6ES7924-2CC20-0AC0

## **Data sheet**

50IDC TERM. BL. TPA PUSH-IN TERM.S7-1500

Connection module TPA 3-tier for analog Modules of the SIMATIC S7-1500 Type: Push-in terminal without LED, VPE=1 unit 50 pole IDC connector for cable



Figure similar

target system	SIMATIC S7-1500
suitability for use	Analog I/O modules
product type designation	Fully modular connection
product designation	Connection module
electrical data	
operating voltage	
<ul><li>at DC / rated value</li></ul>	24 V
rated value	50 V
at DC / maximum	50 V
ampacity / per pin / maximum	1 A
continuous current / at DC / per signal cable / maximum	1 A
product function / infeed function	Yes
product component	
<ul> <li>PE connection</li> </ul>	No
<ul> <li>shield connection</li> </ul>	No
• disconnector	No
product feature / cross-connectable	No
connection method	
number of terminals	72; Intended for analog
type of connecting terminal	push-in
position / of the terminal	Тор
number of terminal levels	1
design of terminal / terminal levels internally linked	No
type of electrical connection / for connecting cable	Plug-in connection
number of poles / at the 1st interface	50; IDC connector with installed strain relief for the connecting cable
number of the plug contacts / of the electrical connection	1
wire length / maximum	30 m; between front connector module and Connection module
type of connectable conductor cross-sections / solid	No
connectable conductor cross-section	
• for flexible conductor / with core end processing	0.2 2.5 mm²; End sleeve according to DIN 46228/1 or DIN 46228/4 with plastic collar
• stranded	0.2 2.5 mm²
<ul> <li>finely stranded / without core end processing</li> </ul>	0.2 2.5 mm²
finely stranded / with core end processing	0.2 2.5 mm²
number of cables / per connection	2; Connection for internal system: Combination of 1 or 2 Wires until the sum total of cross sections be achieved in a ferrule.
width of screwdriver blade	3.5 mm
standards, specifications, approvals	
certificate of suitability	
cULus approval	Yes

design tested acc. to type of protection / EEx e	No				
overvoltage category	2				
degree of pollution	2	2			
combustibility class according to UL 94	V1				
standards, specifications, approvals / Environmental Product	Declaration				
Environmental Product Declaration	Yes				
global warming potential [CO2 eq]					
• total	89.7 kg				
during manufacturing	2 kg				
during operation	87.5 kg	87.5 kg			
after end of life	0.19 kg				
ambient conditions					
ambient temperature					
<ul> <li>during operation</li> </ul>	0 60 °C	0 60 °C			
during storage	-40 +70 °C	-40 +70 °C			
mechanical data					
width × height × depth	130 mm × 76 mm × 60 mm				
mounting type	DIN rail 35 mm, DIN rail 15 mm	1			
mounting position	any				
height / with lowest-profile installation	60 mm				
net weight	0.27 kg				
insulation material	other				
color					
of the enclosure	grey				
of the light source	without				
product component / required / end cover plate	No				
further information / internet links					
internet link					
to website: Industry Mall	https://mall.industry.siemens.com				
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstclc				
to web page: system cabling	https://siemens.com/simatic-top-connect				
to website: CAx-Download-Manager	https://siemens.com/cax				
to website: Industry Online Support		https://support.industry.siemens.com			
additional information					
other information	Specifications at rated input vol otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless			
	The TPA connection module for analog modules with push-in terminals for 50-pin connecting cables without LED for signalling forms the interface between the connecting cables of the peripherals brought in from the field and the SIMATIC S7-1500. This is mounted on the DIN rail and, thanks to its functionality with push-in terminals, is exactly adapted to the respective task. This connection module is part of the fully modular SIMATIC TOP connect connection for the fastest and safest system cabling. In addition to low wiring costs, error sources in cabling can be significantly reduced. Sensors and actuators from the peripherals are combined with the connection modules of SIMATIC TOP connect and connected to the SIMATIC S7-1500 via cable and front plug-in module.				
marketing text	pin connecting cables without L the connecting cables of the pe SIMATIC S7-1500. This is mou functionality with push-in termir This connection module is part connection for the fastest and s costs, error sources in cabling actuators from the peripherals a SIMATIC TOP connect and cor	.ED for signalling forms the properties on the DIN rail and, hals, is exactly adapted of the fully modular SIMA safest system cabling. In a can be significantly reducate combined with the core	the interface between the field and the thanks to its the respective task. TIC TOP connect addition to low wiring ed. Sensors and nnection modules of		
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## Approvals / Certificates

**General Product Approval** 

Environment

Declaration of Conformity

Manufacturer Declara-tion





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4/9/2025

