ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

PHŒNIX CONTACT

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DIN rail housing, Lower housing part with metal foot catch, Level 1: with vents, width: 20 mm, height: 100 mm, depth: 108.35 mm, color: light grey (similar RAL 7035), cross connection: DIN rail connector (optional), number of positions cross connector: 8

Your advantages

- Flexible use, thanks to the modular system and unique modularity in the connection technology
- Standardized connections such as RJ45, USB, D-SUB and antenna sockets as components that can be integrated
- Optimal space utilization, as well as adaptability of design, colors, and printing
- Eight-position DIN rail connectors with parallel and up to two serial contacts for easy module-to-module communication

Commercial data

Item number	2203878
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AC09
Product key	ACHAEB
GTIN	4055626465531
Weight per piece (including packing)	46.35 g
Weight per piece (excluding packing)	36.4 g
Customs tariff number	85389099
Country of origin	DE

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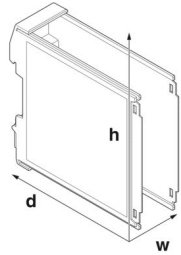
Technical data

Notes

Assembly note	Refer to the data sheet for the range in the download area.
Recommendation	Material of contact pads for bus connector, galvanic gold (hard gold)

Product properties

Product type	Enclosure bottom part
Housing type	DIN rail housing
Housing series	ICS
Product family	ICS20-..100X..
Max. number of positions	24 (pitch: 3.5 mm)
	18 (pitch: 5 mm)
Number of rows	4
Type	Lower housing part with metal foot catch
Ventilation openings present	yes

Dimensions

Dimensional drawing	
Width	20 mm
Height	100 mm
Depth	108.35 mm
Depth from top edge of DIN rail to support point on upper part	98.15 mm
Dimensions	20 mm x 100 mm x 110 mm (Lower housing part from the top edge of the DIN rail with upper housing part)
	20 mm x 100 mm x 116.7 mm (Lower housing part with upper housing part)

PCB design

PCB thickness	1.4 mm ... 1.8 mm

Material specifications

Color (Housing)	light grey (RAL 7035)
Flammability rating according to UL 94	V0
CTI according to IEC 60112	600
Housing material	Polyamide
Surface characteristics	untreated

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Environmental and real-life conditions

Power dissipation single housing for 20 °C

Ambient temperature	20 °C
Reduction factor	1
Mounting position	vertical
Power dissipation	16 W

Power dissipation single housing for 30 °C

Ambient temperature	30 °C
Reduction factor	0.84
Mounting position	vertical
Power dissipation	13.5 W

Power dissipation single housing for 40 °C

Ambient temperature	40 °C
Reduction factor	0.69
Mounting position	vertical
Power dissipation	11 W

Power dissipation single housing for 50 °C

Ambient temperature	50 °C
Reduction factor	0.55
Mounting position	vertical
Power dissipation	8.85 W

Power dissipation single housing for 60 °C

Ambient temperature	60 °C
Reduction factor	0.4
Mounting position	vertical
Power dissipation	6.5 W

Power dissipation single housing for 70 °C

Ambient temperature	70 °C
Reduction factor	0.3
Mounting position	vertical
Power dissipation	5 W

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.15 mm (10 Hz ... 58.1 Hz)
Acceleration	2g (58.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Glow-wire test

Specification	IEC 60695-2-11:2014-02
Temperature	850 °C
Time of exposure	30 s

Thermal stability / ball thrust test

Specification	IEC 60695-10-2:2014-02
Temperature	125 °C
Test duration	1 h
Force	20 N

Mechanical strength / tumbling barrel

Specification	IEC 60068-2-31:2008-05
Height of fall	50 cm
Frequency	50

Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	15g
Shock duration	11 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

Test for substances that would hinder coating with paint or varnish

Specification	VDMA 24364:2018-05
Result	Test passed

Degree of protection (IP code)

Specification	IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08
Result, degree of protection, IP code	IP20

Ambient conditions

Max. IP code to attain	IP20
Ambient temperature (operation)	-40 °C ... 105 °C (depending on power dissipation)
Ambient temperature (storage/transport)	-40 °C ... 55 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Relative humidity (storage/transport)	80 %

PCB data

Number of PCB holders	2
Type of PCB mount	Latching
Thickness of the PCB	1.4 mm ... 1.8 mm

Mounting

Mounting type	DIN rail mounting

Mounting position	Vertical (horizontal DIN rail)

Packaging specifications

Type of packaging	packed in cardboard
Outer packaging type	Carton

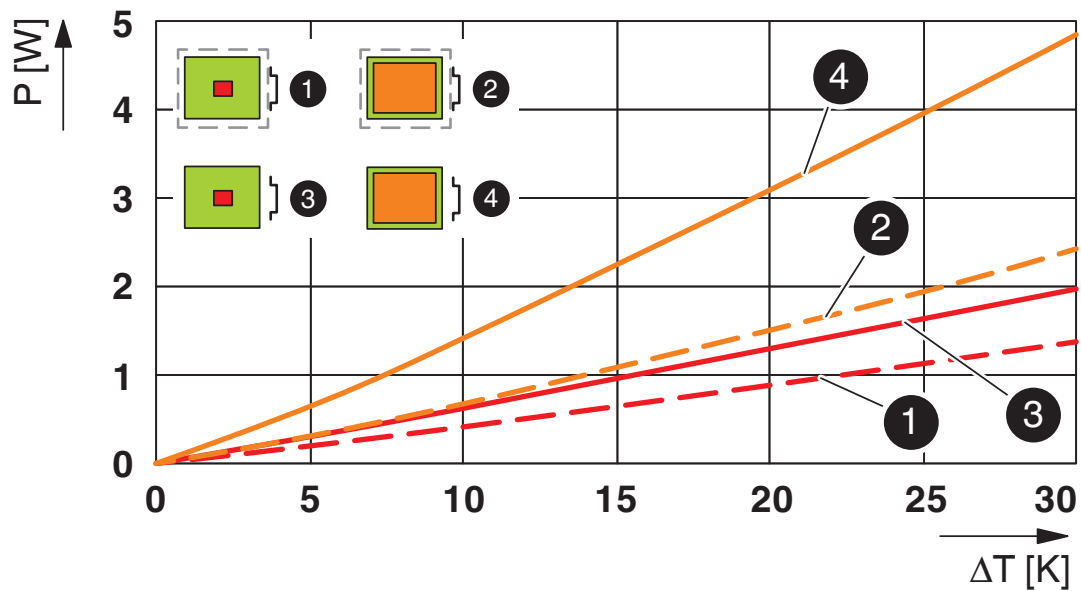## Drawings
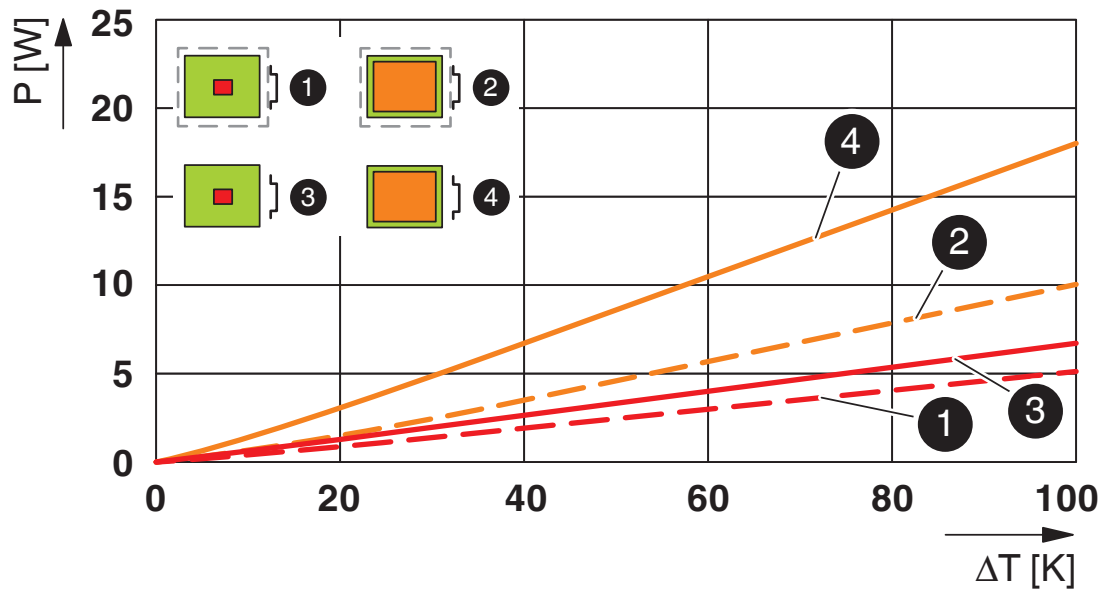
Power dissipation diagram for 0 K ... 100 K
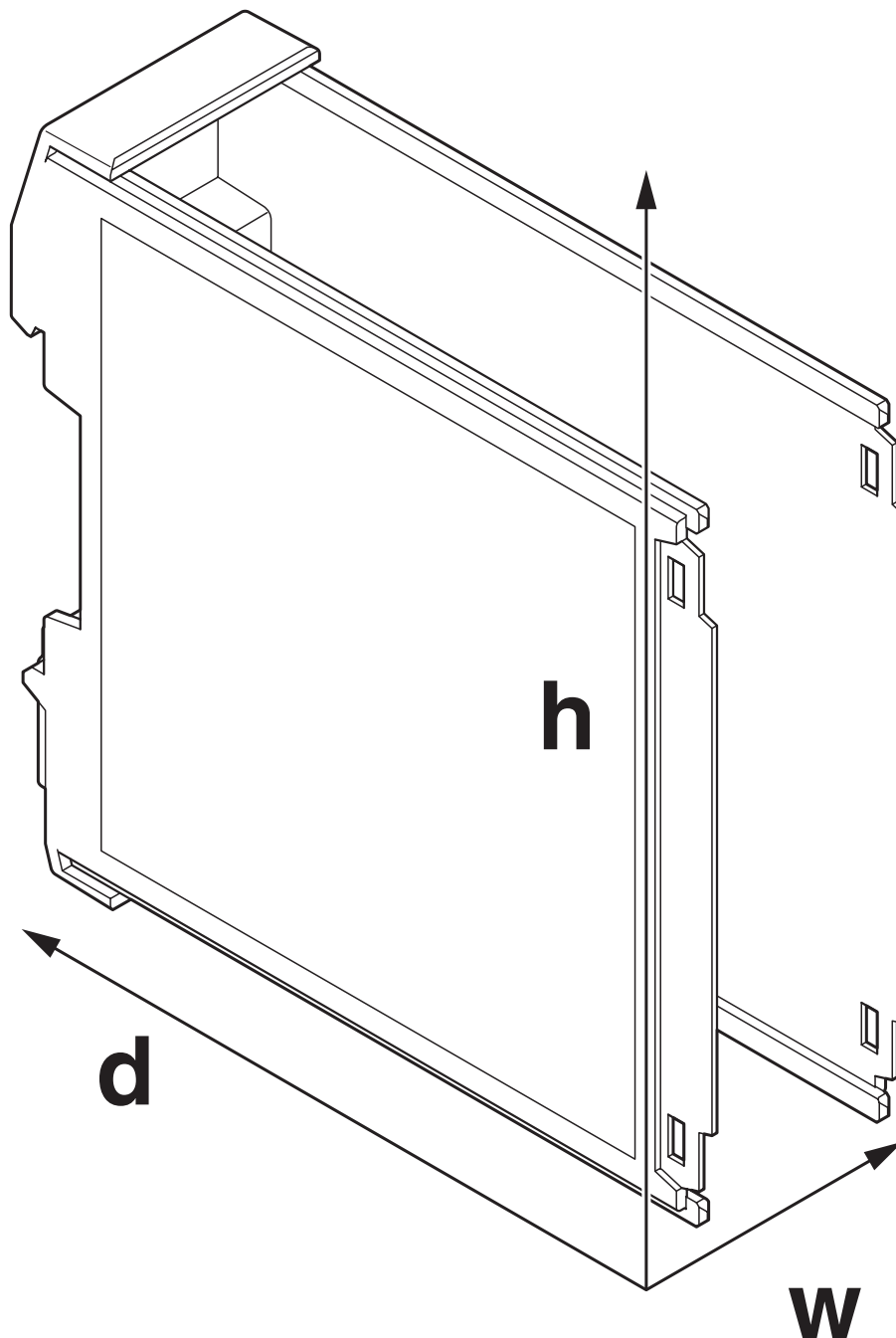

Power dissipation diagram for 0 K ... 30 K

ICS20-B100X98-V-7035 - Mounting base housing

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https://www.phoenixcontact.com/us/products/2203878

Dimensional drawing

Schematic figure for illustrating the item dimensions. The figure is not of the desired product. For further details, refer to the product drawings in the "Downloads" tab.

Classifications

ECLASS

ECLASS-11.0	27182702
ECLASS-13.0	27190601

ETIM

ETIM 9.0	EC002779

UNSPSC

UNSPSC 21.0	31261500

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

ICS20-B100X98-V-7035 - Mounting base housing

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Mandatory accessories

ICS20-C100X12-7035 - Upper housing part

2203879

https://www.phoenixcontact.com/us/products/2203879

DIN rail housing, Upper part, closed, width: 20 mm, height: 100 mm, depth: 14.
35 mm, color: light grey (similar RAL 7035)

ICS20-TL100X12-7035 - Upper housing part

2203880

https://www.phoenixcontact.com/us/products/2203880

DIN rail housing, Upper part, with transparent hinged cover, width: 20 mm,
height: 101 mm, depth: 14.35 mm, color: light grey (similar RAL 7035)

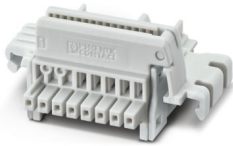## Accessories

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

TBUS8-20,0-PPPPPPPP-7035 - DIN rail bus connectors

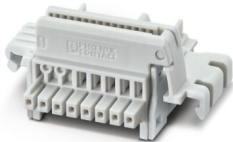2202889

https://www.phoenixcontact.com/us/products/2202889

DIN rail connector, color: light grey, nominal current: 6 A (parallel contacts), rated voltage (III/2): 32 V, number of positions: 8, product range: TBUS8-20.., pitch: 2.54 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 8 parallel contacts

TBUS8-20,0-PPPPPPPS-7035 - DIN rail bus connectors

2202894

https://www.phoenixcontact.com/us/products/2202894

DIN rail connector, color: light grey, nominal current: 6 A, 4 A (parallel contacts) (Serial contacts), rated voltage (III/2): 32 V, number of positions: 8, product range: TBUS8-20.., pitch: 2.54 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 7 parallel contacts/1 serial contact
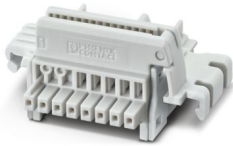
ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

TBUS8-20,0-PPPPPPSS-7035 - DIN rail bus connectors

2202892

https://www.phoenixcontact.com/us/products/2202892

DIN rail connector, color: light grey, nominal current: 6 A, 4 A (parallel contacts) (Serial contacts), rated voltage (III/2): 32 V, number of positions: 8, product range: TBUS8-20.., pitch: 2.54 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 6 parallel contacts/2 serial contacts

ICS20-F45S-7035 - Connection plate

2203889

https://www.phoenixcontact.com/us/products/2203889

DIN rail housing, ICS filler, closed, width: 20 mm, height: 7.25 mm, depth: 44.9 mm, color: light grey (similar RAL 7035)

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICC20-H/3L5,0-7035 - PCB header

2203900

https://www.phoenixcontact.com/us/products/2203900

PCB headers, nominal cross section: 2.5 mm^2, color: light grey, nominal current: 16 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: ICC..-H/..L5,0, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: without, type of packaging: Box packaging, Product with pin output on left side

ICC20-H/3R5,0-7035 - PCB header

2203901

https://www.phoenixcontact.com/us/products/2203901

PCB headers, nominal cross section: 2.5 mm^2, color: light grey, nominal current: 16 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: ICC..-H/..R5,0, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: without, type of packaging: Box packaging, Product with pin output on right side

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICC20-H/4L3,5-7035 - PCB header

1084014

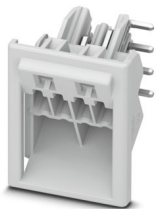https://www.phoenixcontact.com/us/products/1084014

PCB headers, color: light grey, nominal current: 8 A, rated voltage (III/2): 150 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: ICC..-H/..L3,5, pitch: 3.5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.65 mm, number of solder pins per potential: 1, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: without, type of packaging: Box packaging, Product with pin output on left side

ICC20-H/4R3,5-7035 - PCB header

1084012

https://www.phoenixcontact.com/us/products/1084012

PCB headers, color: light grey, nominal current: 8 A, rated voltage (III/2): 150 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: ICC..-H/..R3,5, pitch: 3.5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.65 mm, number of solder pins per potential: 1, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: without, type of packaging: Box packaging, Product with pin output on right side

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICS20-F22S-7035 - Connection plate

2203888

https://www.phoenixcontact.com/us/products/2203888

DIN rail housing, ICS filler, closed, width: 20 mm, height: 7.25 mm, depth: 22.4 mm, color: light grey (similar RAL 7035)

ICS20-F67S-7035 - Connection plate

1287461

https://www.phoenixcontact.com/us/products/1287461

DIN rail housing, ICS filler, closed, width: 20 mm, height: 7.25 mm, depth: 67.3 mm, color: light grey (similar RAL 7035)

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICS20-F22V-7035 - Connection plate

1079494

https://www.phoenixcontact.com/us/products/1079494

DIN rail housing, ICS filler, with vents, width: 20 mm, height: 7.25 mm, depth: 22.4 mm, color: light grey (similar RAL 7035)

ICS20-F45V-7035 - Connection plate

1079493

https://www.phoenixcontact.com/us/products/1079493

DIN rail housing, ICS filler, with vents, width: 20 mm, height: 7.25 mm, depth: 44.9 mm, color: light grey (similar RAL 7035)

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICS20-F22U-7035 - Connection plate

1053051

https://www.phoenixcontact.com/us/products/1053051

DIN rail housing, ICS filler, with USB function cutout, width: 20 mm, height: 7.25 mm, depth: 22.4 mm, color: light grey (similar RAL 7035)

ICS20-F22A-7035 - Connection plate

2203892

https://www.phoenixcontact.com/us/products/2203892

DIN rail housing, ICS filler, with antenna function cutout, width: 20 mm, height: 7. 25 mm, depth: 22.4 mm, color: light grey (similar RAL 7035)

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICS20-F90S-7035 - Connection plate

1287452

https://www.phoenixcontact.com/us/products/1287452

DIN rail housing, ICS filler, closed, width: 20 mm, height: 7.25 mm, depth: 89.8 mm, color: light grey (similar RAL 7035)

ICS20-F67V-7035 - Connection plate

1287448

https://www.phoenixcontact.com/us/products/1287448

DIN rail housing, ICS filler, with vents, width: 20 mm, height: 7.25 mm, depth: 67.3 mm, color: light grey (similar RAL 7035)

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICS20-F90V-7035 - Connection plate

1287441

https://www.phoenixcontact.com/us/products/1287441

DIN rail housing, ICS filler, with vents, width: 20 mm, height: 7.25 mm, depth: 89.8 mm, color: light grey (similar RAL 7035)

ICS20-F22A6-7035 - Connection plate

1287371

https://www.phoenixcontact.com/us/products/1287371

DIN rail housing, ICS filler, with antenna function cutout, width: 20 mm, height: 7.25 mm, depth: 22.4 mm, color: light grey (similar RAL 7035)

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICS20-F45D15-7035 - Connection plate

2203893

https://www.phoenixcontact.com/us/products/2203893

DIN rail housing, ICS filler, with D-SUB 15 function cutout, width: 20 mm, height: 7.25 mm, depth: 44.9 mm, color: light grey (similar RAL 7035)

ICS-FE-CONTACT - Functional ground contact

2203904

https://www.phoenixcontact.com/us/products/2203904

Functional ground contact, for ICS series electronics housings

ICS20-B100X98-V-7035 - Mounting base housing

2203878

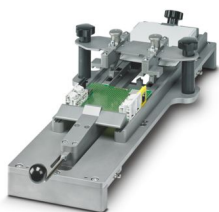https://www.phoenixcontact.com/us/products/2203878

ICS MOUNTING DEVICE - Assembly tool

1118354

https://www.phoenixcontact.com/us/products/1118354

Equipment for fast, serial-production attachment of printed circuit boards in ICS 20 and ICS 25 housings

TBUS8-20-BRIDGE-7035 - DIN rail bus connectors

1387011

https://www.phoenixcontact.com/us/products/1387011

DIN rail bus adapter for ICS, overall width: 20 mm, 8 parallel positions, color: light grey (similar to RAL 7035)
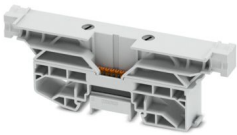
ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

TBUS8-SPL-KIT-7035 - DIN rail bus connectors

1488805

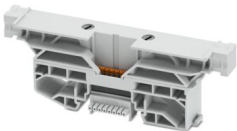https://www.phoenixcontact.com/us/products/1488805

DIN rail connector, nominal cross section: 0.5 mm^2, nominal current: 6 A (parallel contacts), rated voltage (III/2): 32 V, contact surface: Gold, contact connection type: Socket, number of potentials: 8, number of positions: 8, number of connections: 8, product range: TBUS8..2,54, pitch: 2.54 mm, connection method: Push-in spring connection, mounting: DIN rail mounting, conductor/PCB connection direction: 0 °, locking: Snap-in locking, mounting: without, type of packaging: packed in cardboard

TBUS8-TAP-KIT-7035 - DIN rail bus connectors

1488806

https://www.phoenixcontact.com/us/products/1488806

DIN rail connector, nominal cross section: 0.5 mm^2, nominal current: 6 A (parallel contacts), rated voltage (III/2): 32 V, contact surface: Gold, contact connection type: Socket, number of potentials: 8, number of positions: 8, number of connections: 8, product range: TBUS8..2,54, pitch: 2.54 mm, connection method: Push-in spring connection, mounting: DIN rail mounting, conductor/PCB connection direction: 0 °, locking: Snap-in locking, mounting: without, type of packaging: packed in cardboard

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICC20-TS2,5/3R5,0-7035 - PCB terminal block

1380146

https://www.phoenixcontact.com/us/products/1380146

PCB terminal block, nominal current: 24 A, rated voltage (III/2): 300 V, nominal cross section: 2.5 mm^2, number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: ICC..-TS2,5/..R5,0, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: H1L Slotted Phillips recess, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, Pin layout: Linear pinning, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on right side

ICC20-TS1,5/4L3,5-7035 - PCB terminal block

1380291

https://www.phoenixcontact.com/us/products/1380291

PCB terminal block, nominal current: 16 A, rated voltage (III/2): 150 V, nominal cross section: 1.5 mm^2, number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: ICC..-TS1,5/..L3,5, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, Pin layout: Linear pinning, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on left side

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICC20-TS1,5/4R3,5-7035 - PCB terminal block

1380292

https://www.phoenixcontact.com/us/products/1380292

PCB terminal block, nominal current: 16 A, rated voltage (III/2): 150 V, nominal cross section: 1.5 mm^2, number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: ICC..-TS1,5/..R3,5, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, Pin layout: Linear pinning, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on right side

ICC20-TS2,5/3L5,0-7035 - PCB terminal block

1380485

https://www.phoenixcontact.com/us/products/1380485

PCB terminal block, nominal current: 24 A, rated voltage (III/2): 300 V, nominal cross section: 2.5 mm^2, number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: ICC..-TS2,5/..L5,0, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: H1L Slotted Phillips recess, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, Pin layout: Linear pinning, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on left side

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICC20-TP2,5/3R5,0-7035 - PCB terminal block

1474477

https://www.phoenixcontact.com/us/products/1474477

PCB terminal block, nominal current: 18 A, rated voltage (III/2): 300 V, nominal cross section: 2.5 mm^2, number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: ICC..-TP2,5/..R5,0, pitch: 5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, Pin layout: Linear pinning, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on right side

ICC20-TP1,5/4L3,5-7035 - PCB terminal block

1474478

https://www.phoenixcontact.com/us/products/1474478

PCB terminal block, nominal current: 8 A, rated voltage (III/2): 150 V, nominal cross section: 1.5 mm^2, number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: ICC..-TP1,5/..L3,5, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, Pin layout: Linear pinning, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on left side

ICS20-B100X98-V-7035 - Mounting base housing

2203878

https://www.phoenixcontact.com/us/products/2203878

ICC20-TP1,5/4R3,5-7035 - PCB terminal block

1474479

https://www.phoenixcontact.com/us/products/1474479

PCB terminal block, nominal current: 8 A, rated voltage (III/2): 150 V, nominal cross section: 1.5 mm^2, number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: ICC..-TP1,5/..R3,5, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, Pin layout: Linear pinning, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on right side

ICC20-TP2,5/3L5,0-7035 - PCB terminal block

1474500

https://www.phoenixcontact.com/us/products/1474500

PCB terminal block, nominal current: 18 A, rated voltage (III/2): 300 V, nominal cross section: 2.5 mm^2, number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: ICC..-TP2,5/..L5,0, pitch: 5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, Pin layout: Linear pinning, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on left side