6ES7921-5CH20-0AA0

Data sheet



FRONT CONN. MOD.(DIGITAL 1X50 P) S7-1500

Front connector module with 1x50 pole IDC connector for digital 32 I/O modules of the S7-1500 Potential supply over Push-in terminal

suitability for use product type designation Fully modular connection product designation Front connector module Operating data / header operating voltage at DC / rated value at DC / rated value at DC / maximum continuous current / at DC / per plug-in contact / maximum total current / maximum operating temperature during operation during storage during storage during storage mumber of poles manufacturer's article number / of device connector / usable mumber of the plug contacts / of the electrical connection type of electrical connection / for connecting cable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply number of terminals width of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length ype of connectable conductor ross-section for flexible conductor ross-section for flexible conductor / with core end processing finely stranded / without core end processing without plastic sleeve / acc. to DIN 46228-1 with plastic sleeve / acc. to DIN 46228-1 with plastic sleeve / acc. to DIN 46228-4 evith plastic sleeve / acc. to DIN 46228-4 Equil // voltage / at V 24 V 24 V 24 V 25 V 60 V 26 V 26 V 27 Connector horizontal 28 V 29 V 20	target system	SIMATIC S7-1500
product designation Front connector module Operating data / header operating voltage • at DC / rated value • at DC / maximum continuous current / at DC / per plug-in contact / maximum total current / maximum operating temperature • during operation • during operation • during storage mumber of poles manufacturer's article number / of device connector / usable type of electrical connection / for connecting cable type of electrical connection / for power supply width of screwdriver blade product component / required / end cover plate without plastic sleeve / acc. to DIN 46228/1 • finely stranded / with our eend processing • finely stranded / with our eend processing • without plastic sleeve / acc. to DIN 46228-1 La V 24 V 24 V 24 V 25 V 40 V	suitability for use	Digital I/O modules
Operating data / header operating voltage • at DC / rated value • at DC / maximum continuous current / at DC / per plug-in contact / maximum total current / maximum operating temperature • during operation • during storage number of poles manufacturer's article number / of device connector / usable number of the plug contacts / of the electrical connection type of electrical connection / for connecting cable position / of the terminal type of electrical connection / for power supply number of tempinals vidth of screwdriver blade product component / required / end cover plate number of cables / per connection • for flexible conductor / with core end processing • finely stranded / without core end processing • finely stranded / without core end processing • without plastic sleeve / acc. to DIN 46228-1 Length 8 mm to 9mm	product type designation	Fully modular connection
operating voltage • at DC / rated value • rated value • at DC / maximum 60 V continuous current / at DC / per plug-in contact / maximum 1 A total current / maximum 2 A; for mounting position horizontal operating temperature • during operation • during storage mumber of poles manufacturer's article number / of device connector / usable number of the plug contacts / of the electrical connection type of electrical connection / for connecting cable position / of the terminal type of electrical connection / for power supply number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply number of cables / per connection * different of the plug contacts / of the electrical connection type of electrical connection / for power supply push-in terminal tithe top number of cables / per connection * different of cables / per connection * for flexible conductor / with core end processing • finely stranded / without core end processing • finely stranded / without core end processing • finely stranded / without core end processing • without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	product designation	Front connector module
e at DC / rated value e 1 at DC / maximum continuous current / at DC / per plug-in contact / maximum total current / maximum operating temperature e during operation e during storage number of poles number of the plug contacts / of the electrical connector / usable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply number of serwdriver blade product component / required / end cover plate number of connectable conductor / orss-section e finely stranded / without core end processing e without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm 1 A 2 A v 0 V 24 V 60 V 24 V 60 V 1 A 2 A; for mounting position horizontal 1 A 2 A; for mounting position horizontal 0 V 0 V 1 A 2 A; for mounting position horizontal 0 V 60 V 40 V 40 V 40 V 40 V 40; of the front connector replacement for S7-1500 40 pole 40; of the front connector Plug-in connection 1 Plug-in connection 2 O; the IDC connector for the connection cable 2 at the top Push-in terminal 3 the top Push-in terminal No No 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. 8 mm No 0.25 1.5 mm² 0.5 1.5 mm² 0.5 1.5 mm² 1	Operating data / header	
• rated value • at DC / maximum total current / maximum operating temperature • during operation • during operation • during storage number of poles manufacturer's article number / of device connection / type of electrical connection / for connection / for terminal type of electrical connection / for power supply number of terminals width of screwdriver blade product component / required / end cover plate stripped length type of connectable conductor / cross-section • for flexible conductor / with core end processing • finely stranded / without core end processing • without plastic seleve / acc. to DIN 46228-1 Lower of cables / maximum 1 A 60 V 22. Agr or mounting position horizontal 1 A 24. Agr or mounting position horizontal 1 A 25. Agr or mounting position horizontal 1 Cap. Agr or mounting position horizontal 24. Agr or mounting position horizontal 25. Agr or mounting position horizontal 26. Agr or mounting position horizontal 27. Connector 18. Agr or mounting position horizontal 28. Agr or mounting position horizontal 29. Agr or mounting position ho	operating voltage	
• at DC / maximum continuous current / at DC / per plug-in contact / maximum total current / maximum operating temperature • during operation • during storage number of poles number of the plug contacts / of the electrical connection type of electrical connection / for connecting cable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply number of scables / per connection / for connection 2	at DC / rated value	24 V
total current / at DC / per plug-in contact / maximum total current / maximum operating temperature of during operation of during operation of during storage of during operation of during storage of during operation of during storage of during operation of during storage of during storage of during operation of during storage of during operation of during storage of the front connector operation storage operation operation of storage operation operation operation of the leave of the form connection operation storage operation operation of the storage operation	rated value	24 V
total current / maximum operating temperature ouring operation ouring storage number of poles manufacturer's article number / of device connector / usable number of the plug contacts / of the electrical connection type of electrical connection / for connecting cable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply number of terminals vidth of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length type of connectable conductor cross-sections / solid connectable conductor / with core end processing of finely stranded / with core end processing our intermited our inter	• at DC / maximum	60 V
operating temperature • during operation • during storage number of poles manufacturer's article number / of device connector / usable number of the plug contacts / of the electrical connection type of electrical connection / for connecting cable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply number of terminals vidth of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length type of connectable conductor cross-section • for flexible conductor / with core end processing • finely stranded / with core end processing • without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm 0 60 °C 1 60 °C	continuous current / at DC / per plug-in contact / maximum	1 A
ambient temperature • during operation • during storage 10 60 °C 40 +70 °C number of poles 40; of the front connector replacement for S7-1500 40 pole number of the plug contacts / of the electrical connection type of electrical connection / for connecting cable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply number of terminals 4; 4 x 1 x L+ width of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length type of connectable conductor cross-sections / solid connectable conductor / with core end processing • finely stranded / with core end processing • without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	total current / maximum	2 A; for mounting position horizontal
 during operation during storage 40 +70 °C number of poles manufacturer's article number / of device connector / usable number of the plug contacts / of the electrical connection type of electrical connection / for connecting cable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply push-In terminal number of terminals 4; 4 x 1 x L + width of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length type of connectable conductor cross-sections of or flexible conductor / with core end processing of stranded of innely stranded / with core end processing of finely stranded / with core end processing of without plastic seleve / acc. to DIN 46228-1 Length 8mm to 9mm 	operating temperature	0 60 °C
 during storage -40 +70 °C number of poles manufacturer's article number / of device connector / usable number of the plug contacts / of the electrical connection type of electrical connection / for connecting cable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply number of terminals type of electrical connection / for power supply number of terminals 4; 4 x 1 x L+ width of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length type of connectable conductor cross-sections of frexible conductor / with core end processing of stranded ofinely stranded / with core end processing of finely stranded / with core end processing of without plastic seleeve / acc. to DIN 46228-1 Length 8mm to 9mm 	ambient temperature	
number of poles manufacturer's article number / of device connector / usable number of the plug contacts / of the electrical connection / type of electrical connection / for connecting cable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply push-In terminal number of terminals 4; 4 x 1 x L + width of screwdriver blade product component / required / end cover plate number of cables / per connection \$\$tripped length \$\$tripped length \$\$type of connectable conductor cross-section of for flexible conductor / with core end processing finely stranded / with core end processing of finely stranded / with core end processing \$	 during operation 	0 60 °C
manufacturer's article number / of device connector / usable number of the plug contacts / of the electrical connection type of electrical connection / for connecting cable position / of the terminal type of electrical connection / for power supply number of terminals type of electrical connection / for power supply number of terminals width of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length type of connectable conductor cross-sections of reflexible conductor / with core end processing of finely stranded / without core end processing type of wire end sleeve owithout plastic sleeve / acc. to DIN 46228-1 replacement for S7-1500 40 pole 1 Plug-in connection Plug-in connection 1 Plug-in connection Plug-in connection Plug-in connection 1 Tubelline in internal system So; the IDC connector for the connection cable 20; the IDC connector for the connection cable 20; the IDC connector for the connection cable 3.5 mm No No number of terminal 4; 4 x 1 x L + No No No connectable system: Combination of 1 or 2 Wires until the sum total of cross sections be achieved in a ferrule. 8 mm No 0.25 1.5 mm²; End sleeve according to DIN 46228/1 or DIN 46228/4 with plastic collar max. 0.75 mm2 0.5 1.5 mm² 0.5 1.5 mm²	during storage	-40 +70 °C
usable number of the plug contacts / of the electrical connection type of electrical connection / for connecting cable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply type of electrical connection / for power supply number of terminals width of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length type of connectable conductor cross-sections / solid connectable conductor cross-section of for flexible conductor / with core end processing finely stranded / without core end processing type of wire end sleeve owithout plastic sleeve / acc. to DIN 46228-1 Plug-in connection Plug-in connection Plug-in connection Plug-in connection Plug-in connection plug-in connection	number of poles	40; of the front connector
type of electrical connection / for connecting cable number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply number of terminals 4; 4 x 1 x L+ width of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length type of connectable conductor cross-sections / solid connectable conductor / with core end processing of finely stranded / without core end processing type of wire end sleeve without plastic sleeve / acc. to DIN 46228-1 Plug-in connection Plug-in connecton 90; the IDC connector for the connection cable at the top Push-In terminal At the top Connectable conductor of a to a time the top At a to a time the top At a to a time th		replacement for S7-1500 40 pole
number of poles / at the 1st interface position / of the terminal type of electrical connection / for power supply number of terminals 4; 4 x 1 x L+ width of screwdriver blade product component / required / end cover plate number of cables / per connection number of cables / per connection number of cables / per connection stripped length type of connectable conductor cross-sections / solid connectable conductor / with core end processing • stranded • finely stranded / without core end processing • without plastic sleeve / acc. to DIN 46228-1 st the top Push-In terminal 4; 4 x 1 x L+ No No 2; Connection for internal system: Combination of 1 or 2 Wires until the sum total of cross sections be achieved in a ferrule. 8 mm No 0.25 1.5 mm²; End sleeve according to DIN 46228/1 or DIN 46228/4 with plastic collar max. 0.75 mm2 0.5 1.5 mm² 0.5 1.5 mm²	number of the plug contacts / of the electrical connection	1
position / of the terminal type of electrical connection / for power supply number of terminals 4; 4 x 1 x L+ width of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length type of connectable conductor cross-sections / solid connectable conductor cross-section • for flexible conductor / with core end processing • finely stranded / without core end processing • finely stranded / with core end processing type of wire end sleeve • without plastic sleeve / acc. to DIN 46228-1 at the top Push-In terminal 4; 4 x 1 x L+ No No 2; Connection for internal system: Combination of 1 or 2 Wires until the sum total of cross sections be achieved in a ferrule. 8 mm No 0.25 1.5 mm²; End sleeve according to DIN 46228/1 or DIN 46228/4 with plastic collar max. 0.75 mm2 0.5 1.5 mm² 0.5 1.5 mm²	type of electrical connection / for connecting cable	Plug-in connection
type of electrical connection / for power supply number of terminals 4; 4 x 1 x L+ width of screwdriver blade product component / required / end cover plate number of cables / per connection stripped length type of connectable conductor cross-sections / solid connectable conductor cross-section • for flexible conductor / with core end processing • stranded • finely stranded / without core end processing • finely stranded / with core end processing • without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	number of poles / at the 1st interface	50; the IDC connector for the connection cable
number of terminals 4; 4 x 1 x L+ width of screwdriver blade product component / required / end cover plate No 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. stripped length 8 mm type of connectable conductor cross-sections / solid connectable conductor cross-section • for flexible conductor / with core end processing • stranded • finely stranded / without core end processing • finely stranded / with core end processing vithout plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	position / of the terminal	at the top
width of screwdriver blade product component / required / end cover plate No 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. 8 mm type of connectable conductor cross-sections / solid connectable conductor cross-section • for flexible conductor / with core end processing • stranded • finely stranded / without core end processing • finely stranded / with core end processing type of wire end sleeve • without plastic sleeve / acc. to DIN 46228-1 3.5 mm No 0.25 1.5 mm²; End sleeve according to DIN 46228/1 or DIN 46228/4 with plastic collar max. 0.75 mm2 0.5 1.5 mm² 0.25 1.5 mm² 1.5 mm² 0.25 1.5 mm²	type of electrical connection / for power supply	Push-In terminal
product component / required / end cover plate 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. 8 mm type of connectable conductor cross-sections / solid connectable conductor cross-section • for flexible conductor / with core end processing • stranded • finely stranded / without core end processing • finely stranded / with core end processing • finely stranded / with core end processing • finely stranded / with core end processing • without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	number of terminals	4; 4 x 1 x L+
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. 8 mm type of connectable conductor cross-sections / solid connectable conductor cross-section • for flexible conductor / with core end processing • stranded • stranded / without core end processing • finely stranded / with core end processing • without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	width of screwdriver blade	3.5 mm
stripped length type of connectable conductor cross-sections / solid connectable conductor cross-section of reflexible conductor / with core end processing stranded finely stranded / without core end processing of finely stranded / with core end processing of finely stranded / with core end processing of finely stranded / with core end processing of wire end sleeve of without plastic sleeve / acc. to DIN 46228-1 sum total of cross sections be achieved in a ferrule. 8 mm No 0.25 1.5 mm²; End sleeve according to DIN 46228/1 or DIN 46228/4 with plastic collar max. 0.75 mm2 0.5 1.5 mm² 0.5 1.5 mm² Length 8mm to 9mm	product component / required / end cover plate	No
type of connectable conductor cross-sections / solid connectable conductor cross-section • for flexible conductor / with core end processing • stranded • finely stranded / without core end processing • finely stranded / with core end processing	number of cables / per connection	
connectable conductor cross-section • for flexible conductor / with core end processing • stranded • finely stranded / without core end processing • finely stranded / with core end processing • type of wire end sleeve • without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	stripped length	8 mm
 for flexible conductor / with core end processing stranded finely stranded / without core end processing finely stranded / with core end processing finely stranded / with core end processing finely stranded / with core end processing type of wire end sleeve without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	type of connectable conductor cross-sections / solid	No
with plastic collar max. 0.75 mm2 • stranded • finely stranded / without core end processing • finely stranded / with core end processing • finely stranded / with core end processing • type of wire end sleeve • without plastic sleeve / acc. to DIN 46228-1 with plastic collar max. 0.75 mm2 0.5 1.5 mm² 0.25 1.5 mm² Length 8mm to 9mm	connectable conductor cross-section	
 finely stranded / without core end processing finely stranded / with core end processing type of wire end sleeve without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm 	• for flexible conductor / with core end processing	
◆ finely stranded / with core end processing type of wire end sleeve ◆ without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	• stranded	0.5 1.5 mm²
type of wire end sleeve • without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	 finely stranded / without core end processing 	0.5 1.5 mm²
• without plastic sleeve / acc. to DIN 46228-1 Length 8mm to 9mm	 finely stranded / with core end processing 	0.25 1.5 mm²
	type of wire end sleeve	
• with plastic sleeve / acc. to DIN 46228-4 Length 8mm to 9mm	 without plastic sleeve / acc. to DIN 46228-1 	Length 8mm to 9mm
	 with plastic sleeve / acc. to DIN 46228-4 	Length 8mm to 9mm

outer diameter / of the wire insulation	3.1 mm; to the connection of the supply terminal
	11.2
wire length / maximum	30 m; between front connector module and terminal module
General data / header	
mounting type	direct mounting
degree of pollution	2
overvoltage category	2
design tested acc. to type of protection / EEx e	No
certificate of suitability / cULus approval	Yes
reference code / acc. to IEC 81346-2	X
material / of the insulating body	other
color / of the enclosure	black
product feature / transparent	No
net weight	0.099 kg

last modified:

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