

HC-M-05L-TPT-F - Contact insert module



1423962

<https://www.phoenixcontact.com/us/products/1423962>

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Contact insert module, number of positions: 5, power contacts: 5, control contacts: 0, number of connections per position: 2, Socket, Push-in connection, 230 V/400 V, 16 A, 0.25 mm² ... 1.5 mm², application: Power

Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373
- Double conductor connection per pos.

Commercial data

Item number	1423962
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	BF7ACE
Catalog page	Page 577 (C-2-2019)
GTIN	4055626365817
Weight per piece (including packing)	19.1 g
Weight per piece (excluding packing)	18 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Notes

General	Use only flexible conductors with ferrule (in conjunction with CRIMPFOX 6 only)
General	Connectors may be operated only when there is no load/voltage.
General	For HEAVYCON housing type B6 to B48, HC-M-B...MF-... hinged module carrier frame required.

Mounting

Assembly instructions	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-05-T
Application	Power
Number of positions	5
Connection profile	5
Contact numbering	1 - 5
Number of connections per position	2
Number of module slots	1
No. of power contacts	5
No. of control contacts	0
Contact material type	rolled

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

Connection technology

Connection technology	Push-in connection
Number of connections per position	2

Conductor connection

Conductor cross section	0.25 mm ² ... 1.5 mm ²
Connection cross section AWG	24 ... 16
Stripping length of the individual wire	8 mm ±1 mm

Dimensions

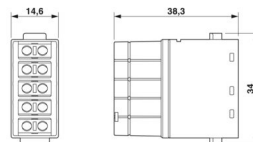
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Dimensional drawing



Width	34 mm
Height	38 mm
Length	14.6 mm

Mechanical characteristics

Contact diameter	2.5 mm
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Electrical properties

Rated voltage (III/3)	230 V (Conductor-PE)
	400 V (Conductor-Conductor)
Rated voltage for power contacts	230/400 V
Rated surge voltage	4 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
Contact carrier material	PA
Standards/regulations	PA: 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

Constructional and testing regulations	DIN EN 61984
	DIN EN 60664
Tests	DIN EN 61984
	DIN EN 60664

Testing

Standards/regulations	PA: 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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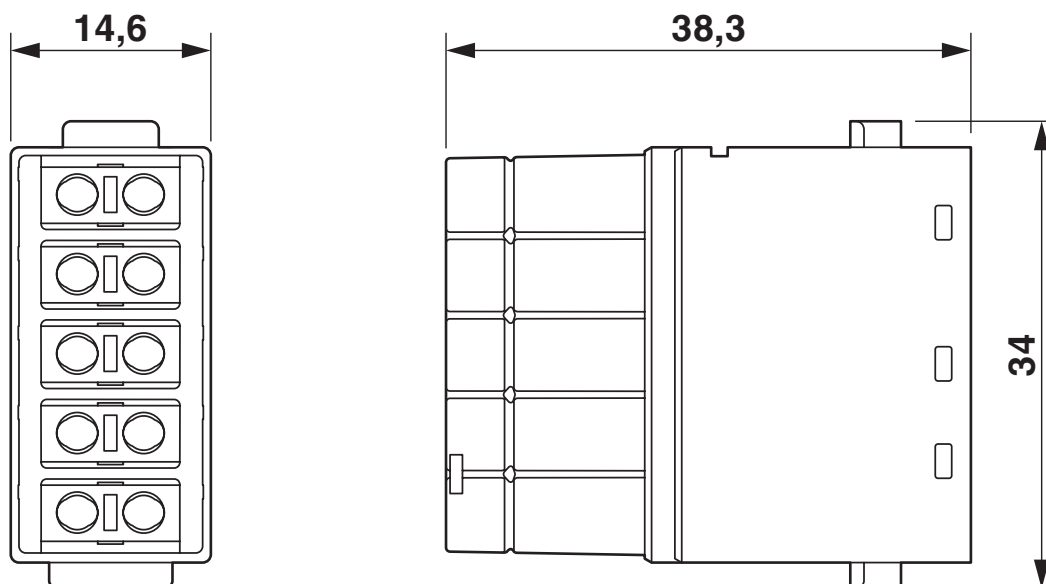
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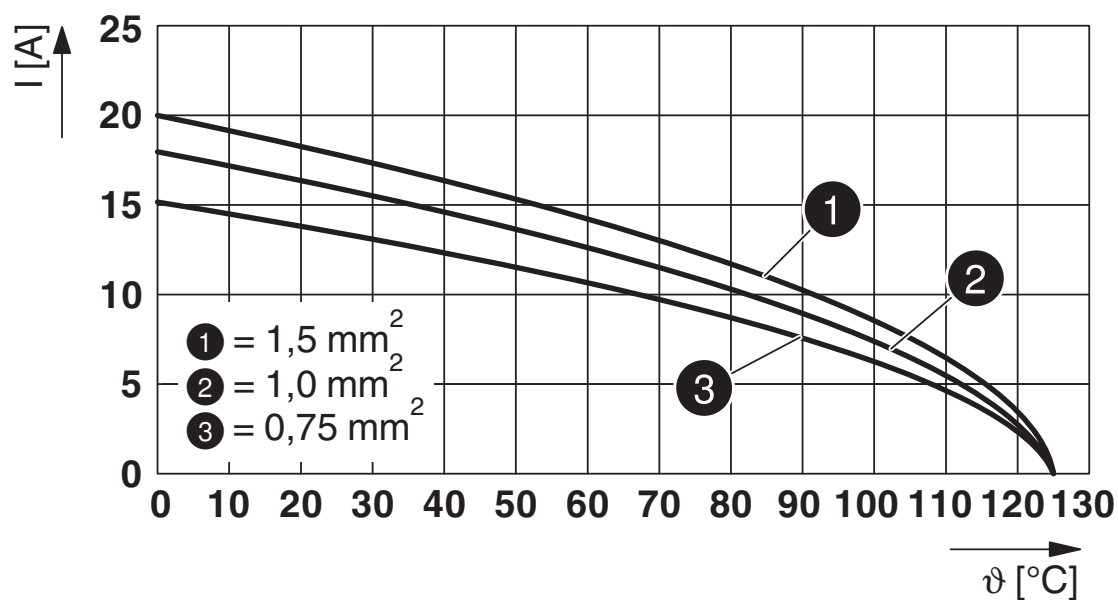
Drawings

Dimensional drawing



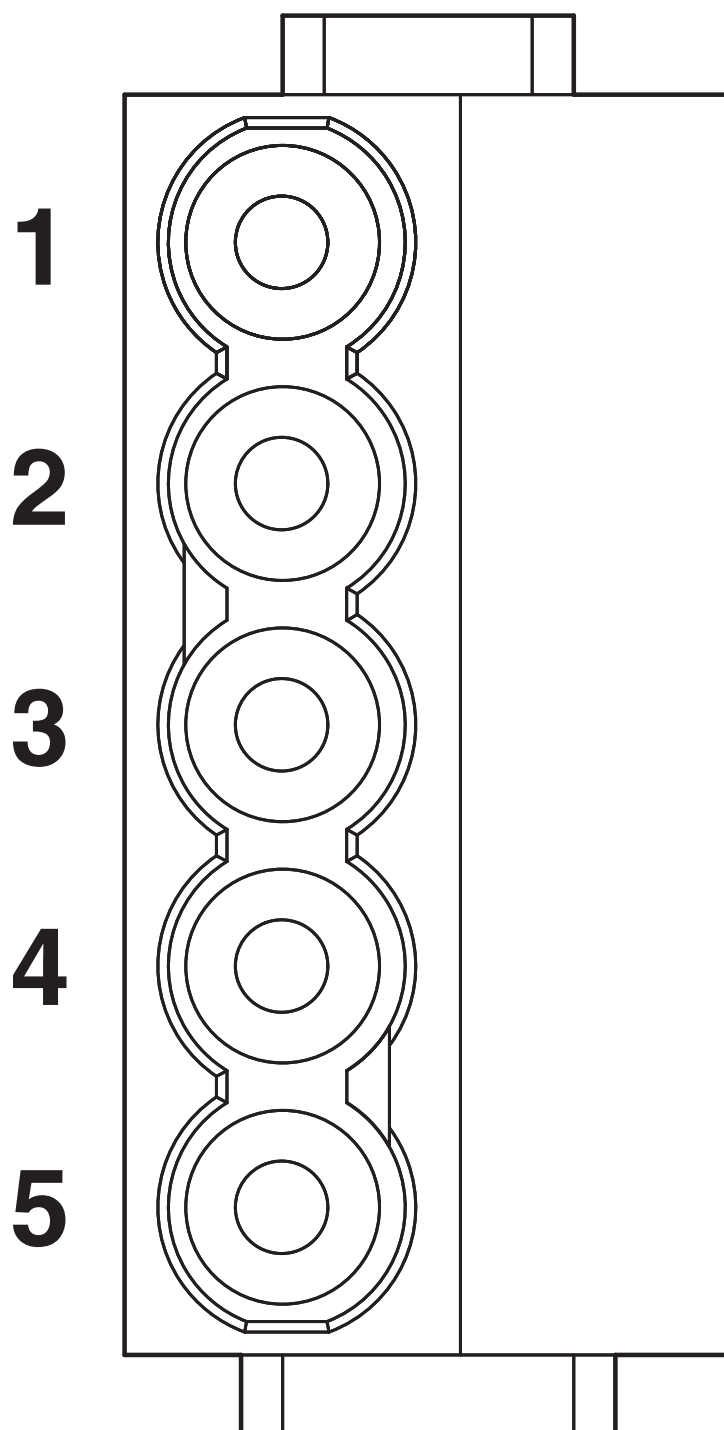
Dimensional drawing

Diagram



Derating diagram

Schematic diagram



Connector pin assignment, connection side

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1423962>

 UL Recognized Approval ID: E468743				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	16 A	-	-

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	12 A	- 16	-

 UL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	16 A	-	-

 EAC Approval ID: RU C-DE.BL08.B.00511				
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 VDE Zeichengenehmigung Approval ID: 40050148				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	400 V	10 A	-	0.25 - 2.5

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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

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

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

1182085

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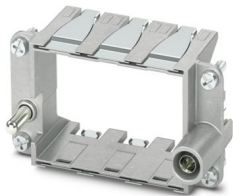


Module carrier frame, size: B6, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame

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

1182088

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

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

1182090

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



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

1182094

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



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

1182087

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

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

1182089

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

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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-B24-MFH-H - Module carrier frame

1182095

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



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HC-M-05L-TPT-M - Contact insert module

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Contact insert module, number of positions: 5, power contacts: 5, control contacts: 0, number of connections per position: 2, Pin, Push-in connection, 230 V/400 V, 16 A, 0.25 mm² ... 1.5 mm², application: Power

CF CRIMPHANDY 0,5 - Electrical crimping tool

1212463

<https://www.phoenixcontact.com/us/products/1212463>



Mobile handheld device, battery-powered, for processing on-tape ferrules 0.5 mm² with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 0.5 mm², packed in a robust case.

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CF CRIMPHANDY 0,75 - Electrical crimping tool

1212464

<https://www.phoenixcontact.com/us/products/1212464>



Mobile handheld device, battery-powered, for processing on-tape ferrules 0.75 mm² with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 0.75 mm², packed in a robust case.

CF CRIMPHANDY 1,0 - Electrical crimping tool

1212465

<https://www.phoenixcontact.com/us/products/1212465>



Mobile handheld device, battery-powered, for processing on-tape ferrules 1.0 mm² with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 1.0 mm², packed in a robust case.

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CF CRIMPHANDY 1,5 - Electrical crimping tool

1212466

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Mobile handheld device, battery-powered, for processing on-tape ferrules 1.5 mm² with functional end, suitable for PVC insulated conductors (H07V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 1.5 mm², packed in a robust case.

CRIMPFOX 6 - Crimping pliers

1212034

<https://www.phoenixcontact.com/us/products/1212034>



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

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CRIMPFOX CENTRUS 10S - Crimping pliers

1213154

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Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm² ... 10 mm², also for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, lateral insertion, equipped with fall protection

CRIMPFOX CENTRUS 6S - Crimping pliers

1213144

<https://www.phoenixcontact.com/us/products/1213144>



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm² ... 6 mm², also for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, lateral insertion, equipped with fall protection

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