

FLEX EX

Product Data Sheet

1797-TB3

Intrinsically Safe Screw Terminal Base

TERMINAL ARRANGEMENT	TERMINAL CONNECTION TYPE	TERMINAL SCREW TORQUE	MAXIMUM STRANDED CONDUCTOR CROSS-SECTION
1 row of 16 + 2 rows of 18	Screw-cage	0.8 to 1.0 Nm	4 mm ² (12 AWG)

Allen-Bradley 1797-TB3 is a screw-terminal base for the FLEX Ex intrinsically safe distributed I/O system. It provides the physical wiring and module connection interface for compatible 1797 I/O modules used in hazardous-area process automation.

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VERIFIED TECHNICAL DATA

Terminal arrangement	1 row of 16 + 2 rows of 18
Terminal connection type	Screw-cage
Terminal screw torque	0.8 to 1.0 Nm
Maximum stranded conductor cross-section	4 mm ² (12 AWG)
Maximum conductor insulation diameter	1.2 mm
Operating temperature	-20 to +70 deg C
Storage temperature	-40 to +85 deg C
Relative humidity	5 to 95%, non-condensing
Shock test	15 g peak, 11 ±1 ms pulse
Vibration test	2 g at 10 to 500 Hz

ADDITIONAL PRODUCT DATA

Flexbus intrinsic-safety voltage limit	Ui <10 V DC
Flexbus intrinsic-safety current limit	Ii <400 mA
IECEX certificate reference	BVS 08.0006X
ATEX certificate reference	DMT 98 ATEX E012 U
IECEX marking in manufacturer reference	Ex ia IIC T4 Gb

DOCUMENTED USE SETTINGS

Chemical Production and Process Manufacturing: Industrial Chemical Production.

Oil Refining and Natural Gas Processing: Petroleum Refining and Processing.

Pharmaceutical Manufacturing and Biopharmaceutical Production: Pharmaceutical Ingredient Manufacturing.

SYSTEM COMPATIBILITY

1797-TB3 is the screw-terminal base for compatible FLEX Ex I/O modules. Match the inserted module and keying position before assigning field wiring.

PRODUCT EVIDENCE

Rockwell 1797-IN001G-EN-P, August 2017, selected pages 2, 17, 18

AMIKON PRODUCT SUPPORT

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