

# X20TB06/X20TB12

## 1 General information

The X20 24 VDC modules are wired using the X20TB06 and X20TB12 terminal blocks.

- Tool-free wiring with push-in technology
- Simple wire release using lever
- Ability to label each terminal
- Plain text labeling also possible
- Test access for standard probes
- Can be customer-coded

## 2 Order data

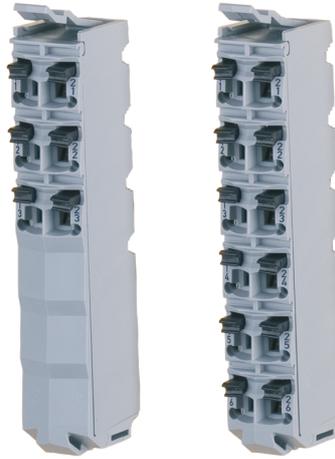
	
<span>X20TB06</span> <span>X20TB12</span>	
Model number	Short description
	<b>Terminal blocks</b>
X20TB06	X20 terminal block, 6-pin, 24 VDC keyed
X20TB12	X20 terminal block, 12-pin, 24 VDC keyed

Table 1: X20TB06, X20TB12 - Order data

### 3 Technical data

Product ID	X20TB06	X20TB12
<b>General information</b>		
Certification		
CE		Yes
cULus		Yes
ATEX Zone 2 <sup>1)</sup>		Yes
GL		Yes
LR		Yes
GOST-R		Yes
<b>Terminal block</b>		
Number of pins	6	12
Type of terminal clamp	Push-in terminal	
Push-in force per contact	Typ. 10 N	
Cable type	Only copper wires (no aluminum wires!)	
Wire stripping length	7 to 9 mm	
Connection cross section		
Solid wires	0.08 to 2.50 mm <sup>2</sup> / 28 to 14 AWG	
Fine strand wires	0.25 to 2.50 mm <sup>2</sup> / 24 to 14 AWG	
With wire end sleeves	0.25 to 1.50 mm <sup>2</sup> / 24 to 16 AWG	
With double wire end sleeves	Up to 2x 0.75 mm <sup>2</sup>	
Distance between contacts		
Left - Right	4.2 mm	
Above - Below	10.96 mm	
<b>Electrical characteristics</b>		
Nominal voltage	240 VAC	
Max. voltage	300 VAC	
Nominal current <sup>2)</sup>	10 A / contact	
Contact resistance	≤5 mΩ	
<b>Environmental conditions <sup>3)</sup></b>		
Temperature		
Operation	Corresponds to the X20 module used	
Relative humidity		
Operation	Corresponds to the X20 module used	

Table 2: X20TB06, X20TB12 - Technical data

- 1) Ta min.: 0°C  
Ta max.: See environmental conditions
- 2) Take the respective limit data for the I/O modules into consideration!
- 3) Identical for operation, storage and transport.

## Warning!

It is possible to come into contact with parts that carry voltage when the clamping block is disconnected. For this reason, working on a disconnected clamping block is not permitted at voltages of 50 V or higher.

### 4 Contact holding force

To ensure that cables maintain a secure contact with the terminal block, they must not be under too much stress. If the holding force is exceeded, the cable will come loose from the terminal block and cause a malfunction.

	Fine strand wires			Solid wires				With wire end sleeves	
	0.25	1.5	2.5	0.08	0.25	1.5	2.5	0.25	1.5
Cables in mm <sup>2</sup>									
Standard spec. (min. value in Newton)	12.5	40	50	4	12.5	40	50	12.5	40

## Information:

Fine strand wires must be twisted to provide sufficient holding force.