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:

12839703819

4.1.1 MOVIFIT® MC characteristics

- Up to 3 MOVIMOT® drives can be connected via hybrid cable
- Voltage range 3 x 380 – 500 V
- Integrated power distribution and line protection
- Optional maintenance switch
- Integrated fieldbus interface

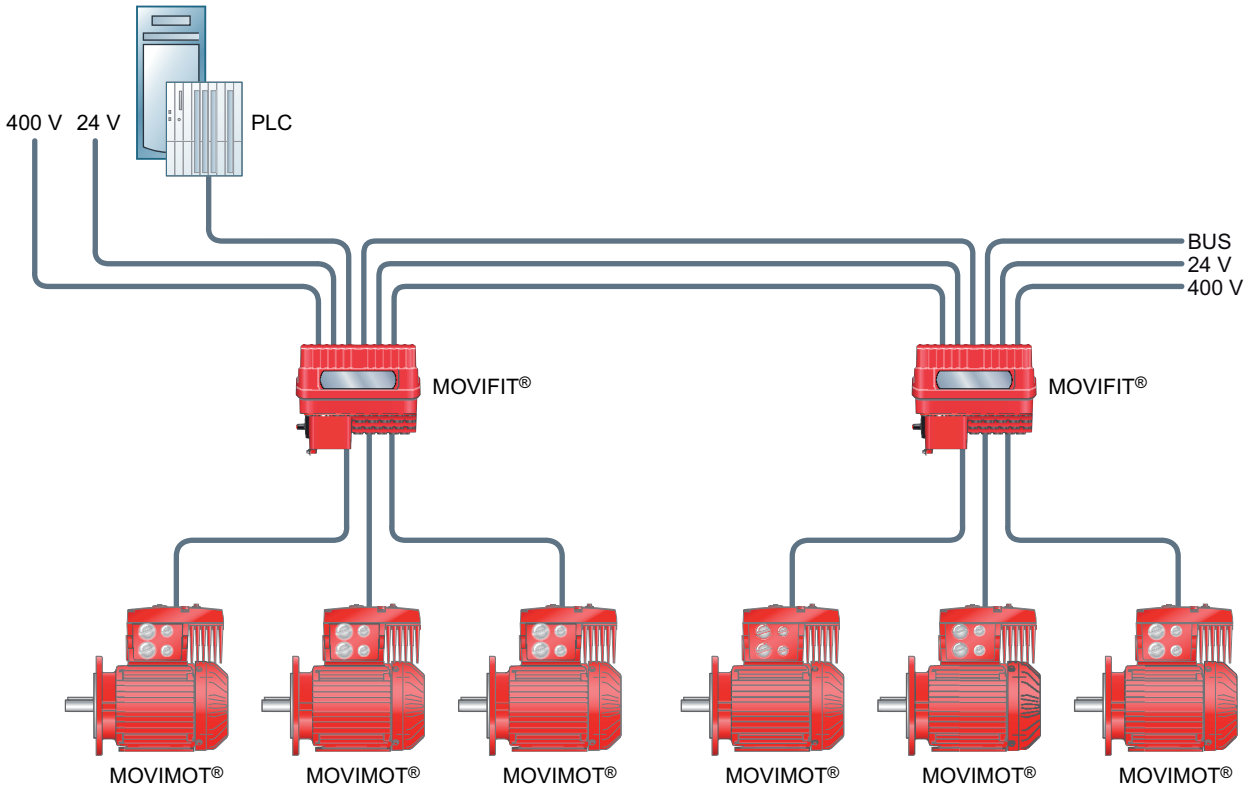
PROFIBUS	EtherNet/IP™
PROFINET IO	Modbus/TCP
PROFINET POF	DeviceNet™

- Digital inputs/outputs
- CAN/SBus interface
- "Safe torque off" STO function
- Safety-Option S12 with safety-related inputs and outputs
- Simple and fast parameter setting via DIP switches or fieldbus

21914796/EN – 09/2015

4.1.2 MOVIFIT® MC installation topology

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



21914796/EN – 09/2015

4.2 MOVIFIT® SC with integrated motor starter

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

13828642315

4.2.1 MOVIFIT® SC characteristics

- Electronic (contactless) motor starter
  - When 2 motors are connected (dual-motor starter): 1 direction of rotation
  - When 1 motor is connected (reversing starter): 2 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
- Increased safety through three-phase switching
- Integrated energy distribution
- Integrated brake management for SEW three-wire brakes
- Optional maintenance switch
- Integrated fieldbus interface

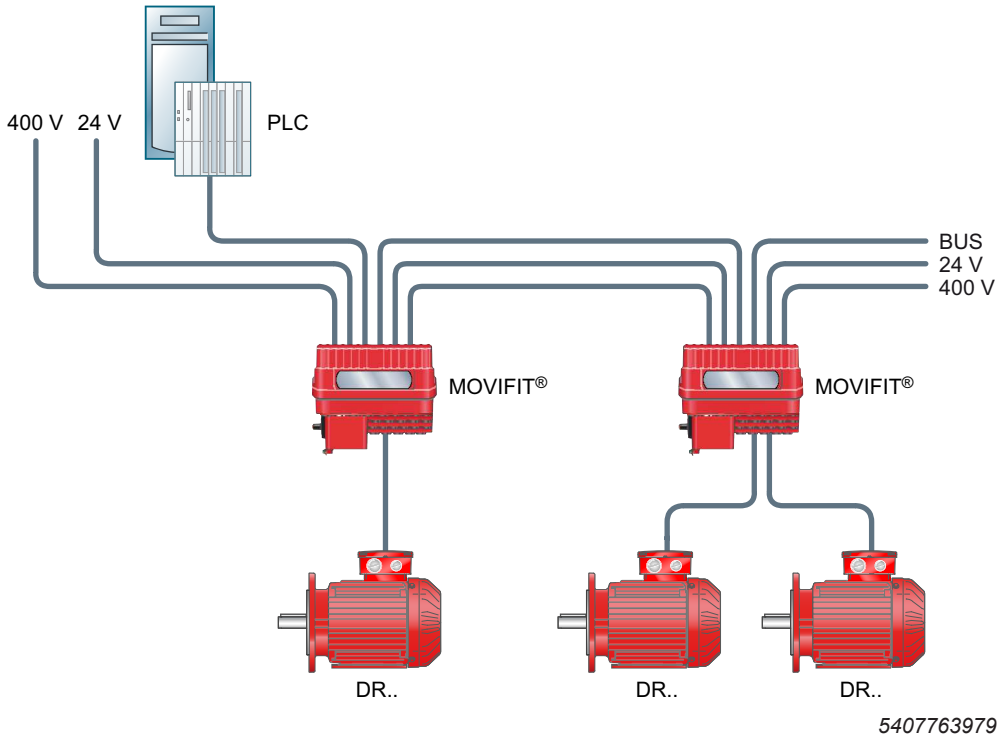
PROFIBUS	EtherNet/IP™
PROFINET IO	Modbus/TCP
PROFINET POF	DeviceNet™

- Optional design without fieldbus interface as SBus slave
- Digital inputs/outputs
- CAN/SBus interface
- Simple and fast parameterization via DIP switches (Easy mode)
- Extended parameterization via fieldbus or diagnostic interface (Expert mode)

21914796/EN – 09/2015

4.2.2 MOVIFIT® SC installation topology

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



21914796/EN – 09/2015

4.3 MOVIFIT® FC with integrated frequency inverter

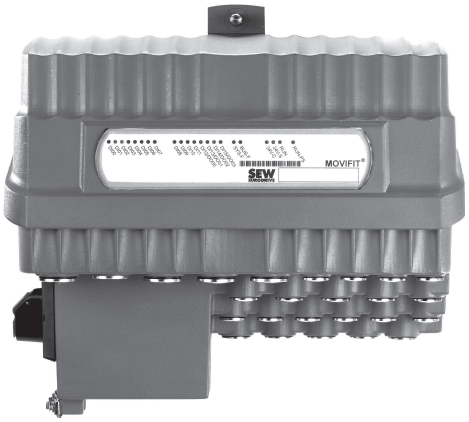
The following figure shows the MOVIFIT® FC (both sizes) with assigned helical gearmotor:

12781282315

4.3.1 Sizes

MOVIFIT® FC is available in 2 sizes, see the following figures:

0.37 – 1.5 kW



2.2 – 4 kW

1514058635

4.3.2 MOVIFIT® FC unit characteristics

- Parameterizable open loop frequency inverter
- Power range from 0.37 to 4 kW (in 2 sizes)
- Integrated energy distribution
- Integrated brake management
- Optional braking resistor
- Optional maintenance switch
- Integrated fieldbus interface

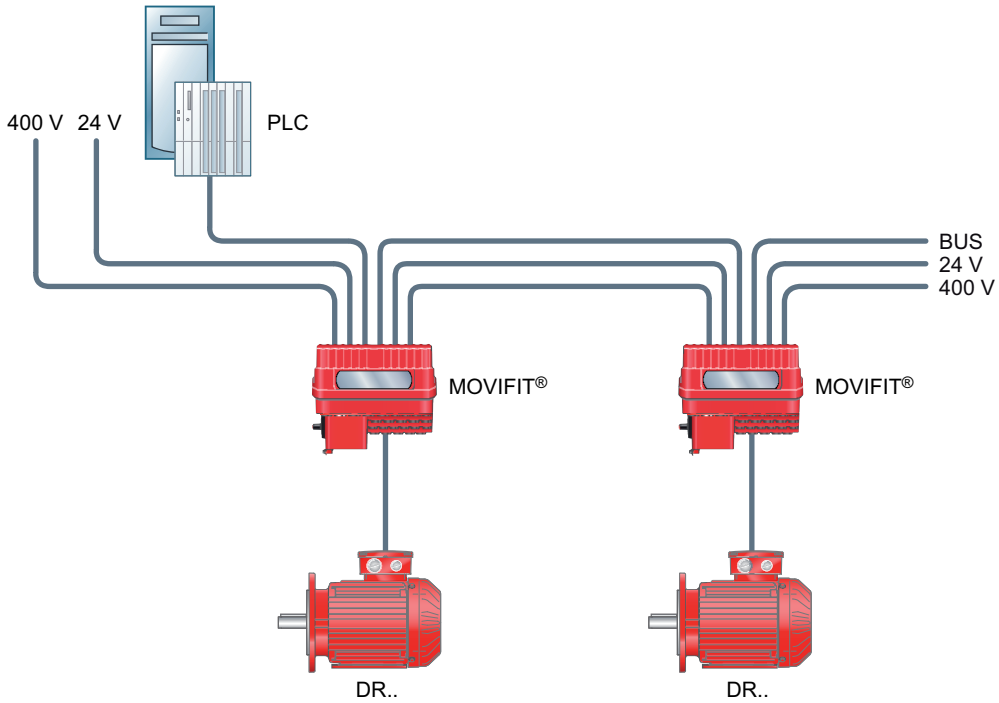
PROFIBUS	EtherNet/IP™
PROFINET IO	Modbus/TCP
PROFINET POF	DeviceNet™

- Optional design without fieldbus interface as SBus slave
- Digital inputs/outputs
- CAN/SBus interface
- "Safe torque off" STO function
- Safety-Option S12 with safety-related inputs and outputs
- Simple and fast parameterization via DIP switches (Easy mode)
- Extended parameterization via fieldbus or diagnostic interface (Expert mode)

21914796/EN – 09/2015

4.3.3 MOVIFIT® FC installation topology

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



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 S12 safety option

- The S12 safety option is an integrated, safety-related electronic assembly that can be operated with or without PROFIsafe connection. It is equipped with safety-related inputs and outputs (F-DI, F-DO). It is available in the following 2 versions.

  S12A safety option:

  – 4 safety-related inputs

  – 1 safety-related 2-channel output for STO

  – 2 safety-related 2-channel outputs

  S12B safety option:

  – 8 safety-related inputs

  – 1 safety-related 2-channel output for STO

  – No other safety-related outputs
- With both safety option versions, the STO function of the power section of MOVIFIT® FC or MOVIMOT® can be activated with the integrated, safety-related F-DO_STO output.
- The safety concept of this subassembly is based on the fact that there is a safe state for all safety-related process values. For the S12 safety option, this value is "0" for all inputs F-DI and outputs F-DO.
- The system was designed according to IEC 61508 SIL3 and EN ISO 13849-1 Performance Level e.
- The safety-related output F-DO_STO is used to disconnect the 24 V supply to the inverter, which achieves safety-related stopping of the drive. In this context, observe the safety concept of the MOVIFIT® FC/MC, all conditions, and all installation specifications in the S12 safety option manual.
- In combination with the EI7C FS built-in encoder, the S12 safety option can control and safely monitor movement functions. The standard process data of the inverter are limited by the S12 safety option if the safety function is active. If the maximum speed is exceeded, the F-DO_STO output is used to achieve a safety-related stop of the drive. Program adjustments in the control section is therefore not necessary.

INFORMATION

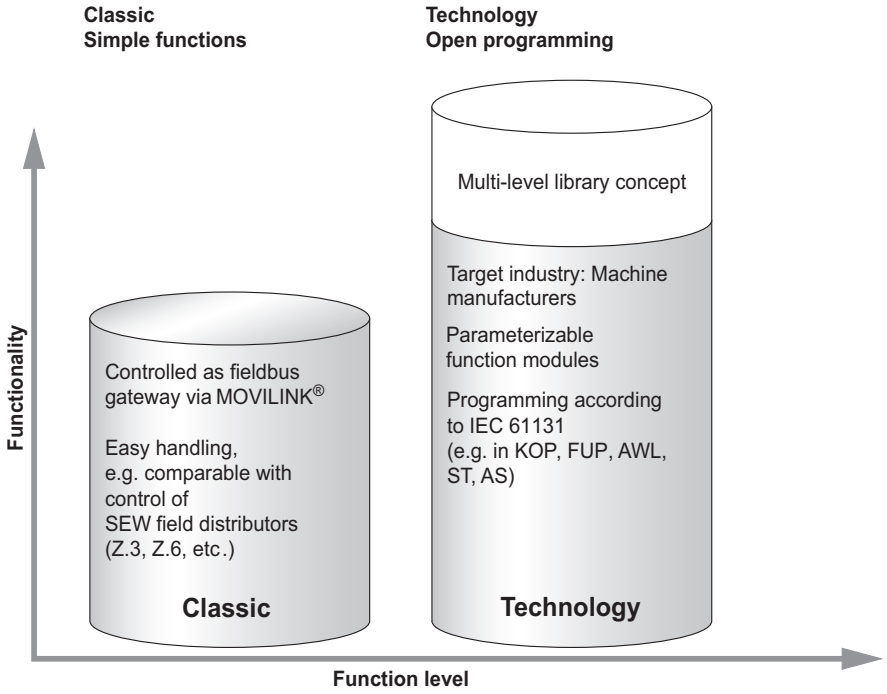
Only components marked with the FS logo for functional safety may be installed in safety applications. For combinations of units without FS logo (consisting of individual EBOX and ABOX), the safety function must be described in the documentation.

21914796/EN – 09/2015

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:



18014399302397067

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

21914796/EN – 09/2015

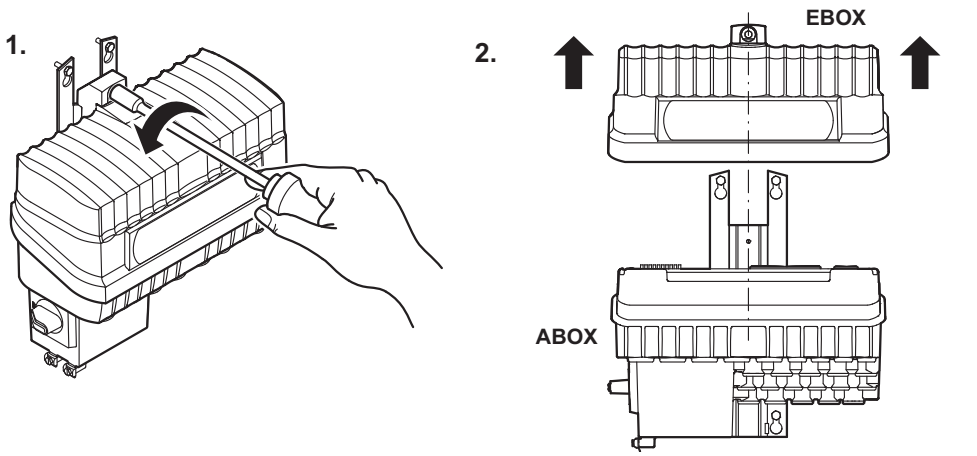
4.6 Type designation and unit concept

4.6.1 Properties

MOVIFIT® units have the following characteristics:

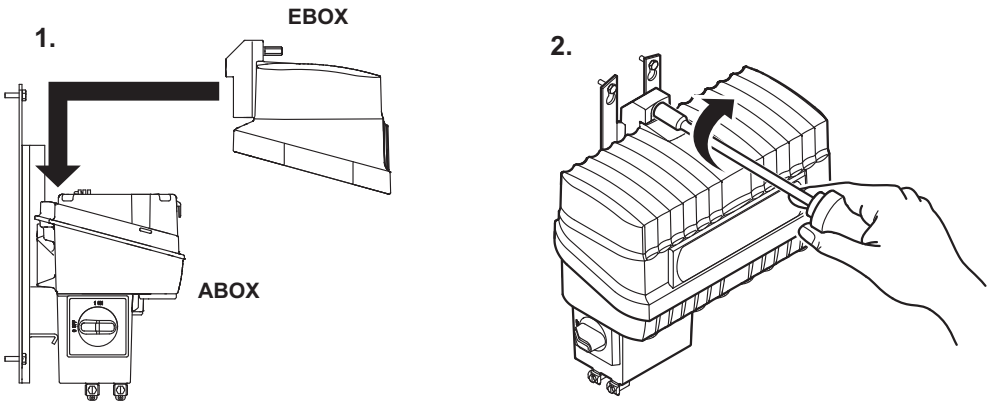
- Aluminum die cast housing
  - High rigidity
  - IP65 design for industrial requirements
  - Hygienic design with increased degree of protection and special surface treatment for the food industry
- Separation of connection unit (ABOX) and electronics (EBOX)
  - No damage/contamination to the EBOX during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

Remove EBOX



1405396235

Place EBOX on top of ABOX and screw it on



1405394315

21914796/EN – 09/2015

4.6.2 Sample type designation

Example EBOX

The following table shows an example of the type designation of the MOVIFIT® **MT-F11A015-503-P10A -00/S12A** EBOX:

	MOVIFIT® MC	MOVIFIT® SC	MOVIFIT® FC
MT	**Unit series** MT = MOVIFIT®	**Unit series** MT = MOVIFIT®	**Unit series** MT = MOVIFIT®
F	**Device type** M = MOVIFIT® MC (MOVIMOT® control)	**Device type** S = MOVIFIT® SC (motor starter)	**Device type** F = MOVIFIT® FC (frequency inverters)
11	**Series** 11 = Standard (IP65)	**Series** 11 = Standard (IP65) 12 = Hygienic^{plus} (IP69K)	**Series** 11 = Standard (IP65) 12 = Hygienic^{plus} (IP69K)
A	**Version A**	**Version A**	**Version A**
015	**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
-			
50	**Connection voltage** –	**Connection voltage** 50 = AC 380 – 500 V	**Connection voltage** 50 = AC 380 – 500 V
3	**Connection type** –	**Connection type** 3 = 3-phase	**Connection type** 3 = 3-phase
-			
P1	**Fieldbus** P1 = PROFIBUS E2 = PROFINET IO D1 = DeviceNet™ E3 = EtherNet/IP™, Modbus/TCP Z1 = SBus slave	**Fieldbus** P1 = PROFIBUS E2 = PROFINET IO D1 = DeviceNet™ E3 = EtherNet/IP™, Modbus/TCP Z1 = SBus slave	**Fieldbus** P1 = PROFIBUS E2 = PROFINET IO D1 = DeviceNet™ E3 = EtherNet/IP™, Modbus/TCP Z1 = SBus slave
0	**Function level** 0 = Classic 1 = Technology	**Function level** 0 = Classic 1 = Technology	**Function level** 0 = Classic 1 = Technology
A	**Version A**	**Version A**	**Version A**

21914796/EN – 09/2015

-			
00	**EBOX design** 00 = Series	**EBOX design** 00 = Series	**EBOX design** 10 = DRS.. motor 400 V, 50 Hz 11 = DRE.. motor 400 V, 50 Hz 12 = DRS.. motor 460 V, 60 Hz 13 = DRE.. motor 460 V, 60 Hz 14 = DRS.. DRE.. motor 380 V, 60 Hz 15 = DRS.. DRE.. motor 50 – 60 Hz 16 = DRP.. motor 400 V, 50 Hz 17 = DRP.. motor 460 V, 60 Hz 18 = DRN.. motor 400 V, 50 Hz 19 = DRN.. motor 460 V, 60 Hz 20 = DRN.. motor 50 – 60 Hz
/			
S12A	**EBOX option** S12A = S12A safety option S12B = S12B safety option	**EBOX option** Not available	**EBOX option** S12A = S12A safety option S12B = S12B safety option

21914796/EN – 09/2015

Example: ABOX

The following table shows an example of the type designation of the MOVIFIT® **MTA11A-503-S021-D01-00/BW1/M11** ABOX:

	MOVIFIT® MC	MOVIFIT® SC	MOVIFIT® FC
MT	**Unit series** MT = MOVIFIT®	**Unit series** MT = MOVIFIT®	**Unit series** MT = MOVIFIT®
A	**Device type** A = ABOX (connection box)	**Device type** A = ABOX (connection box)	**Device type** A = ABOX (connection box)
11	**Series** 11 = Standard (IP65)	**Series** 11 = Standard (IP65) 12 = Hygienic^{plus} (IP69K)	**Series** 11 = Standard (IP65) 12 = Hygienic^{plus} (IP69K)
A	**Version A**	**Version A**	**Version A**
-			
50	**Connection voltage** 50 = AC 380 – 500 V	**Connection voltage** 50 = AC 380 – 500 V	**Connection voltage** 50 = AC 380 – 500 V
3	**Connection type** 3 = 3-phase	**Connection type** 3 = 3-phase	**Connection type** 3 = 3-phase
-			
S02	**Connection configuration** S01 = Standard ABOX S41 = Hybrid ABOX S51 = Hybrid ABOX S61 = Hybrid ABOX I51 = Hybrid ABOX I61 = Hybrid ABOX	**Connection configuration** S02 = Standard ABOX S42 = Hybrid ABOX S52 = Hybrid ABOX S53 = Hybrid ABOX[1)] S62 = Hybrid ABOX I52 = Hybrid ABOX I55 = Hybrid ABOX I62 = Hybrid ABOX I65 = Hybrid ABOX	**Connection configuration** S02 = Standard ABOX S42 = Hybrid ABOX S52 = Hybrid ABOX S53 = Hybrid ABOX[1)] S62 = Hybrid ABOX I55 = Hybrid ABOX I62 = Hybrid ABOX[2)] I65 = Hybrid ABOX
1	**Fieldbus** 1 = PROFIBUS 2 = DeviceNet™ 3 = ETHERNET	**Fieldbus** 1 = PROFIBUS 2 = DeviceNet™ 3 = ETHERNET	**Fieldbus** 1 = PROFIBUS 2 = DeviceNet™ 3 = ETHERNET
-			
D01	**Maintenance switch** M01 = Switch disconnector and line protection up to 12 A[3)] M14 = Switch disconnector and line protection up to 9 A[4)] M15 = Switch disconnector and line protection up to 12 A[4)]	**Maintenance switch** D01 = Switch disconnector M12 = Switch disconnector and line protection up to 9 A[5)]	**Maintenance switch** D01 = Switch disconnector M11 = Switch disconnector and line protection up to 4 A[4)] M12 = Switch disconnector and line protection up to 9 A[4)]
-			

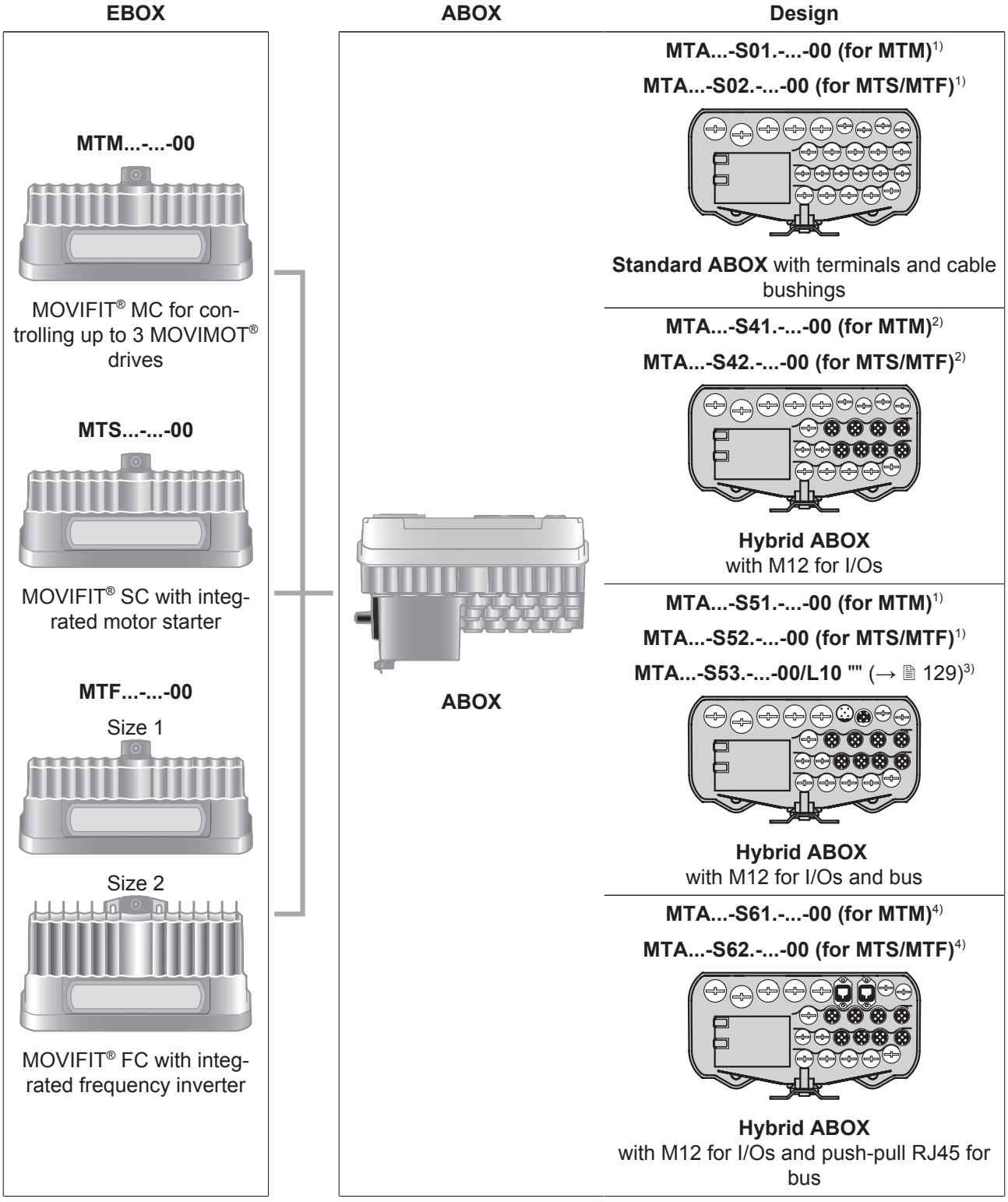
00	**ABOX design** 00 = Series	**ABOX design** 00 = Series	**ABOX design** 00 = Series 30 = dual-motor operation 33 = Dual-motor group drive
/			
BW1	–	–	**ABOX option 1** BW1/BW2 = Integrated braking resistor
/			
M11	**ABOX option** 00S = Plug connector STO M11 = Stainless steel mounting rail (standard length) M1S = Stainless steel mounting rail (standard length) and plug connector STO M2A = Stainless steel mounting rail (short) M2S = Stainless steel mounting rail (short) and plug connector STO	**ABOX option** M11 = Stainless steel mounting rail (standard length) M2A = Stainless steel mounting rail (short) L10 = PROFINET interface SCRJ/POF (POF option L10)[1]	**ABOX option 2** 00S = Plug connector STO M11 = Stainless steel mounting rail (standard length) M1S = Stainless steel mounting rail (standard length) and plug connector STO M2A = Stainless steel mounting rail (short) M2S = Stainless steel mounting rail (short) and plug connector STO L10 = PROFINET interface SCRJ/POF (POF option L10)[1] L1S = PROFINET interface SCRJ/POF (POF option L10)[1] and plug connector STO

1) The L10 POF option and S53 connection configuration are only available in combination.
2) Only for designs in dual-motor operation and dual-motor group drive.
3) In connection with UL, the maintenance switch is only a switch disconnector.
4) Only available in connection with UL.
5) For units with UL, the maintenance switch M12 is mandatory.

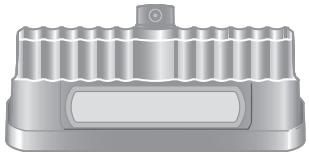
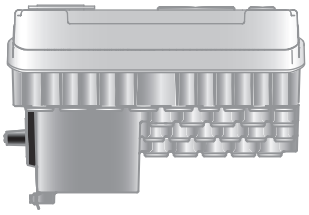
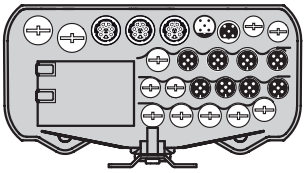
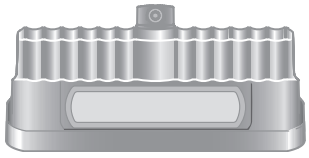
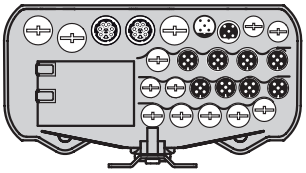
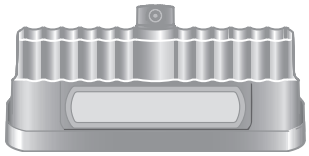
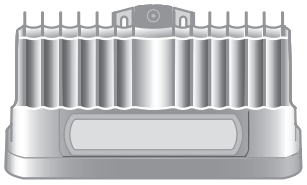
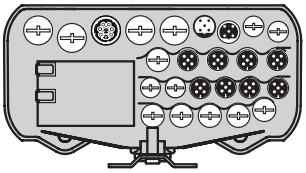
21914796/EN – 09/2015

4.6.3 Combination options with MOVIFIT® MC, SC and FC

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

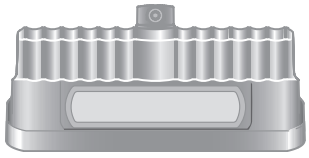
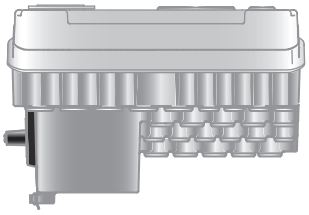
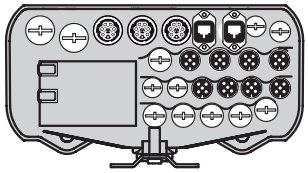
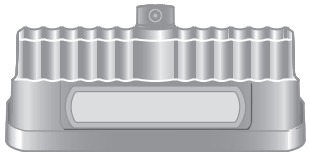
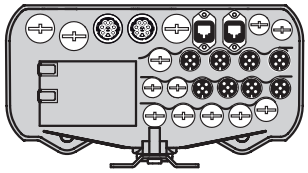
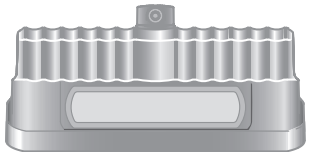
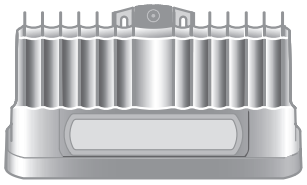
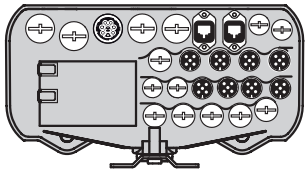


1) with DeviceNet™: Micro-style connector for DeviceNet™ connection
2) Not available in connection with DeviceNet™
3) Only in connection with MTS/MTF and the PROFINET interface L10 SCRJ / POF. The MTA...-53. ABOX has an additional M12 plug connector to supply the PROFINET interface L10 SCRJ/POF with 24 V.
4) Not available in connection with DeviceNet™ and PROFIBUS

EBOX	ABOX	Design
MTM...-...-00  MOVIFIT® MC for controlling up to 3 MOVIMOT® drives	 **ABOX**	**MTA...-I51.-...-00 (for MTM)**  **Hybrid ABOX** with 3 circular connectors (Intercontec) (3 × downward MOVIMOT® output), and M12 for I/Os and bus
MTS...-...-00  MOVIFIT® SC with integrated motor starter		**MTA...-I52.-...-00 (for MTS)**[1]  **Hybrid ABOX** with 2 circular connectors (Intercontec) (2 × downward motor output), and M12 for I/Os and bus
MTF...-...-00 Size 1  Size 2  MOVIFIT® FC with integrated frequency inverter		**MTA...-I55.-...-00 (for MTS/MTF)**[1]  **Hybrid ABOX** with 1 circular connector (Intercontec) (1 × downward motor output), and M12 for I/Os and bus

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

21914796/EN – 09/2015

EBOX	ABOX	Design
MTM...-...-00  MOVIFIT® MC for controlling up to 3 MOVIMOT® drives	 **ABOX**	**MTA...-I61.-...-00 (for MTM)**[1)]  **Hybrid ABOX** with 3 circular connectors (Intercontec) (3 × downward MOVIMOT® output), M12 for I/Os, push-pull RJ45 for bus
MTS...-...-00  MOVIFIT® SC with integrated motor starter		**MTA...-I62.-...-00 (for MTS/MTF)**[1)]  **Hybrid ABOX** with 2 circular connector (Intercontec) (2 × downward motor output), M12 for I/Os, push-pull RJ45 for bus
MTF...-...-00 Size 1  Size 2  MOVIFIT® FC with integrated frequency inverter		**MTA...-I65.-...-00 (for MTS/MTF)**[1)]  **Hybrid ABOX** with 1 circular connector (Intercontec) (1 × downward motor output), M12 for I/Os, push-pull RJ45 for bus

1) Not available in connection with DeviceNet™ and PROFIBUS

21914796/EN – 09/2015

4.7 Hygienic^{plus} design

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

9007200097472651

4.7.1 Properties

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

- IP66 in accordance with EN 60529 and IP69K in accordance with 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 cleaning agents having the following properties:
  - Alkaline
  - Acidic
  - Disinfectant
- Resistant to temperature fluctuations
- Resistant to condensation caused by coated connection boards

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

INFORMATION

Further information can be found in the following publications:

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

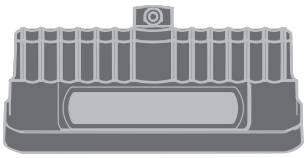
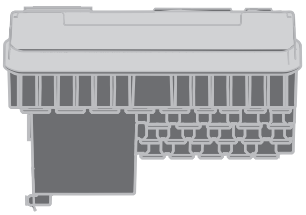
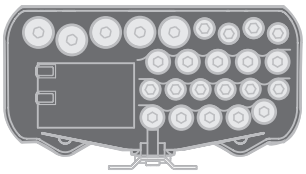
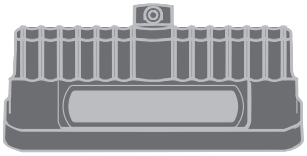
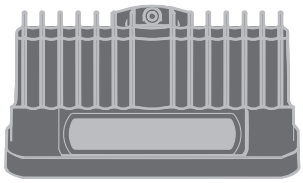
21914796/EN – 09/2015

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

EBOX	ABOX	Design
MTS12.-...-00  MOVIFIT® SC with integrated motor starter		**MTA12.-S02.-...-..**[1)]  **Standard ABOX** with terminals and cable bushings
MTF12.-...-00 Size 1  Size 2  MOVIFIT® FC with integrated frequency inverter		

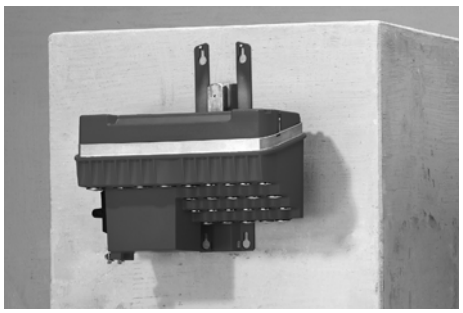
1) In connection with DeviceNet™: Micro-style connector for DeviceNet™ connection

4.8 Flexible connection technology

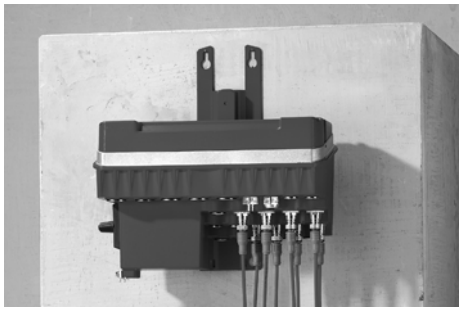
4.8.1 Overview

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

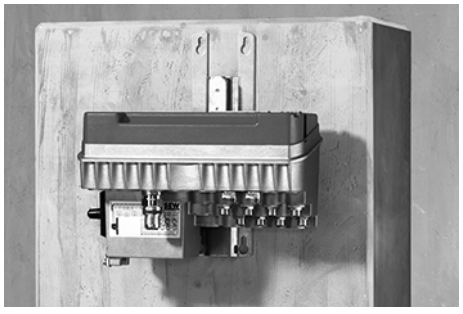
- **Standard ABOX**
  - With terminals and cable bushings



- **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



- **Hybrid ABOX with motor plug connectors**
  - 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



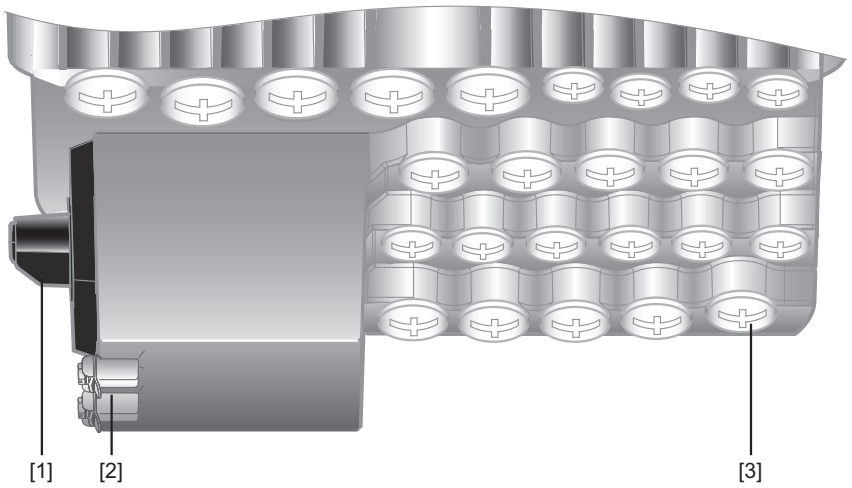
21914796/EN – 09/2015

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:

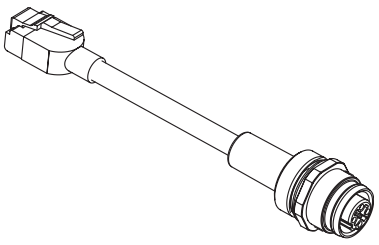


9007200067288715

[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	Con-tents	Part number
RJ45-M12 Ethernet adapter RJ45 (internal) M12 (external) 2 required for each unit.		1 piece	13281682

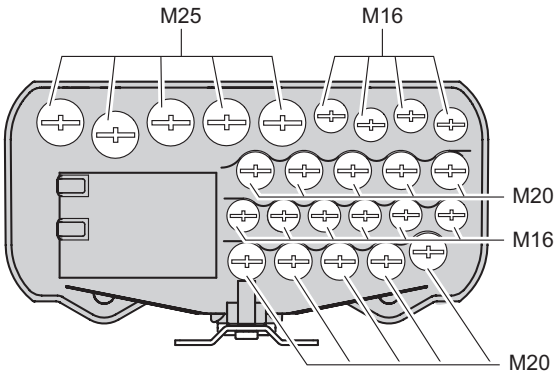
Variants

The Standard ABOX is available in the following variants:

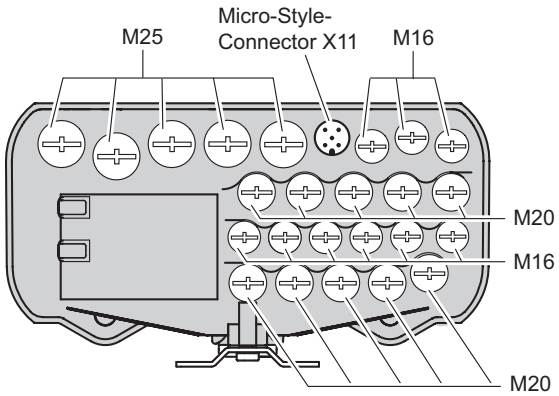
- MTA11A-503-**S01**.-...-00: Standard ABOX for MOVIFIT® MC (MTM)
- MTA11A-503-**S02**.-...-00: Standard ABOX for MOVIFIT® SC (MTS) and FC (MTF)

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

PROFIBUS MTA11A-503-S0.**1**-...-00
PROFINET
Ethernet/IP™
Modbus/TCP } MTA11A-503-S0.**3**-...-00



DeviceNet™ MTA11A-503-S0.**2**-...-00



18014400027313675

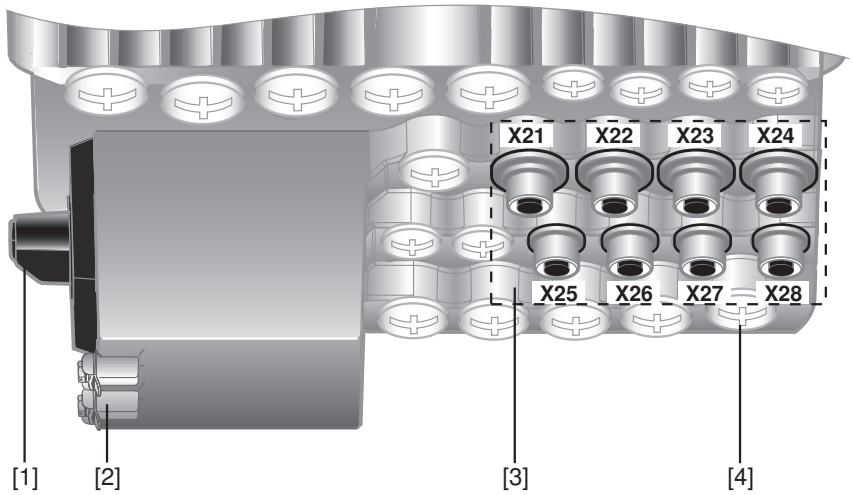
4.9.2 Hybrid ABOX "MTA...-S41.-...-00", "MTA...-S42.-...-00"

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

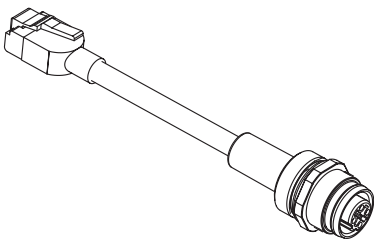
The following figure shows the hybrid ABOX with M12 plug connectors for connecting digital I/Os:



9007200170028939

[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	Contents	Part number
RJ45-M12 Ethernet adapter RJ45 (internal) M12 (external) 2 required for each unit.		1 piece	13281682

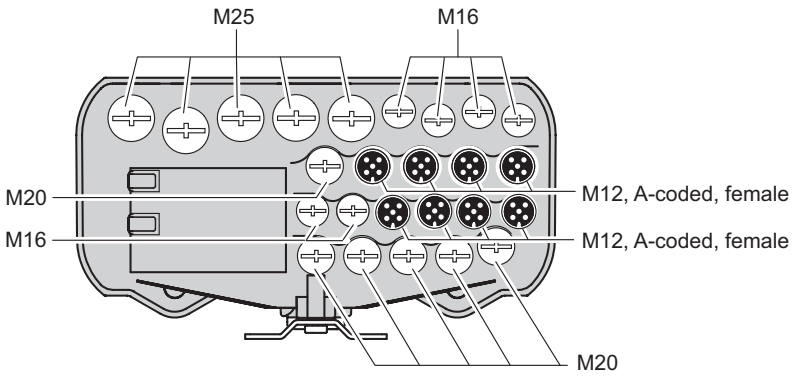
Variants

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 screw fittings and plug connectors of the hybrid ABOX:

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



9007204194244235

21914796/EN – 09/2015

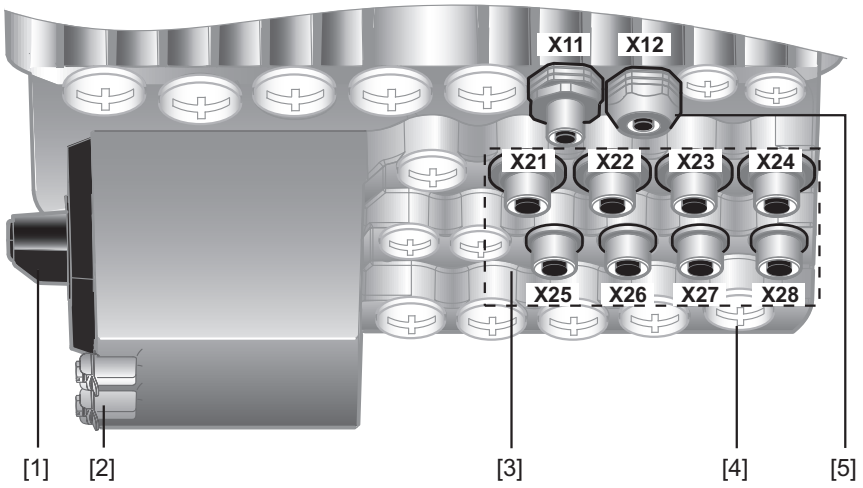
4.9.3 Hybrid ABOX "MTA...-S51.-...-00", "MTA...-S52.-...-00"

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:



9007200189509131

[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

21914796/EN – 09/2015

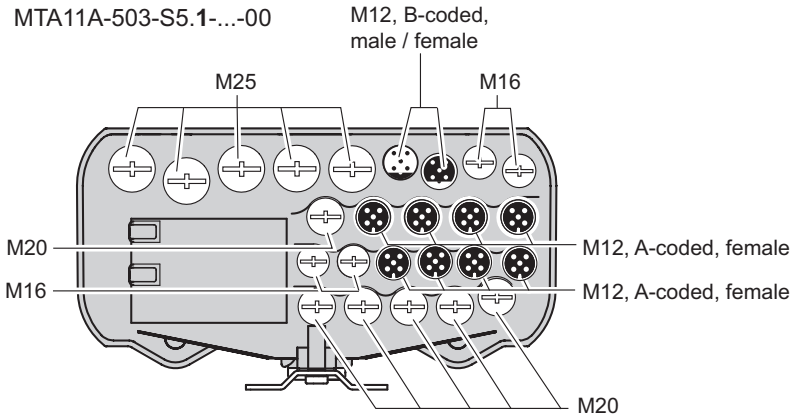
Variants

The hybrid ABOX is available in the following variants:

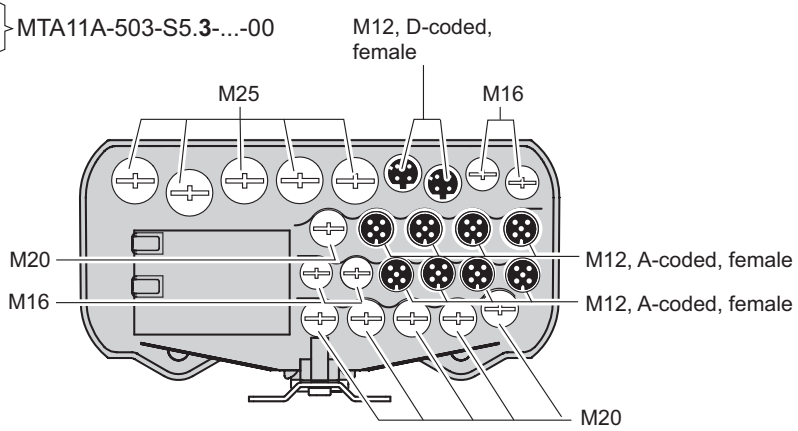
- MTA11A-503-**S51**.-...-00: Hybrid ABOX for MOVIFIT® MC (MTM)
- MTA11A-503-**S52**.-...-00: Hybrid ABOX for MOVIFIT® SC (MTS) and FC (MTF)

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

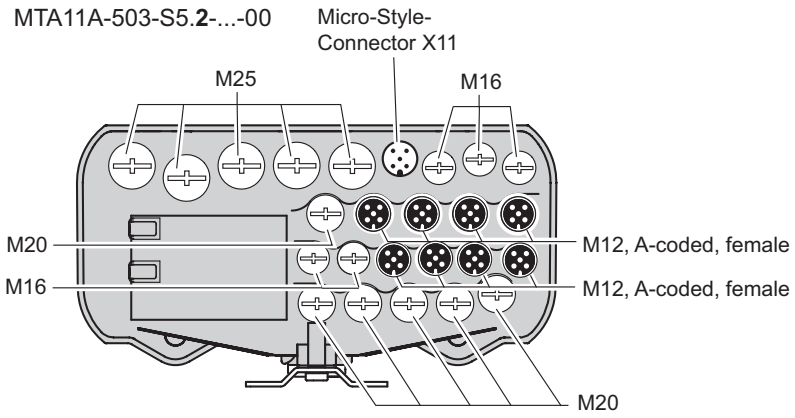
PROFIBUS MTA11A-503-S5.**1**-...-00



PROFINET
EtherNet/IP™
Modbus/TCP
MTA11A-503-S5.**3**-...-00



DeviceNet™ MTA11A-503-S5.**2**-...-00



18014400029371787

21914796/EN – 09/2015

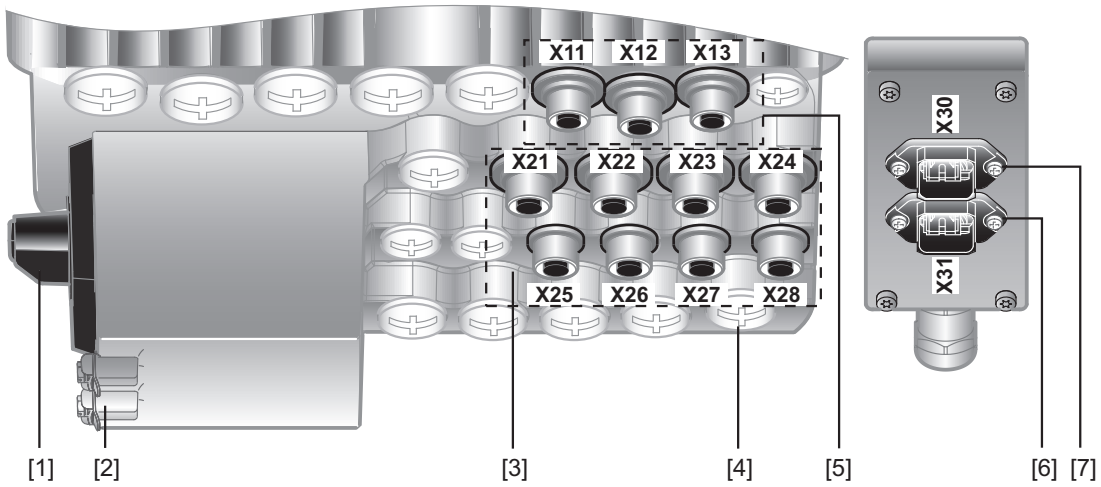
4.9.4 Hybrid ABOX "MTA...-S53.-...-00/L10"

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:



18014403568045579

[1] Maintenance switch (optional)
[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**olymere **O**ptical **F**iber

21914796/EN – 09/2015

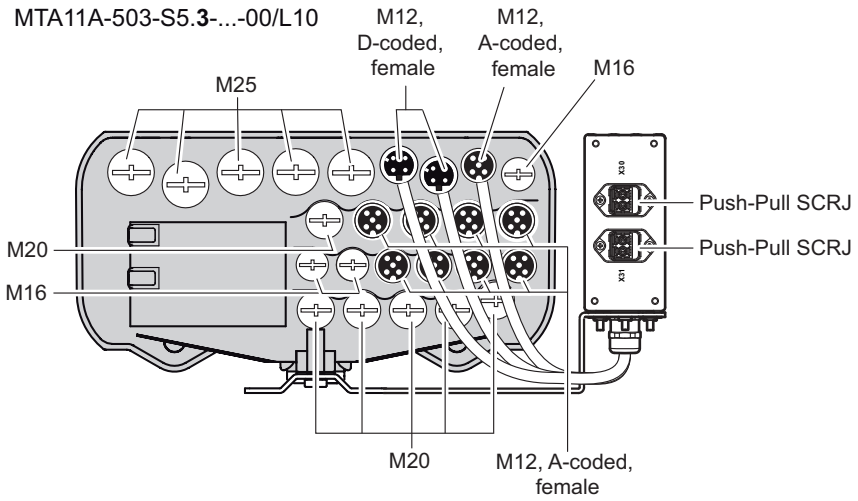
Variants

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



9007204538884491

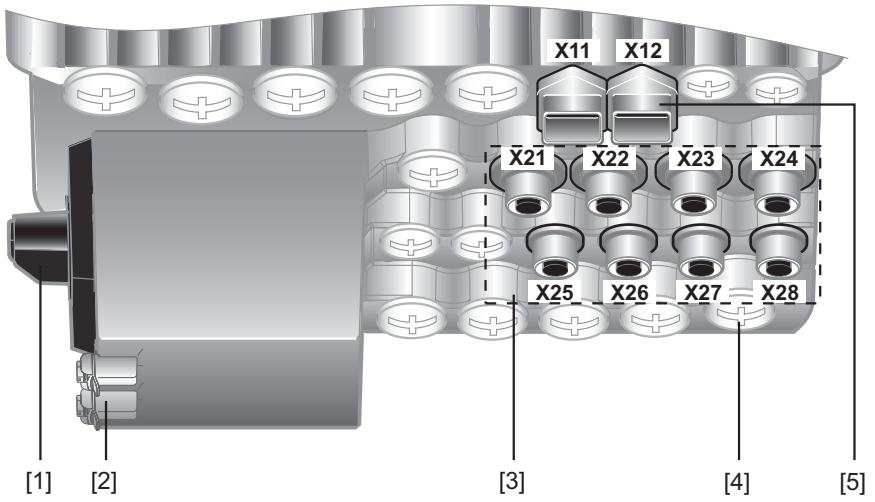
4.9.5 Hybrid ABOX "MTA...-S61.-...-00", "MTA...-S62.-...-00"

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:



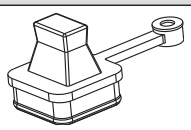
9007200170414987

[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	Contents	Part number
Ethernet closing plug for Push pull RJ45 socket		10 pieces	18223702
		30 pieces	18223710

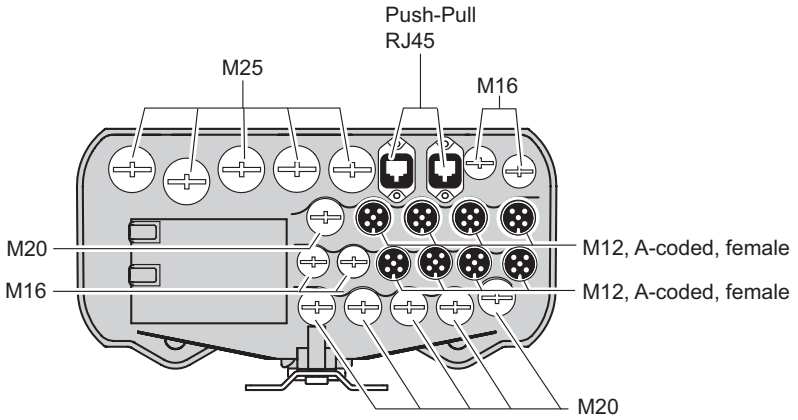
Variants

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 screw fittings and plug connectors of the hybrid ABOX:

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



9007204194604299

21914796/EN – 09/2015

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

INFORMATION

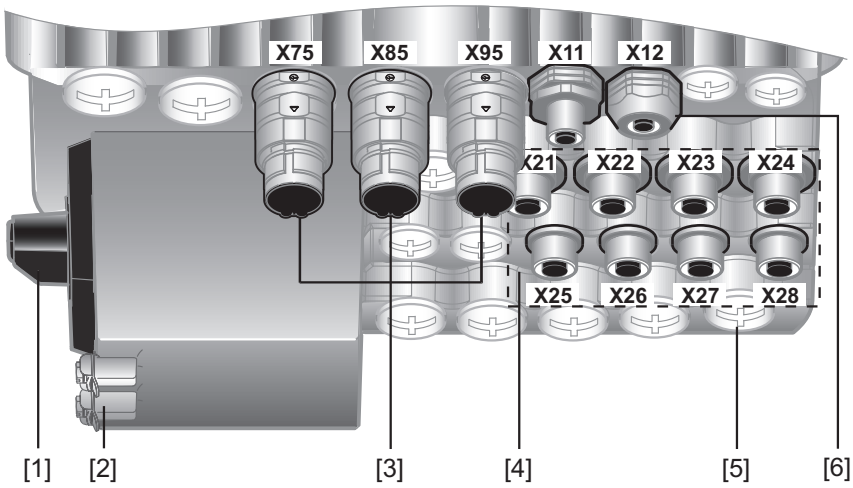
- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 3 circular connectors (Intercontec) to connect MOVIMOT® drives (downward MOVIMOT® output)
- M12 plug connectors for the connection of I/Os and bus

MTA...-I51.-...-00



14328834315

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

21914796/EN – 09/2015

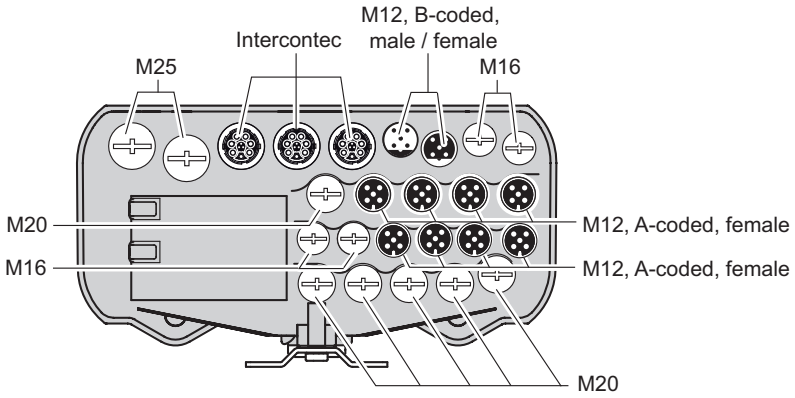
Variants

The hybrid ABOX is available in the following variants:

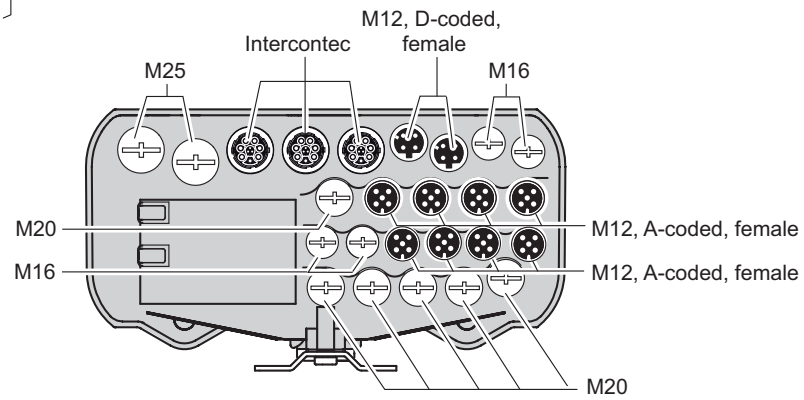
- MTA11A-503-**I51**.-...-00: Hybrid ABOX for MOVIFIT® MC (MTM)

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

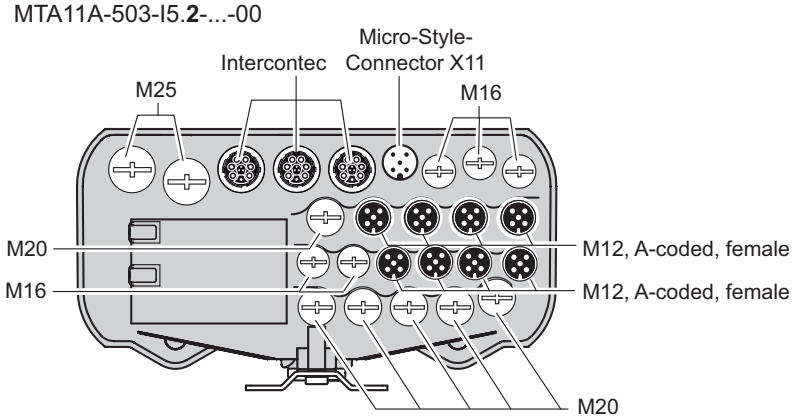
PROFIBUS MTA11A-503-I5.**1**-...-00



PROFINET
EtherNet/IP™
Modbus/TCP
MTA11A-503-I5.**3**-...-00



DeviceNet™ MTA11A-503-I5.**2**-...-00



9007204199167627

21914796/EN – 09/2015

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

INFORMATION

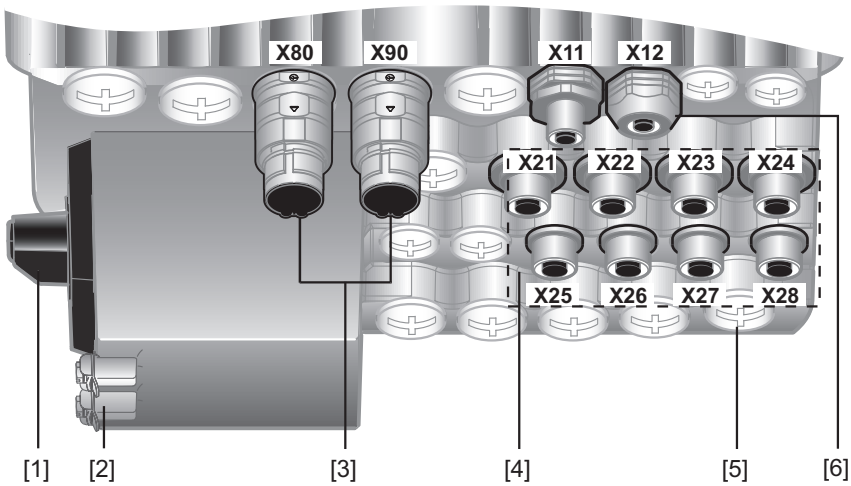
- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 2 circular connectors (Intercontec) for connecting the motors (downward motor output)
- M12 plug connectors for the connection of I/Os and bus

MTA...-I52.-...-00



14329218827

[1] Maintenance switch (optional)
[2] PE connection
[3] Circular 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

21914796/EN – 09/2015

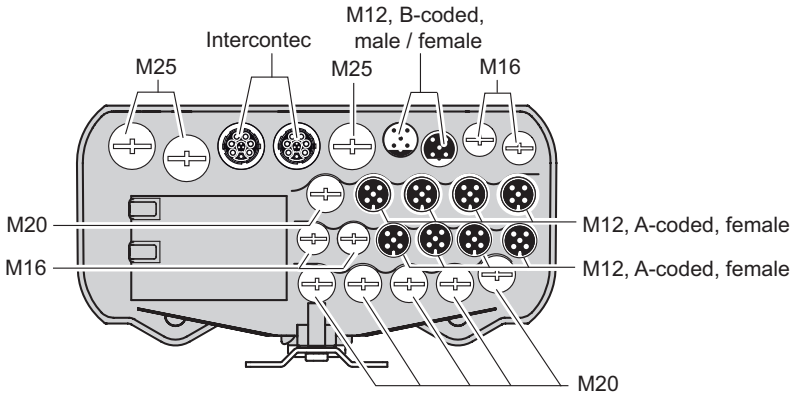
Variants

The hybrid ABOX is available in the following variants:

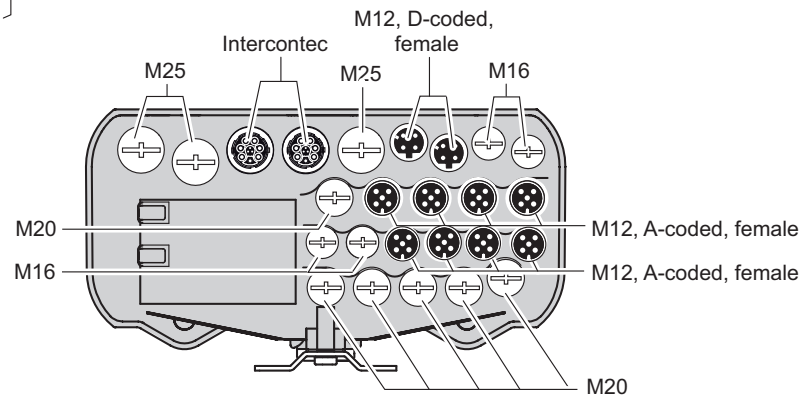
- MTA11A-503-**I52**.-...-00: Hybrid ABOX for MOVIFIT® SC (MTS)

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

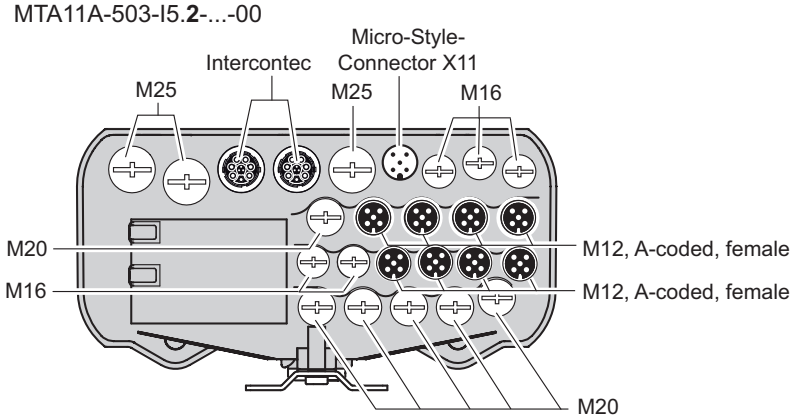
PROFIBUS MTA11A-503-I5.**1**-...-00



PROFINET
EtherNet/IP™
Modbus/TCP
MTA11A-503-I5.**3**-...-00



DeviceNet™ MTA11A-503-I5.**2**-...-00



9007204199782923

21914796/EN – 09/2015

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

INFORMATION

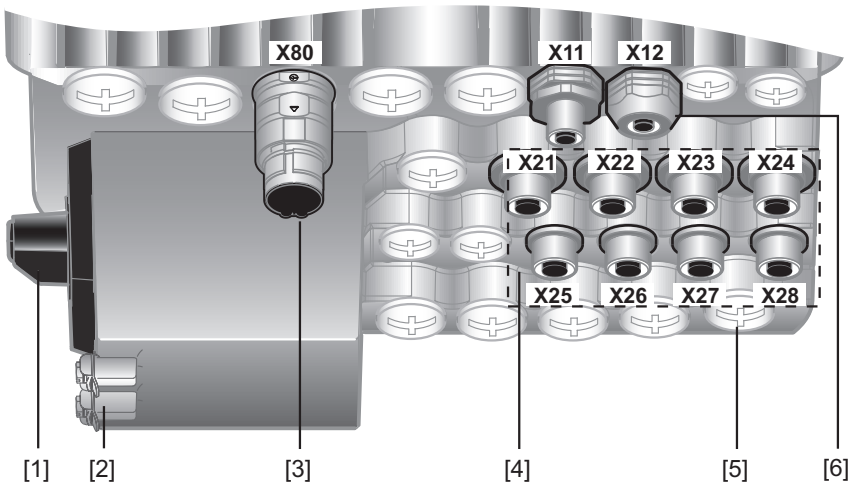
- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 1 circular connector (Intercontec) for connecting the motors (downward motor output)
- M12 plug connectors for the connection of I/Os and bus

MTA...-I55.-...-00



14329275019

[1] Maintenance switch (optional)
[2] PE connection
[3] Circular 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

21914796/EN – 09/2015

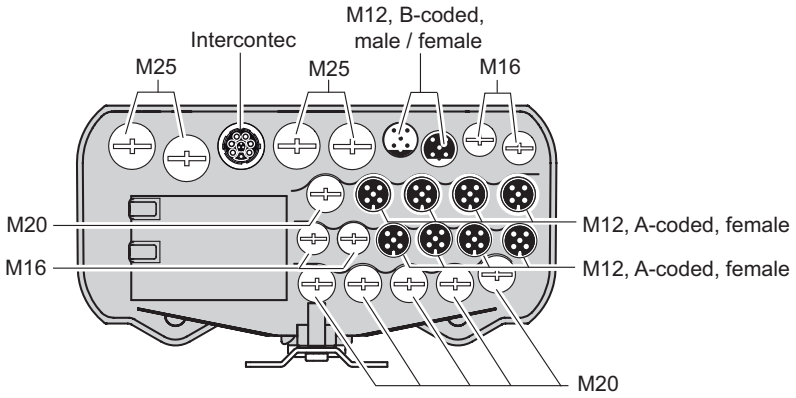
Variants

The hybrid ABOX is available in the following variants:

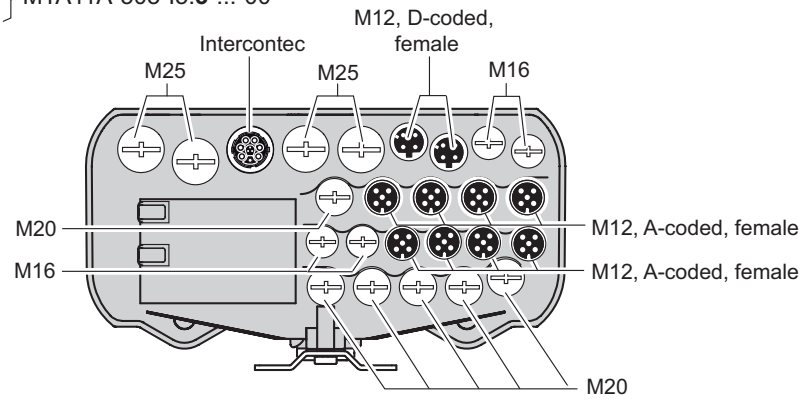
- MTA11A-503-**I55**.-...-00: Hybrid ABOX for MOVIFIT® SC (MTS) and FC (MTF)

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

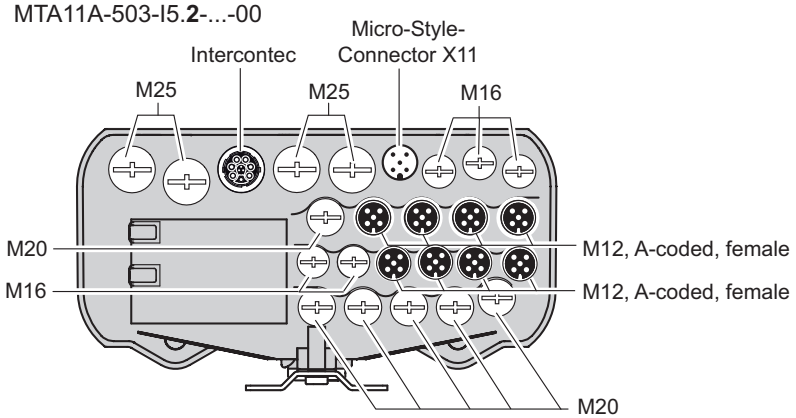
PROFIBUS MTA11A-503-I5.**1**-...-00



PROFINET
EtherNet/IP™
Modbus/TCP
MTA11A-503-I5.**3**-...-00



DeviceNet™ MTA11A-503-I5.**2**-...-00



9007203556709131

21914796/EN – 09/2015

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

INFORMATION

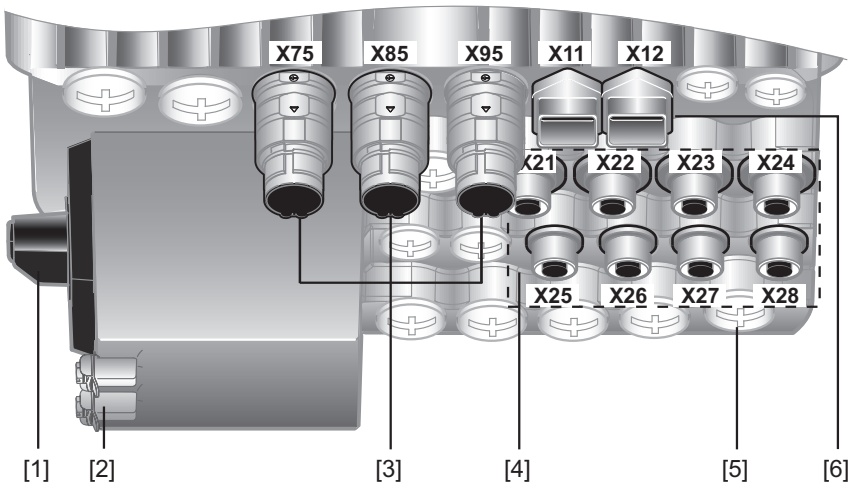
- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 3 circular connectors (Intercontec) to connect MOVIMOT® drives (downward MOVIMOT® output)
- M12 plug connectors for the connection of I/Os
- Push-pull RJ45 plug connectors for Ethernet connection

MTA...-I61.-...-00



14329417483

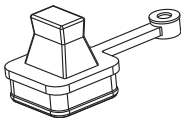
[1] Maintenance switch (integrated as standard in connection with MOVIFIT® MC)
[2] PE connection
[3] Circular connectors (Intercontec), MOVIMOT® output
[4] M12 plug connector for I/Os
[5] Diagnostics socket (RJ10) underneath the screw plug
[6] Push-pull RJ45 plug connector for Ethernet connection

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.

21914796/EN – 09/2015

Optional closing plug

Type	Figure	Contents	Part number
Ethernet closing plug for Push pull RJ45 socket		10 pieces	18223702
		30 pieces	18223710

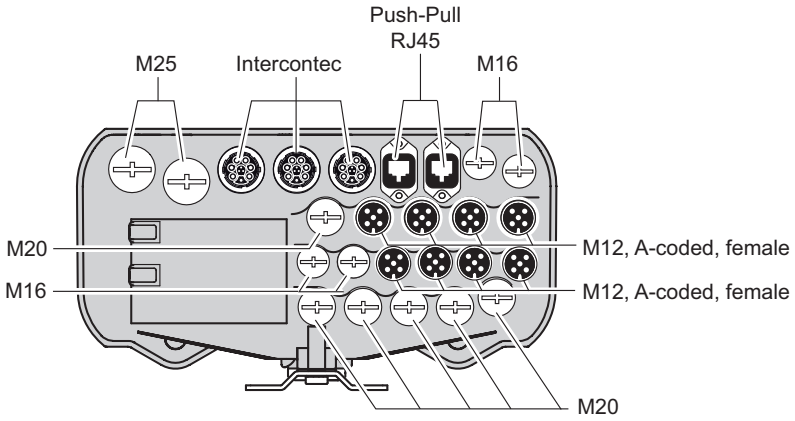
Variants

The hybrid ABOX is available in the following variants:

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

The following figure shows the screw fittings and plug connectors of the hybrid ABOX:

PROFINET
EtherNet/IP™
Modbus/TCP
} MTA11A-503-I6.**3**-...-00



9007204199800331

21914796/EN – 09/2015

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

INFORMATION

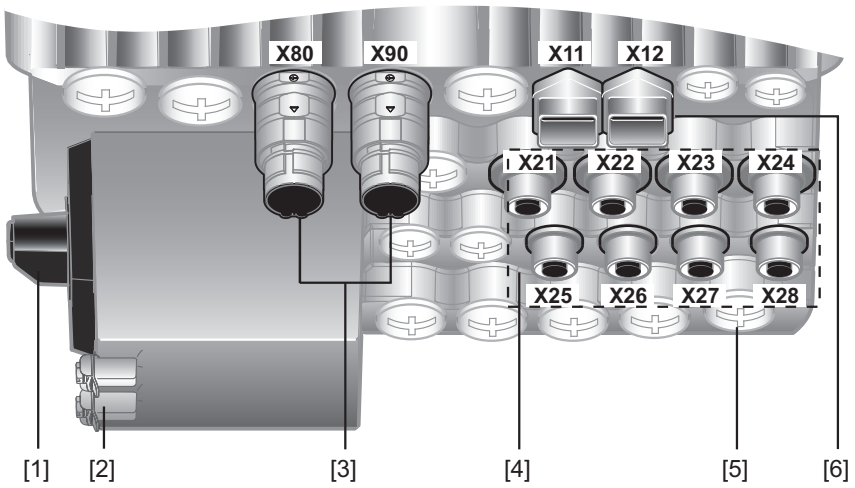
- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 2 circular connectors (Intercontec) for connecting the motors (downward motor output)
- M12 plug connectors for the connection of I/Os
- Push-pull RJ45 plug connectors for Ethernet connection

MTA...-I62.-...-00



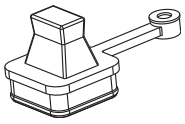
14329451915

[1] Maintenance switch (optional)
[2] PE connection
[3] Circular 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	Contents	Part number
Ethernet closing plug for Push pull RJ45 socket		10 pieces	18223702
		30 pieces	18223710

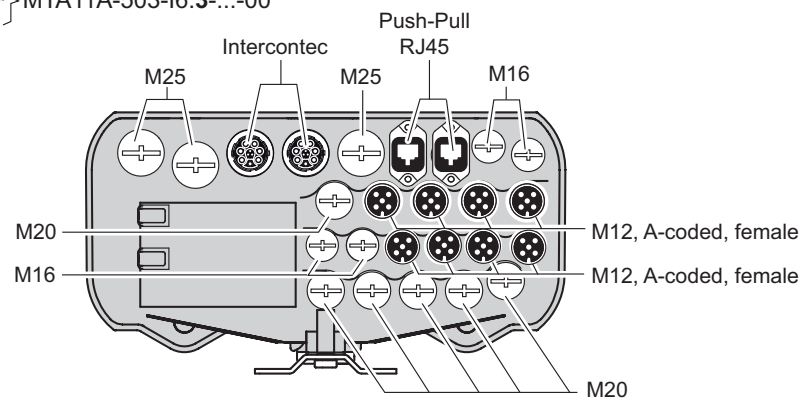
Variants

The hybrid ABOX is available in the following variants:

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

The following figure shows the screw fittings and plug connectors of the hybrid ABOX:

PROFINET
EtherNet/IP™
Modbus/TCP
} MTA11A-503-I6.**3**-...-00



9007204200263563

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

INFORMATION

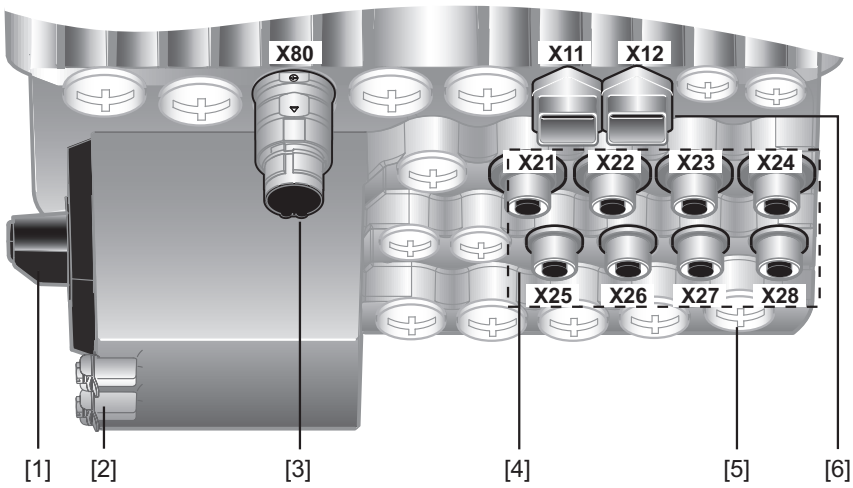
- The hybrid ABOX is based on the standard ABOX. The following therefore only describes the additional plug connectors in comparison with the standard ABOX.
- The built-in M12 plug connectors have no specific alignment. This is why you should only use straight M12 mating connectors.

Description

The following figure shows the hybrid ABOX with:

- 1 circular connector (Intercontec) for connecting the motors (downward motor output)
- M12 plug connectors for the connection of I/Os
- Push-pull RJ45 plug connectors for Ethernet connection

MTA...-I65.-...-00



14329675403

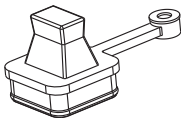
[1] Maintenance switch (optional)
[2] PE connection
[3] Circular connectors (Intercontec), motor output
[4] M12 plug connector for I/Os
[5] Diagnostics socket (RJ10) underneath the screw plug
[6] Push-pull RJ45 plug connector for Ethernet connection

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.

21914796/EN – 09/2015

Optional closing plug

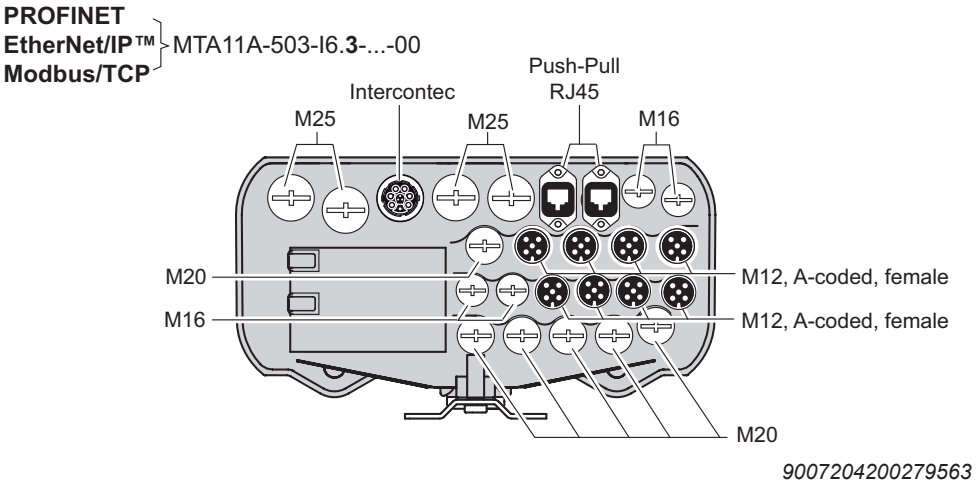
Type	Figure	Contents	Part number
Ethernet closing plug for Push pull RJ45 socket		10 pieces	18223702
		30 pieces	18223710

Variants

The hybrid ABOX is available in the following variants:

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

The following figure shows the screw fittings and plug connectors of the hybrid ABOX:



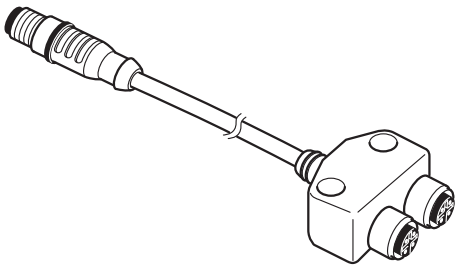
9007204200279563

21914796/EN – 09/2015

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.

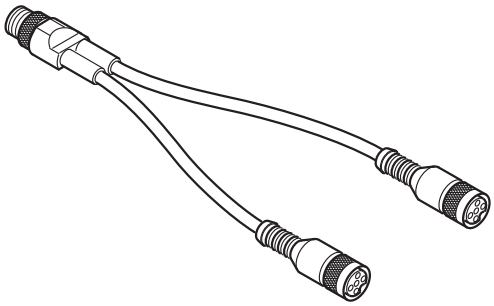
The Y adapter is available from different manufacturers:



9007200170035339

Manufacturer: Escha

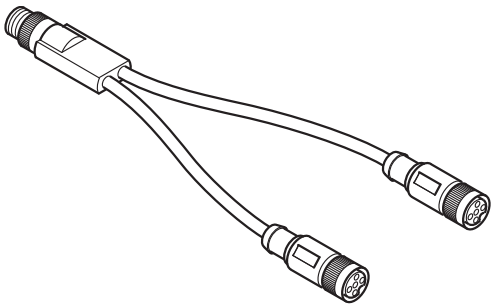
Type: WAS4-0,3-2FKM3/..



9007200435121675

Manufacturer: Binder

Type: 79 5200..

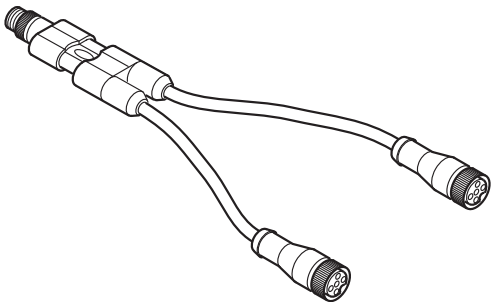


1180375179

Manufacturer: Phoenix Contact

Type: SAC-3P-Y-2XFS SCO/.../...

The cable sheath is made of PVC. Provide suitable UV protection.



1180386571

Manufacturer: Murrelektronik

Type: 7000-40721-..

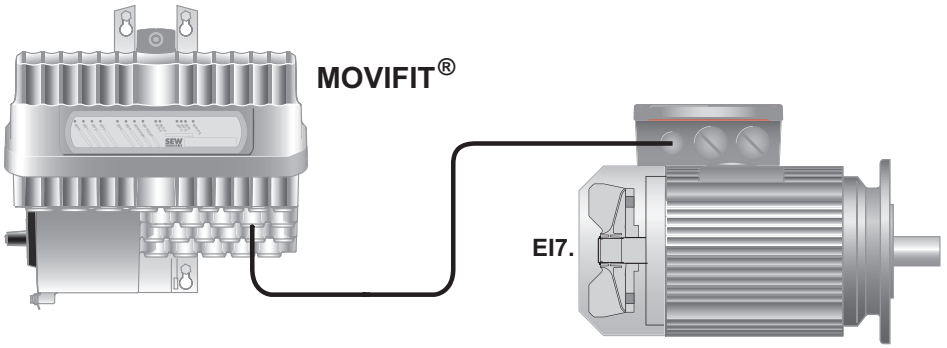
4.10 Connection options for encoders

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:



9007200250108171

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/revolution[1)]
EI72:	2 pulses/revolution	=> 8 increments/revolution[1)]
EI76:	6 pulses/revolution	=> 24 increments/revolution[1)]
EI7C:	24 pulses/revolution	=> 96 increments/revolution[1)]

1) due to 4-fold evaluation

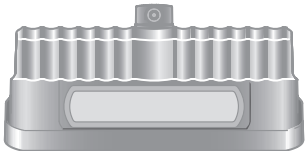
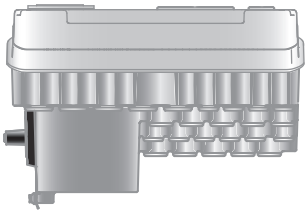
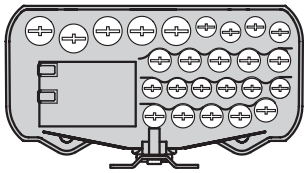
- Encoder monitoring and evaluation is possible with MOVIFIT® "Technology" function level.

21914796/EN – 09/2015

4.11 Selection tables

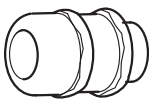
4.11.1 Available combinations for MOVIFIT® MC

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

	EBOX	ABOX
MC	**MTM...-...-00**  MOVIFIT® MC for controlling up to 3 MOVIMOT® drives	 **MTA...-S01.-...-00**  Standard ABOX with terminals and cable bushings

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

Screw fitting

Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

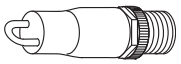
Maintenance switch	Integrated in	Type
Switch disconnector and line protection	ABOX	MTA...-...-....-**M01**-00 (up to 12 A)[1] MTA...-...-....-**M14**-00 (up to 9 A)[2] MTA...-...-....-**M15**-00 (up to 12 A)[2]

1) For UL only switch disconnector
2) Only available in connection with UL

Option

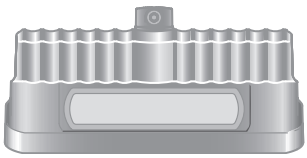
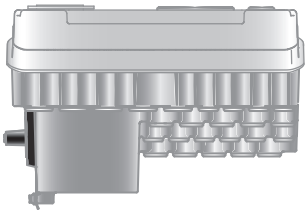
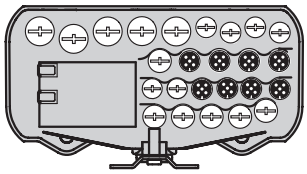
Option	Integrated in	Type
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**

21914796/EN – 09/2015

Option	Integrated in	Type
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

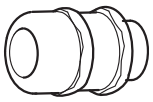
21914796/EN – 09/2015

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

	EBOX	ABOX
	MTM...-...-00	**MTA...-S41.-...-00**
MC	 MOVIFIT® MC for controlling up to 3 MOVIMOT® drives	  Hybrid ABOX with M12 for I/Os

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

Screw fitting

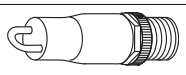
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch	Integrated in	Type
Switch disconnector 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)]

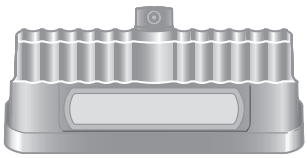
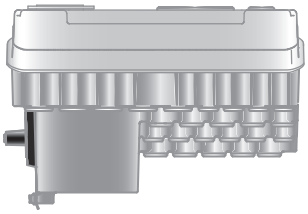
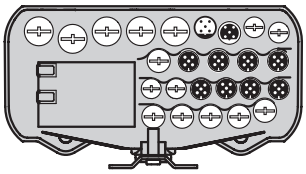
1) For UL only switch disconnector
2) Only available in connection with UL

Option

Option	Integrated in	Type
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

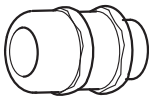
21914796/EN – 09/2015

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

	EBOX		ABOX
	MTM...-...-00		**MTA...-S51.-...-00**
MC	 MOVIFIT® MC for controlling up to 3 MOVIMOT® drives		 Hybrid ABOX with M12 for I/Os and bus

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

Screw fitting

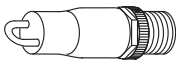
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch	Integrated in	Type
Switch disconnector 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)]

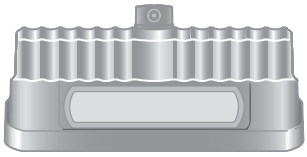
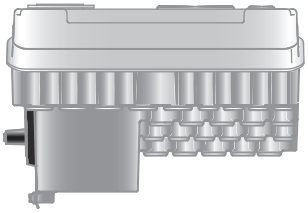
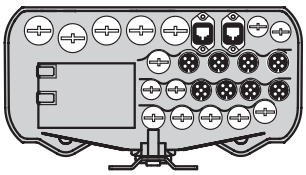
1) For UL only switch disconnector
2) Only available in connection with UL

Option

Option	Integrated in	Type
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

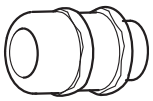
21914796/EN – 09/2015

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

	EBOX	ABOX
MC	**MTM...-...-00**  MOVIFIT® MC for controlling up to 3 MOVIMOT® drives	
		MTA...-S61.-...-00  Hybrid ABOX with M12 for I/Os and push-pull RJ45 for bus

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

Screw fitting

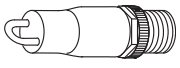
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch	Integrated in	Type
Switch disconnector 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)]

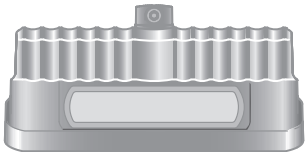
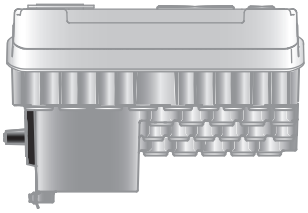
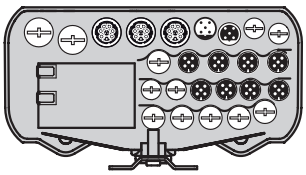
1) For UL only switch disconnector
2) Only available in connection with UL

Option

Option	Integrated in	Type
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

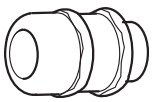
21914796/EN – 09/2015

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

	EBOX	ABOX	
	MTM...-...-00		**MTA...-I51.-...-00**
MC	 MOVIFIT® MC for controlling up to 3 MOVIMOT® drives		 Hybrid ABOX with 3 circular connectors (Intercontec) (downward motor output), and M12 for I/Os and bus

Function level	Fieldbus	Type of EBOX	Type of ABOX
Classic	PROFIBUS	MTM11A000-P10A-00	MTA11A-503-I511-M..-00
	DeviceNet™	MTM11A000-D10A-00	MTA11A-503-I512-M..-00
	PROFINET	MTM11A000-E20A-00	MTA11A-503-I513-M..-00
Technology	PROFIBUS	MTM11A000-P11A-00	MTA11A-503-I511-M..-00
	PROFINET	MTM11A000-E21A-00	MTA11A-503-I513-M..-00
	EtherNet/IP™ Modbus/TCP	MTM11A000-E31A-00	MTA11A-503-I513-M..-00

Screw fitting

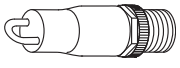
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch	Integrated in	Type
Switch disconnector 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)]

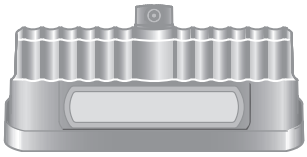
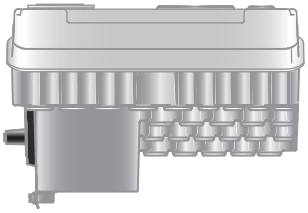
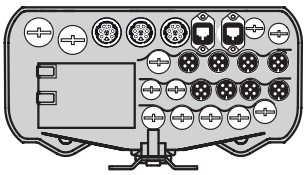
1) For UL only switch disconnector
2) Only available in connection with UL

Option

Option	Integrated in	Type
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

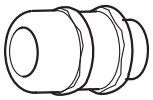
21914796/EN – 09/2015

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

	EBOX	ABOX
MC	**MTM...-...-00**  MOVIFIT® MC for controlling up to 3 MOVIMOT® drives	
		MTA...-I61.-...-00  Hybrid ABOX with 3 circular connectors (Intercontec) (downward motor output), and M12 for I/Os and bus

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

Screw fitting

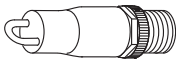
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch	Integrated in	Type
Switch disconnector 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) For UL only switch disconnector
2) Only available in connection with UL

Option

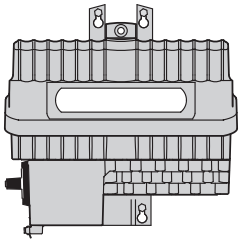
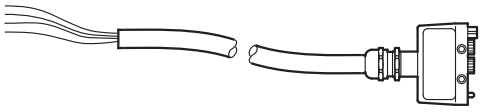
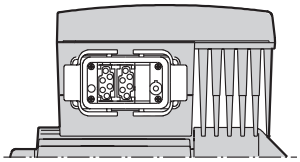
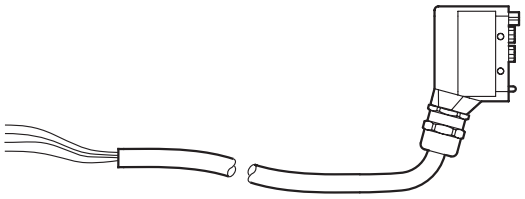
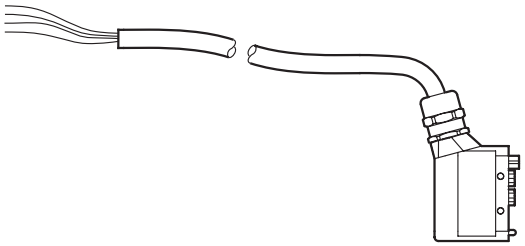
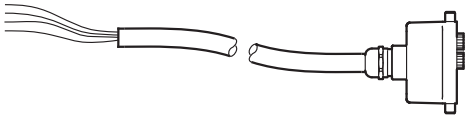
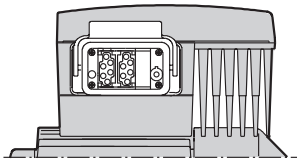
Option	Integrated in	Type
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

21914796/EN – 09/2015

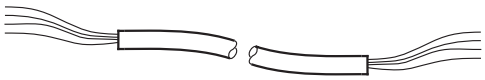
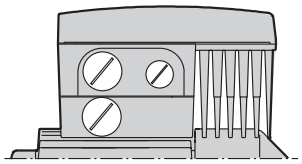
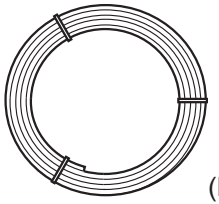
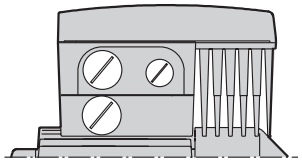
4.11.2 Hybrid cable for connecting MOVIFIT® MC and MOVIMOT®

Overview

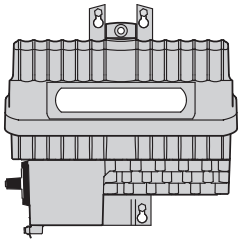
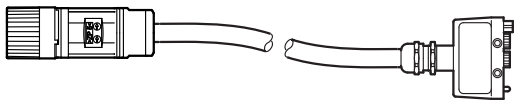
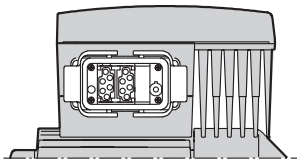
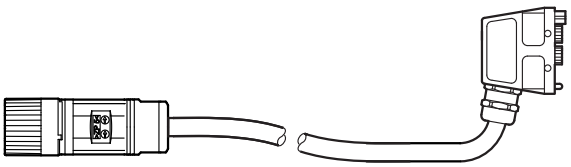
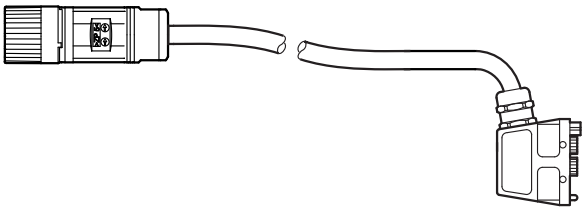
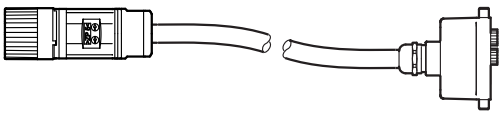
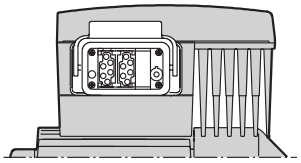
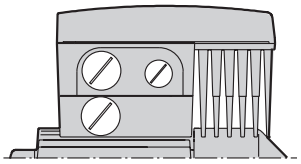
Hybrid cables are available for connecting MOVIFIT® MC and MOVIMOT®. The following table lists the available hybrid cables for total currents of up to 12 A (with UL approval only up to 9 A):

MOVIFIT® MC	Connection cable	Length Type	Drive
Standard ABOX: MTA...-S01.-...-00 **Hybrid ABOX:** MTA...-S41.-...-00 MTA...-S51.-...-00 MTA...-S61.-...-00 	Part number: 08199655 	variable type B	MOVIMOT® with AMA6 plug connector 
	Part number: 18100554  *9007200340340363*		
	Part number: 18100562  *9007200339769739*		
	Part number: 08198713 	variable type B	MOVIMOT® with AMD6 plug connector 

21914796/EN – 09/2015

MOVIFIT® MC	Connection cable	Length Type	Drive
	Part number: 08199744 	variable type B	MOVIMOT® with cable glands 
	Part number: 08145172/30 m Part number: 08145172/100 m  (Hybrid cable roll)	30 m 100 m Type B	MOVIMOT® with cable glands 

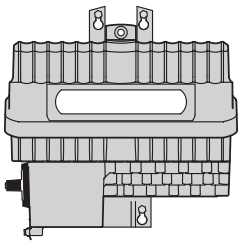
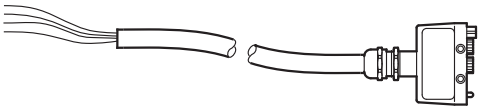
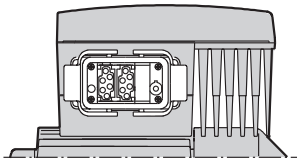
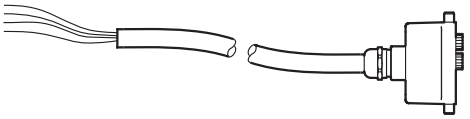
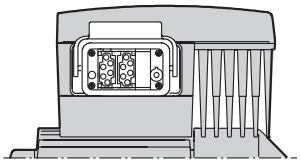
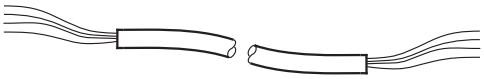
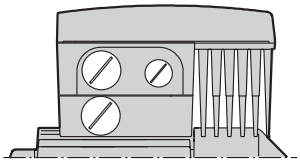
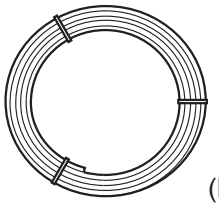
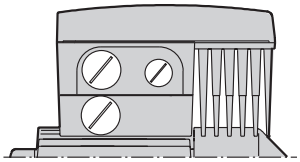
21914796/EN – 09/2015

MOVIFIT® MC	Connection cable	Length Type	Drive
Hybrid ABOX: MTA...-I51.-...-00 MTA...-I61.-...-00 	Part number: 18146155 	variable type B	MOVIMOT® with AMA6 plug connector 
	Part number: 18147348  *9007205621179531*		
	Part number: 18147321  *9007205621164427*		
	Part number: 18146171 	variable type B	MOVIMOT® with AMD6 plug connector 
	Part number: 18145213 	variable type B	MOVIMOT® with cable glands 

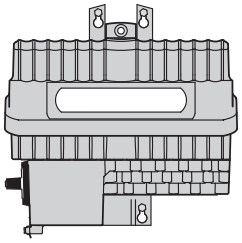
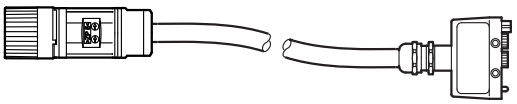
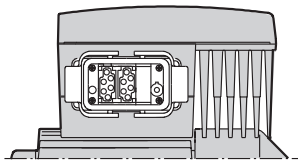
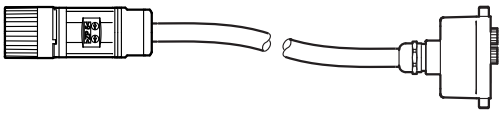
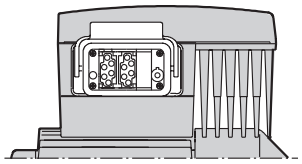
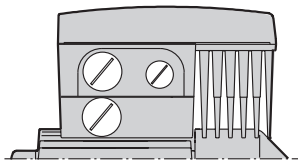
21914796/EN – 09/2015

Hybrid cables for UL-compliant installation up to 12 A

The hybrid cables listed in the following table are the only cables permitted for connecting MOVIFIT® MC and MOVIMOT® for use in UL-compliant installation with a total current of up to 12 A:

MOVIFIT® MC	Connection cable	Length Type	Drive
Standard ABOX: MTA...-S01.-...-00 **Hybrid ABOX:** MTA...-S41.-...-00 MTA...-S51.-...-00 MTA...-S61.-...-00 	Part number: 18112994 	variable type B/2.5	MOVIMOT® with AMA6 plug connector 
	Part number: 18113001 	variable type B/2.5	MOVIMOT® with AMD6 plug connector 
	Part number: 18113036 	variable type B/2.5	MOVIMOT® with cable glands 
	Part number: 13284363/30 m Part number: 13284363/100 m  (Hybrid cable roll)	30 m 100 m Type B/2.5	MOVIMOT® with cable glands 

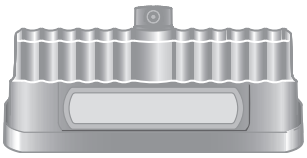
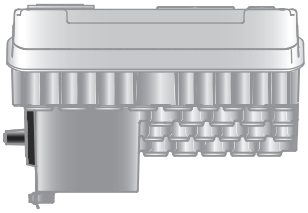
21914796/EN – 09/2015

MOVIFIT® MC	Connection cable	Length Type	Drive
Hybrid ABOX: MTA...-I51.-...-00 MTA...-I61.-...-00 	Part number: 18146147 	variable type B/2.5	MOVIMOT® with AMA6 plug connector 
	Part number: 18146163 	variable type B/2.5	MOVIMOT® with AMD6 plug connector 
	Part number: 18145892 	variable type B/2.5	MOVIMOT® with cable glands 

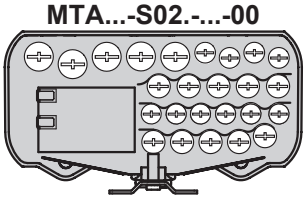
21914796/EN – 09/2015

4.11.3 Available combinations for MOVIFIT® SC

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

	EBOX	ABOX
SC	**MTS...-...-00**  MOVIFIT® SC with integrated motor starter	

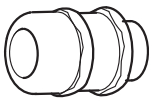
MTA...-S02.-...-00



Standard ABOX
with terminals and cable bushings

Function level	Fieldbus	Unit performance	Type of EBOX	Type of ABOX
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	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	
	PROFINET	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-S023-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP™ Modbus/TCP	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-S023-00
		3.0 kW	MTS11A030-503-E31A-00	
SBus slave	without	1.5 kW	MTS11A015-503-Z10A-00	MTA11A-503-S021-00
		3.0 kW	MTS11A030-503-Z10A-00	

Screw fitting

Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

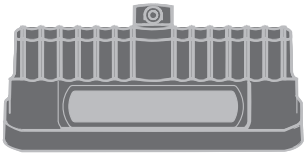
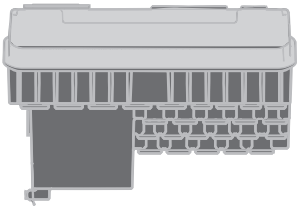
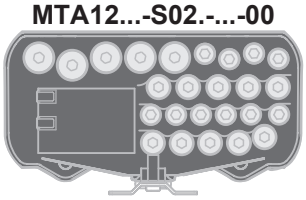
Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M12**-00 (up to 9 A)[1]

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

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

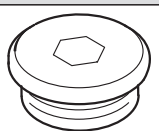
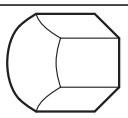
INFORMATION

- IP69K degree of protection 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.

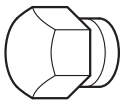
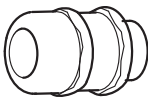
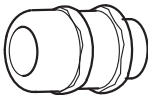
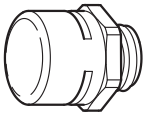
	EBOX	ABOX
SC	**MTS12...-...-00**  MOVIFIT® SC with integrated motor starter (Hygienic^{plus} design)	 **MTA12...-S02.-...-00**  Standard ABOX with terminals and cable bushings (Hygienic^{plus} design)

Function level	Fieldbus	Unit performance	Type of EBOX	Type of ABOX
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	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	
	PROFINET	1.5 kW	MTS12A015-503-E21A-00	MTA12A-503-S023-00
		3.0 kW	MTS12A030-503-E21A-00	
	EtherNet/IP™ Modbus/TCP	1.5 kW	MTS12A015-503-E31A-00	MTA12A-503-S023-00
		3.0 kW	MTS12A030-503-E31A-00	
SBus slave	without	1.5 kW	MTS12A015-503-Z10A-00	MTA12A-503-S021-00
		3.0 kW	MTS12A030-503-Z10A-00	

Screw fittings/screw plug/pressure compensation

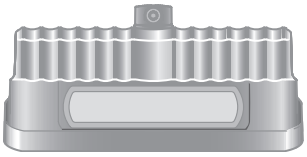
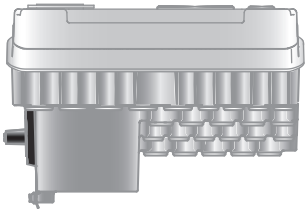
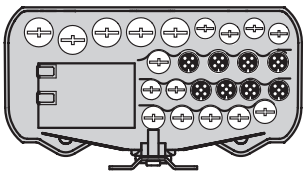
Type of screw fitting	Figure	Contents	Size	Part number
Stainless steel screw plugs		10 pieces	M16 x 1.5	18202233
		10 pieces	M20 x 1.5	18202241
		10 pieces	M25 x 1.5	18202268
M12 screw plug (made of stainless steel)		10 pieces	M12 x 1.0	18202799

21914796/EN – 09/2015

Type of screw fitting	Figure	Contents	Size	Part number
M12 screw plug (made of stainless steel)		10 pieces	M12 x 1.0	18202276
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805
EMC cable gland (made of stainless steel)		10 pieces	M16 x 1.5	18216366
		10 pieces	M20 x 1.5	18216374
		10 pieces	M25 x 1.5	18216382
Pressure compensation screw fittings (made of stainless steel)		1 piece	M16 x 1.5	18204090
		1 piece	M20 x 1.5	18204325

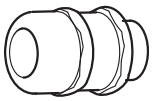
21914796/EN – 09/2015

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

	EBOX	ABOX
SC	MTS...-...-00  MOVIFIT® SC with integrated motor starter		MTA...-S42.-...-00  Hybrid ABOX with M12 for I/Os

Function level	Fieldbus	Unit performance	Type of EBOX	Type of ABOX
Classic	PROFIBUS	1.5 kW	MTS11A015-503-P10A-00	MTA11A-503-S421-00
		3.0 kW	MTS11A030-503-P10A-00	
	PROFINET	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	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-S423-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP™ Modbus/TCP	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-S423-00
		3.0 kW	MTS11A030-503-E31A-00	
SBus slave	without	1.5 kW	MTS11A015-503-Z10A-00	MTA11A-503-S421-00
		3.0 kW	MTS11A030-503-Z10A-00	

Screw fitting

Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

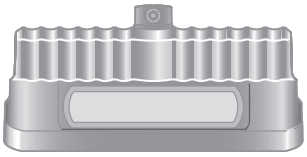
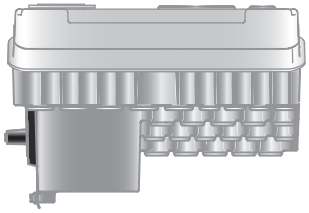
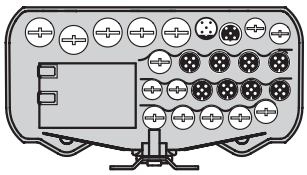
Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M12**-00 (up to 9 A)[1)]

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

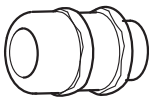
21914796/EN – 09/2015

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

	EBOX	ABOX
SC	MTS...-...-00  MOVIFIT® SC with integrated motor starter		MTA...-S52.-...-00  Hybrid ABOX with M12 for I/Os and Bus

Function level	Fieldbus	Unit performance	Type of EBOX	Type of ABOX
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	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	
	PROFINET	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-S523-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP™ Modbus/TCP	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-S523-00
		3.0 kW	MTS11A030-503-E31A-00	

Screw fitting

Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

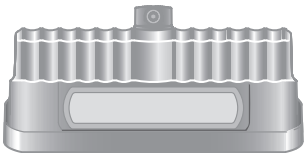
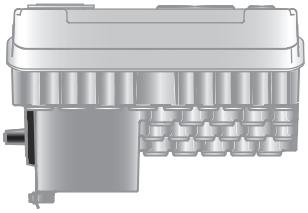
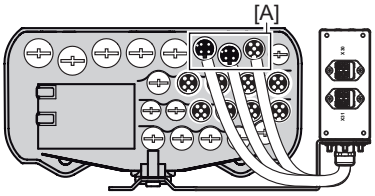
Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M12**-00 (up to 9 A)[1)]

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

21914796/EN – 09/2015

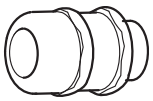
MOVIFIT® SC in connection with hybrid ABOX MTA...-S533.-...-00/L10 (POF)

	EBOX	ABOX
SC	**MTS...-...-00**  MOVIFIT® SC with integrated motor starter		**MTA...-S533-...-00/L10**  Hybrid ABOX with M12 for I/Os + bus, and 24 V output and L10 SCRJ/POF PROFINET option

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

Function level	Fieldbus	Unit performance	Type of EBOX	Type of ABOX
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

Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

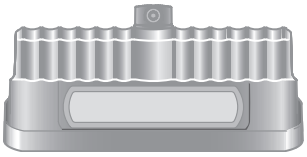
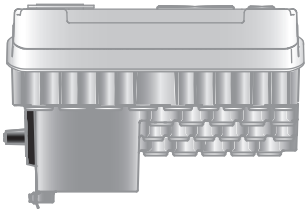
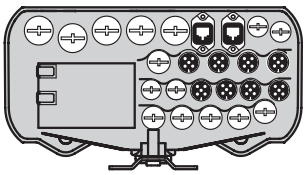
Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M12**-00 (up to 9 A)[1)]

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

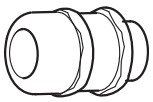
21914796/EN – 09/2015

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

	EBOX	ABOX
SC	**MTS...-...-00**  MOVIFIT® SC with integrated motor starter		**MTA...-S62.-...-00**  Hybrid ABOX with M12 for I/Os and push-pull RJ45 for bus

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

Screw fitting

Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

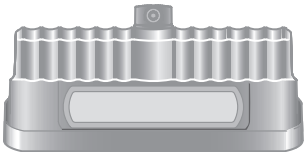
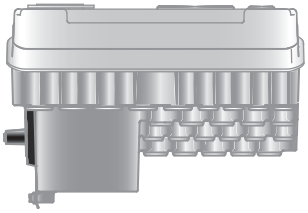
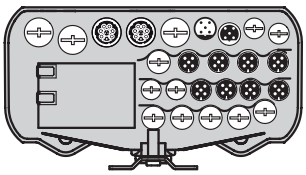
Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M12**-00 (up to 9 A)[1)]

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

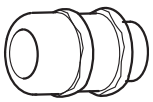
21914796/EN – 09/2015

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

	EBOX	ABOX	
SC	MTS...-...-00  MOVIFIT® SC with integrated motor starter		MTA...-I52.-...-00  Hybrid ABOX with 2 circular connectors (Intercontec) (downward motor output), and M12 for I/Os and bus

Function level	Fieldbus	Unit performance	Type of EBOX	Type of ABOX
Classic	PROFIBUS	1.5 kW	MTS11A015-503-P10A-00	MTA11A-503-I521-00
		3.0 kW	MTS11A030-503-P10A-00	
	DeviceNet™	1.5 kW	MTS11A015-503-D10A-00	MTA11A-503-I522-00
		3.0 kW	MTS11A030-503-D10A-00	
	PROFINET	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-I523-00
		3.0 kW	MTS11A030-503-E20A-00	
Technology	PROFIBUS	1.5 kW	MTS11A015-503-P11A-00	MTA11A-503-I521-00
		3.0 kW	MTS11A030-503-P11A-00	
	PROFINET	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-I523-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP™	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-I523-00
	Modbus/TCP	3.0 kW	MTS11A030-503-E31A-00	

Screw fitting

Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

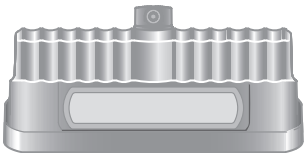
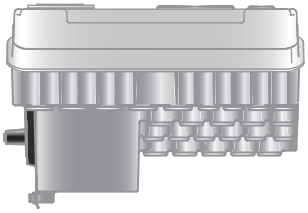
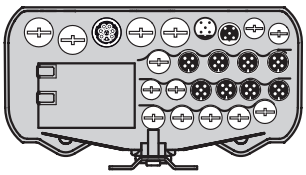
Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M12**-00 (up to 9 A)[1]

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

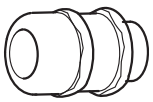
21914796/EN – 09/2015

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

	EBOX		ABOX
SC	MTS...-...-00  MOVIFIT® SC with integrated motor starter		MTA...-I55.-...-00  Hybrid ABOX with 1 circular connector (Intercontec) (downward motor output), and M12 for I/Os and bus

Function level	Fieldbus	Unit performance	Type of EBOX	Type of ABOX
Classic	PROFIBUS	1.5 kW	MTS11A015-503-P10A-00	MTA11A-503-I551-00
		3.0 kW	MTS11A030-503-P10A-00	
	DeviceNet™	1.5 kW	MTS11A015-503-D10A-00	MTA11A-503-I552-00
		3.0 kW	MTS11A030-503-D10A-00	
	PROFINET	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-I553-00
		3.0 kW	MTS11A030-503-E20A-00	
Technology	PROFIBUS	1.5 kW	MTS11A015-503-P11A-00	MTA11A-503-I551-00
		3.0 kW	MTS11A030-503-P11A-00	
	PROFINET	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-I553-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP™	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-I553-00
	Modbus/TCP	3.0 kW	MTS11A030-503-E31A-00	

Screw fitting

Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

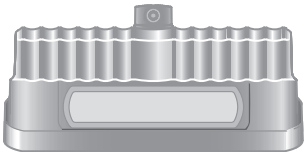
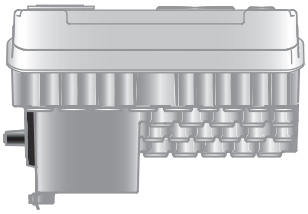
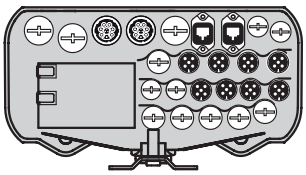
Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M12**-00 (up to 9 A)[1]

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

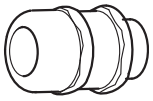
21914796/EN – 09/2015

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

	EBOX	ABOX
SC	MTS...-...-00  MOVIFIT® SC with integrated motor starter	 MTA...-I62.-...-00  Hybrid ABOX with 2 circular connectors (Intercontec) (downward motor output), and M12 for I/Os and bus

Function level	Fieldbus	Unit performance	Type of EBOX	Type of ABOX
Classic	PROFINET	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-I623-00
		3.0 kW	MTS11A030-503-E20A-00	
Technology	PROFINET	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-I623-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP™	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-I623-00
	Modbus/TCP	3.0 kW	MTS11A030-503-E31A-00	

Screw fitting

Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

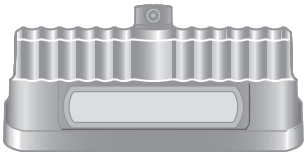
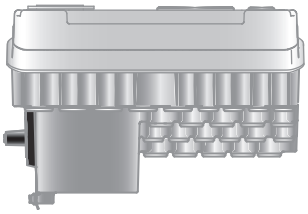
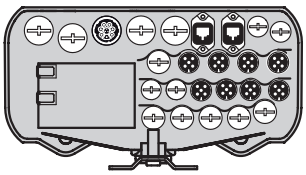
Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M12**-00 (up to 9 A)[1)]

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

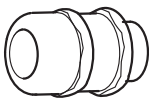
21914796/EN – 09/2015

MOVIFIT® SC in connection with hybrid ABOX MTA...-S65.-...-00

	EBOX	ABOX	
SC	MTS...-...-00  MOVIFIT® SC with integrated motor starter		MTA...-I65.-...-00  Hybrid ABOX with 1 circular connector (Intercontec) (downward motor output), and M12 for I/Os and push-pull RJ45 for bus

Function level	Fieldbus	Unit performance	Type of EBOX	Type of ABOX
Classic	PROFIBUS	1.5 kW	MTS11A015-503-P10A-00	MTA11A-503-I651-00
		3.0 kW	MTS11A030-503-P10A-00	
	DeviceNet™	1.5 kW	MTS11A015-503-D10A-00	MTA11A-503-I652-00
		3.0 kW	MTS11A030-503-D10A-00	
	PROFINET	1.5 kW	MTS11A015-503-E20A-00	MTA11A-503-I653-00
		3.0 kW	MTS11A030-503-E20A-00	
Technology	PROFIBUS	1.5 kW	MTS11A015-503-P11A-00	MTA11A-503-I651-00
		3.0 kW	MTS11A030-503-P11A-00	
	PROFINET	1.5 kW	MTS11A015-503-E21A-00	MTA11A-503-I653-00
		3.0 kW	MTS11A030-503-E21A-00	
	EtherNet/IP™ Modbus/TCP	1.5 kW	MTS11A015-503-E31A-00	MTA11A-503-I653-00
		3.0 kW	MTS11A030-503-E31A-00	

Screw fitting

Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M12**-00 (up to 9 A)[1)]

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

21914796/EN – 09/2015

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:

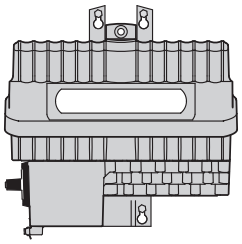
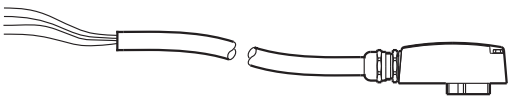
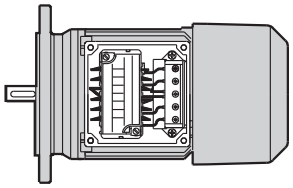
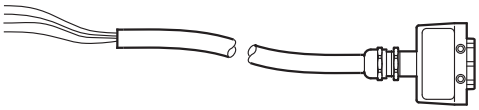
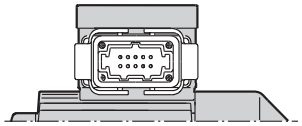
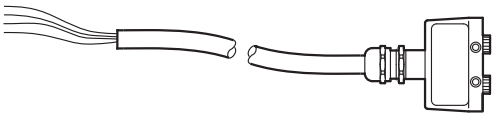
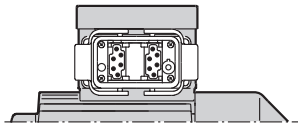
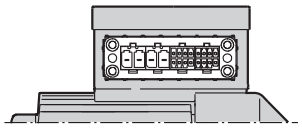
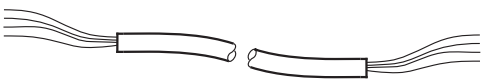
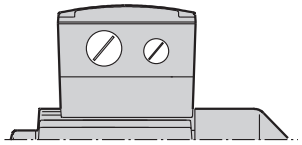
Key features	Requirements for the assigned AC motor
Permitted motors	Motors within the range 0.25 kW to 3 kW are permitted.
Permitted nominal motor voltage	AC 380 V to AC 500 V
Permitted brakes	No restrictions
Permitted brake voltage	In case of brakemotors, the brake voltage must comply with the voltage of the outer conductor. (e.g. 400 V supply system = 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 chapter "Hybrid cables for connecting MOVIFIT® SC and motors""" (→ 🗎 171).
Permitted motor protection	• TH thermostat (bimetallic switch) • TF temperature sensor (PTC thermistor or PTC resistor)

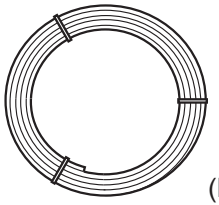
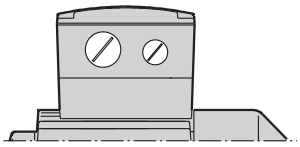
21914796/EN – 09/2015

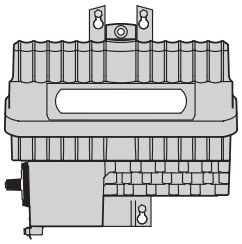
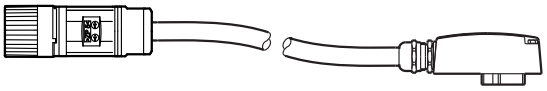
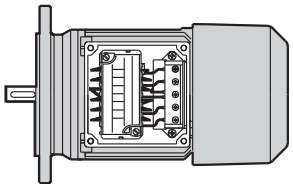
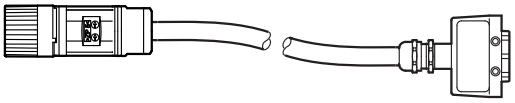
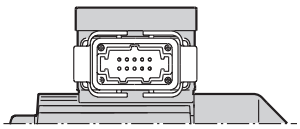
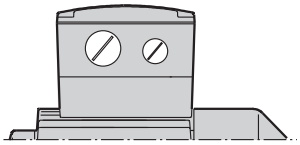
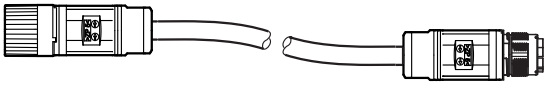
4.11.4 Hybrid cables for connecting MOVIFIT® SC and motors

Overview

The following hybrid cables are available for connecting MOVIFIT® SC and motor:

MOVIFIT® SC	Connection cable	Length Type	Drive
Standard ABOX: MTA...-S02.-...-00 **Hybrid ABOX:** MTA...-S42.-...-00 MTA...-S52.-...-00 MTA...-S62.-...-00 	Part number DR63/DT71 – DR90 (⅄): 08199671 Part number DR63/DT71 – DR90 (△): 08199698 Part number DV100, DV112 DR.71-132 (⅄): 08199701 Part number DV100, DV112 DR.71-132 (△): 08198748 	variable Type A	Motor with ISU4 plug connector 
	Part number: 08199728 	variable Type A	Motor with ASB4 plug connector 
	Part number: 08198756 	variable Type A	Motor with AMB4 plug connector 
	Part number: 08199736 	variable Type A	Motor with APG4 plug connector 
	Part no.: DR.71 – 100 (M4 ring cable lug): 08199752 Part no.: DR.112 – 132 (M5 ring cable lug): 18143199 	variable Type A	Motor with cable glands 

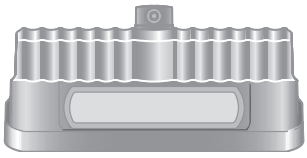
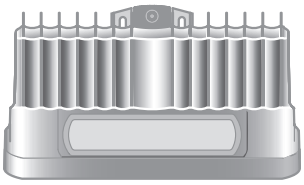
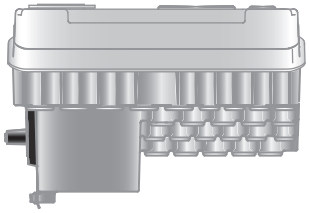
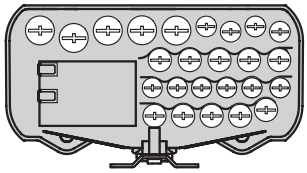
MOVIFIT® SC	Connection cable	Length Type	Drive
	Part number: 08179530/30 m Part number: 08179530/100 m  (Hybrid cable roll)	30 m 100 m Type A	Motor with cable glands 

MOVIFIT® SC	Connection cable	Length Type	Drive
Hybrid ABOX: MTA...-I52.-...-00 MTA...-I55.-...-00 MTA...-I62.-...-00 MTA...-I65.-...-00 	Part number DR63 (⅄): 18138411 Part number DR63 (△): 18138438 Part number DR.71 – 132 (⅄): 18138330 Part number DR.71 – 132 (△): 18138365 	variable Type A	Motor with ISU4 plug connector 
	Part number: 18142257 	variable Type A	Motor with ASB4 plug connector 
	Part no.: DR.71 – 100 (M4 ring cable lug): 18141870 Part no.: DR.112 – 132 (M5 ring cable lug): 18142230 	variable Type A	Motor with cable glands 
	Part number: 18141056 (= extension cable) 	variable Type A	Hybrid cable

21914796/EN – 09/2015

4.11.5 Available combinations for MOVIFIT® FC

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

	EBOX	ABOX
FC	**MTF...-...-00** Size 1  Size 2  MOVIFIT ® FC with integrated frequency inverter	 **MTA...-S02.-...-..**  Standard ABOX with terminals and cable bushings

Function level	Fieldbus	Unit performance	Size	Type of EBOX □ = Motor assignment	Type of ABOX
Classic	PROFIBUS	0.37 kW	1	MTF11A003-503-P10A-□	MTA11A-503-S021-00 MTA11A-503-S021-30 MTA11A-503-S021-32
		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-□	
Classic	DeviceNet™	0.37 kW	1	MTF11A003-503-D10A-□	MTA11A-503-S022-00 MTA11A-503-S022-30 MTA11A-503-S022-33
		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-□	

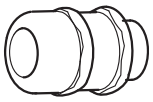
21914796/EN – 09/2015

Function level	Fieldbus	Unit performance	Size	Type of EBOX □.. = Motor assignment	Type of ABOX
Classic	PROFINET	0.37 kW	1	MTF11A003-503-E20A-□..	MTA11A-503-S023-00 MTA11A-503-S023-30 MTA11A-503-S023-33
		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	PROFIBUS	0.37 kW	1	MTF11A003-503-P11A-□..	MTA11A-503-S021-00 MTA11A-503-S021-30 MTA11A-503-S021-33
		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-□..	
Technology	PROFINET	0.37 kW	1	MTF11A003-503-E21A-□..	MTA11A-503-S023-00 MTA11A-503-S023-30 MTA11A-503-S023-33
		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-□..	
Technology	EtherNet/IP™ Modbus/TCP	0.37 kW	1	MTF11A003-503-E31A-□..	MTA11A-503-S023-00 MTA11A-503-S023-30 MTA11A-503-S023-33
		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-□..	

21914796/EN – 09/2015

Function level	Fieldbus	Unit performance	Size	Type of EBOX □ = Motor assignment	Type of ABOX
SBus slave	Without	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

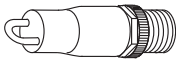
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M11**-00 (up to 4 A)[1)] MTA...-...-....-**M12**-00 (up to 9 A)[1)]

1) Only available in connection with UL

Option

Option	Integrated in	Type
Integrated braking resistor For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with integrated BW.. braking resistor" (→ 🗎 358).	ABOX	MTF11A003... to MTF11A015...:**/BW1** (Part number 18207057)
		MTF11A003... to MTF11A040...: **/BW2** (Part number 18207545)
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

21914796/EN – 09/2015

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with brake and external braking resistor" (→ 🗎 360).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... to MTF11A015...	08282919	0813152X
BW200-005/K-1.5		08282838	-
BW150-006-T		17969565	-
BW100-003/K-1.5	MTF11A022... to MTF11A040...	08282935	0813152X
BW100-005/K-1.5		08282862	-
BW068-006-T		17970008	-
BW068-012-T		17970016	-

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
12 = DRS 460 V, 60 Hz
13 = DRE 460 V, 60 Hz
14 = DRS-DRE 380 V, 60 Hz
15 = DRS-DRE 50 – 60 Hz
16 = DRP 400 V, 50 Hz
17 = DRP 460 V, 60 Hz
18 = DRN 400 V, 50 Hz
19 = DRN 460 V, 60 Hz
20 = DRN 50 – 60 Hz

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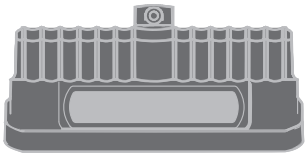
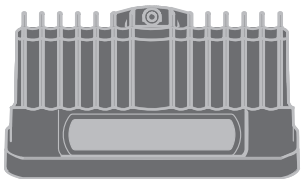
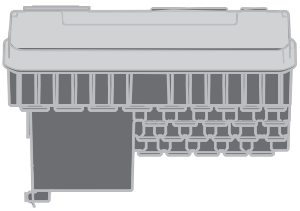
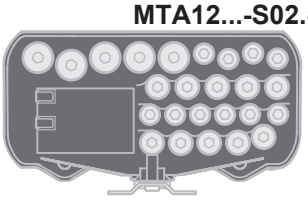
21914796/EN – 09/2015

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

INFORMATION

- IP69K degree of protection 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.

	EBOX	ABOX
FC	**MTF12...-...-00** Size 1  Size 2  MOVIFIT® FC with integrated frequency inverter (Hygienic^{plus} design)	 **MTA12...-S02.-...-..**  Standard ABOX with terminals and cable glands (Hygienic^{plus} design)

Function level	Fieldbus	Unit performance	Size	Type of EBOX □ = Motor assignment	Type of ABOX
Classic	PROFIBUS	0.37 kW	1	MTF12A003-503-P10A-□	MTA12A-503-S021-00 MTA12A-503-S021-30 MTA12A-503-S021-33
		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-□	

21914796/EN – 09/2015

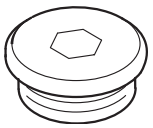
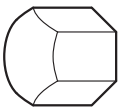
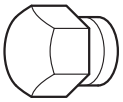
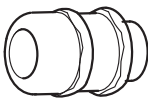
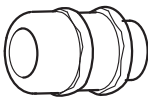
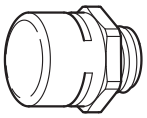
Function level	Fieldbus	Unit performance	Size	Type of EBOX □ = Motor assignment	Type of ABOX
Classic	DeviceNet™	0.37 kW	1	MTF12A003-503-D10A-□	MTA12A-503-S022-00 MTA12A-503-S022-30 MTA12A-503-S022-33
		0.55 kW		MTF12A005-503-D10A-□	
		0.75 kW		MTF12A007-503-D10A-□	
		1.1 kW		MTF12A011-503-D10A-□	
		1.5 kW		MTF12A015-503-D10A-□	
		2.2 kW	2	MTF12A022-503-D10A-□	
		3.0 kW		MTF12A030-503-D10A-□	
		4.0 kW		MTF12A040-503-D10A-□	
Classic	PROFINET	0.37 kW	1	MTF12A003-503-E20A-□	MTA12A-503-S023-00 MTA12A-503-S022-30 MTA12A-503-S022-33
		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 MTA12A-503-S021-30 MTA12A-503-S021-33
		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-□	
Technology	PROFINET	0.37 kW	1	MTF12A003-503-E21A-□	MTA12A-503-S023-00 MTA12A-503-S023-30 MTA12A-503-S023-33
		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-□	

21914796/EN – 09/2015

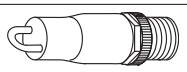
Function level	Fieldbus	Unit performance	Size	Type of EBOX □.. = Motor assignment	Type of ABOX
Technology	EtherNet/IP™ Modbus/TCP	0.37 kW	1	MTF12A003-503-E31A-□..	MTA12A-503-S023-00 MTA12A-503-S023-30 MTA12A-503-S023-33
		0.55 kW		MTF12A005-503-E31A-□..	
		0.75 kW		MTF12A007-503-E31A-□..	
		1.1 kW		MTF12A011-503-E31A-□..	
		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-□..	
SBus slave	Without	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-□..	

21914796/EN – 09/2015

Screw fittings/screw plug/pressure compensation

Type of screw fitting	Figure	Contents	Size	Part number
Stainless steel screw plugs		10 pieces	M16 x 1.5	18202233
		10 pieces	M20 x 1.5	18202241
		10 pieces	M25 x 1.5	18202268
M12 screw plug (made of stainless steel)		10 pieces	M12 x 1.0	18202799
M12 screw plug (made of stainless steel)		10 pieces	M12 x 1.0	18202276
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805
EMC cable gland (made of stainless steel)		10 pieces	M16 x 1.5	18216366
		10 pieces	M20 x 1.5	18216374
		10 pieces	M25 x 1.5	18216382
Pressure compensation screw fittings (made of stainless steel)		1 piece	M16 x 1.5	18204090
		1 piece	M20 x 1.5	18204325

Option

Option	Integrated in	Type
Integrated braking resistor For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with integrated BW.. braking resistor" (→ 🗎 358).	ABOX	MTF11A003... to MTF11A015...:**/BW1** (Part number 18207057)
		MTF11A003... to MTF11A040...: **/BW2** (Part number 18207545)
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

21914796/EN – 09/2015

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with brake and external braking resistor" (→ 🗎 360).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... to MTF11A015...	08282919	0813152X
BW200-005/K-1.5		08282838	-
BW150-006-T		17969565	-
BW100-003/K-1.5	MTF11A022... to MTF11A040...	08282935	0813152X
BW100-005/K-1.5		08282862	-
BW068-006-T		17970008	-
BW068-012-T		17970016	-

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
12 = DRS 460 V, 60 Hz
13 = DRE 460 V, 60 Hz
14 = DRS-DRE 380 V, 60 Hz
15 = DRS-DRE 50 – 60 Hz
16 = DRP 400 V, 50 Hz
17 = DRP 460 V, 60 Hz
18 = DRN 400 V, 50 Hz
19 = DRN 460 V, 60 Hz
20 = DRN 50 – 60 Hz

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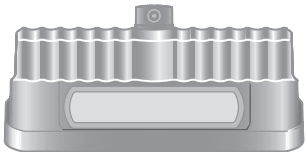
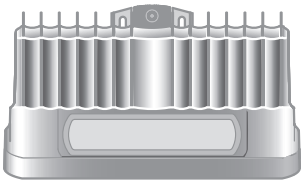
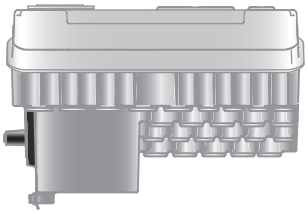
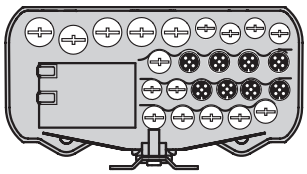
MOVIFIT® FC in connection with hybrid ABOX MTA...-S42.-...-..

	EBOX	ABOX
FC	**MTF...-...-00** Size 1  Size 2  MOVIFIT ® FC with integrated frequency inverter	 **MTA...-S42.-...-..**  Hybrid ABOX with M12 for I/Os

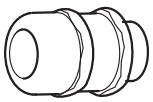
Function level	Fieldbus	Unit performance	Size	Type of EBOX □.. = Motor assignment	Type of ABOX
Classic	PROFIBUS	0.37 kW	1	MTF11A003-503-P10A-□..	MTA11A-503-S421-00 MTA11A-503-S421-30 MTA11A-503-S421-33
		0.55 kW		MTF11A005-503-P10A-□..	
		0.75 kW		MTF11A007-503-P10A-□..	
		1.1 kW		MTF11A011-503-P10A-□..	
		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-□..	
Classic	PROFINET	0.37 kW	1	MTF11A003-503-E20A-□..	MTA11A-503-S423-00 MTA11A-503-S423-30 MTA11A-503-S423-33
		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-□..	

21914796/EN – 09/2015

Function level	Fieldbus	Unit performance	Size	Type of EBOX □.. = Motor assignment	Type of ABOX
Technology	PROFIBUS	0.37 kW	1	MTF11A003-503-P11A-□..	MTA11A-503-S421-00 MTA11A-503-S421-30 MTA11A-503-S421-33
		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-□..	
Technology	PROFINET	0.37 kW	1	MTF11A003-503-E21A-□..	MTA11A-503-S423-00 MTA11A-503-S423-30 MTA11A-503-S423-33
		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-□..	
Technology	EtherNet/IP™ Modbus/TCP	0.37 kW	1	MTF11A003-503-E31A-□..	MTA11A-503-S423-00 MTA11A-503-S423-30 MTA11A-503-S423-33
		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	Without	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-□..	

21914796/EN – 09/2015

Screw fitting

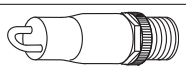
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M11**-00 (up to 4 A)[1)] MTA...-...-....-**M12**-00 (up to 9 A)[1)]

1) Only available in connection with UL

Option

Option	Integrated in	Type
Integrated braking resistor For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with integrated BW.. braking resistor" (→ 🗎 358).	ABOX	MTF11A003... to MTF11A015...:**/BW1** (Part number 18207057)
		MTF11A003... to MTF11A040...: **/BW2** (Part number 18207545)
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

21914796/EN – 09/2015

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with brake and external braking resistor" (→ 🗎 360).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... to MTF11A015...	08282919	0813152X
BW200-005/K-1.5		08282838	-
BW150-006-T		17969565	-
BW100-003/K-1.5	MTF11A022... to MTF11A040...	08282935	0813152X
BW100-005/K-1.5		08282862	-
BW068-006-T		17970008	-
BW068-012-T		17970016	-

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
12 = DRS 460 V, 60 Hz
13 = DRE 460 V, 60 Hz
14 = DRS-DRE 380 V, 60 Hz
15 = DRS-DRE 50 – 60 Hz
16 = DRP 400 V, 50 Hz
17 = DRP 460 V, 60 Hz
18 = DRN 400 V, 50 Hz
19 = DRN 460 V, 60 Hz
20 = DRN 50 – 60 Hz

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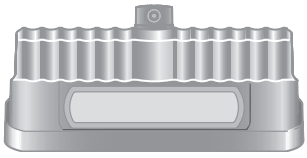
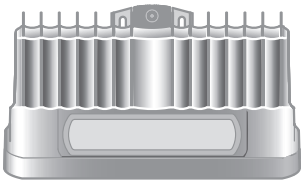
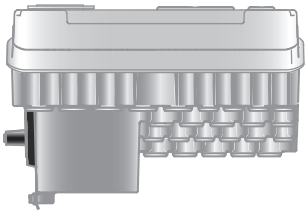
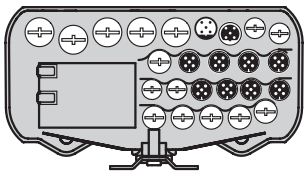
MOVIFIT® FC in connection with hybrid ABOX MTA...-S52.-...-..

	EBOX	ABOX
FC	**MTF...-...-00** Size 1  Size 2  MOVIFIT ® FC with integrated frequency inverter	 **MTA...-S52.-...-..**  Hybrid ABOX with M12 for I/Os and bus

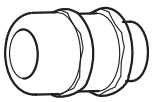
Function level	Fieldbus	Unit performance	Size	Type of EBOX □.. = Motor assignment	Type of ABOX
Classic	PROFIBUS	0.37 kW	1	MTF11A003-503-P10A-□..	MTA11A-503-S521-00 MTA11A-503-S521-30 MTA11A-503-S521-33
		0.55 kW		MTF11A005-503-P10A-□..	
		0.75 kW		MTF11A007-503-P10A-□..	
		1.1 kW		MTF11A011-503-P10A-□..	
		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-□..	
Classic	DeviceNet™	0.37 kW	1	MTF11A003-503-D10A-□..	MTA11A-503-S522-00 MTA11A-503-S522-30 MTA11A-503-S522-33
		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-□..	

21914796/EN – 09/2015

Function level	Fieldbus	Unit performance	Size	Type of EBOX □ = Motor assignment	Type of ABOX
Classic	PROFINET	0.37 kW	1	MTF11A003-503-E20A-□	MTA11A-503-S523-00 MTA11A-503-S523-30 MTA11A-503-S523-33
		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	PROFIBUS	0.37 kW	1	MTF11A003-503-P11A-□	MTA11A-503-S521-00 MTA11A-503-S521-30 MTA11A-503-S521-33
		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-□	
Technology	PROFINET	0.37 kW	1	MTF11A003-503-E21A-□	MTA11A-503-S523-00 MTA11A-503-S523-30 MTA11A-503-S523-33
		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-□	
Technology	EtherNet/IP™ Modbus/TCP	0.37 kW	1	MTF11A003-503-E31A-□	MTA11A-503-S523-00 MTA11A-503-S523-30 MTA11A-503-S523-33
		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-□	

21914796/EN – 09/2015

Screw fitting

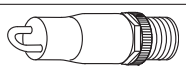
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M11**-00 (up to 4 A)[1)] MTA...-...-....-**M12**-00 (up to 9 A)[1)]

1) Only available in connection with UL

Option

Option	Integrated in	Type
Integrated braking resistor For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with integrated BW.. braking resistor" (→ 🗎 358).	ABOX	MTF11A003... to MTF11A015...:**/BW1** (Part number 18207057)
		MTF11A003... to MTF11A040...: **/BW2** (Part number 18207545)
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

21914796/EN – 09/2015

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with brake and external braking resistor" (→ 🗎 360).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... to MTF11A015...	08282919	0813152X
BW200-005/K-1.5		08282838	-
BW150-006-T		17969565	-
BW100-003/K-1.5	MTF11A022... to MTF11A040...	08282935	0813152X
BW100-005/K-1.5		08282862	-
BW068-006-T		17970008	-
BW068-012-T		17970016	-

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
12 = DRS 460 V, 60 Hz
13 = DRE 460 V, 60 Hz
14 = DRS-DRE 380 V, 60 Hz
15 = DRS-DRE 50 – 60 Hz
16 = DRP 400 V, 50 Hz
17 = DRP 460 V, 60 Hz
18 = DRN 400 V, 50 Hz
19 = DRN 460 V, 60 Hz
20 = DRN 50 – 60 Hz

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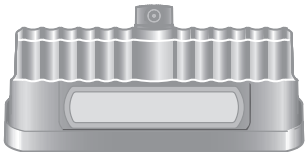
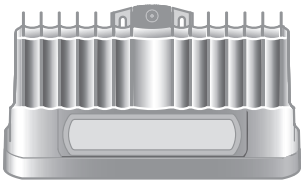
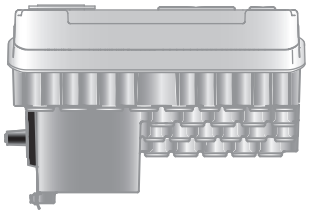
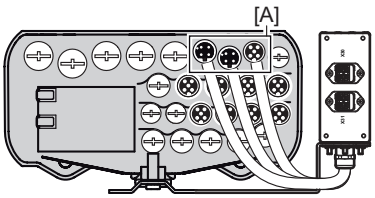
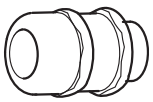
MOVIFIT® FC in connection with hybrid ABOX MTA...-S533.-...-00/L10 (POF)

	EBOX	ABOX
FC	**MTF...-...-00** Size 1  Size 2  MOVIFIT ® FC with integrated frequency inverter	
		MTA...-S533-...-00/L10  Hybrid ABOX with M12 for I/Os + bus, and 24 V output and L10 SCRJ/POF PROFINET option

Function level	Fieldbus	Unit performance	Size	Type of EBOX □ = Motor assignment	Type of ABOX
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-□	

21914796/EN – 09/2015

Screw fitting

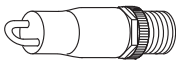
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M11**-00 (up to 4 A)[1)] MTA...-...-....-**M12**-00 (up to 9 A)[1)]

1) Only available in connection with UL

Option

Option	Integrated in	Type
Integrated braking resistor For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with integrated BW.. braking resistor" (→ 🗎 358).	ABOX	MTF11A003... to MTF11A015...:**/BW1** (Part number 18207057)
		MTF11A003... to MTF11A040...: **/BW2** (Part number 18207545)
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with brake and external braking resistor" (→ 🗎 360).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... to MTF11A015...	08282919	0813152X
BW200-005/K-1.5		08282838	-
BW150-006-T		17969565	-
BW100-003/K-1.5	MTF11A022... to MTF11A040...	08282935	0813152X
BW100-005/K-1.5		08282862	-
BW068-006-T		17970008	-
BW068-012-T		17970016	-

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
12 = DRS 460 V, 60 Hz
13 = DRE 460 V, 60 Hz
14 = DRS-DRE 380 V, 60 Hz
15 = DRS-DRE 50 – 60 Hz
16 = DRP 400 V, 50 Hz
17 = DRP 460 V, 60 Hz
18 = DRN 400 V, 50 Hz
19 = DRN 460 V, 60 Hz
20 = DRN 50 – 60 Hz

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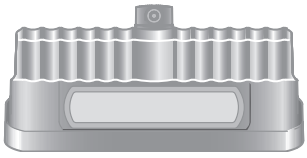
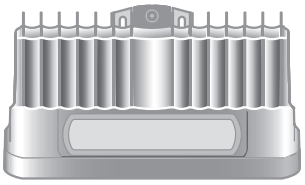
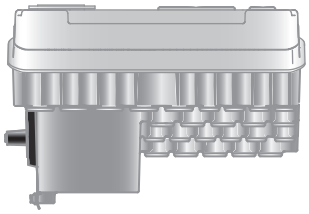
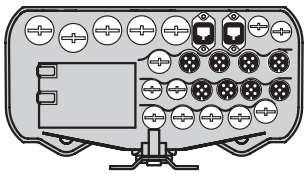
21914796/EN – 09/2015

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

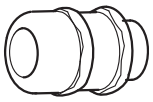
	EBOX	ABOX
FC	**MTF...-...-00** Size 1  Size 2  MOVIFIT ® FC with integrated frequency inverter	 **MTA...-S62.-...-..**  Hybrid ABOX with M12 for I/Os and push-pull RJ45

Function level	Fieldbus	Unit performance	Size	Type of EBOX □ = Motor assignment	Type of ABOX
Classic	PROFINET	0.37 kW	1	MTF11A003-503-E20A-□	MTA11A-503-S623-00 MTA11A-503-S623-30 MTA11A-503-S623-33
		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	0.37 kW	1	MTF11A003-503-E21A-□	MTA11A-503-S623-00 MTA11A-503-S623-30 MTA11A-503-S623-33
		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-□	

21914796/EN – 09/2015

Function level	Fieldbus	Unit performance	Size	Type of EBOX □.. = Motor assignment	Type of ABOX
Technology	EtherNet/IP™ Modbus/TCP	0.37 kW	1	MTF11A003-503-E31A-□..	MTA11A-503-S623-00 MTA11A-503-S623-30 MTA11A-503-S623-33
		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

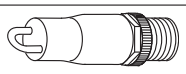
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M11**-00 (up to 4 A)[1)] MTA...-...-....-**M12**-00 (up to 9 A)[1)]

1) Only available in connection with UL

Option

Option	Integrated in	Type
Integrated braking resistor For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with integrated BW.. braking resistor" (→ 🗎 358).	ABOX	MTF11A003... to MTF11A015...:**/BW1** (Part number 18207057)
		MTF11A003... to MTF11A040...: **/BW2** (Part number 18207545)
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

21914796/EN – 09/2015

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with brake and external braking resistor" (→ 🗎 360).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... to MTF11A015...	08282919	0813152X
BW200-005/K-1.5		08282838	-
BW150-006-T		17969565	-
BW100-003/K-1.5	MTF11A022... to MTF11A040...	08282935	0813152X
BW100-005/K-1.5		08282862	-
BW068-006-T		17970008	-
BW068-012-T		17970016	-

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
12 = DRS 460 V, 60 Hz
13 = DRE 460 V, 60 Hz
14 = DRS-DRE 380 V, 60 Hz
15 = DRS-DRE 50 – 60 Hz
16 = DRP 400 V, 50 Hz
17 = DRP 460 V, 60 Hz
18 = DRN 400 V, 50 Hz
19 = DRN 460 V, 60 Hz
20 = DRN 50 – 60 Hz

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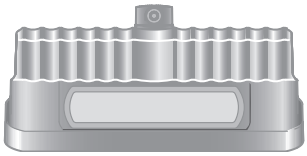
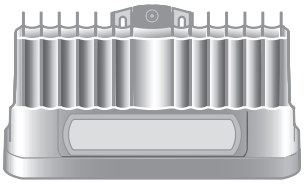
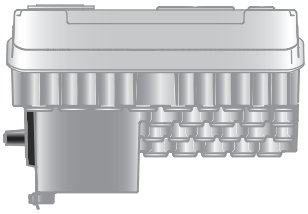
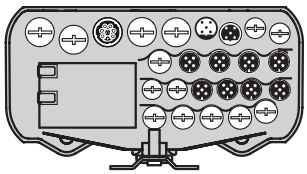
MOVIFIT® F in connection with hybrid ABOX MTA...-I55.-...-00

	EBOX	ABOX
FC	**MTF...-...-00** Size 1  Size 2  MOVIFIT ® FC with integrated frequency inverter	

MTA...-I55.-...-00



Hybrid ABOX with 1 circular connector (Intercontec) (downward motor output), and M12 for I/Os and bus

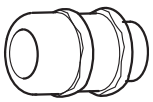
Function level	Fieldbus	Unit performance	Size	Type of EBOX □.. = Motor assignment	Type of ABOX
Classic	PROFIBUS	0.37 kW	1	MTF11A003-503-P10A-□..	MTA11A-503-I551-00
		0.55 kW		MTF11A005-503-P10A-□..	
		0.75 kW		MTF11A007-503-P10A-□..	
		1.1 kW		MTF11A011-503-P10A-□..	
		1.5 kW		MTF11A015-503-P10A-□..	
		2.2 kW	2	MTF11A022-503-P10A-□..	
		3.0 kW		MTF11A030-503-P10A-□..	
		4.0 kW		MTF11A040-503-P10A-□..	
Classic	DeviceNet™	0.37 kW	1	MTF11A003-503-D10A-□..	MTA11A-503-I552-00
		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-□..	

21914796/EN – 09/2015

Function level	Fieldbus	Unit performance	Size	Type of EBOX □.. = Motor assignment	Type of ABOX
Classic	PROFINET	0.37 kW	1	MTF11A003-503-E20A-□..	MTA11A-503-I553-00
		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	PROFIBUS	0.37 kW	1	MTF11A003-503-P11A-□..	MTA11A-503-I551-00
		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-□..	
Technology	PROFINET	0.37 kW	1	MTF11A003-503-E21A-□..	MTA11A-503-I553-00
		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-□..	
Technology	EtherNet/IP™ Modbus/TCP	0.37 kW	1	MTF11A003-503-E31A-□..	MTA11A-503-I553-00
		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-□..	

21914796/EN – 09/2015

Screw fitting

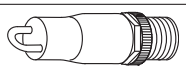
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M11**-00 (up to 4 A)[1)] MTA...-...-....-**M12**-00 (up to 9 A)[1)]

1) Only available in connection with UL

Option

Option	Integrated in	Type
Integrated braking resistor For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with integrated BW.. braking resistor" (→ 🗎 358).	ABOX	MTF11A003... to MTF11A015...:**/BW1** (Part number 18207057)
		MTF11A003... to MTF11A040...: **/BW2** (Part number 18207545)
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

21914796/EN – 09/2015

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with brake and external braking resistor" (→ 🗎 360).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... to MTF11A015...	08282919	0813152X
BW200-005/K-1.5		08282838	-
BW150-006-T		17969565	-
BW100-003/K-1.5	MTF11A022... to MTF11A040...	08282935	0813152X
BW100-005/K-1.5		08282862	-
BW068-006-T		17970008	-
BW068-012-T		17970016	-

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
12 = DRS 460 V, 60 Hz
13 = DRE 460 V, 60 Hz
14 = DRS-DRE 380 V, 60 Hz
15 = DRS-DRE 50 – 60 Hz
16 = DRP 400 V, 50 Hz
17 = DRP 460 V, 60 Hz
18 = DRN 400 V, 50 Hz
19 = DRN 460 V, 60 Hz
20 = DRN 50 – 60 Hz

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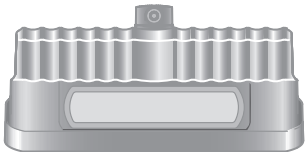
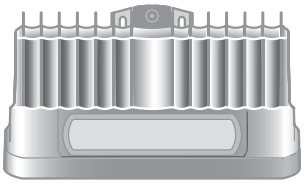
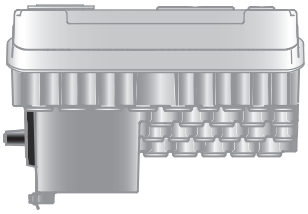
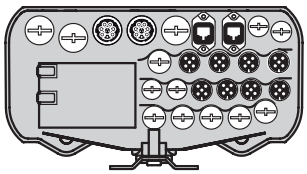
MOVIFIT® FC in connection with hybrid ABOX MTA...-I62.-...-..

	EBOX	ABOX
FC	**MTF...-...-00** Size 1  Size 2  MOVIFIT ® FC with integrated frequency inverter	

MTA...-I62.-...-..



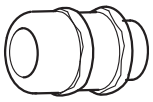
Hybrid ABOX with 2 circular connectors (Intercontec) (downward motor output), M12 for I/Os, push-pull RJ45 for bus

Function level	Fieldbus	Unit performance	Size	Type of EBOX □.. = Motor assignment	Type of ABOX
Classic	PROFINET	0.37 kW	1	MTF11A003-503-E20A-□..	MTA11A-503-I623-30 MTA11A-503-I623-33
		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	0.37 kW	1	MTF11A003-503-E21A-□..	MTA11A-503-I623-30 MTA11A-503-I623-33
		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-□..	

21914796/EN – 09/2015

Function level	Fieldbus	Unit performance	Size	Type of EBOX □ = Motor assignment	Type of ABOX
Technology	EtherNet/IP™ Modbus/TCP	0.37 kW	1	MTF11A003-503-E31A-□	MTA11A-503-I623-30 MTA11A-503-I623-33
		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

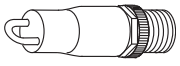
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M11**-00 (up to 4 A)[1)] MTA...-...-....-**M12**-00 (up to 9 A)[1)]

1) Only available in connection with UL

Option

Option	Integrated in	Type
Integrated braking resistor For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with integrated BW.. braking resistor" (→ 🗎 358).	ABOX	MTF11A003... to MTF11A015...:**/BW1** (Part number 18207057)
		MTF11A003... to MTF11A040...: **/BW2** (Part number 18207545)
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

21914796/EN – 09/2015

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with brake and external braking resistor" (→ 🗎 360).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... to MTF11A015...	08282919	0813152X
BW200-005/K-1.5		08282838	-
BW150-006-T		17969565	-
BW100-003/K-1.5	MTF11A022... to MTF11A040...	08282935	0813152X
BW100-005/K-1.5		08282862	-
BW068-006-T		17970008	-
BW068-012-T		17970016	-

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
12 = DRS 460 V, 60 Hz
13 = DRE 460 V, 60 Hz
14 = DRS-DRE 380 V, 60 Hz
15 = DRS-DRE 50 – 60 Hz
16 = DRP 400 V, 50 Hz
17 = DRP 460 V, 60 Hz
18 = DRN 400 V, 50 Hz
19 = DRN 460 V, 60 Hz
20 = DRN 50 – 60 Hz

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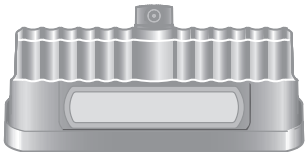
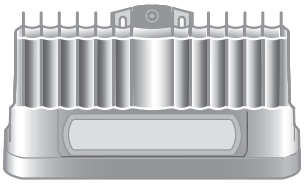
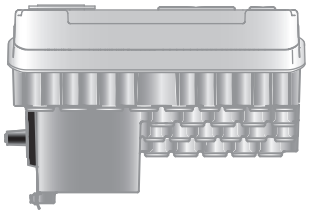
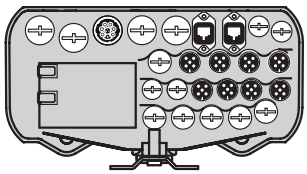
21914796/EN – 09/2015

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

	EBOX	ABOX
FC	**MTF...-...-00** Size 1  Size 2  MOVIFIT ® FC with integrated frequency inverter	

MTA...-I65.-...-00



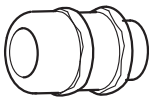
Hybrid ABOX with 1 circular connector (Intercontec) (downward motor output), and M12 for I/Os and push-pull RJ45 for bus

Function level	Fieldbus	Unit performance	Size	Type of EBOX □.. = Motor assignment	Type of ABOX
Classic	PROFINET	0.37 kW	1	MTF11A003-503-E20A-□..	MTA11A-503-I653-00
		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	0.37 kW	1	MTF11A003-503-E21A-□..	MTA11A-503-I653-00
		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-□..	

21914796/EN – 09/2015

Function level	Fieldbus	Unit performance	Size	Type of EBOX ☐.. = Motor assignment	Type of ABOX
Technology	EtherNet/IP™ Modbus/TCP	0.37 kW	1	MTF11A003-503-E31A-☐..	MTA11A-503-I653-00
		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

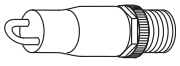
Screw fitting	Figure	Contents	Size	Part number
EMC cable gland (brass, nickel-plated)		10 pieces	M16 x 1.5	18204783
		10 pieces	M20 x 1.5	18204791
		10 pieces	M25 x 1.5	18204805

Maintenance switch

Maintenance switch (optional)	Integrated in	Type
Switch disconnector	ABOX	MTA...-...-....-**D01**-00
Switch disconnector and line protection		MTA...-...-....-**M11**-00 (up to 4 A)[1)] MTA...-...-....-**M12**-00 (up to 9 A)[1)]

1) Only available in connection with UL

Option

Option	Integrated in	Type
Integrated braking resistor For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with integrated BW.. braking resistor" (→ 🗎 358).	ABOX	MTF11A003... to MTF11A015...:**/BW1** (Part number 18207057)
		MTF11A003... to MTF11A040...: **/BW2** (Part number 18207545)
S12A safety option	EBOX	**/S12A**
S12B safety option		**/S12B**
STO pluggable (M12)	ABOX	**/00S**, **/M1S** or **/M2S**
STO jumper plug	Included in the delivery, order optional	Part number: 11747099 

21914796/EN – 09/2015

External braking resistors

The following table shows the assignments of external braking resistors to MOVIFIT®. For the regenerative current-carrying capacity of the braking resistors, refer to chapter "4Q operation with brake and external braking resistor" (→ 🗎 360).

Braking resistor	MOVIFIT® type	Part number	Protective grid
BW200-003/K-1.5	MTF11A003... to MTF11A015...	08282919	0813152X
BW200-005/K-1.5		08282838	-
BW150-006-T		17969565	-
BW100-003/K-1.5	MTF11A022... to MTF11A040...	08282935	0813152X
BW100-005/K-1.5		08282862	-
BW068-006-T		17970008	-
BW068-012-T		17970016	-

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
12 = DRS 460 V, 60 Hz
13 = DRE 460 V, 60 Hz
14 = DRS-DRE 380 V, 60 Hz
15 = DRS-DRE 50 – 60 Hz
16 = DRP 400 V, 50 Hz
17 = DRP 460 V, 60 Hz
18 = DRN 400 V, 50 Hz
19 = DRN 460 V, 60 Hz
20 = DRN 50 – 60 Hz

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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:

Key features	Requirements for the assigned AC motor
Permitted motors and brakes	All motors and brakes listed in chapter "Assignment of MOVIFIT® FC to SEW-EURODRIVE AC motor" (→ 🗎 207) are approved.
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 further information, refer to chapter "Hybrid cables for connecting MOVIFIT® FC and motors""" (→ 🗎 212).
Permitted motor protection	• TH thermostat (bimetallic switch) • TF temperature sensor (PTC thermistor or PTC resistor)
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 chapter "Connection options for encoders" (→ 🗎 146).

21914796/EN – 09/2015

Assignment of MOVIFIT® FC to SEW-EURODRIVE AC motor

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 current-carrying capacity of the brake coils, refer to chapter "4Q operation with motors with mechanical brake" (→ 🗎 359).
- The expanded parameterization in Expert mode via fieldbus or diagnostic interface allows for additional motor/brake combinations. For additional information, refer to the manual "MOVIFIT® Function Level Classic..." or "MOVIFIT® Function Level Technology...".

MTF..-10 and MTF..-12

DRS	V = AC 3 x 400 V, 50 Hz or AC 3 x 460 V, 60 Hz											
MOVIFIT®	Assigned motor and brake[1]											
	S10/5 = OFF						S10/5 = ON					
	⅄ connection			△ connection			⅄ connection			△ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..-10 MTF..003..-12	DRS71S4	BE05	BE1	DR63L4	BR03	-	DR63L4	BR03	-	-	-	-
MTF..005..-10 MTF..005..-12	DRS71M4	BE1	BE05	DRS71S4	BE05	BE1	DRS71S4	BE05	BE1	DR63L4	BR03	-
MTF..007..-10 MTF..007..-12	DRS80S4	BE1	BE05	DRS71M4	BE1	BE05	DRS71M4	BE1	BE05	DRS71S4	BE05	BE1
MTF..011..-10 MTF..011..-12	DRS80M4	BE2	BE1	DRS80S4	BE1	BE05	DRS80S4	BE1	BE05	DRS71M4	BE1	BE05
MTF..015..-10 MTF..015..-12	DRS90M4	BE2	BE1	DRS80M4	BE2	BE1	DRS80M4	BE2	BE1	DRS80S4	BE1	BE05
MTF..022..-10 MTF..022..-12	DRS90L4	BE5	BE2	DRS90M4	BE2	BE1	DRS90M4	BE2	BE1	DRS80M4	BE2	BE1
MTF..030..-10 MTF..030..-12	DRS100M4	BE5	BE2	DRS90L4	BE5	BE2	DRS90L4	BE5	BE2	DRS90M4	BE2	BE1
MTF..040..-10 MTF..040..-12	DRS100LC4	BE5	BE2	DRS100M4	BE5	BE2	DRS100M4	BE5	BE2	DRS90L4	BE5	BE2

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

21914796/EN – 09/2015

MTF..-11 and MTF..-13

DRE	V = AC 3 x 400 V, 50 Hz or AC 3 x 460 V, 60 Hz											
MOVIFIT®	Assigned motor and brake[1]											
	S10/5 = OFF						S10/5 = ON					
	⅄ connection			△ connection			⅄ connection			△ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..-11 MTF..003..-13	DRE80S4 0.37 kW	BE05	BE1	DRE80S4 0.25 kW	BE05	BE1	DRE80S4 0.25 kW	BE05	BE1	-	-	-
MTF..005..-11 MTF..005..-13	DRE80M4 0.55 kW	BE1	BE05	DRE80S4 0.37 kW	BE05	BE1	DRE80S4 0.37 kW	BE05	BE1	DRE80S4 0.25 kW	BE05	BE1
MTF..007..-11 MTF..007..-13	DRE80M4 0.75 kW	BE1	BE05	DRE80M4 0.55 kW	BE1	BE05	DRE80M4 0.55 kW	BE1	BE05	DRE80S4 0.37 kW	BE5	BE1
MTF..011..-11 MTF..011..-13	DRE90M4	BE2	BE1	DRE80M4 0.75 kW	BE1	BE05	DRE80M4 0.75 kW	BE1	BE05	DRE80M4 0.55 kW	BE1	BE05
MTF..015..-11 MTF..015..-13	DRE90L4	BE2	BE1	DRE90M4	BE2	BE1	DRE90M4	BE2	BE1	DRE80M4 0.75 kW	BE1	BE05
MTF..022..-11 MTF..022..-13	DRE100M4	BE5	BE2	DRE90L4	BE2	BE1	DRE90L4	BE2	BE1	DRE90M4	BE2	BE1
MTF..030..-11 MTF..030..-13	DRE100LC4	BE5	BE2	DRE100M4	BE5	BE2	DRE100M4	BE5	BE2	DRE90L4	BE2	BE1
MTF..040..-11 MTF..040..-13	DRE132S4	BE5	BE11	DRE100LC4	BE5	BE2	DRE100LC4	BE5	BE2	DRE10M4	BE5	BE2

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

MTF..-14

DRS – DRE	V = AC 3 x 380 V, 60 Hz											
MOVIFIT®	Assigned motor and brake[1]											
	S10/5 = OFF						S10/5 = ON					
	⅄ connection			△ connection			⅄ connection			△ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..-14	DRS71S4	BE05	BE1	-	-	-	-	-	-	-	-	-
MTF..005..-14	DRS71M4	BE1	BE05	DRS71S4	BE05	BE1	DRS71S4	BE05	BE1	-	-	-
MTF..007..-14	DRE80S4	BE1	BE05	DRS71M4	BE1	BE05	DRS71M4	BE1	BE05	DRS71S4	BE05	BE1
MTF..011..-14	DRE80M4	BE2	BE1	DRE80S4	BE1	BE05	DRE80S4	BE1	BE05	DRS71M4	BE1	BE05
MTF..015..-14	DRE90M4	BE2	BE1	DRE80M4	BE2	BE1	DRE80M4	BE2	BE1	DRE80S4	BE1	BE05
MTF..022..-14	DRE90L4	BE5	BE2	DRE90M4	BE2	BE1	DRE90M4	BE2	BE1	DRE80M4	BE2	BE1
MTF..030..-14	DRE100M4	BE5	BE2	DRE90L4	BE5	BE2	DRE90L4	BE5	BE2	DRE90M4	BE2	BE1
MTF..040..-14	DRE100L4	BE5	BE2	DRE100M4	BE5	BE2	DRE100M4	BE5	BE2	DRE90L4	BE5	BE2

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

21914796/EN – 09/2015

MTF..-15

DRS – DRE	V = AC 3 x 400 V, 50 Hz or AC 3 x 460 V, 60 Hz											
MOVIFIT®	Assigned motor and brake[1]											
	S10/5 = OFF						S10/5 = ON					
	⅄ connection			△ connection			⅄ connection			△ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..-15	DRS71S4	BE05	BE1	DR63L4[2]	BR03	BR03	DR63L4[2]	BR03	BR03	-	-	-
MTF..005..-15	DRS71M4	BE1	BE05	DRS71S4	BE05	BE1	DRS71S4	BE05	BE1	DR63L4[2]	BR03	BR03
MTF..007..-15	DRE80M4	BE1	BE05	DRS71M4	BE1	BE05	DRS71M4	BE1	BE05	DRS71S4	BE05	BE1
MTF..011..-15	DRE90M4	BE2	BE1	DRE80M4	BE1	BE05	DRE80M4	BE1	BE05	DRS71M4	BE1	BE05
MTF..015..-15	DRE90L4	BE2	BE1	DRE90M4	BE2	BE1	DRE90M4	BE2	BE1	DRE80M4	BE1	BE05
MTF..022..-15	DRE100L4	BE5	BE2	DRE90L4	BE2	BE1	DRE90L4	BE2	BE1	DRE90M4	BE2	BE1
MTF..030..-15	DRE100LC4	BE5	BE2	DRE100 L4	BE5	BE2	DRE100 L4	BE5	BE2	DRE90 L4	BE2	BE1
MTF..040..-15	DRE132S4	BE5	BE11	DRE100LC4	BE5	BE2	DRE100LC4	BE5	BE2	DRE100L4	BE5	BE2

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

2) This motor is included in the data set.The motor is only available as IEC motor with V = 3 x 400 V, 50 Hz (no motor with 50/60 Hz voltage range).

MTF..-16

DRP	V = AC 3 x 400 V, 50 Hz											
MOVIFIT®	Assigned motor and brake[1]											
	S10/5 = OFF						S10/5 = ON					
	⅄ connection			△ connection			⅄ connection			△ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..-16	-	-	-	-	-	-	-	-	-	-	-	-
MTF..005..-16	-	-	-	-	-	-	-	-	-	-	-	-
MTF..007..-16	DRP90M4	BE1	BE2	-	-	-	-	-	-	-	-	-
MTF..011..-16	DRP90L4	BE2	BE1	DRP90M4	BE1	BE2	DRP90M4	BE1	BE2	-	-	-
MTF..015..-16	DRP100M4	BE2	BE5	DRP90L4	BE2	BE1	DRP90L4	BE2	BE1	DRP90M4	BE1	BE2
MTF..022..-16	DRP100L4	BE5	BE2	DRP100M4	BE2	BE5	DRP100M4	BE2	BE5	DRP90L4	BE2	BE1
MTF..030..-16	DRP112M4	BE5	BE11	DRP100L4	BE5	BE2	DRP100L4	BE5	BE2	DRP100M4	BE2	BE5
MTF..040..-16	DRP132M4	BE5	BE11	DRP112M4	BE5	BE11	DRP112M4	BE5	BE11	DRP100L4	BE5	BE2

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

21914796/EN – 09/2015

MTF..-17

DRP	V = AC 3 x 460 V, 60 Hz											
MOVIFIT®	Assigned motor and brake[1]											
	S10/5 = OFF						S10/5 = ON					
	⅄ connection			△ connection			⅄ connection			△ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..-17	-	-	-	-	-	-	-	-	-	-	-	-
MTF..005..-17	-	-	-	-	-	-	-	-	-	-	-	-
MTF..007..-17	DRP90M4	BE1	BE2	-	-	-	-	-	-	-	-	-
MTF..011..-17	DRP90L4 1.1 kW	BE2	BE1	DRP90M4	BE1	BE2	DRP90M4	BE1	BE2	-	-	-
MTF..015..-17	DRP90L4 1.5 kW	BE2	BE1	DRP90L4 1.1 kW	BE2	BE1	DRP90L4 1.1 kW	BE2	BE1	DRP90M4	BE1	BE2
MTF..022..-17	DRP112M4	BE5	BE11	DRP90L4 1.5 kW	BE2	BE1	DRP90L4 1.5 kW	BE2	BE1	DRP90L4 1.1 kW	BE2	BE1
MTF..030..-17	DRP132S4	BE5	BE11	DRP112M4	BE5	BE11	DRP112M4	BE5	BE11	DRP90L4 1.5 kW	BE2	BE1
MTF..040..-17	-	-	-	-	-	-	DRP132S4	BE5	BE11	DRP112M4	BE5	BE11

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

MTF..-18

DRN	V = AC 3 x 400 V, 50 Hz											
MOVIFIT®	Assigned motor and brake[1]											
	S10/5 = OFF						S10/5 = ON					
	⅄ connection			△ connection			⅄ connection			△ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..-18	-	-	-	-	-	-	-	-	-	-	-	-
MTF..005..-18	-	-	-	-	-	-	-	-	-	-	-	-
MTF..007..-18	DRN80M4	BE1	BE05	-	-	-	-	-	-	-	-	-
MTF..011..-18	DRN90S4	BE2	BE1	DRN80M4	BE1	BE05	DRN80M4	BE1	BE05	-	-	-
MTF..015..-18	DRN90L4	BE2	BE1	DRN90S4	BE2	BE1	DRN90S4	BE2	BE1	DRN80M4	BE1	BE05
MTF..022..-18	DRN100LS4	BE5	BE2	DRN90L4	BE2	BE1	DRN90L4	BE2	BE1	DRN90S4	BE2	BE1
MTF..030..-18	DRN100L4	BE5	BE2	DRN100LS4	BE5	BE2	DRN100LS4	BE5	BE2	DRN90L4	BE2	BE1
MTF..040..-18	DRN112M4	BE5	BE11	DRN100L4	BE5	BE2	DRN100L4	BE5	BE2	DRN100LS4	BE5	BE2

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

21914796/EN – 09/2015

MTF..-19

DRN	V = AC 3 x 460 V, 60 Hz											
MOVIFIT®	Assigned motor and brake[1]											
	S10/5 = OFF						S10/5 = ON					
	⅄ connection			△ connection			⅄ connection			△ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..-19	-	-	-	-	-	-	-	-	-	-	-	-
MTF..005..-19	-	-	-	-	-	-	-	-	-	-	-	-
MTF..007..-19	DRN80M4	BE1	BE05	-	-	-	-	-	-	-	-	-
MTF..011..-19	DRN90S4	BE2	BE1	DRN80M4	BE1	BE05	DRN80M4	BE1	BE05	-	-	-
MTF..015..-19	DRN90L4	BE2	BE1	DRN90S4	BE2	BE1	DRN90S4	BE2	BE1	DRN80M4	BE1	BE05
MTF..022..-19	DRN100L4 2.2 kW	BE5	BE2	DRN90L4	BE2	BE1	DRN90L4	BE2	BE1	DRN90S4	BE2	BE1
MTF..030..-19	DRN100L4 3.7 kW	BE5	BE2	DRN100L4 2.2 kW	BE5	BE2	DRN100L4 2.2 kW	BE5	BE2	DRN90 L4	BE2	BE1
MTF..040..-19	DRN112M4	BE5	BE11	DRN100L4 3.7 kW	BE5	BE2	DRN100L4 3.7 kW	BE5	BE2	DRN100L4 2.2 kW	BE5	BE2

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

MTF..-20

DRN	V = AC 3 x 400 V, 50 Hz or AC 3 x 460 V, 60 Hz											
MOVIFIT®	Assigned motor and brake[1]											
	S10/5 = OFF						S10/5 = ON					
	⅄ connection			△ connection			⅄ connection			△ connection		
	Motor	Brake		Motor	Brake		Motor	Brake		Motor	Brake	
		Standard	Option		Standard	Option		Standard	Option		Standard	Option
MTF..003..-20	DRS71S4	BE05	BE1	DR63L4[2]	BR03	BR03	DR63L4[2]	BR03	BR03	-	-	-
MTF..005..-20	DRS71M4	BE1	BE05	DRS71S4	BE05	BE1	DRS71S4	BE05	BE1	DR63L4[2]	BR03	BR03
MTF..007..-20	DRN80M4	BE1	BE05	DRS71M4	BE1	BE05	DRS71M4	BE1	BE05	DRS71S4	BE05	BE1
MTF..011..-20	DRN90S4	BE2	BE1	DRN80M4	BE1	BE05	DRN80M4	BE1	BE05	DRS71M4	BE1	BE05
MTF..015..-20	DRN90L4	BE2	BE1	DRN90S4	BE2	BE1	DRN90S4	BE2	BE1	DRN80M4	BE1	BE05
MTF..022..-20	DRN100L4 2.2 kW	BE5	BE2	DRN90L4	BE2	BE1	DRN90L4	BE2	BE1	DRN90S4	BE2	BE1
MTF..030..-20	DRN100L4 3.0 kW	BE5	BE2	DRN100L4 2.2 kW	BE5	BE2	DRN100L4 2.2 kW	BE5	BE2	DRN90L4	BE2	BE1
MTF..040..-20	DRN112M4	BE5	BE11	DRN100L4 3.0 kW	BE5	BE2	DRN100L4 3.0 kW	BE5	BE2	DRN100L4 2.2 kW	BE5	BE2

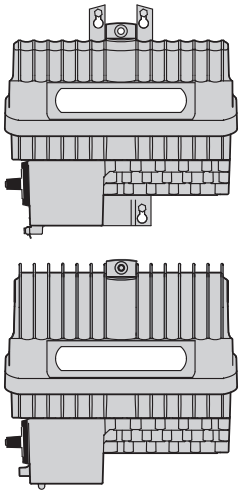
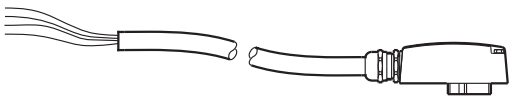
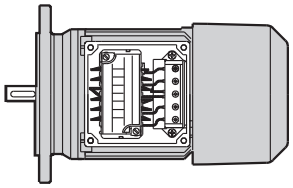
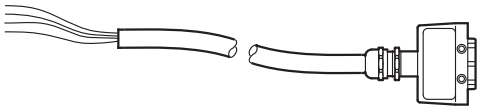
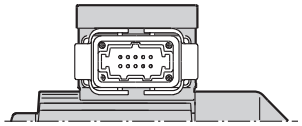
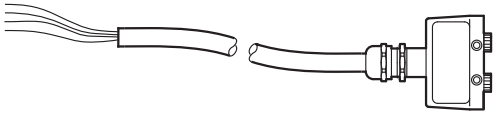
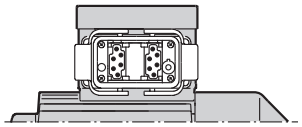
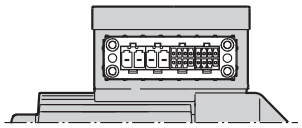
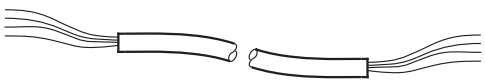
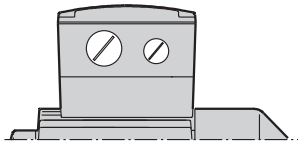
1) Possible brake voltages: 120 V, 230 V, 400 V
2) This motor is included in the data set.The motor is only available as IEC motor with V = 3 x 400 V, 50 Hz (no motor with 50/60 Hz voltage range).

21914796/EN – 09/2015

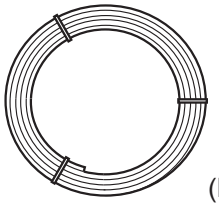
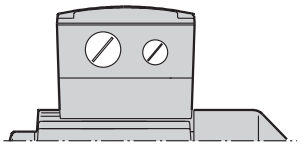
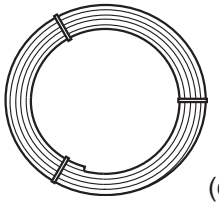
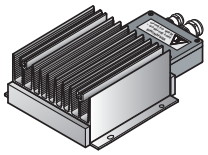
4.11.6 Hybrid cables for connecting MOVIFIT® FC and motors

Overview

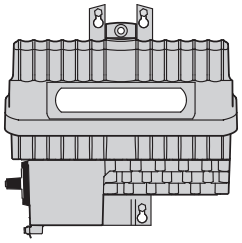
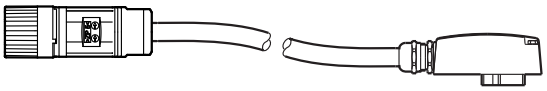
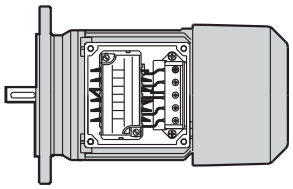
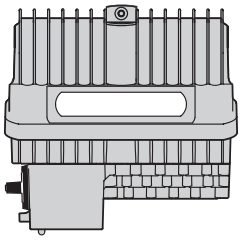
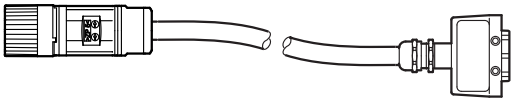
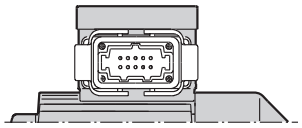
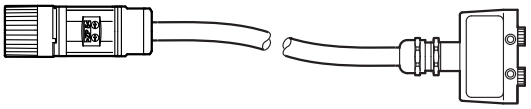
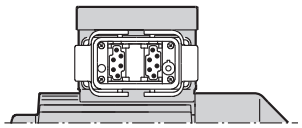
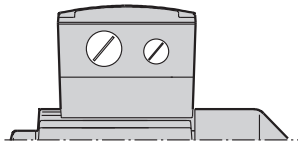
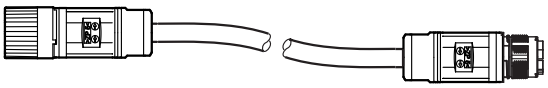
Hybrid cables are available for connecting MOVIFIT® FC and motor:

MOVIFIT® FC	Connection cable	Length Type	Drive
Standard ABOX: MTA...-S02.-...-00 **Hybrid ABOX:** MTA...-S42.-...-00 MTA...-S52.-...-00 MTA...-S53.-...-00 MTA...-S62.-...-00 	Part number DR63/DT71 – DR90 (⅄): 08199671 Part number DR63/DT71 – DR90 (△): 08199698 Part number DV100, DV112 DR.71-132 (⅄): 08199701 Part number DV100, DV112 DR.71-132 (△): 08198748 	variable Type A	Motor with ISU4 plug connector 
	Part number: 08199728 	variable Type A	Motor with ASB4 plug connector 
	Part number: 08198756 	variable Type A	Motor with AMB4 plug connector 
	Part number: 08199736 	variable Type A	Motor with APG4 plug connector 
	Part no.: DR.71 – 100 (M4 ring cable lug): 08199752 Part no.: DR.112 – 132 (M5 ring cable lug): 18143199 	variable Type A	Motor with cable glands 

21914796/EN – 09/2015

MOVIFIT® FC	Connection cable	Length Type	Drive
	Part number: 08179530/30 m Part number: 08179530/100 m  (Hybrid cable roll)	30 m 100 m Type A	Motor with cable glands 
	Part number: 13230409  (cable roll)	30 m	External braking resistor 

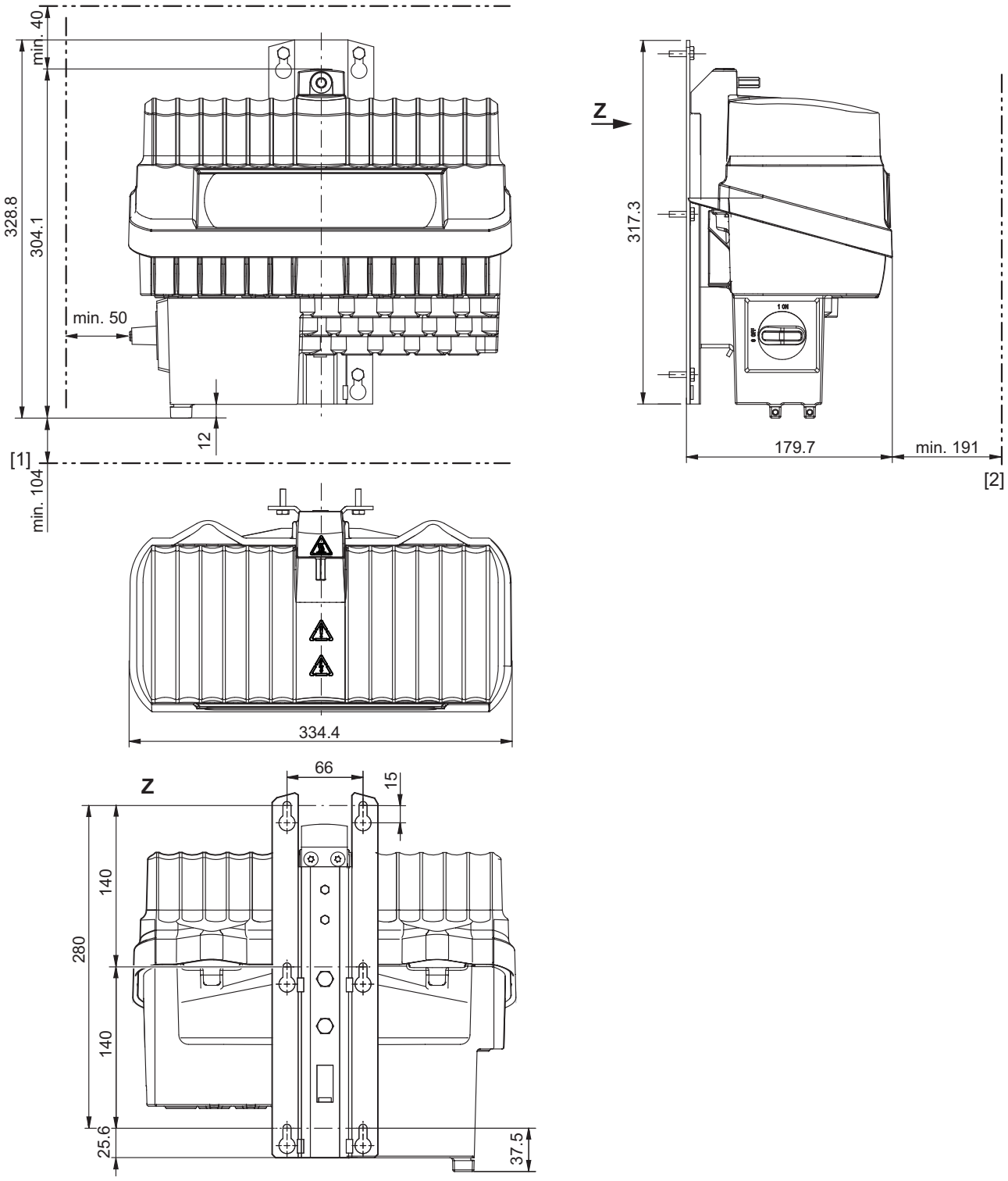
21914796/EN – 09/2015

MOVIFIT® FC	Connection cable	Length Type	Drive
Hybrid ABOX: MTA...-I55.-...-00 MTA...-I65.-...-00 	Part number DR63 (⅄): 18138411 Part number DR63 (△): 18138438 Part number DR.71 – 132 (⅄): 18138330 Part number DR.71 – 132 (△): 18138365 	variable Type A	Motor with ISU4 plug connector 
	Part number: 18142257 	variable Type A	Motor with ASB4 plug connector 
	Part number: 18142249 	variable Type A	Motor with AMB4 plug connector 
	Part no.: DR.71 – 100 (M4 ring cable lug): 18141870 Part no.: DR.112 – 132 (M5 ring cable lug): 18142230 	variable Type A	Motor with cable glands 
	Part number: 18141056 (= extension cable) 	variable Type A	Hybrid cable

21914796/EN – 09/2015

4.12 Dimension drawings

4.12.1 MOVIFIT® size 1 with standard mounting rail

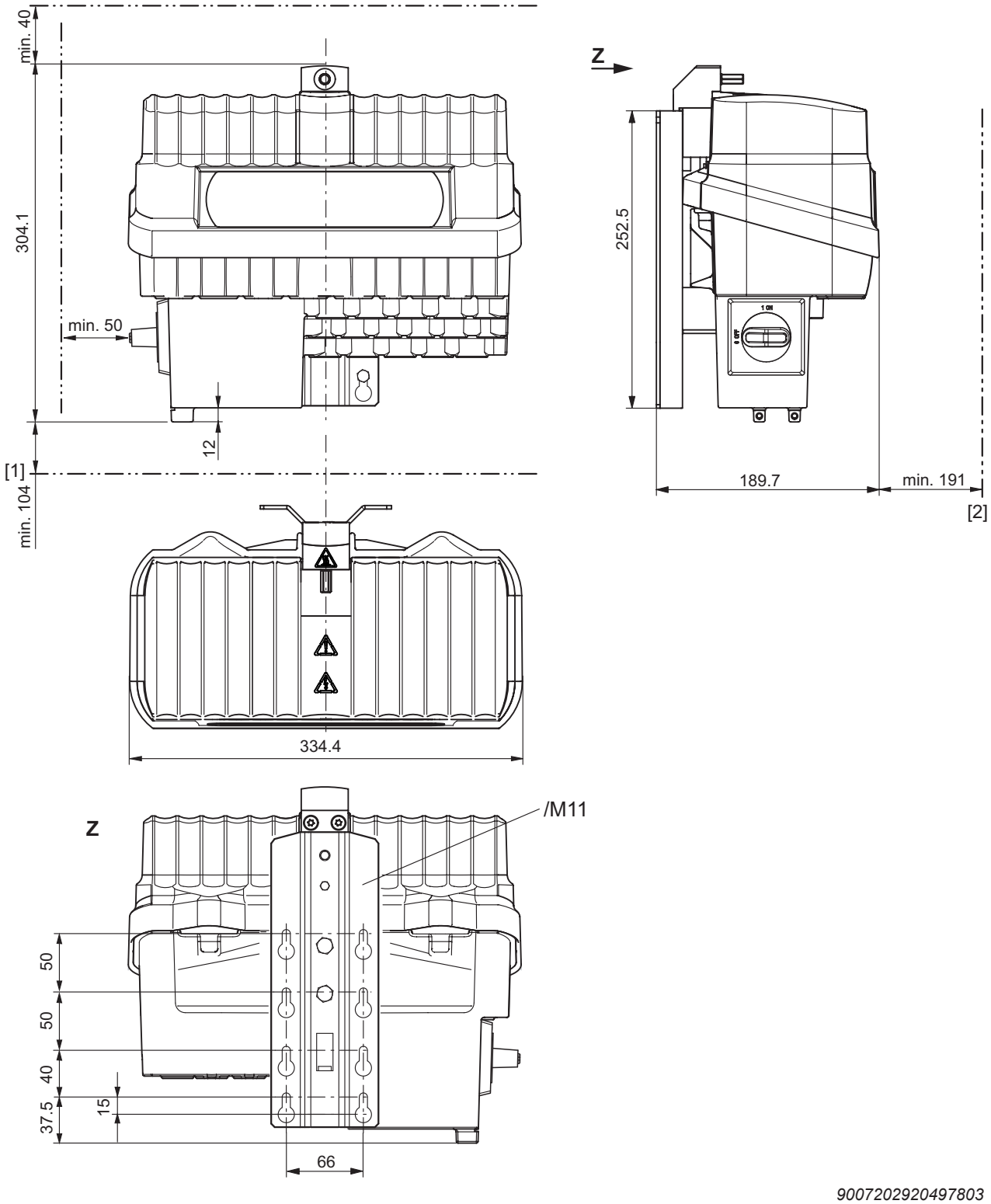


27021598603385995

[1] The clearance of 104 mm below is only necessary for ABOXes with circular connector (Intercontec) motor output pointing downward.

[2] The clearance of 191 mm at the front is only necessary for ABOXes with circular connector (Intercontec) motor output at the front.

4.12.2 MOVIFIT® size 1 with optional stainless steel mounting rail /M11



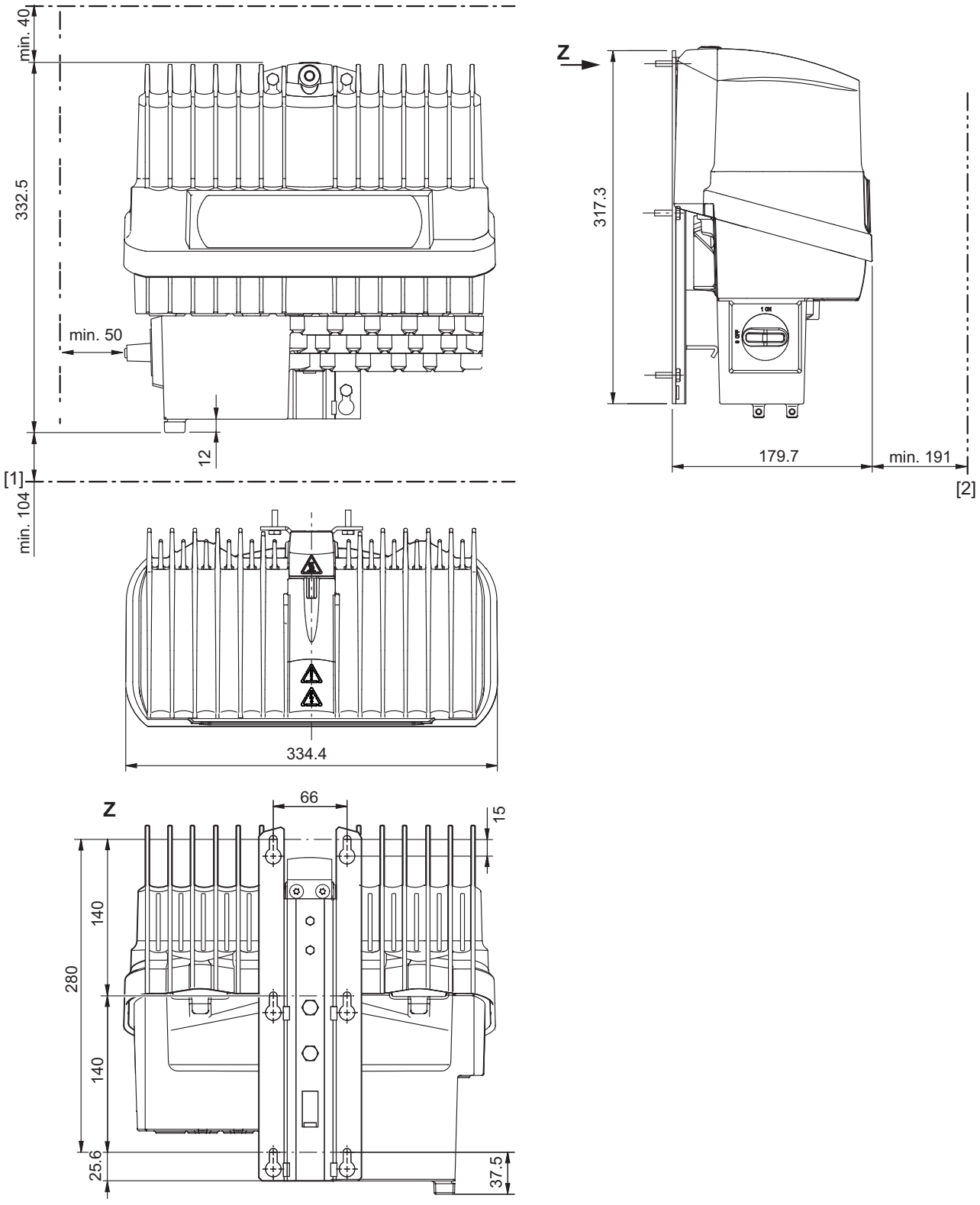
9007202920497803

[1] The clearance of 104 mm below is only necessary for ABOXes with circular connector (Intercontec) motor output pointing downward.

[2] The clearance of 191 mm at the front is only necessary for ABOXes with circular connector (Intercontec) motor output at the front.

21914796/EN – 09/2015

4.12.3 MOVIFIT® size 2 with standard mounting rail

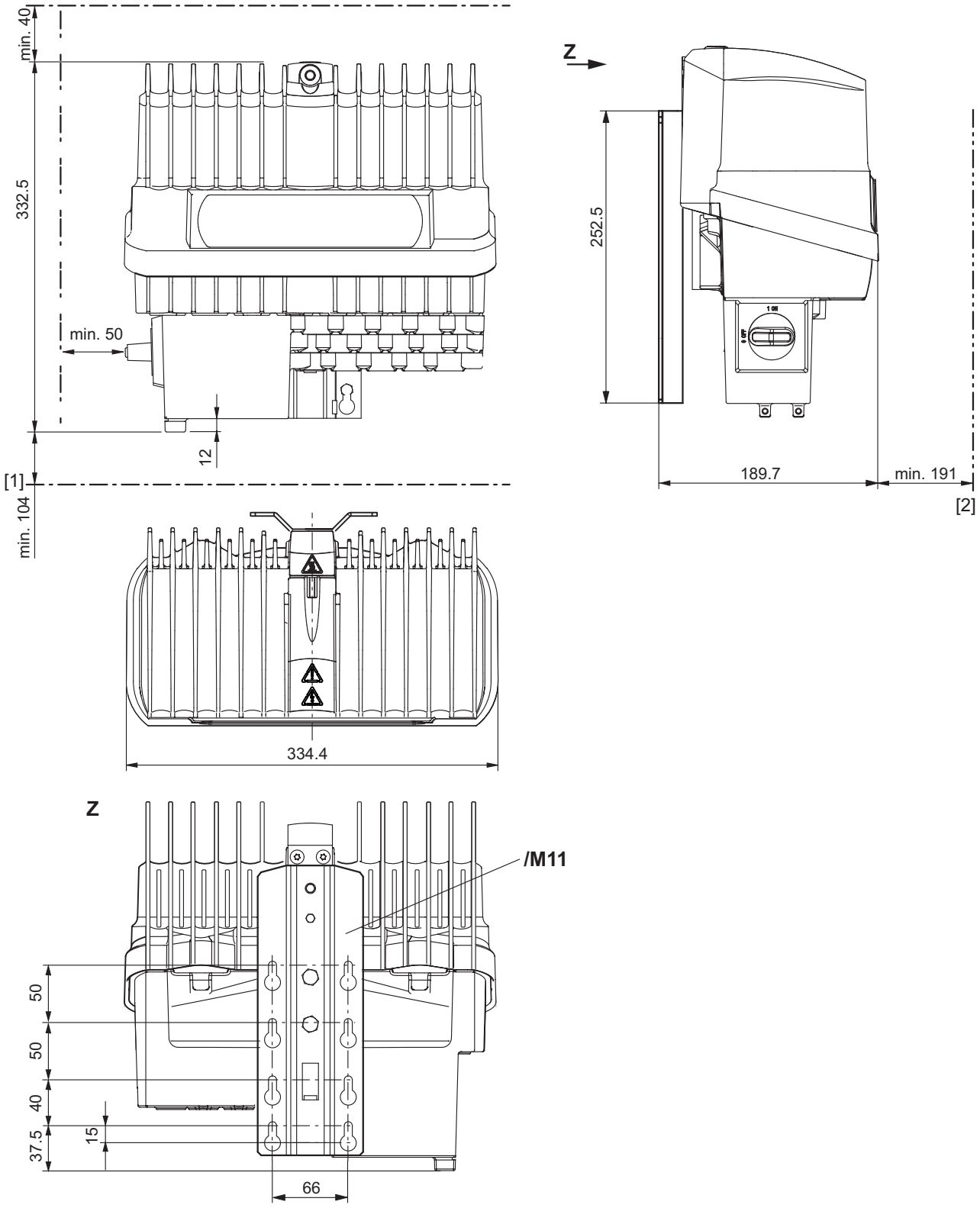


27021598603390347

[1] The clearance of 104 mm below is only necessary for ABOXes with circular connector (Intercontec) motor output pointing downward.

[2] The clearance of 191 mm at the front is only necessary for ABOXes with circular connector (Intercontec) motor output at the front.

4.12.4 MOVIFIT® size 2 with optional stainless steel mounting rail /M11



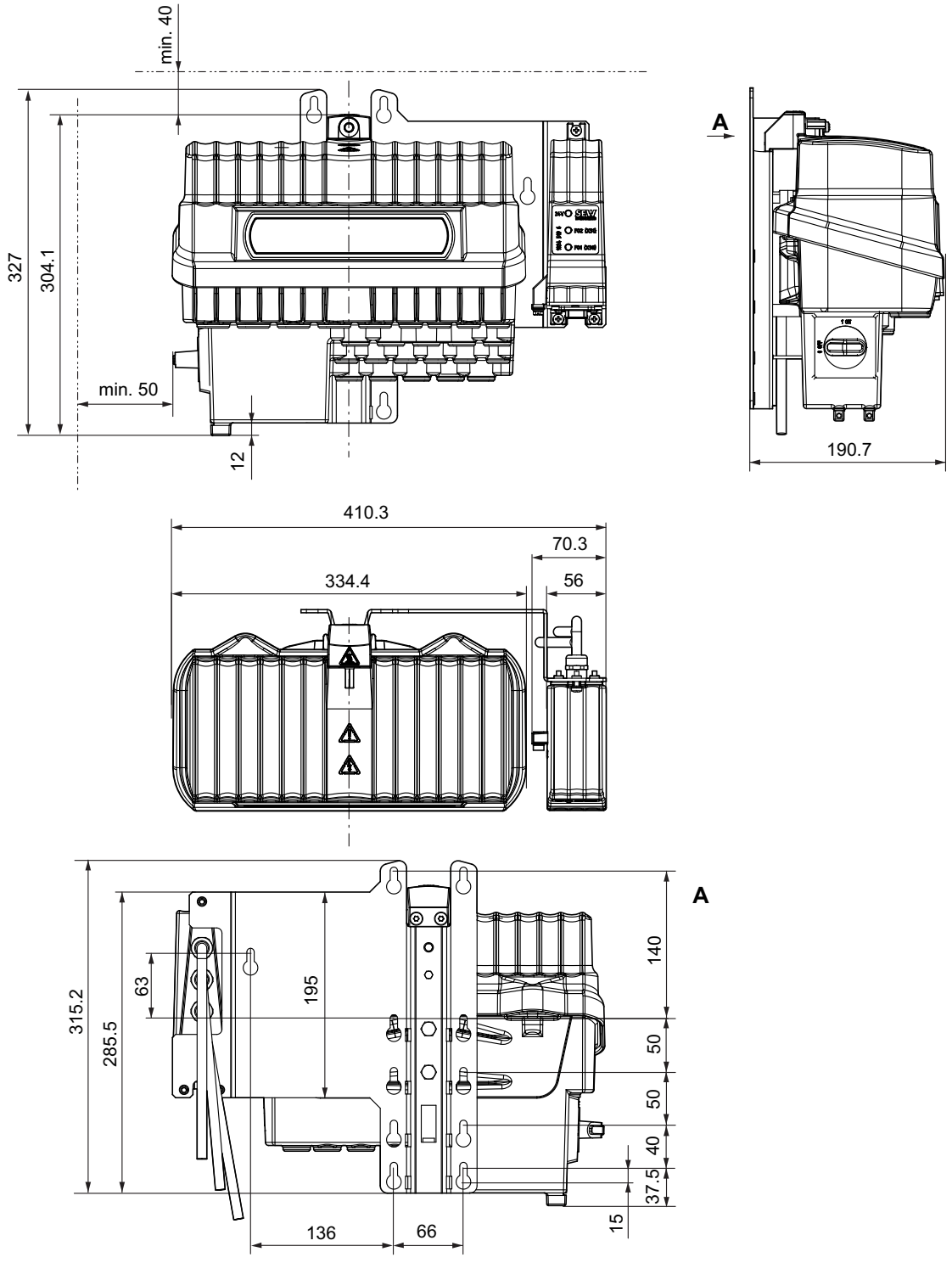
9007202968012171

[1] The clearance of 104 mm below is only necessary for ABOXes with circular connector (Intercontec) motor output pointing downward.

[2] The clearance of 191 mm at the front is only necessary for ABOXes with circular connector (Intercontec) motor output at the front.

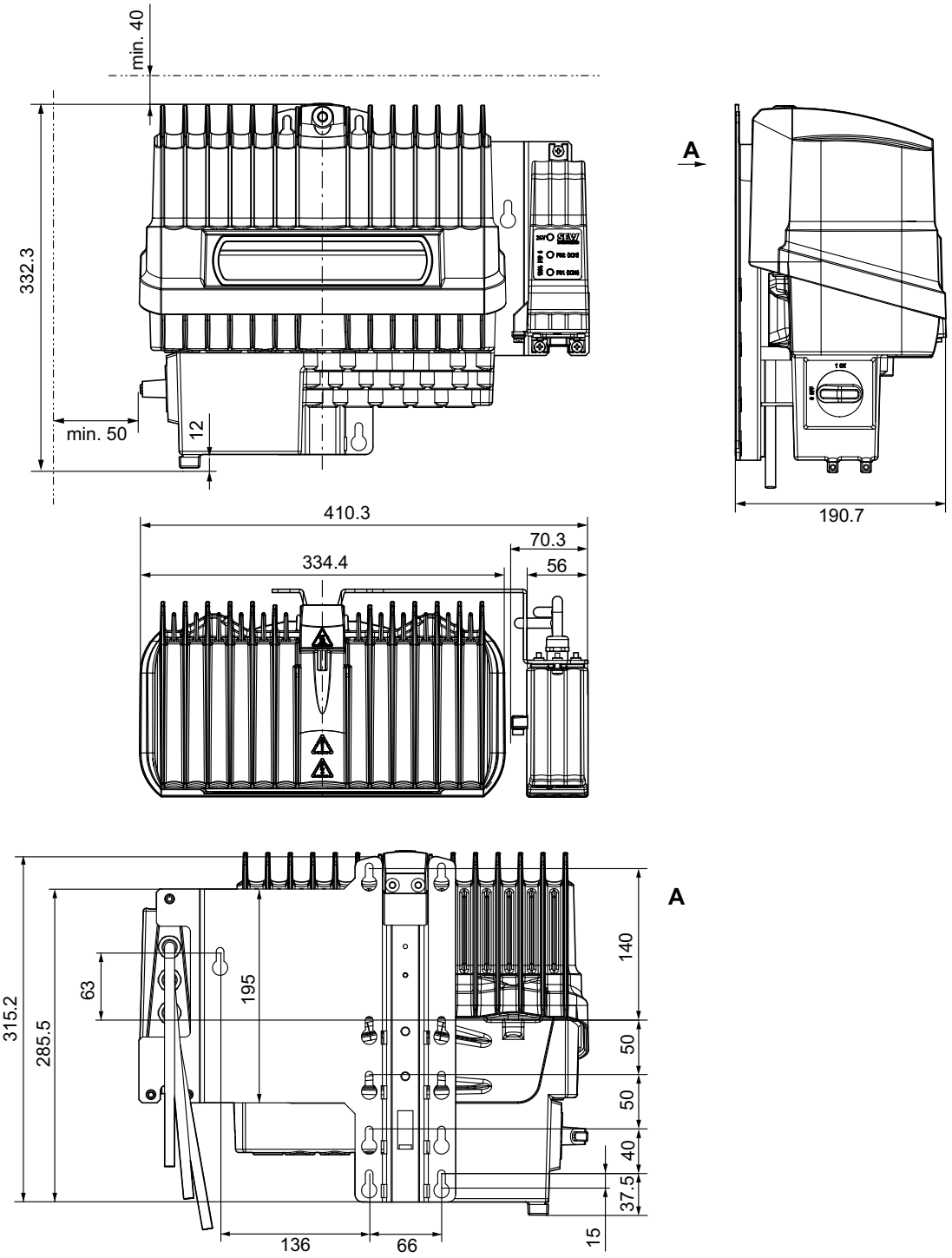
21914796/EN – 09/2015

4.12.5 MOVIFIT® size 1 with POF option L10



18014402366515211

4.12.6 MOVIFIT® size 2 with POF option L10



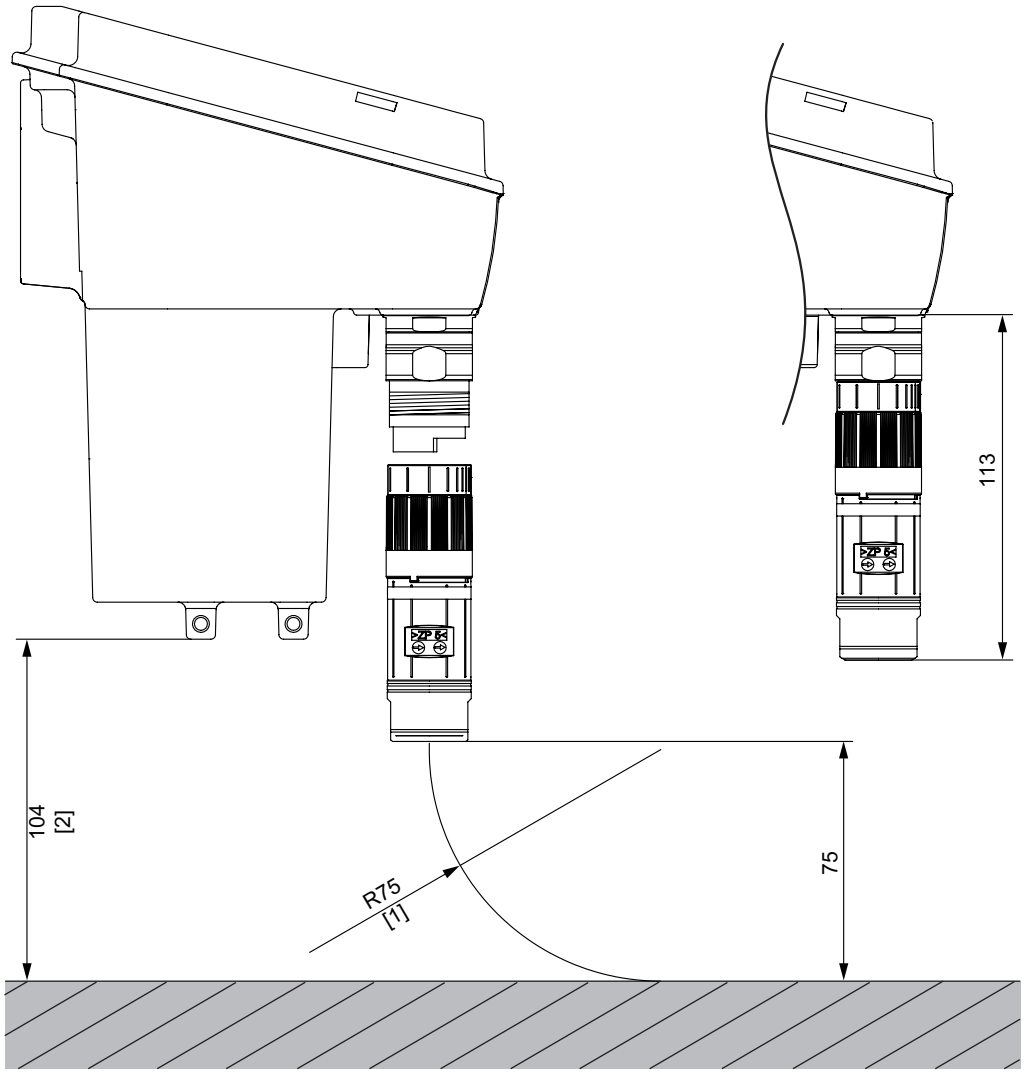
9007203640500875

21914796/EN – 09/2015

4.12.7 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 circular connector (Intercontec) and motor output pointing downward:



36028801787793163

[1] Smallest permitted bending radius of bulk cable: 75 mm
[2] Minimum distance to the bottom of the ABOX: 104 mm

21914796/EN – 09/2015