X20TB52, X20TB5E, X20TB5F, X20TB72

1 Order data

| X20TB52 | X20TB5E | X20TB5F | X20TB72 |

Model number	Short description
	Terminal blocks
X20TB52	X20 terminal block, 12-pin, safety-keyed
X20TB5E	X20 terminal block, 16-pin, safety keyed, 2x PT1000 integrated for terminal temperature compensation
X20TB5F	X20 terminal block, 16-pin, safety-keyed
X20TB72	X20 terminal block, 12-pin, safety keyed, 240 VAC, red

Table 1: X20TB52, X20TB5E, X20TB5F, X20TB72 - Order data

2 Technical data

Product ID	X20TB52	X20TB5E	X20TB5F	X20TB72
General information				
Certification				
CE		Yes		
cULus		Yes		
ATEX Zone 2 [1]		Yes		
GL		Yes		
LR		Yes		
GOST-R		Yes		
Terminal block				
Number of pins	12, safety-keyed	16, safety-keyed		12, safety-keyed
Type of terminal block		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 2.5 mm² / 28 to 14 AWG	0.08 to 1.5 mm² / 28 to 16 AWG		0.08 to 2.5 mm² / 28 to 14 AWG
Fine strand wires	0.25 to 2.5 mm² / 24 to 14 AWG	0.25 to 1.5 mm² / 24 to 16 AWG		0.25 to 2.5 mm² / 24 to 14 AWG
With wire end sleeves	0.25 to 1.5 mm² / 24 to 16 AWG	0.25 to 0.75 mm² / 24 to 20 AWG		0.25 to 1.5 mm² / 24 to 16 AWG
With double wire end sleeves	Up to 2x 0.75 mm²	-		Up to 2x 0.75 mm²
Distance between contacts				
Left - Right		4.2 mm		
Above - Below	10.96 mm	8.25 mm		10.96 mm
Terminal temperature compensation	-	2x PT1000 integrated in the terminal	-	
Electrical characteristics				
Nominal voltage	48 VAC	24 VDC		240 VAC
Max. voltage	48 VAC	50 VDC		300 VAC
Nominal current [2]	10 A / contact	2 A / contact		10 A / contact
Contact resistance		≤5 mΩ		
Environmental conditions [3]				
Temperature				
Operation		Corresponds to the X20 module used		
Relative humidity				
Operation		Corresponds to the X20 module used		

Table 2: X20TB52, X20TB5E, X20TB5F, X20TB72 - Technical data

1)   Ta min.: 0°C
    Ta max.: See environmental conditions
2)   The limit data for each SafeIO module must be taken into consideration.
3)   Identical for operation, storage and transport.

> **Information:**
>
> **Special care must be exercised during installation when using non-SELV circuits (e.g. 230 V). Local regulations must be observed, particularly with respect to safety precautions.**

3 Manual history

Version	Date	Comment
1.100	February 2016	Chapter 2 "Technical data": – Added environmental conditions. – Updated technical data.
1.80	August 2014	Updated chapter 2 "Technical data".
1.51	January 2013	Chapter 2 "Technical data": Added information.
1.50	March 2012	Terminal blocks X20TB72, X20TB5E and X20TB5F included
1.00	February 2012	First edition as a product-specific manual

Table 3: Manual history