

SIMOREG DC-MASTER Control Module

Operating
Instructions

6RA70 Series

Control Module with microprocessor
for Variable-Speed DC Drives



Serial interface 1 RS232 (9-pin SUBMIN D socket connector) (G-SST1)
X300

Use a shielded connecting cable! Ground shield at both ends!

Module C98043-A7005 PMU

Con. pin X300	Function
1	Housing ground
2	Receive cable to RS232 (V.24) standard
3	Send and receive cables to RS485, two-wire, positive differential input/output
4	Input: Reserved for later use
5	Ground
6	5 V voltage supply for OP1S
7	Send cable to RS232 (V.24) standard
8	Send and receive cables to RS485, two-wire, positive differential input/output
9	Ground

Cable length: Up to 15m according to EIA Standard RS232C
 Up to 30 m capacitive load, max. 2.5nF (cable and receiver)

A serial connection can be made to a PLC or PC with cable connector X300 on the PMU. The device can then be controlled and operated from a central control center or control room.

Serial interface 2 RS485 (G-SST2)

Module C98043-A7001 (CUD1)

Function	Terminal X172	Connection values/remarks
TX+	56	RS485, 4-wire send cable, positive differential output
TX-	57	RS485, 4-wire send cable, negative differential output
RX+/TX+	58	RS485, 4-wire receive cable, positive differential input, 2-wire send/receive cable, positive differential input
RX-/TX-	59	RS485, 4-wire receive cable, negative differential input, 2-wire send/receive cable, negative differential input
M	60	Ground

Cable length: For transmission rate =187.5kBd ⇒ 600m
 For transmission rate ≤93.75kBd ⇒ 1200m

The following must be observed: DIN 19245 Part 1

In particular, the difference in potential between the data reference potentials M of all interfaces must not exceed -7V / +12V. If this cannot be guaranteed, equipotential bonding must be provided.

Activation of interface 1 or 2:

- Set the baud rate in parameter P783 or P793.
- Set the protocol in parameter P780 or P790.