





Approvals, Testhouse	Characteristics	Approval-Number
UL 	in preparation	in preparation
CSA 	in preparation	in preparation

General information

- Modules inserts without crimp contacts, crimping tools see separate catalogue "Tools".
- Contacts must be ordered separately, processing instructions see catalogue "Tools".
- Connectors series heavy|mate® F may be engaged or disengaged when live but without electrical load.
If these connectors are mated or unmated under load, the load shall be reduced to 10 % of rated current.

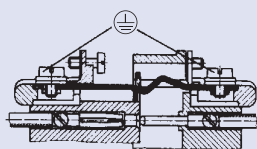
- We recommend using the high profile housings / hoods for the heavy|mate® F inserts.
- Empty modul spaces have to be filled with blind modules.
- Torque for PE connection 1.2 Nm



Advantages of the system

- No standard but interchangeable with competitive products.
- Housings are designed according to DIN EN 175 301 801
- Simply connecting of the modules and frames.

First-to-mate last-to-break protective ground contact



Range of housings

Size E6	Size E10	Size E16
Size E24	Size E48	

Requirements

- 3 x 400V; 50A; 6mm² wire gauge
- 8 x 250V; 8A; 1.5mm² wire gauge
- 5 x 400V; 15A; 4mm² wire gauge

Solution

1. Check how 16 contacts can be realized; see modules overview on page 78

Possible selection:

- a) 1 x 17 contacts
- b) 2 x 12 contacts
- c) 1 x 6 contacts + 1 x 12 contacts
- d) 1 x 3 contacts + 1 x 6 contacts + 1 x 12 contacts

2. Check technical parameters / solution, see detail pages of the modules from page 82

Possible selection:

- a) not possible due to voltage
- b) not possible due to voltage
- c) not possible due to current
- d) POSSIBLE

3. Choose matching contact, see detail page of the modules on page 82

Possible selection:

- a) 3 contacts = C146 10A003 500 15 → contacts = VN01 040 0013 1C
- b) 6 contacts = C146 10A006 500 15 → contacts = VN01 025 0039 1C
- c) 12 contacts = C146 10A012 500 15 → contacts = VN01 016 0027 1C

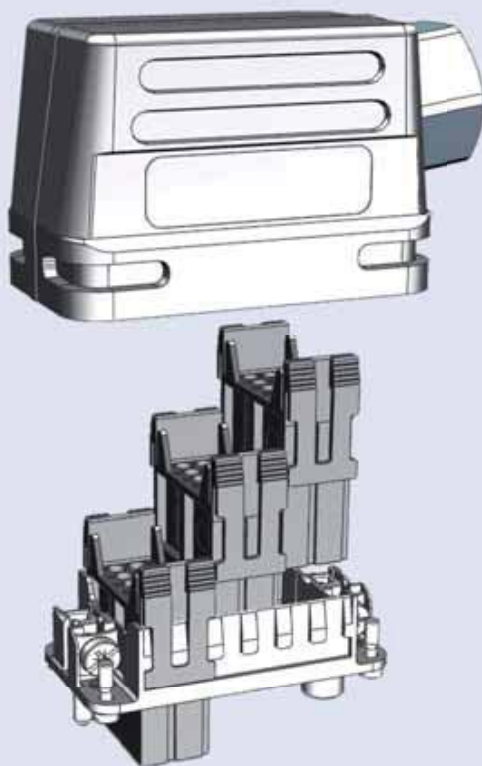
4. Choose matching frame, see frames on page 80

Solution: C146 10P10 000 15

5. Choose matching housing, see housings on page 162

Solution: C146 21R010 600 8

Schematic construction



Mouser Electronics

Authorized Distributor

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[C146 10B004 901 15](#) [C146 10A002 900 15](#) [C146 10H000 001 15](#) [C146 10B004 500 15](#) [C146 10A004 500 15](#) [C146 10B002 900 15](#) [C146 10A004 901 15](#) [C146 10H000 000 15](#) [C146 10A002 100 15](#) [C146 10B002 100 15](#)