S500 I/O FOR AC500

Product Data Sheet

TU531

I/O terminal base unit

SIGNAL POSITIONS	SIGNAL GROUPS	FIELD TERMINALS	CONNECTION
32	**4 x 8**	**40**	**Screw**

ABB TU531 is an S500 terminal unit with screw terminals. It provides 32 signal positions in four groups of eight and 40 terminals in total for the signal and process-supply connections.

01 TECHNICAL DATA

Signal-channel positions	32; actual channel assignment depends on inserted I/O module
Signal grouping	4 groups of 8: terminals 1.0-1.7, 2.0-2.7, 3.0-3.7, 4.0-4.7
Field terminal count	40 for signals and process supply
Terminal connection	Screw terminals
AC/relay circuit class	120/230 V AC; use the compatible I/O module rating
Supply-terminal voltage limit	30 V DC maximum; terminals x.8/x.9, x = 1-4
Supply-terminal total current	10 A maximum total; terminals x.8/x.9, x = 1-4
Signal-terminal voltage limit	300 V AC maximum; subject to connected I/O or supply limits
Signal-terminal current limit	3 A maximum; subject to internal connector current rating
Process supply UP terminals	Terminals 1.8-4.8: +24 V DC

ABB online hardware descriptions: TU531/TU532 and Technical data.

02 ADDITIONAL PRODUCT DATA

Process return ZP terminals	Terminals 1.9-4.9: 0 V
Module-electronics supply	24 V DC from the I/O expansion bus
Grounding arrangement	Grounded DIN rail or wall-mounting screws
Mounting position	Horizontal or vertical
Conductor entry direction	Front terminal entry, perpendicular to the printed circuit board

03 PRODUCT FUNCTION

The process-supply terminal groups are rated up to 30 V DC and 10 A total. Signal terminals are specified up to 300 V AC and 3 A only within the connected I/O, supply-input and internal-connector limits. Module electronics receive 24 V DC through the I/O expansion bus.

04 SYSTEM COMPATIBILITY

UP terminals 1.8-4.8 carry +24 V DC; ZP terminals 1.9-4.9 are 0 V. Use the module-specific signal assignment. Ground through the grounded DIN rail or wall-mounting screws and follow the permitted mounting orientation.

05 REFERENCE

ABB online hardware descriptions: TU531/TU532 and Technical data.

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**