High Speed Busbar Transfer
SIPROTEC 7VU683

Product description	Variants	Order No.

High Speed Busbar Transfer Device

Order No. positions:

```
 1 2 3 4 5  6  7    8 9 10 11 12   13 14 15 16   Short code
 7 V U 6 8  3 □ - □ E □  □  □  -  1  A  A  0    □ □ □
```

Housing, binary inputs and outputs
Housing 1/1 19", 17 BI, 18 BO (incl.5 High Speed), 1 Life contact — position 6: **3**

Current transformer: I_N
I_N = 1 A [1] — position 7: **1**
I_N = 5 A [1] — position 7: **5**

Auxiliary Voltage
DC 24 to 48 V, binary input threshold DC 19 V [3] — position 8: **2**
DC 60 to 125 V [2], binary input threshold DC 19 V [3] — position 8: **4**
DC 110 to 250 V [2], AC 115/230 V, binary input threshold DC 88 V [3] — position 8: **5**
DC 220 to 250 V [2], AC 115/230 V, binary input threshold DC 176 V [3] — position 8: **6**

Construction
Flush-mounting housing, screw-type terminals (direct connecting/ ring-type cable lugs) — position 9: **E**

Region-specific default settings/ language Settings
Region World, English [4], 50/60Hz — position 10: **B**
Region China, Chinese [4], 50/60Hz — position 10: **W**

Port B: (System port on rear of device)

Description	Pos 11	Short code
No system port	0	
IEC 60750-5-103 Protocol, electric RS232	1	
IEC 60870-5-103 Protocol, electrical RS485	2	
IEC 60870-5-103 Protocol, 820 nm fibre, ST-connector	3	
PROFIBUS DP slave, RS485	9	L 0 A
PROFIBUS DP slave, 820 nm fibre, double ring, ST-connector	9	L 0 B
Modbus, RS485	9	L 0 D
Modbus, electrical, ST-connector	9	L 0 E
DNP3, electrical, RS485	9	L 0 G
DNP3, optical 820 nm, ST-connector	9	L 0 H
IEC 60870-5-103 Protocol, redundant, electrical RS485	9	L 0 P
IEC 61850, 100 Mbit Ethernet, electrical, double, RJ45-connector	9	L 0 R
IEC 61850, 100 Mbit Ethernet, with integrated switch optical, double, LC-connector	9	L 0 S

Only Port C
DIGSI 4 / Modem, electric RS232; — position 12: **1**
DIGSI 4/ Modem/ RTD-Box, electrical RS485; — position 12: **2**

Measuring/ fault recording
Basic measured values — position 13: **1**

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1) Rated current 1/5 A can be selected by means of jumpers.
2) Transition between the three auxiliary voltage can be selected by mean of jumpers.
3) The threshold of each binary input can be set via jumpers.
4) Device language can be selected via DIGSI.

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(continued from previous page)

```
          1  2  3  4  5  6  7      8  9  10 11 12       13 14 15 16
          7  V  U  6  8  3 □  -  □  E  □  □  □    -  1  A  A  0
                                                          ▲
                                                          |
```

Functions   A
High Speed Busbar Transfer Function (2 or 3 circuit breakers)
Protection functions (Overcurrent phase/earth (50, 50N); only with firmware V4.6
Overcurrent phase/ earth for busbar energization)
Supervision functions
HSBT function (single busbar w. 2-CB), ANSI C50.41-2012;   B
starting with firmware V4.70
Supervision functions
HSBT function (sectionalized single busbar w. 3-CB), ANSI C50.41-2012;   C
starting with firmware V4.70
Protection functions (Phase/earth O/C prot., Phase/earth O/C protection
against switch-onto-fault)
Supervision functions
HSBT function (single busbar with infeed 3-CB), ANSI C50.41-2012;   D
starting with firmware V4.70
Supervision functions