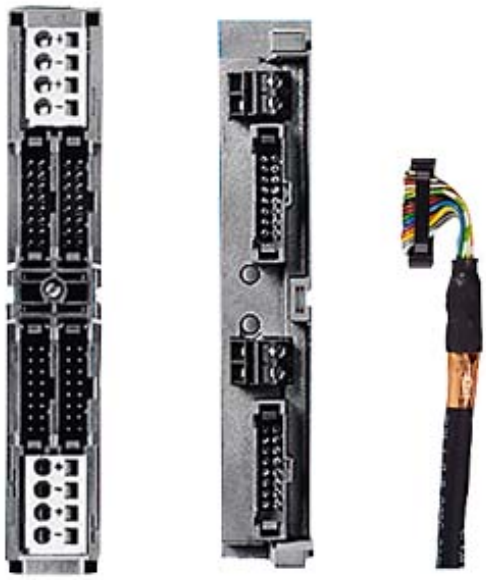
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Data sheet 6ES7921-3AB20-0AA0

FRONT CONNECTOR (DIGITAL 4X8 I/O) S7-300
Front connector module with flat ribbon Cable connection for digital 32 I/O modules of the S7-300, Power supply over Screw terminals



Target system	SIMATIC S7-300
Suitability for use	Digital I/O modules
Product type designation	Fully modular connection
Product designation	Front connector module

Operating data	
Operating voltage	
• at DC / Rated value	24 V
• rated value	60 V
• at DC / maximum	60 V
Current / rated value	1 A
Continuous current / at DC / per plug-in contact / maximum	1 A
Total current / maximum	4 A
Operating temperature	0 ... 60 °C
Ambient temperature	
• during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
Number of poles	40; of the front connector

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Manufacturer's article number / of device connector / usable	replacement for S7-300 40 pole
number of the plug contacts / of the electrical connection	4
Type of electrical connection / for connecting cable	Plug-in connection
Number of poles / at the 1st interface	16; the IDC connector for the connection cable
Position / of the terminal	at the top
Type of electrical connection / for power supply	Screw-type terminal
Number of terminals	8; 4 x 1 x L+, 4 x 1 x M
Width of screwdriver blade	3.5 mm
Tightening torque / with screw-type terminals	0.4 ... 0.7 N·m
Product component / required / connection 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)	6 mm
Type of connectable conductor cross-sections / solid	No
Connectable conductor cross-section	
• for flexible conductor / with core end processing	0.25 ... 0.75 mm²; End sleeve according to DIN 46228 without plastic collar
• stranded	0.25 ... 0.75 mm²
• finely stranded / without core end processing	0.25 ... 0.75 mm²
• finely stranded / with core end processing	0.25 ... 0.75 mm²
Type of wire end sleeve	
• without plastic sleeve / acc. to DIN 46228-1	Length 5mm to 7mm
Outer diameter / of the wire insulation	2 mm; to the connection of the supply terminal
Wire length / maximum	30 m; between front connector module and terminal module

General data	
(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 DIN EN 81346-2	X
Material / of the insulating body	other
Color / of the enclosure	black
Product feature / transparent	No
(net weight)	0.101 kg

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