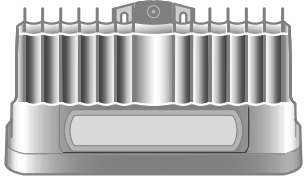
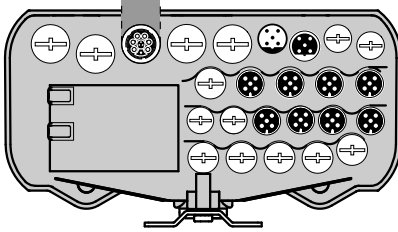
MOVIFIT®-EBOX MTF11A003-503-E20A-...

10 = DRS 400 V, 50 Hz
11 = DRE 400 V, 50 Hz
15 = DRS/DRE 50 – 60 Hz

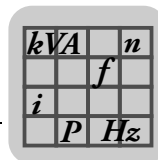
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MOVIFIT® FC in connection with hybrid ABOX MTA...-I55-...-00 or MTA...-G55-...-00

	EBOX	ABOX
FC	MTF...-...-00  Size 1  Size 2 MOVIFIT® FC With integrated frequency inverter	MTA...-I55-...-00 MTA...-G55-...-00  Hybrid ABOX With 1 round connector (Intercontec) (Motor output pointing downward at MTA...-I55..) (Motor output pointing forward at MTA...-G55..) And M12 for I/Os and bus

Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 169)	Type of ABOX
Classic	PROFIBUS	0.37 kW	1	MTF11A003-503-P10A-...	MTA11A-503-I551-00 MTA11A-503-G551-00
		0.55 kW		MTF11A005-503-P10A-...	
		0.75 kW		MTF11A007-503-P10A-...	
		1.1 kW		MTF11A011-503-P10A-...	
		1.5 kW	2	MTF11A015-503-P10A-...	
		2.2 kW		MTF11A022-503-P10A-...	
		3.0 kW		MTF11A030-503-P10A-...	
		4.0 kW		MTF11A040-503-P10A-...	
	DeviceNet	0.37 kW	1	MTF11A003-503-D10A-...	MTA11A-503-I552-00 MTA11A-503-G552-00
		0.55 kW		MTF11A005-503-D10A-...	
		0.75 kW		MTF11A007-503-D10A-...	
		1.1 kW		MTF11A011-503-D10A-...	
		1.5 kW	2	MTF11A015-503-D10A-...	
		2.2 kW		MTF11A022-503-D10A-...	
		3.0 kW		MTF11A030-503-D10A-...	
		4.0 kW		MTF11A040-503-D10A-...	
	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E20A-...	MTA11A-503-I553-00 MTA11A-503-G553-00
		0.55 kW		MTF11A005-503-E20A-...	
		0.75 kW		MTF11A007-503-E20A-...	
		1.1 kW		MTF11A011-503-E20A-...	
		1.5 kW	2	MTF11A015-503-E20A-...	
		2.2 kW		MTF11A022-503-E20A-...	
		3.0 kW		MTF11A030-503-E20A-...	
		4.0 kW		MTF11A040-503-E20A-...	

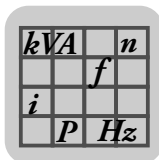


Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 169)	Type of ABOX
Technology	PROFIBUS	0.37 kW	1	MTF11A003-503-P11A-...	MTA11A-503-I551-00 MTA11A-503-G551-00
		0.55 kW		MTF11A005-503-P11A-...	
		0.75 kW		MTF11A007-503-P11A-...	
		1.1 kW		MTF11A011-503-P11A-...	
		1.5 kW		MTF11A015-503-P11A-...	
		2.2 kW	2	MTF11A022-503-P11A-...	
		3.0 kW		MTF11A030-503-P11A-...	
		4.0 kW		MTF11A040-503-P11A-...	
	DeviceNet	0.37 kW	1	MTF11A003-503-D11A-...	MTA11A-503-I552-00 MTA11A-503-G552-00
		0.55 kW		MTF11A005-503-D11A-...	
		0.75 kW		MTF11A007-503-D11A-...	
		1.1 kW		MTF11A011-503-D11A-...	
		1.5 kW		MTF11A015-503-D11A-...	
		2.2 kW	2	MTF11A022-503-D11A-...	
		3.0 kW		MTF11A030-503-D11A-...	
		4.0 kW		MTF11A040-503-D11A-...	
	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E21A-...	MTA11A-503-I553-00 MTA11A-503-G553-00
		0.55 kW		MTF11A005-503-E21A-...	
		0.75 kW		MTF11A007-503-E21A-...	
		1.1 kW		MTF11A011-503-E21A-...	
		1.5 kW		MTF11A015-503-E21A-...	
		2.2 kW	2	MTF11A022-503-E21A-...	
		3.0 kW		MTF11A030-503-E21A-...	
		4.0 kW		MTF11A040-503-E21A-...	
	EtherNet/IP (Cu) Modbus/TCP (CU)	0.37 kW	1	MTF11A003-503-E31A-...	MTA11A-503-I553-00 MTA11A-503-G553-00
		0.55 kW		MTF11A005-503-E31A-...	
		0.75 kW		MTF11A007-503-E31A-...	
		1.1 kW		MTF11A011-503-E31A-...	
		1.5 kW		MTF11A015-503-E31A-...	
		2.2 kW	2	MTF11A022-503-E31A-...	
		3.0 kW		MTF11A030-503-E31A-...	
		4.0 kW		MTF11A040-503-E31A-...	

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-M11-00 (up to 4 A) ¹⁾ MTA...-...-M12-00 (up to 9 A) ¹⁾

1) In preparation



MOVIFIT® MC / SC / FC

Selection tables

Option	Integrated in	Type
Integrated braking resistor For the regenerative load capacity of the braking resistors, refer to section "4Q operation with integrated BW.. braking resistor" (page 299).	ABOX	MTF11A003... to MTF11A015...: /BW1 (part number 1820 705 7)
	ABOX	MTF11A003... to MTF11A040...: /BW2 (part number 1820 754 5)
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative load capacity of the braking resistors, refer to section "4Q operation with brake and external braking resistor" (page 302).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... Up to MTF11A015...	0 828 291 9	0 813 152 X
BW200-005/K-1.5		0 828 283 8	-
BW150-006-T		1 796 956 5	-
BW100-003/K-1.5	MTF11A022... Up to MTF11A040...	0 828 293 5	0 813 152 X
BW100-005/K-1.5		0 828 286 2	-
BW068-006-T		1 797 000 8	-
BW068-012-T		1 797 001 6	-

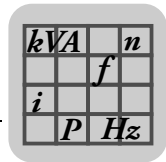
Motor assignment

Depending on the motor used, you have to complete the order designations for the MOVIFIT® EBOX listed in the selection tables as follows:

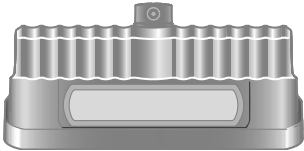
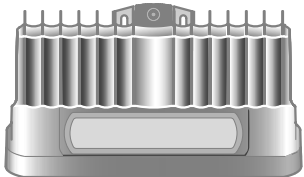
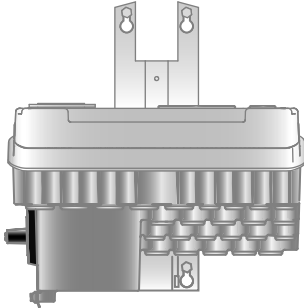
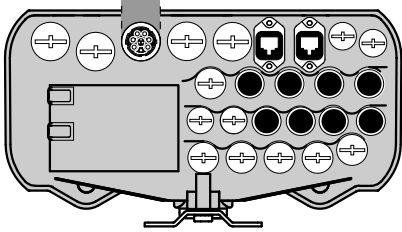
MOVIFIT®-EBOX MTF11A003-503-E20A-...

10 = DRS 400 V, 50 Hz
11 = DRE 400 V, 50 Hz
15 = DRS/DRE 50 – 60 Hz

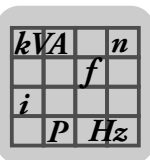
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MOVIFIT® FC in connection with hybrid ABOX MTA...-I65-...-00 or MTA...-G65-...-00

EBOX		ABOX	
FC	MTF...-...-00  Size 1  Size 2 MOVIFIT® FC With integrated frequency inverter	 MTA...-I65-...-00 MTA...-G65-...-00 Hybrid ABOX With 1 round connector (Intercontec) (Motor output pointing downward at MTA...-I65..) (Motor output pointing forward at MTA...-G65..) M12 for I/Os And push-pull RJ45 for bus	

Function level	Fieldbus	Unit power	Size	Type of EBOX ... = Motor assignment (page 178)	Type of ABOX
Classic	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E20A-...	MTA11A-503-I653-00 MTA11A-503-G653-00
		0.55 kW		MTF11A005-503-E20A-...	
		0.75 kW		MTF11A007-503-E20A-...	
		1.1 kW		MTF11A011-503-E20A-...	
		1.5 kW		MTF11A015-503-E20A-...	
		2.2 kW	2	MTF11A022-503-E20A-...	
		3.0 kW		MTF11A030-503-E20A-...	
		4.0 kW		MTF11A040-503-E20A-...	
Technology	PROFINET (Cu)	0.37 kW	1	MTF11A003-503-E21A-...	MTA11A-503-I653-00 MTA11A-503-G653-00
		0.55 kW		MTF11A005-503-E21A-...	
		0.75 kW		MTF11A007-503-E21A-...	
		1.1 kW		MTF11A011-503-E21A-...	
		1.5 kW		MTF11A015-503-E21A-...	
		2.2 kW	2	MTF11A022-503-E21A-...	
		3.0 kW		MTF11A030-503-E21A-...	
		4.0 kW		MTF11A040-503-E21A-...	
	EtherNet/IP (Cu) Modbus/TCP (CU)	0.37 kW	1	MTF11A003-503-E31A-...	MTA11A-503-I653-00 MTA11A-503-G653-00
		0.55 kW		MTF11A005-503-E31A-...	
		0.75 kW		MTF11A007-503-E31A-...	
		1.1 kW		MTF11A011-503-E31A-...	
		1.5 kW		MTF11A015-503-E31A-...	
		2.2 kW	2	MTF11A022-503-E31A-...	
		3.0 kW		MTF11A030-503-E31A-...	
		4.0 kW		MTF11A040-503-E31A-...	



MOVIFIT® MC / SC / FC

Selection tables

Screw fitting	Figure	Content	Size	Part number
EMC cable gland (brass, nickel plated)		10 pcs	M16 x 1.5	1820 478 3
		10 pcs	M20 x 1.5	1820 479 1
		10 pcs	M25 x 1.5	1820 480 5

Optional maintenance switch	Integrated in	Type
Load disconnecter	ABOX	MTA...-...-...-D01-00
Load interrupter switch and line protection	ABOX	MTA...-...-...-M11-00 (up to 4 A) ¹⁾ MTA...-...-...-M12-00 (up to 9 A) ¹⁾

1) In preparation

Option	Integrated in	Type
Integrated braking resistor For the regenerative load capacity of the braking resistors, refer to section "4Q operation with integrated BW.. braking resistor" (page 299).	ABOX	MTF11A003... to MTF11A015...: /BW1 (part number 1820 705 7)
	ABOX	MTF11A003... to MTF11A040...: /BW2 (part number 1820 754 5)
PROFIsafe extension with 4 x FDI + 2 x FDO	EBOX	/S11

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative load capacity of the braking resistors, refer to section "4Q operation with brake and external braking resistor" (page 302).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... Up to MTF11A015...	0 828 291 9	0 813 152 X
BW200-005/K-1.5		0 828 283 8	-
BW150-006-T		1 796 956 5	-
BW100-003/K-1.5	MTF11A022... Up to MTF11A040...	0 828 293 5	0 813 152 X
BW100-005/K-1.5		0 828 286 2	-
BW068-006-T		1 797 000 8	-
BW068-012-T		1 797 001 6	-

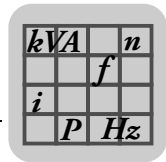
Motor assignment

Depending on the motor used, you have to complete the order designations for the MOVIFIT® EBOX listed in the selection tables as follows:

MOVIFIT®-EBOX MTF11A003-503-E20A-...

10 = DRS 400 V, 50 Hz
11 = DRE 400 V, 50 Hz
15 = DRS/DRE 50 – 60 Hz

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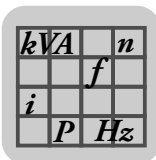


4.11.7 Motor requirements in connection with MOVIFIT® FC

The following table lists the basic requirements and restrictions for assigned motors. Observe these specifications when ordering the drives assigned to MOVIFIT® FC:

Integral characteristics	Requirements for the assigned AC motor
Permitted motors and brakes	The permitted motors and brakes are listed in section "Assignment of MOVIFIT® FC to SEW AC motors (page 180)".
Preferred brake voltage	- Size 1 (MTF11A003.. to MTF11A015..): 230 V - Size 2 (MTF11A022.. to MTF11A040..): 120 V
Brake rectifier	Always order the assigned motor without brake rectifier .
Permitted plug connectors	The following plug connectors are permitted in connection with the standard or hybrid ABOX: - ISU4 plug connector - ASB4 plug connector - AMB4 plug connector - APG4 plug connector For additional information, refer to section "Hybrid cables for connecting MOVIFIT® FC and motors" (page 182).
Permitted motor protection	- TH thermostat (bimetallic switch) - TF temperature sensor (positive coefficient thermistor or PTC resistor)¹⁾
Permitted encoder system	In connection with DR motors: - EI71 incremental encoder - EI72 incremental encoder - EI76 incremental encoder - EI7C incremental encoder Can be evaluated in connection with MOVIFIT® function level Technology. For additional information, refer to section "Connection options for encoders" (page 135).

1) TF not permitted in connection with 3 motors as group drive


4.11.8 Assignment of MOVIFIT® FC to SEW AC motors

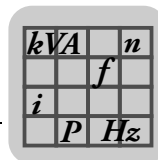
INFORMATION

- As a standard, i.e. when MOVIFIT® FC in Easy mode is parameterized via DIP switches, the following motor/brake combinations can be started up with the corresponding MOVIFIT® FC (see tables below).
- For the regenerative load capacity of the brake coils, refer to section "4Q operation with motors with mechanical brake" (page 301).
- Expanded parameterization in Expert mode via fieldbus or diagnostic interface allows for additional motor/brake combinations. Refer to the following publications for additional information:
 - "MOVIFIT® Function Level Classic" manual
 - "MOVIFIT® Function Level Technology" manual

DR motors

DRE		V = AC 3 x 400 V, 50 Hz										
MOVIFIT®	Assigned DRS motor and brake ¹⁾											
	S10/5 = OFF						S10/5 = ON					
	└ connection			△ connection			└ connection			△ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Stand- ard	Option		Stand- ard	Option		Stand- ard	Option		Stand- ard	Option
MTF..003..11	DRE80 S4 0.37 kW	BE05	BE1	DRE80 S4 0.25 kW	BE05	BE1	DRE80 S4 0.25 kW	BE05	BE1	-	-	-
MTF..005..11	DRE80 M4 0.55 kW	BE1	BE05	DRE80 S4 0.37 kW	BE05	BE1	DRE80 S4 0.37 kW	BE05	BE1	DRE80 S4 0.25 kW	BE05	BE1
MTF..007..11	DRE80 M4 0.75 kW	BE1	BE05	DRE80 M4 0.55 kW	BE1	BE05	DRE80 M4 0.55 kW	BE1	BE05	DRE80 S4 0.37 kW	BE5	BE1
MTF..011..11	DRE90 M4	BE2	BE1	DRE80 M4 0.75 kW	BE1	BE05	DRE80 M4 0.75 kW	BE1	BE05	DRE80 M4 0.55 kW	BE1	BE05
MTF..015..11	DRE90 L4	BE2	BE1	DRE90 M4	BE2	BE1	DRE90 M4	BE2	BE1	DRE80 M4 0.75 kW	BE1	BE05
MTF..022..11	DRE100 M4	BE5	BE2	DRE90 L4	BE2	BE1	DRE90 L4	BE2	BE1	DRE90 M4	BE2	BE1
MTF..030..11	DRE100 LC4	BE5	BE2	DRE100 M4	BE5	BE2	DRE100 M4	BE5	BE2	DRE90 L4	BE2	BE1
MTF..040..11	DRE132 S4	BE5	BE11	DRE100 LC4	BE5	BE2	DRE100 LC4	BE5	BE2	DRE100 M4	BE5	BE2

1) Possible brake voltages: 120 V, 230 V, 400 V



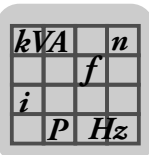
DRS – DRE (global motor)							V = AC 3 x 400 V, 50 Hz or AC 3 x 460 V, 60 Hz					
MOVIFIT®	Assigned DR motor and brake ¹⁾											
	S10/5 = OFF						S10/5 = ON					
	Y connection			Δ connection			Y connection			Δ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..15	DRS71 S4	BE05	BE1	DR63 L4 ²⁾	BR03	BR03	DR63 L4 ²⁾	BR03	BR03	-	-	-
MTF..005..15	DRS71 M4	BE1	BE05	DRS71 S4	BE05	BE1	DRS71 S4	BE05	BE1	DR63 L4 ²⁾	BR03	BR03
MTF..007..15	DRE80 M4	BE1	BE05	DRS71 M4	BE1	BE05	DRS71 M4	BE1	BE05	DRS71 S4	BE05	BE1
MTF..011..15	DRE90 M4	BE2	BE1	DRE80 M4	BE1	BE05	DRE80 M4	BE1	BE05	DRS71 M4	BE1	BE05
MTF..015..15	DRE90 L4	BE2	BE1	DRE90 M4	BE2	BE1	DRE90 M4	BE2	BE1	DRE80 M4	BE1	BE05
MTF..022..15	DRE100 L4	BE5	BE2	DRE90 L4	BE2	BE1	DRE90 L4	BE2	BE1	DRE90 M4	BE2	BE1
MTF..030..15	DRE100 LC4	BE5	BE2	DRE100 L4	BE5	BE2	DRE100 L4	BE5	BE2	DRE90 L4	BE2	BE1
MTF..040..15	DRE132 S4	BE5	BE11	DRE100 LC4	BE5	BE2	DRE100 LC4	BE5	BE2	DRE100 L4	BE5	BE2

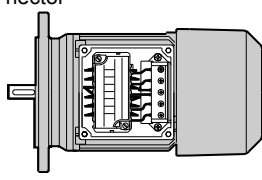
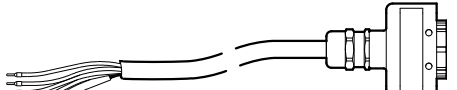
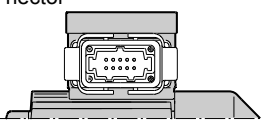
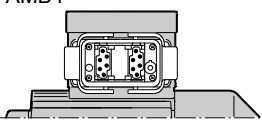
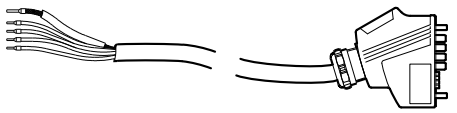
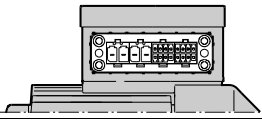
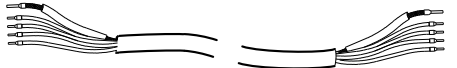
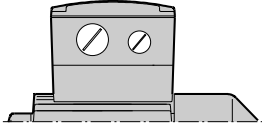
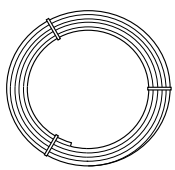
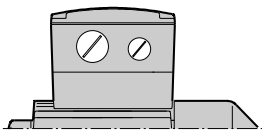
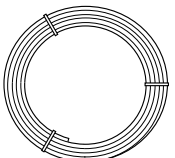
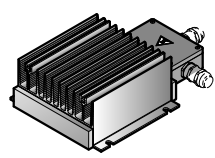
1) Possible brake voltages: 120 V, 230 V, 400 V

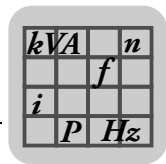
2) Incorporated in the data set, but only available as IEC motor (no global motor)

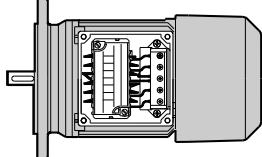
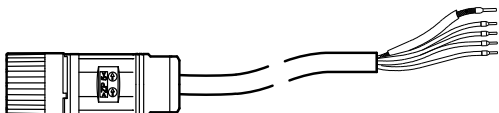
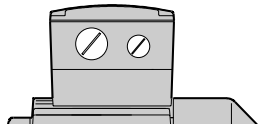
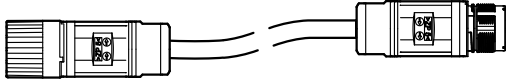
DRS				V = AC 3 x 400 V, 50 Hz								
MOVIFIT®	Assigned DRS motor and brake ¹⁾											
	S10/5 = OFF						S10/5 = ON					
	Y connection			Δ connection			Y connection			Δ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..10	DRS71 S4	BE05	BE1	DR63 L4	BR03	-	DR63 L4	BR03	-	-	-	-
MTF..005..10	DRS71 M4	BE1	BE05	DRS71 S4	BE05	BE1	DRS71 S4	BE05	BE1	DR63 L4	BR03	-
MTF..007..10	DRS80 S4	BE1	BE05	DRS71 M4	BE1	BE05	DRS71 M4	BE1	BE05	DRS71 S4	BE05	BE1
MTF..011..10	DRS80 M4	BE2	BE1	DRS80 S4	BE1	BE05	DRS80 S4	BE1	BE05	DRS71 M4	BE1	BE05
MTF..015..10	DRS90 M4	BE2	BE1	DRS80 M4	BE2	BE1	DRS80 M4	BE2	BE1	DRS80 S4	BE1	BE05
MTF..022..10	DRS90 L4	BE5	BE2	DRS90 M4	BE2	BE1	DRS90 M4	BE2	BE1	DRS80 M4	BE2	BE1
MTF..030..10	DRS100 M4	BE5	BE2	DRS90 L4	BE5	BE2	DRS90 L4	BE5	BE2	DRS90 M4	BE2	BE1
MTF..040..10	DRS100 LC4	BE5	BE2	DRS100 M4	BE5	BE2	DRS100 M4	BE5	BE2	DRS90 L4	BE5	BE2

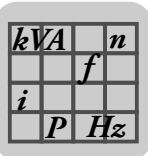
1) Possible brake voltages: 120 V, 230 V, 400 V


4.11.9 Hybrid cable for connecting MOVIFIT® FC and motors

MOVIFIT® FC	Hybrid cables/cable rolls	Length	Cable type	Drive	
FC	Standard ABOX: MTA....S02....-00 Hybrid ABOX: MTA....S42....-00 MTA....S53....-00 MTA....S52....-00 MTA....S62....-00	Part No. DR63 (人): 0819 967 1 Part No. DR63 (△): 0819 969 8 Part No. DR.71-132 (人): 0819 970 1 Part No. DR.71-132 (△): 0819 874 8 	Variable	A	Motor with ISU4 plug connector 
	Part number: 0819 972 8 	Variable	A	Motor with ASB4 plug connector 	
	Part number: 0819 875 6 	Variable	A	Motor with plug connector AMB4 	
	Part number: 0819 973 6 	Variable	A	Motor with APG4 plug connector 	
	Part no.: DR.71-100 (M4 ring cable lug): 0819 975 2 Part no.: DR.112-132 (M5 ring cable lug): 1814 319 9 	Variable	A	Motor with cable glands 	
	Part number: 0817 953 0 / 30 m Part number: 0817 953 0 / 100 m (Hybrid cable roll) 	30 m 100 m	A	Motor with cable glands 	
	Part number: 1172 378 5 (cable roll) 	30 m	-	External braking resistor 	



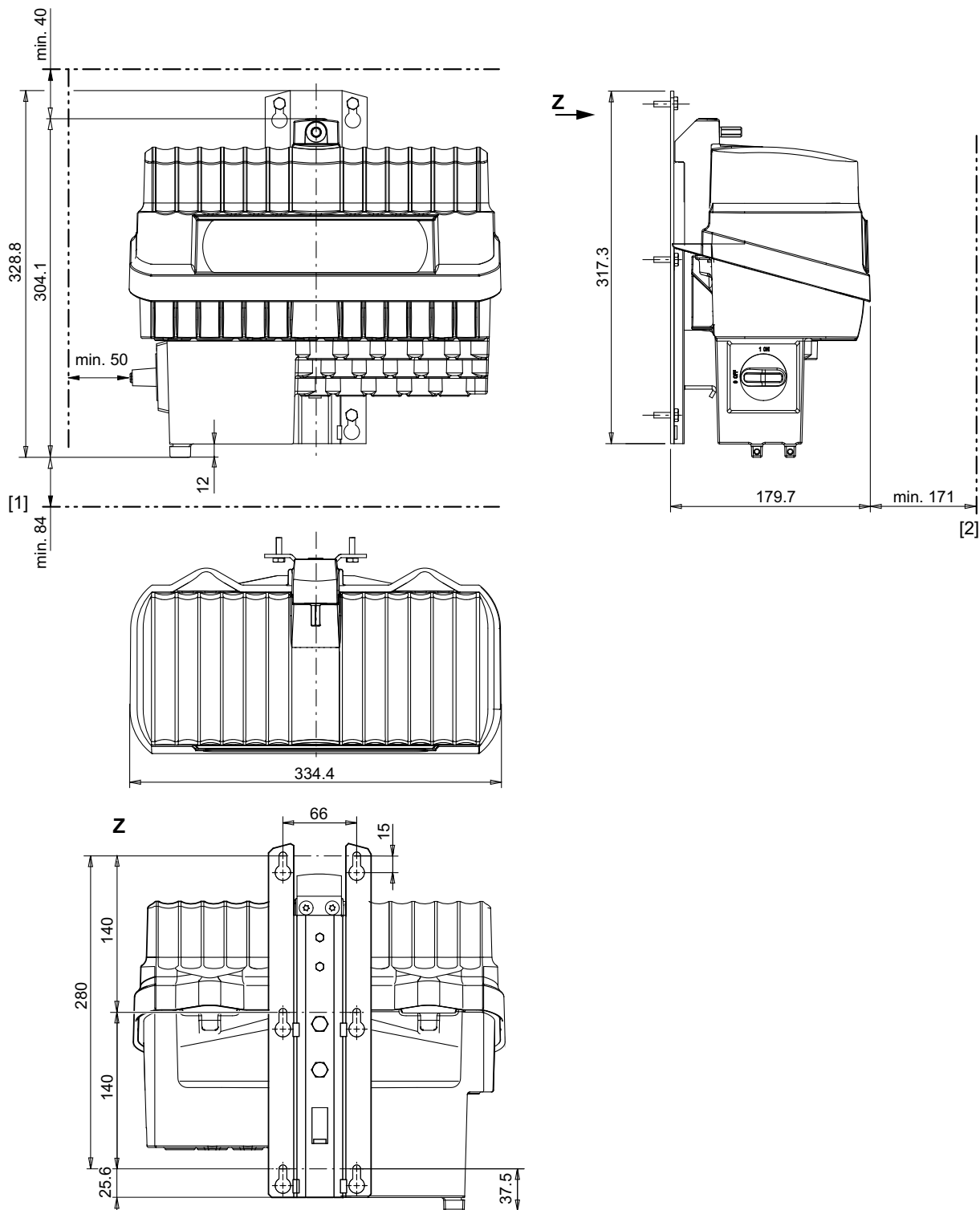
FC	MOVIFIT® FC	Hybrid cable	Length	Cable type	Drive
	Hybrid ABOX:	Part No. DR63 (λ): 1813 841 1 Part No. DR63 (Δ): 1813 843 8	Variable	A	Motor with ISU4 (02CI) plug connector 
	MTA....I55....-00	Part No. DR.71-132 (λ): 1813 833 0 Part No. DR.71-132 (Δ): 1813 836 5			
	MTA....G55....-00				
	MTA....I65....-00		Variable	A	Motor with cable glands 
	MTA....G65....-00	Part no. DR.71-100 (M4 ring cable lug) 1814 187 0 Part no. DR.112-132 (M5 ring cable lug) 1814 223 0			
		Part number: 1814 105 6 (= extension cable) 	Variable	A	Hybrid cable



4.12 Dimension drawings

4.12.1 Standard ABOX, hybrid ABOX

Size 1 (MOVIFIT® MC, MOVIFIT® SC and MOVIFIT® FC 0.37 to 1.5 kW)

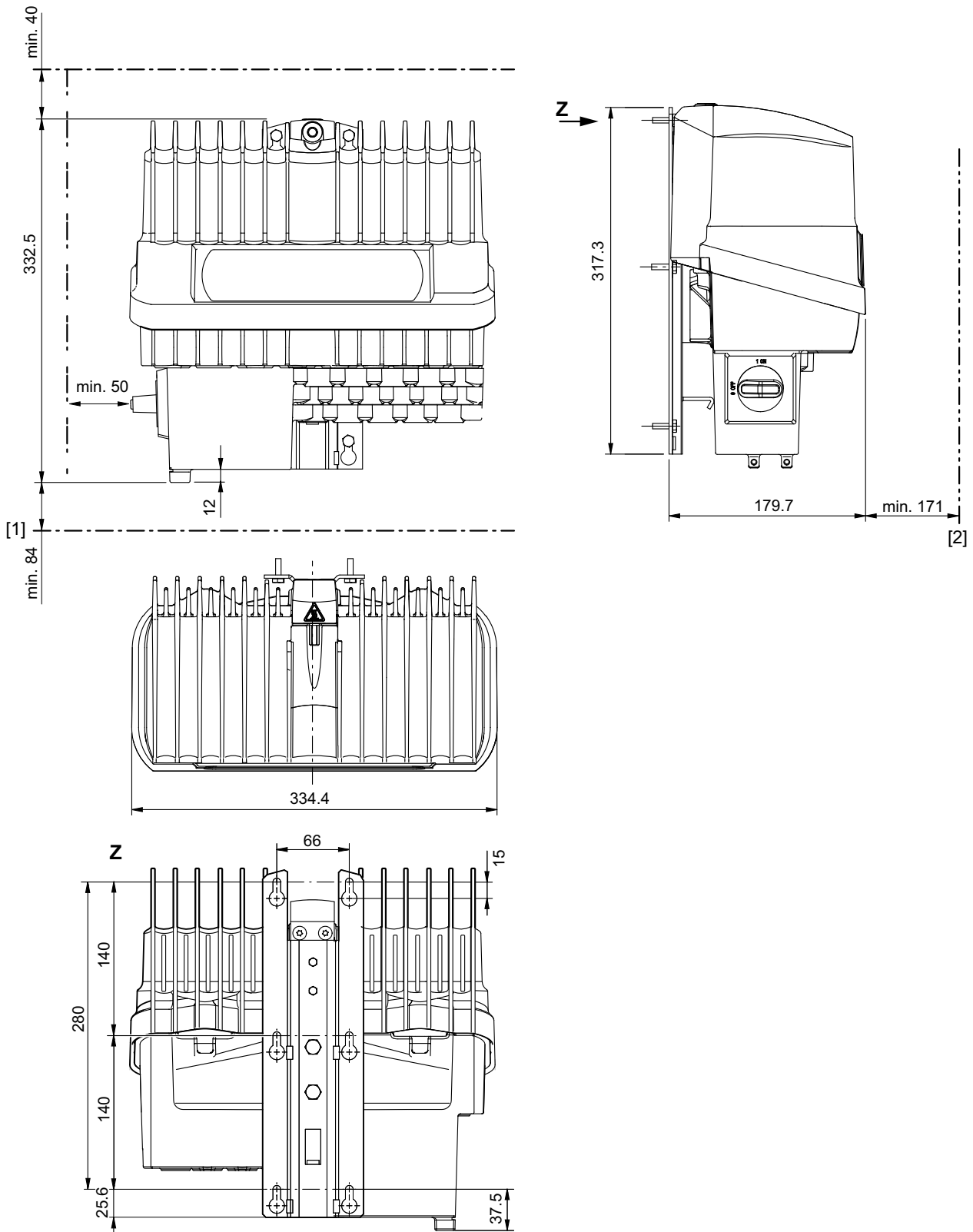


9007200093904011

[1] The clearance of 84 mm below is only necessary for ABOXes with round connector (Intercontec) motor output pointing downward.

[2] The clearance of 117 mm at the front is only necessary for ABOXes with round connector (Intercontec) motor output pointing forward.

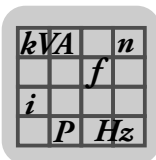
Size 2 (MOVIFIT® FC 2.2 to 4 kW)



9007200093908363

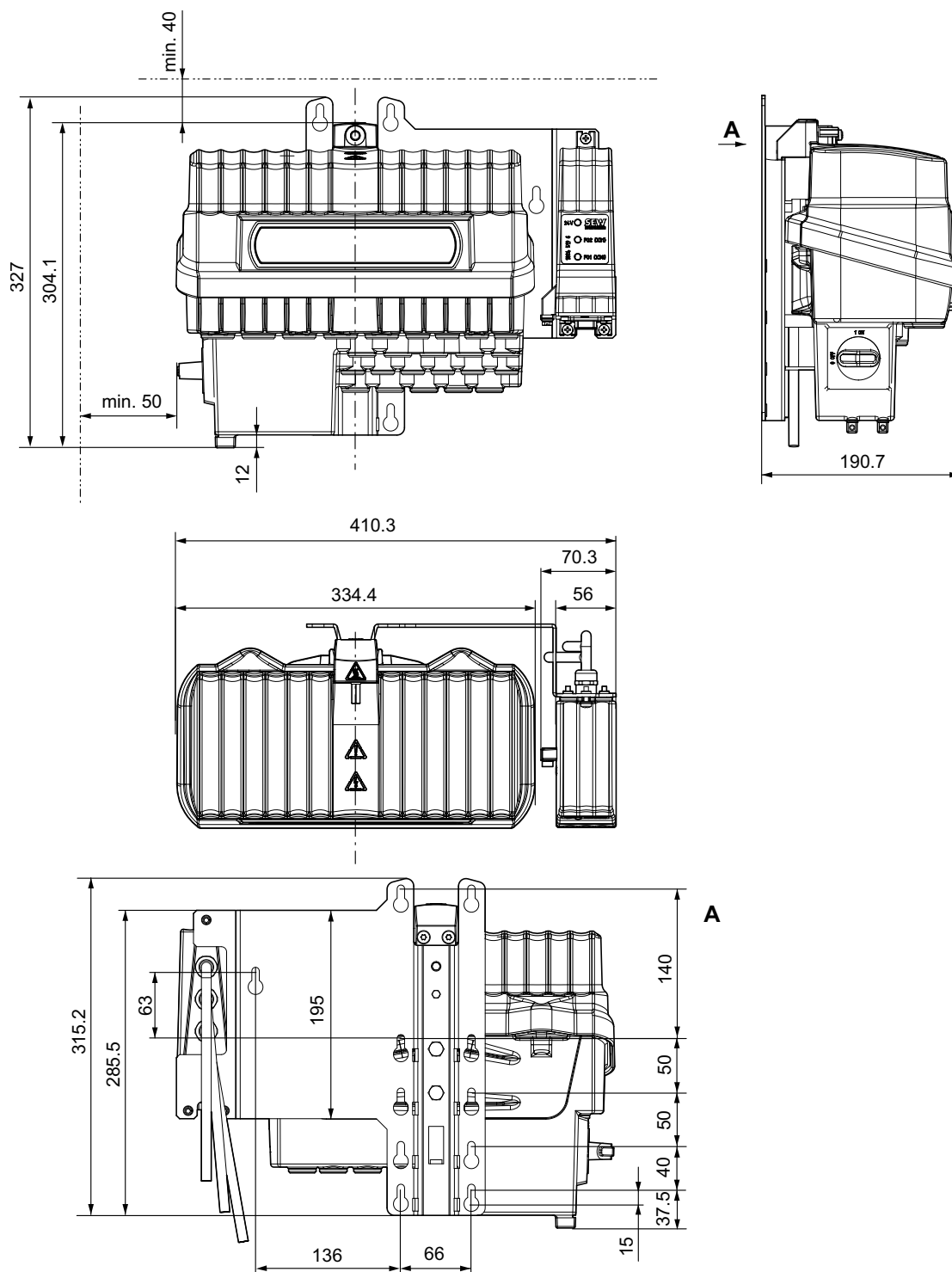
[1] The clearance of 84 mm below is only necessary for ABOXes with round connector (Intercontec) motor output pointing downward.

[2] The clearance of 117 mm at the front is only necessary for ABOXes with round connector (Intercontec) motor output pointing forward.



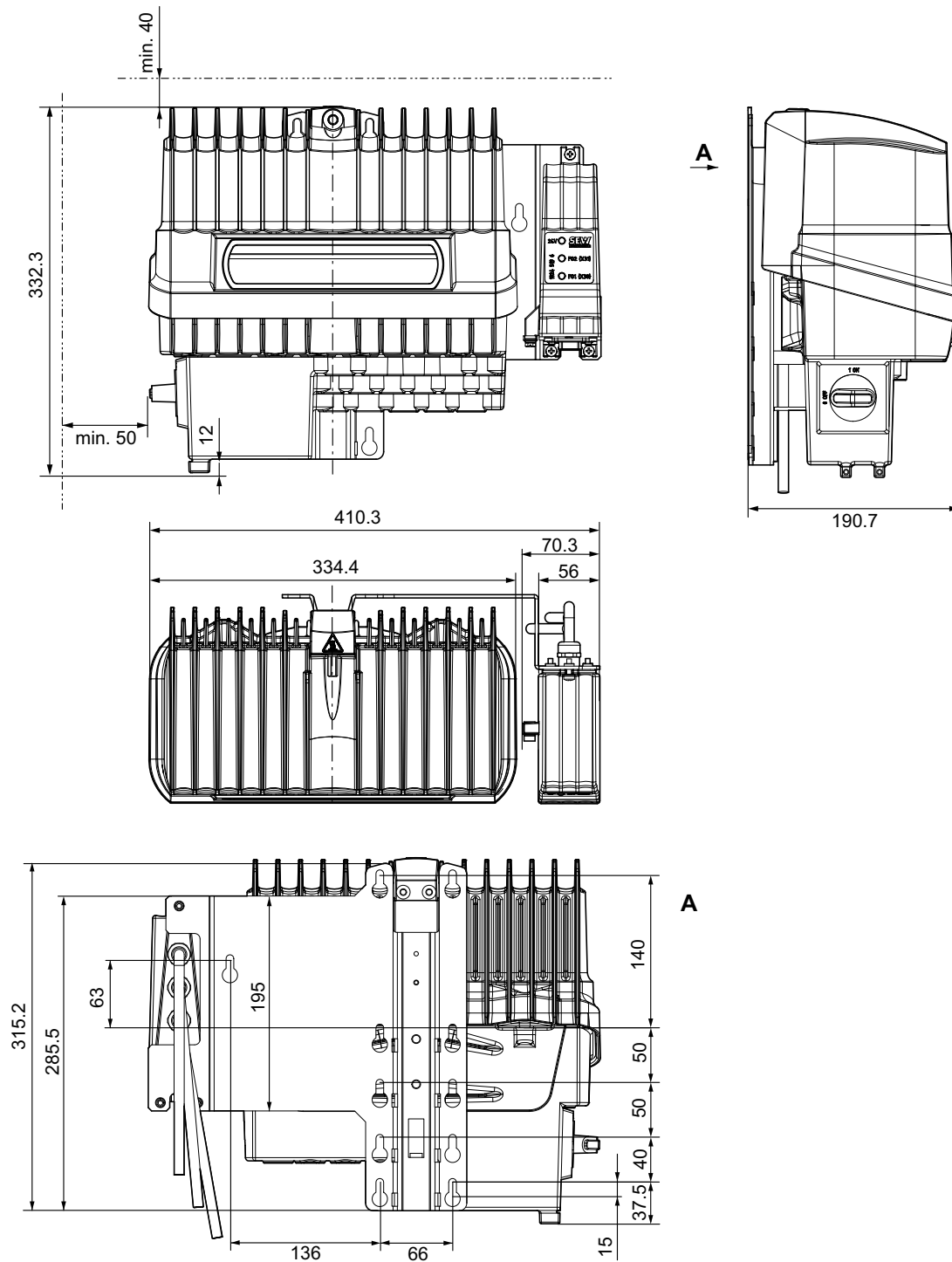
4.12.2 ABOX with PROFINET interface SCRJ / POF (POF option)

Size 1 (MOVIFIT® SC and MOVIFIT® FC 0.37 to 1.5 kW)

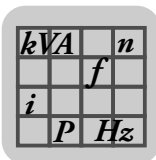


18014402366515211

Size 2 (MOVIFIT® SC and MOVIFIT® FC 2.2 to 4 kW)



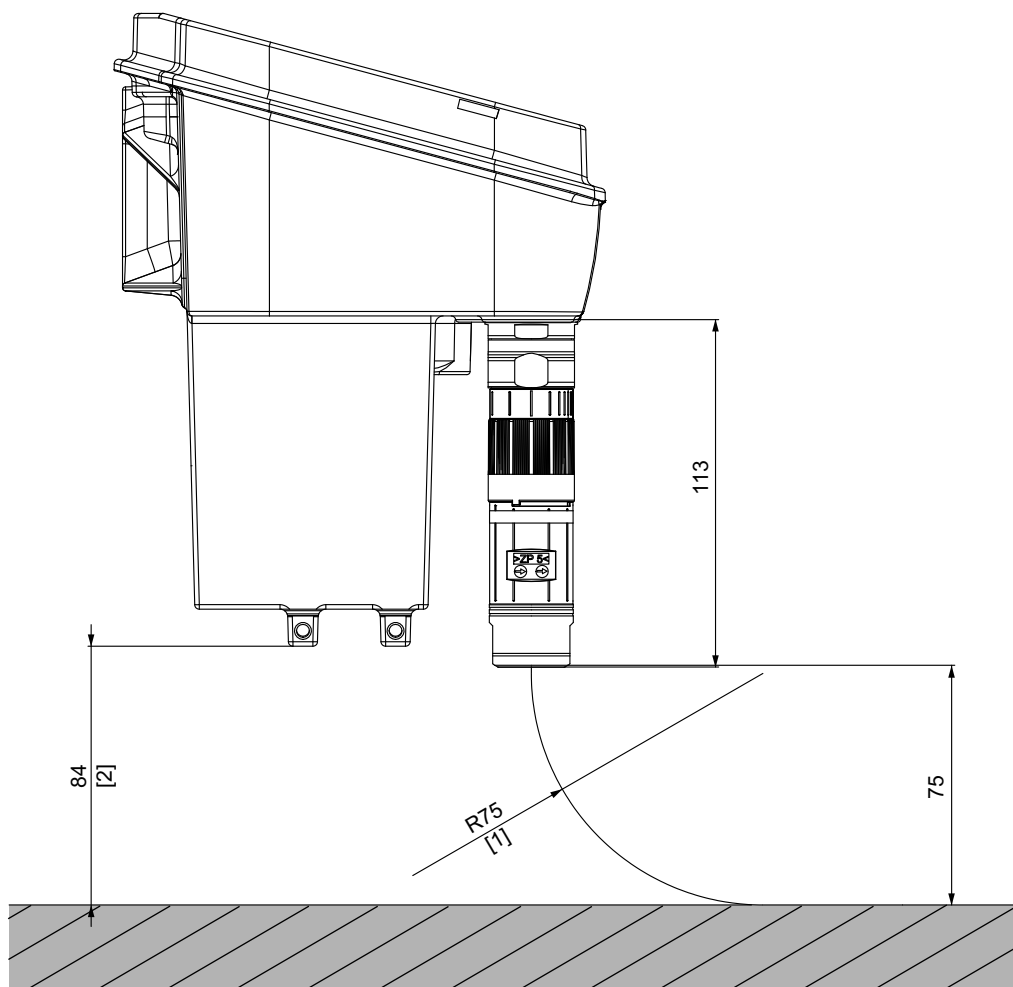
4385759883



4.12.3 Minimum installation clearance for ABOX with round connector (Intercontec)

ABOX with round connector (Intercontec), motor output pointing downward:

The following figure shows the minimum installation clearance of the hybrid ABOX with round connector and motor output pointing downward.



4768829195

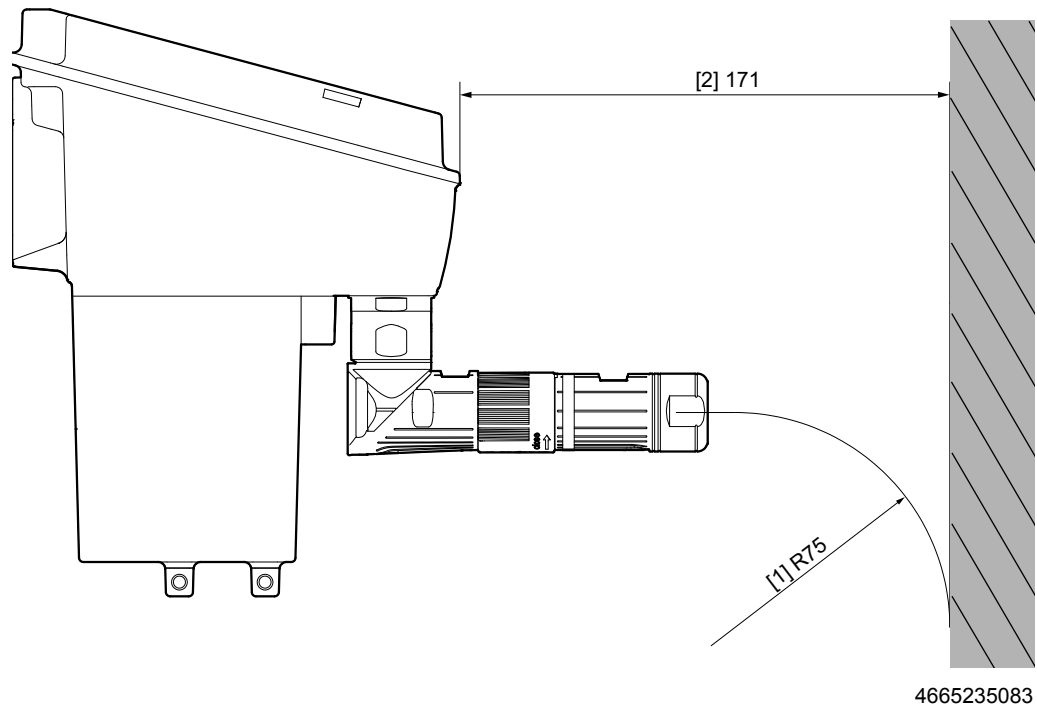
[1] Bending radius of bulk cable

[2] Minimum distance to the bottom of the ABOX

kVA	n
f	
i	
P	H_z

ABOX with round connector (Intercontec), motor output pointing forward:

The following figure shows the minimum installation clearance of the hybrid ABOX with round connector and motor output pointing forward.



- [1] Bending radius of bulk cable
- [2] Minimum distance to the front of the ABOX