

HC-M-20-CT-M - Contact insert module



1414372

<https://www.phoenixcontact.com/us/products/1414372>

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Contact insert module, number of positions: 20, power contacts: 20, control contacts: 0, Pin, Crimp connection, 690 V, 16 A, 0.5 mm² ... 4 mm², application: Power

Commercial data

Item number	1414372
Packing unit	2 pc
Minimum order quantity	2 pc
Sales key	BF62
Product key	BF7ACE
Catalog page	Page 579 (C-2-2019)
GTIN	4055626025254
Weight per piece (including packing)	19.35 g
Weight per piece (excluding packing)	19.3 g
Customs tariff number	85389099
Country of origin	PL

HC-M-20-CT-M - Contact insert module



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Technical data

Notes

General	For HEAVYCON housing type B6 to B48, HC-M-B...MF-... hinged module carrier frame required, CK2,5-ED... imp contacts, crimp contacts not supplied as standard.
General	Connectors may be operated only when there is no load/voltage.

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
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Product properties

Product type	Modular contact insert
Series	HC-M-20
Application	Power
Number of positions	20
Connection profile	20
Contact numbering	1 - 20
Number of module slots	2
No. of power contacts	20
No. of control contacts	0
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

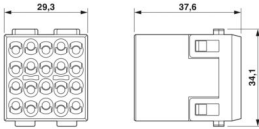
Connection technology

Connection technology	Crimp connection
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Conductor connection

Conductor cross section	0.5 mm² ... 4 mm²
Connection cross section AWG	20 ... 12
Stripping length of the individual wire	7.5 mm

Dimensions

Dimensional drawing	
Width	34.2 mm
Height	37.6 mm

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Length	29.4 mm
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Mechanical characteristics

Contact diameter	2.5 mm
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Electrical properties

Rated voltage (III/3)	690 V
Rated surge voltage	6 kV
Rated current	16 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500
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Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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Standards and regulations

Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
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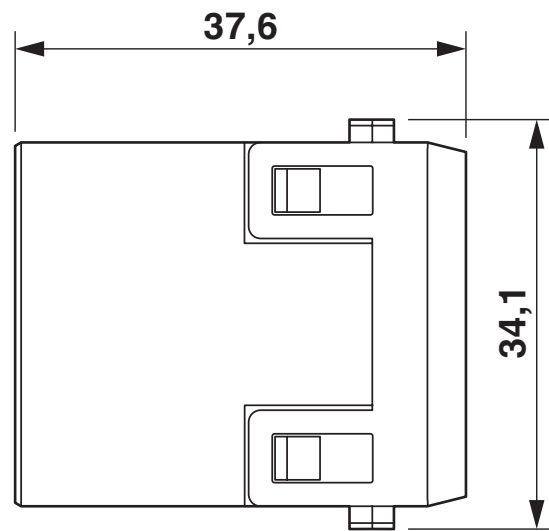
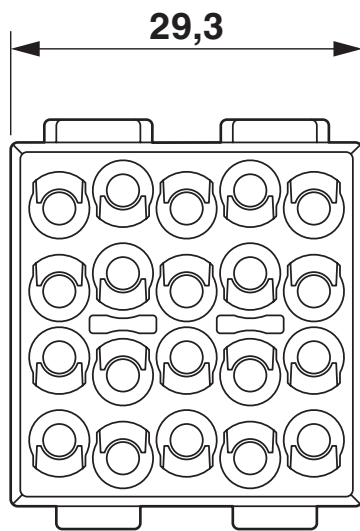


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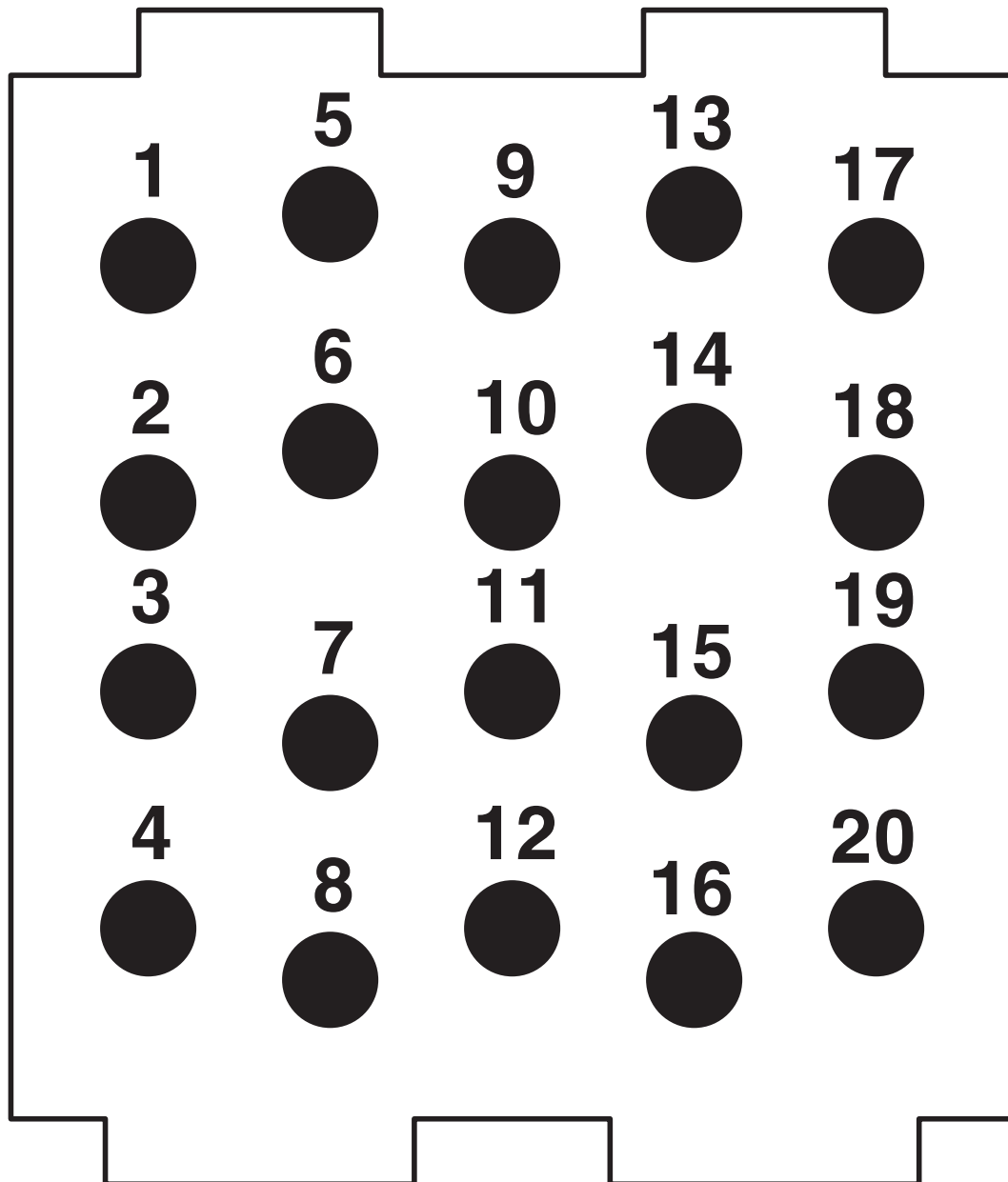
Drawings

Dimensional drawing



Male insert

Schematic diagram



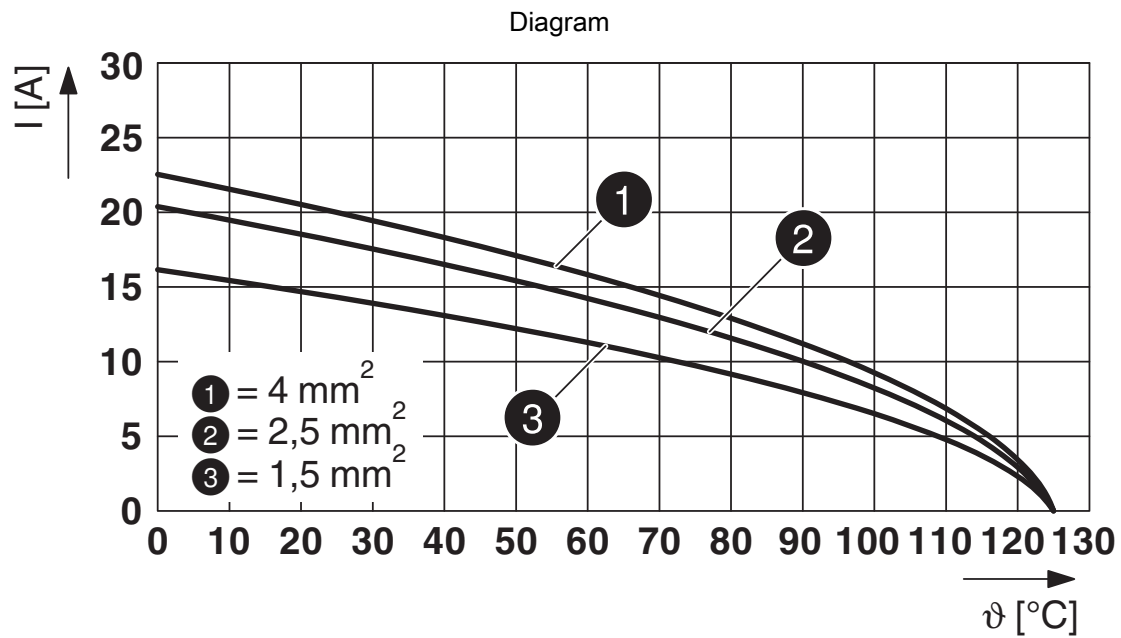
Connector pin assignment, connection side

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Derating diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414372>

DNV

Approval ID: TAE000037S



CSA

Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	14 A	- 12	-



UL Recognized

Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	17.5 A	- 12	-



EAC

Approval ID: RU C-DE.BL08.B.00511



UL Recognized

Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	17.5 A	-	-

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Classifications

ECLASS

ECLASS-11.0	27440217
ECLASS-12.0	27440217
ECLASS-13.0	27440217

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121400
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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%

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Accessories

HC-CBU-MOD - Coding element

1636130

<https://www.phoenixcontact.com/us/products/1636130>



Coding socket for coding up to 16 connectors, for HC Modular

HC-CST-MOD - Coding element

1636127

<https://www.phoenixcontact.com/us/products/1636127>



Coding peg for coding up to 16 connectors, for HC Modular

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HC-M-MHR-PE16 - Cable lug

1636981

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Cable lug for HEAVYCON-MODULAR; PE connection extension to 16 mm², for crimping with crimp pliers

CK2,5-ED-0,50ST AG - Crimp contact

1663572

<https://www.phoenixcontact.com/us/products/1663572>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

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CK2,5-ED-0,75ST AG - Crimp contact

1663585

<https://www.phoenixcontact.com/us/products/1663585>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm² ... 0.75 mm², AWG 18

CK2,5-ED-1,00ST AG - Crimp contact

1663598

<https://www.phoenixcontact.com/us/products/1663598>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm² ... 1 mm², AWG 18

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CK2,5-ED-1,50ST AG - Crimp contact

1663608

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

CK2,5-ED-2,50ST AG - Crimp contact

1663611

<https://www.phoenixcontact.com/us/products/1663611>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

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CK2,5-ED-3,00ST AG - Crimp contact

1663624

<https://www.phoenixcontact.com/us/products/1663624>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 3 mm² ... 3 mm², AWG 12

CK2,5-ED-4,00ST AG - Crimp contact

1663637

<https://www.phoenixcontact.com/us/products/1663637>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

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CK2,5-ED-0,50M AG - Crimp contact

1273667

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

CK2,5-ED-0,75M AG - Crimp contact

1273666

<https://www.phoenixcontact.com/us/products/1273666>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.75 mm² ... 0.75 mm², AWG 18

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CK2,5-ED-1,00M AG - Crimp contact

1273665

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

CK2,5-ED-1,50M AG - Crimp contact

1273664

<https://www.phoenixcontact.com/us/products/1273664>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

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CK2,5-ED-2,50M AG - Crimp contact

1273663

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

CK2,5-ED-3,00M AG - Crimp contact

1273648

<https://www.phoenixcontact.com/us/products/1273648>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 3 mm² ... 3 mm², AWG 12

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CK2,5-ED-4,00M AG - Crimp contact

1273620

<https://www.phoenixcontact.com/us/products/1273620>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

CK2,5-ED-0,37ST AU - Crimp contact

1585663

<https://www.phoenixcontact.com/us/products/1585663>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm² ... 0.37 mm², AWG 22 ... 26

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CK2,5-ED-0,50ST AU - Crimp contact

1674804

<https://www.phoenixcontact.com/us/products/1674804>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

CK2,5-ED-1,00ST AU - Crimp contact

1674781

<https://www.phoenixcontact.com/us/products/1674781>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.75 mm² ... 1 mm², AWG 18

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CK2,5-ED-1,50ST AU - Crimp contact

1674778

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

CK2,5-ED-2,50ST AU - Crimp contact

1674817

<https://www.phoenixcontact.com/us/products/1674817>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

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CK2,5-ED-4,00ST AU - Crimp contact

1674794

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

CK2,5-ED-0,37M AU - Crimp contact

1273603

<https://www.phoenixcontact.com/us/products/1273603>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 0.14 mm² ... 0.37 mm², AWG 22 ... 26

HC-M-20-CT-M - Contact insert module



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CK2,5-ED-0,50M AU - Crimp contact

1273601

<https://www.phoenixcontact.com/us/products/1273601>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

CK2,5-ED-1,00M AU - Crimp contact

1273582

<https://www.phoenixcontact.com/us/products/1273582>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

HC-M-20-CT-M - Contact insert module



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CK2,5-ED-1,50M AU - Crimp contact

1273581

<https://www.phoenixcontact.com/us/products/1273581>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

CK2,5-ED-2,50M AU - Crimp contact

1273572

<https://www.phoenixcontact.com/us/products/1273572>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

HC-M-20-CT-M - Contact insert module

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CK2,5-ED-4,00M AU - Crimp contact

1273568

<https://www.phoenixcontact.com/us/products/1273568>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

HC-M-B06-MFH-B - Module carrier frame

1182085

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Module carrier frame, size: B6, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame

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HC-M-B10-MFH-B - Module carrier frame

1182088

<https://www.phoenixcontact.com/us/products/1182088>



Module carrier frame, size: B10, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame

HC-M-B16-MFH-B - Module carrier frame

1182090

<https://www.phoenixcontact.com/us/products/1182090>



Module carrier frame, size: B16, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame

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HC-M-B24-MFH-B - Module carrier frame

1182094

<https://www.phoenixcontact.com/us/products/1182094>

Module carrier frame, size: B24, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame



HC-M-B06-MFH-H - Module carrier frame

1182087

<https://www.phoenixcontact.com/us/products/1182087>

Module carrier frame, size: B6, type : for the sleeve side (A, B, C, ...), 4 mm² ... 6 mm², application: Module carrier frame



HC-M-20-CT-M - Contact insert module

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HC-M-B10-MFH-H - Module carrier frame

1182089

<https://www.phoenixcontact.com/us/products/1182089>

Module carrier frame, size: B10, type : for the sleeve side (A, B, C, ...), 4 mm² ...
6 mm², application: Module carrier frame



HC-M-B16-MFH-H - Module carrier frame

1182093

<https://www.phoenixcontact.com/us/products/1182093>

Module carrier frame, size: B16, type : for the sleeve side (A, B, C, ...), 4 mm² ...
6 mm², application: Module carrier frame



HC-M-20-CT-M - Contact insert module

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HC-M-B24-MFH-H - Module carrier frame

1182095

<https://www.phoenixcontact.com/us/products/1182095>

Module carrier frame, size: B24, type : for the sleeve side (A, B, C, ...), 4 mm² ... 6 mm², application: Module carrier frame



HC-M-20-CT-F - Contact insert module

1414373

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Contact insert module, number of positions: 20, power contacts: 20, control contacts: 0, Socket, Crimp connection, 690 V, 16 A, 0.5 mm² ... 4 mm², application: Power



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UNIFOX RT-CK 2.5 - Contact removal tool

1072067

<https://www.phoenixcontact.com/us/products/1072067>

Contact removal tool, for turned CK 2,5... contacts



UNIFOX MT-CK 1.6/2.5 - Assembly tool

1089092

<https://www.phoenixcontact.com/us/products/1089092>

Assembly tool, for CK 1.6... crimp contacts for small conductor cross sections



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