

General Specifications

Attribute	Value
Terminal screw torque	1794-TB3TK, 1794-TB3G, 1794-TB3GK, 1794-TB2, 1794-TB32, 1794-TB3, 1794-TB3K, 1794-TB3T: 0.56...0.79 Nm (5...7 lb-in) 1794-TBKD: 0.3...0.6 Nm (2.6...5.3 lb-in) 1794-TBN, 1794-TBNF, 1794-TBNK: 1.4 Nm (12 lb-in)
Supply voltage range	FLEXBUS: 5V DC, 640 mA I/O Terminals: 2 A max 1794-TB3SK, 1794-TB3TK, 1794-TB2, 1794-TB3, 1794-TB3K, 1794-TB3S, 1794-TB3T, 1794-TB3TS: V/COM Terminals: 125V DC/AC, 50/60 Hz, 10 A 1794-TB3GSK, 1794-TB3G, 1794-TB3GS, 1794-TB3GK, 1794-TB32, 1794-TB32S: V/COM Terminals: 31.2V DC/AC, 50/60 Hz, 10 A 1794-TBN, 1794-TBNF, 1794-TBNK: V/COM Terminals: 250V DC/AC, 50/60 Hz, 10 A 1794-TBKD only: Terminal Block: 120V AC, 50/60 Hz, 10 A Disconnecting Switch: 3 A, 20 mΩ ATTENTION A disconnecting switch does not shut off the current. Make or break a circuit only under no-load conditions.
Isolation voltage	1794-TBN, 1794-TBNF, 1794-TBNK: Capable of 250V (continuous) maximum, Basic Insulation Type, Field Wiring Terminals to FLEXBUS, or the lesser of the installed module. 1794-TB3SK, 1794-TB3TK, 1794-TB3T, 1794-TB3TSK, 1794-TB2, 1794-TB3, 1794-TB3K, 1794-TB3S, 1794-TB3TS: Capable of 125V (continuous) maximum, Basic Insulation Type, Field Wiring Terminals to FLEXBUS, or the lesser of the installed module 1794-TB3G, 1794-TB3GS, 1794-TB3GK, 1794-TB3GSK, 1794-TB32, 1794-TB32S: Capable of 50V (continuous) maximum, Basic Insulation Type, Field Wiring Terminals to FLEXBUS, or the lesser of the installed module. Tested at 2121V DC/60s, Field Wiring Terminals to FLEXBUS. 1794-TBKD: 220V DC/s, Field Wiring Terminals to Functional Ground.
Wire size	1794-TB3SK, 1794-TB3GSK, 1794-TB3TSK, 1794-TB3GK, 1794-TB3GS, 1794-TB32S, 1794-TB3, 1794-TB3K, 1794-TB3S, 1794-TB3TS, 1794-TBN, 1794-TBNF, 1794-TBNK: 0.34... 3.3 mm² (22... 12 AWG) solid or stranded copper wire rated at 75 °C (167 °F) or greater, 1.2 mm (3/64 in.) insulation max. Strip Length: 5... 6 mm (0.20...0.24 in.) 1794-TBKD: 0.34... 2.1 mm² (22... 14 AWG) solid or stranded copper wire rated at 75 °C (167 °F) or greater, 1.2 mm (3/64 in.) insulation max 1794-TB3TK, 1794-TB3G, 1794-TB2, 1794-TB32: 0.21... 1.3 mm² (24... 16 AWG) stranded copper wire rated at 75 °C (167 °F) or greater, 1.2 mm (3/64 in.) insulation max
North American temp code	1794-TB3G, 1794-TB3GS, 1794-TB3GSK, 1794-TB3GK, 1794-TB3, 1794-TB3K, 1794-TB3T, 1794-TB3TK, 1794-TB3S, 1794-TB3SK, 1794-TB3TS, 1794-TB3TSK, 1794-TBN, 1794-TBNK, 1794-TB32, 1794-TB32S: T4A 1794-TB2: T6
IEC temp code	1794-TB3G, 1794-TB3GS, 1794-TB3GSK, 1794-TB3GK, 1794-TB3, 1794-TB3K, 1794-TB3T, 1794-TB3TK, 1794-TB3S, 1794-TB3SK, 1794-TB3TS, 1794-TB3TSK, 1794-TBN, 1794-TBNK: T4 1794-TB2: T6
Dimensions, HxWxD (with module installed in terminal base)	94 x 94 x 69 mm (3.7 x 3.7 x 2.7 in.)
Publication, installation instructions	1794-IN092

Environmental⁽¹⁾

Attribute	Value
Temperature, operating	1794-TB3G, 1794-TB3GS, 1794-TB3GSK, 1794-TB3GK, 1794-TB3, 1794-TB3K, 1794-TB3T, 1794-TB3TK, 1794-TB3S, 1794-TB3SK, 1794-TB3TS, 1794-TB3TSK, 1794-TB32, 1794-TB32S, 1794-TBN, 1794-TBNK: IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20...70 °C (-4...158 °F) 1794-TBKD, 1794-TB37DS, 1794-TB62DS: 0...55 °C (32...131 °F) 1794-TBNF, 1794-TB2: -20...55 °C (-4...131 °F)
Temperature, nonoperating	IEC 60068-2-1 (Test Ab, Unpackaged Non-operating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Non-operating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Non-operating Thermal Shock): -40...85 °C (-40...185 °F) 1794-TBKD only: -20...85 °C (-4...185 °F)
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% noncondensing
Vibration	IEC 60068-2-6 (Test Fc, Operating): 5 g @ 10...500 Hz
Shock, operating	All catalogs except 1794-TBKD: IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30 g
Shock, nonoperating	All catalogs except 1794-TBKD: IEC 60068-2-27 (Test Ea, Unpackaged Shock): 50 g

(1) EMC specifications determined by the installed modules.

Certifications

Certifications (when product is marked) ⁽¹⁾	Description
UL	1794-TB2: UL Listed Industrial Control Equipment. See UL File E65584.
c-UL-us	1794-TB3G, 1794-TB3GS, 1794-TB3GSK, 1794-TB3GK, 1794-TB3, 1794-TB3K, 1794-TB3T, 1794-TB3TK, 1794-TB3S, 1794-TB3TS, 1794-TB3SK, 1794-TB3TSK, 1794-TBN, 1794-TBNK, 1794-TB32, 1794-TB32S: UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810. 1794-TBKD, 1794-TBNF: UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584.
CSA	1794-TB2, 1794-TB3, 1794-TB3K, 1794-TB3T, 1794-TB3S, 1794-TB3TS, 1794-TB3TK, 1794-TB3SK, 1794-TB3TSK, 1794-TBN, 1794-TBNK, 1794-TB3G, 1794-TB3GK, 1794-TB3GS, 1794-TB3GSK: CSA Certified Process Control Equipment. See CSA File LR54689C. CSA Certified Process Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations. See CSA File LR69960C. 1794-TBNF: CSA Certified Process Control Equipment. See CSA File LR54689C.
CE	European Union 2004/108/EC EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) European Union 2006/95/EC LVD, compliant with: EN 61131-2; Programmable Controllers (Clause 11)
C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions

Certifications

Certifications (when product is marked) ⁽¹⁾	Description
Ex	1794-TB3G, 1794-TB3GS, 1794-TB3GSK, 1794-TB3GK, 1794-TB3, 1794-TB3K, 1794-TB3T, 1794-TB3S, 1794-TB3TS, 1794-TB3TK, 1794-TB3SK, 1794-TB3TSK, 1794-TBN, 1794-TBNK: European Union 94/9/EC ATEX Directive, compliant with: EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements (Zone 2) II 3 G Ex nA IIC T4 Gc 1794-TB2: European Union 94/9/EC ATEX Directive, compliant with: EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements (Zone 2) II 3 G Ex nA IIC T6 Gc
TÜV	1794-TB3G, 1794-TB3GS, 1794-TB3GSK, 1794-TB3GK, 1794-TB3, 1794-TB3K, 1794-TB3T, 1794-TB3S, 1794-TB3TS, 1794-TB3TK, 1794-TB3SK, 1794-TB3TSK, 1794-TBNF: TÜV Certified for Functional Safety: Capable of SIL 2
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 3

(1) See the Product Certification link at <http://www.rockwellautomation.com/products/certification/> for Declaration of Conformity, Certificates, and other certification details.

1794-TB37DS, 1794TB62DS

FLEX I/O D-Shell Terminal Base Units

Technical Specifications

Catalog	Termination type	Connections	Used in applications	Current capacity, max	Wiring category	Purpose
1794-TB37DS	D-shell	37 pin; digital and analog	Up to 31.2 V DC	10 A	Module dependent	A 37-pin D-shell termination for both digital and analog modules.
1794-TB62DS		62 pin; digital				A 62-pin D-shell termination for both digital and analog modules.

General Specifications

Attribute	Value
Terminal Screw Torque	0.6 Nm (5 lb-in.)
Dimensions, HxWxD (with expansion module installed)	127.0 x 94 x 69 mm (5.0 x 3.7 x 2.7 in.)
Current Capacity	1794-TB62DS: V1 - 8 A max V2 - 6 A max 10 A max per module 5 A per pin 1794-TB37DS: 10 A max per module 5 A per pin
Enclosure type rating	None (open style)
Conductors wire size	12AWG (4 mm ²) stranded copper wire rated at 75 °C or higher
Category ⁽¹⁾	3/64 in. (1.2 mm) insulation maximum Established by installed module
Isolation voltage	Established by installed module
Publication, installation instructions	1794-IN107

(1) You use this category information for planning conductor routing as described in Allen-Bradley publication [1770-4.1](#), Industrial Automation Wiring and Grounding Guidelines