heavy|mate® M

- Modular connector
- More module slots than heavy|mate® F and market standard
- Rated voltage 63 - 1000 V
- Rated current 5 A ... 250 A
- Termination: crimp






Approvals, Testhouse	Characteristics	Approval-Number
VDE	Characteristics see rated voltage and rated current of each module	56 79 ÜG
SEV		
UL		E 63093
CSA		48932

In general approvals refer to representative versions of the connector series. Extent and specification of tests upon request.

General information

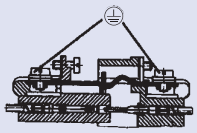
- Modules inserts without crimp contacts, crimping tools see separate catalogue “Tools”.
- Contacts must be ordered separatly, processing instructions see catalogue “Tools”.
- Connectors series heavy|mate® M may be engaged or disengaged when live but without electrical load.
  If these connectors are 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® M inserts.
- Empty modul spaces have to be filled with blind modules.
- Torque for PE connection 1.8 Nm

Advantages of the system

- High combination possibilities
- Possibility of inverse configuration
- Rated voltage up to 1000 V
- Low cost

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

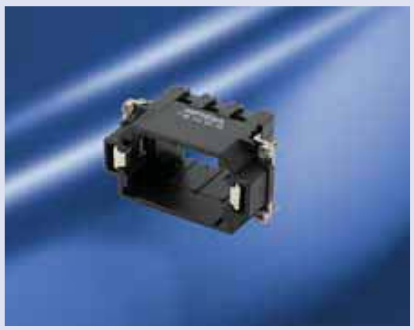
Minimum wire size 0.5 mm²



Modules



Frames



Range of housings



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 118

Possible selection:
a) 1 x 20 contacts
b) 2 x 10 contacts
c) 1 x 10 contacts+ 1 x 5 contacts
d) 1 x 3 contacts + 1 x 5 contacts + 1 x 10 contacts

2. Check technical parameters / solution, see detail pages of the modules on pag 126

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 126

Possible selection:
a) 3 contacts = C146 A03 001 E8 → contacts = VN01 036 0002 1C
b) 5 contacts = C146 A05 001 E8 → contacts = VN01 025 0033 1C
c) 10 contacts = C146 A10 001 E8 → contacts = VN01 016 0027 1XC

4. Choose matching frame, see frames on page 124

Solution: C146 P10 001 G8

5. Choose matching housing, see housings from page 162

Solution: C146 21R010 600 8

Schematic construction