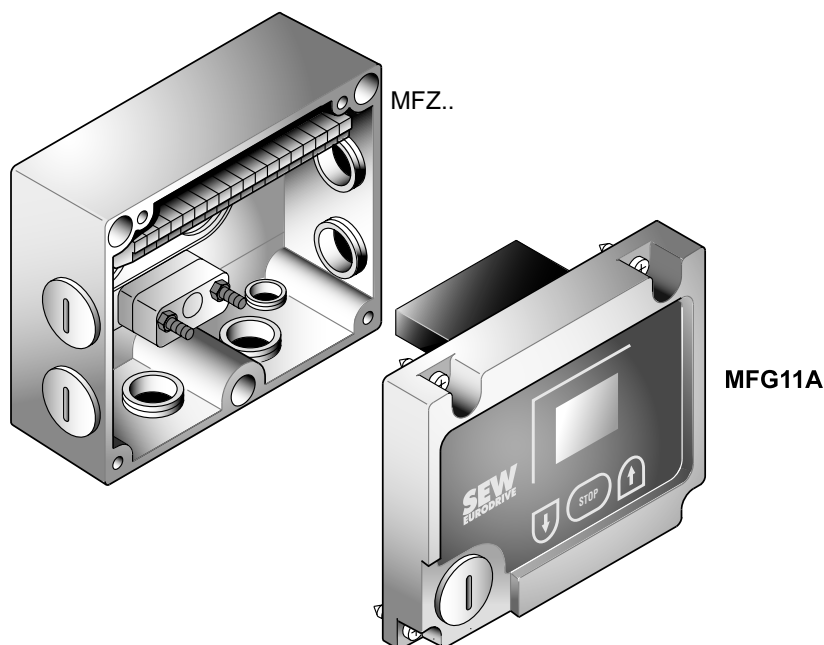


9 Options for Diagnostics, Startup and Manual Operation

9.1 MFG11A keypad

9.1.1 Description of functions

The MFG11A keypad is plugged onto a MFZ.. connection module (not included in the scope of delivery) instead of a fieldbus interface for manual control of a MOVIMOT® drive.

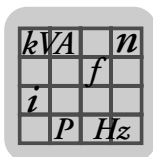


50030BXX

9.1.2 Technical data

The following table shows the technical data of the MFG11A:

Option MFG11A	
Part number	823 559 7
Input voltage	DC 24 V ± 25 %
Current consumption	approx. 70 mA
Setpoint resolution	1 %
Serial interface	RS-485 for connecting max. 31 MOVIMOT® inverters (max. 200 m, 9600 baud)
Degree of protection	IP 54 (MFG11A mounted on MFZ.. connection module)
Ambient temperature	-15...60 °C



9.2 DBG60B keypad

9.2.1 Functions in combination with MOVIFIT® and fieldbus interfaces MF../MQ..

- Representation of process values and status displays
- Representation of process output and input data
- Display of the error status and the error reset
- Manual control and operation
- Status displays of binary inputs and outputs (only with MOVIFIT®)
- Displaying and setting the operating parameters (only with MOVIFIT®)
- Data backup and transfer of parameter sets (only with MOVIFIT®)

9.2.2 Functions in connection with MOVIMOT® with integrated AS-Interface

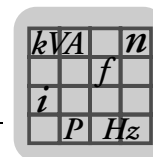
- Manual operation of MOVIMOT® with error code display
- Setting the scaling factors
- Status display of binary inputs and outputs
- Status displays of the parameter bits
- Representation of the ramp time
- Representation of the actual speed

9.2.3 Features

- Illuminated text display, range of languages
- Keypad with 21 keys
- Can be connected via extension cable DKG60B (5 m [16.4 ft])
- Enclosure IP40 (EN 60529)

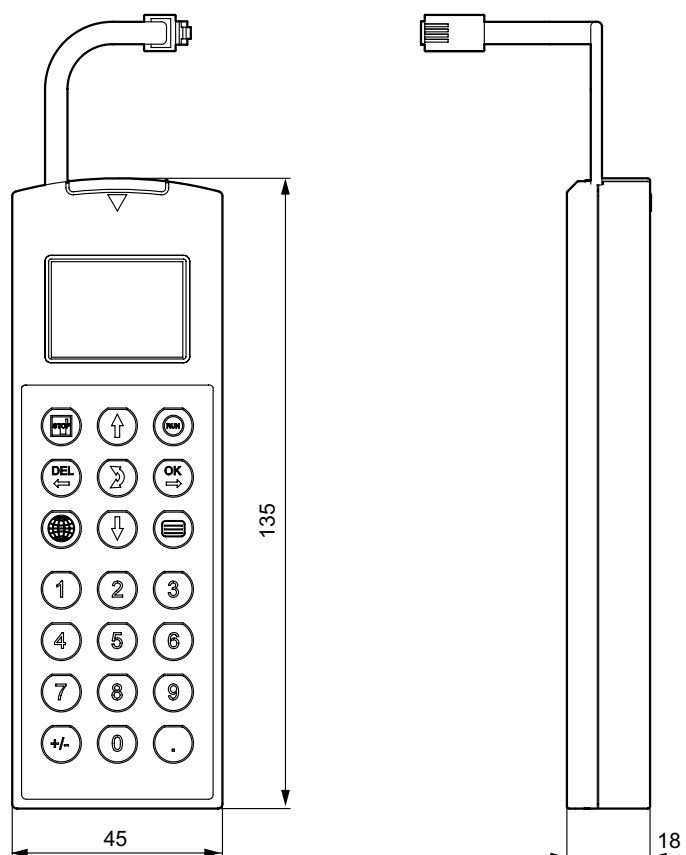
9.2.4 Overview

Keypad	Language variants	Part number
	DBG60B-01 DE/EN/FR/IT/ES/PT/NL (German/English/French/Italian/Spanish/ Portuguese/Dutch)	1820 403 1
	DBG60B-02 DE/EN/FR/FI/SV/DA/TR (German/English/French/Finnish/ Swedish/Danish/Turkish)	1820 405 8
	DBG60B-03 DE/EN/FR/RU/PL/CS (German/English/France/Russian/Polish/ Czech)	1820 406 6
	DBG60B-04 DE/EN/FR/ZH (German/English/French/Chinese)	1820 850 9
	Extension cable Description (= scope of delivery)	Part number
	DKG60B • Length 5 m (16.4 ft) • 4-core, shielded cable	817 583 7
	Adapter Description	Part number
	AYUD Connection technology for MOVIMOT® with integrated AS-Interface. • If the AYUD adapter is specified when ordering the MOVIMOT® drive, then it will be included in the scope of delivery of the MOVIMOT® drive. • It can also be retrofitted to the MOVIMOT® drive.	0 818 037 7

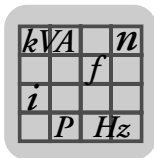


9.2.5 Dimension drawing for DBG60B

The following figure shows the dimensions of DBG60B:



53147BXX



9.3 USB11A-type interface adapter

9.3.1 Description of functions

Option USB11A enables a PC or laptop with a USB interface to be connected to MOVIFIT[®], MOVIMOT[®] with integrated AS-Interface or MF../MQ.. fieldbus interfaces. The USB11A interface adapter supports USB1.1 and USB2.0.

The scope of delivery for the USB11A option includes:

- USB11A interface adapter
- USB connection cable to connect USB11A - PC
- Serial interface cable with 2 RJ10 plugs for connection of MOVIFIT[®], MOVIMOT[®] with integrated AS-Interface or MF../MQ.. fieldbus interfaces with USB11A
- CD-ROM with drivers and MOVITOOLS[®] MotionStudio

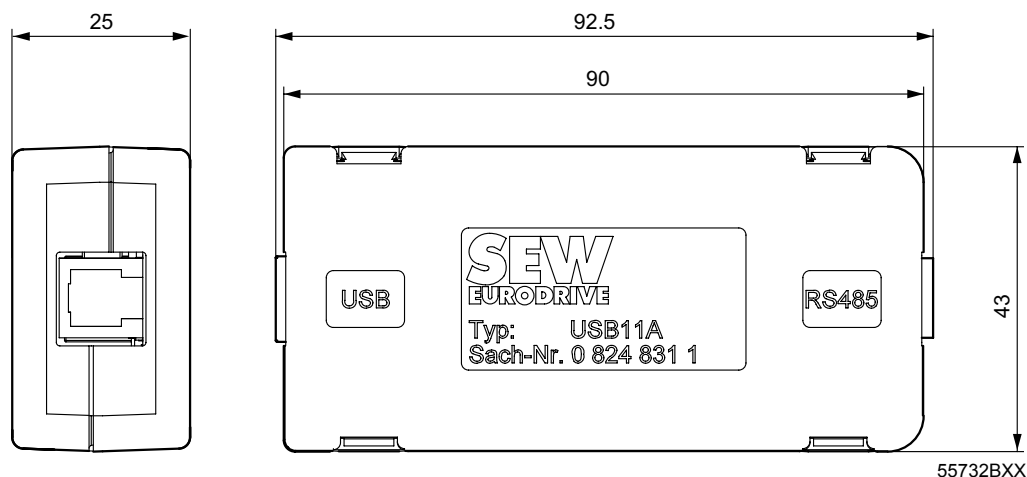
9.3.2 Technical data

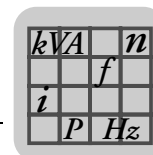
The following table shows the technical data of the USB11A:

USB11A	
Part number	0 824 831 1
Ambient temperature	0 ... 40 °C
Storage temperature	-25 °C ... +70 °C (according to EN 60721-3-3, class 3K3)
Degree of protection	IP20
Weight	300 g
Dimensions	92.5 x 43 x 25 mm

9.3.3 Dimension drawing

The following figure shows the dimensions of USB11:





9.4 UWS21B-type interface adapter

9.4.1 Description

The UWS21B option converts RS232 signals, for example from the PC, into RS485 signals. These RS485 signals can then be transmitted to the diagnostic interface of MOVIFIT®, MOVIMOT® with integrated AS-Interface or MF../MQ.. fieldbus interfaces.

The scope of delivery for the UWS21B option includes:

- UWS21B unit
- Serial interface cable with 9-pin sub D socket and 9-pin sub D connector to connect the UWS21B option to the PC.
- Serial interface cable with 2 RJ10 plugs for connection of MOVIFIT®, MOVIMOT® with integrated AS-Interface or MF../MQ.. fieldbus interfaces
- CD-ROM with MOVITOOLS® MotionStudio

9.4.2 Technical data

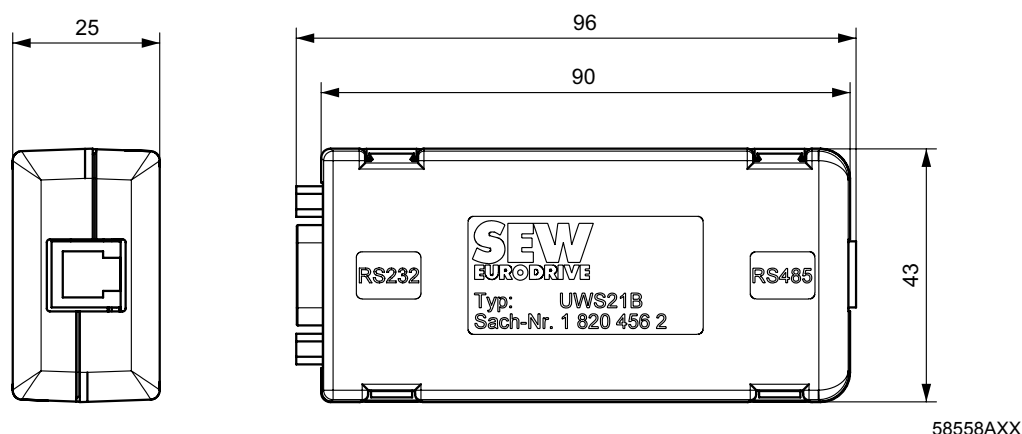
The following table shows the technical data of UWS21B:

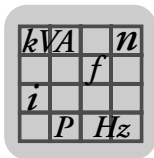
UWS21B	
Part number	1 820 456 2
Ambient temperature	0 ... 40 °C
Storage temperature	–25 °C ... +70 °C (according to EN 60721-3-3, class 3K3)
Degree of protection	IP20
Weight	300 g
Dimensions	96 x 43 x 25 mm

9

9.4.3 Dimension drawing

The following figure shows the dimensions of UWS21B:





9.5 MDG11A diagnostic unit

9.5.1 Description of functions

The unit displays the operating status, output current, terminal states in the error codes of a MOVIMOT® in case of an error. Items are selected by pressing the  button, the other arrow key has no function.

MDG11A is not available for MOVIMOT® with integrated AS-Interface.

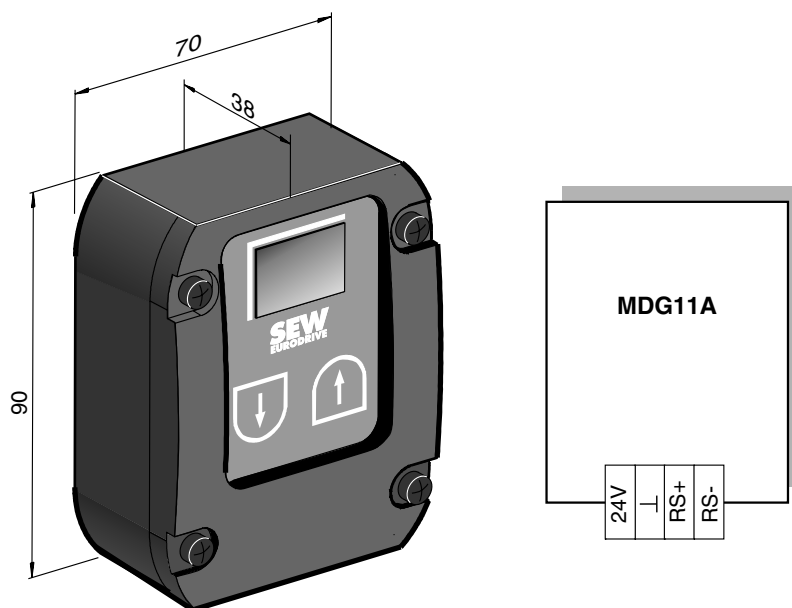
9.5.2 Technical data

The following table shows the technical data of the MDG11A:

MDG11A option	
Part number	822 941 4
Input voltage	DC 24 V ± 25 %
Current consumption	approx. 70 mA
Serial interface	RS-485 for connecting one MOVIMOT® inverter with control via terminals
Degree of protection	IP 65
Ambient temperature	-15...60 °C

9.5.3 Dimensions and connection assignment

The following figure shows the dimensions and the connection assignments of MDG11A:



03607AXX