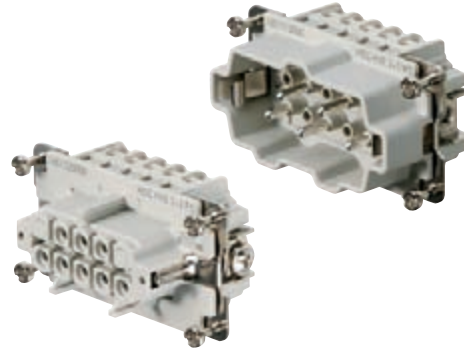


HVE series – exciting voltage

Weidmüller high-voltage inserts are equipped with lagging earth contacts. This means that plugging operations are never performed live, protecting the user and the circuit.



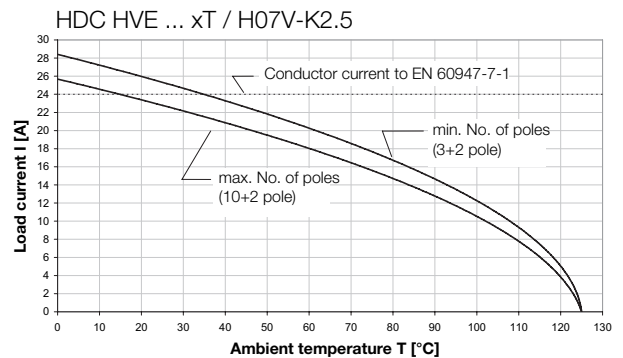
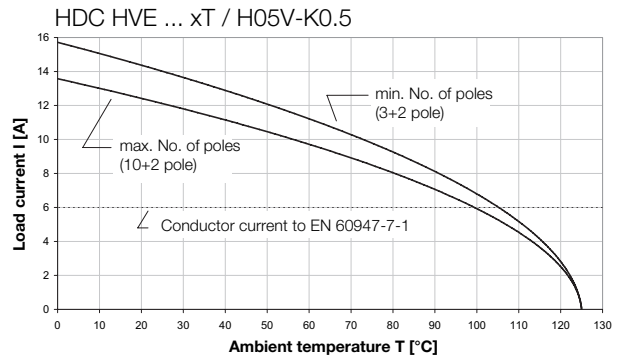
Technical data

Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA
Inserts	
No. of poles	3 + 2, 6 + 2, 10 + 2
Rated voltage	830 V
Rated voltage to UL/CSA	600 V
Rated current	23 A (HV 3+2 = 24 A)
Rated impulse withstand voltage	8 KV
Pollution severity	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver
Clamping unit / Screw connection	Copper alloy / Passivated silver
Clamping range / Stripping length	
- Screw connection	0.5 - 2.5 mm ² (AWG 20 ... 14) / 9 mm
- Tension clamp connection	0.5 - 2.5 mm ² (AWG 20 ... 14) / 8 mm
Clamping torque	
- Screw connection	0.5 - 0.55 Nm
SD blades	
- Screw connection	0.6 x 3.5 or PZ 0
- Tension clamp connection	0.5 x 3 or 0.6 x 3.5
PE connection	
- Clamping range	0.5 ... 4 mm ²
- solid / stranded	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- flexible / flexible with wire end ferrule, DIN 46228 pt. 1	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- AWG conductor	AWG 20 .. 12
- Stripping length	10 mm
- Clamping torque	1.2 ... 1.5 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ 1







Note: Switch off power supply before handling plug-in connectors.

Rated voltage determined on the basis of DIN EN 61984 section 6.19.2.2.
500 V for signal contact.

Derating curves



Overview

		Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	Push In	Axial screw connection	Page
		830 V	24 A	3 + 2 + ⊕	•	•				B.80
		830 V	23 A	6 + 2 + ⊕	•	•				B.82
		830 V	23 A	10 + 2 + ⊕	•	•				B.84

HVE series - exciting voltage

830 V, 24 A, Size 4

3+2 + ⊕



Inserts

Tension clamp connection



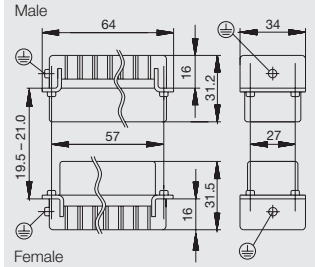
Insert	Designation	Order No.
Male	HDC HVE 3+2 MT	1896930000
Female	HDC HVE 3+2 FT	1896920000

Screw connection

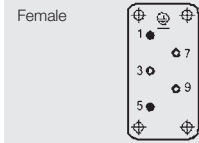
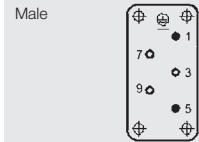


Insert	Designation	Order No.
Male	HDC HVE 3+2 MS	1651310000
Female	HDC HVE 3+2 FS	1651320000

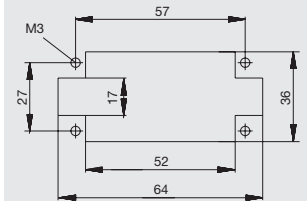
Dimensions



Arrangement of contacts



Mounting cut-out



Selection of Housings RockStar® IP65
Size 4

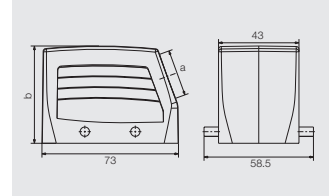


Hood

Hood, Cable Entry sideways



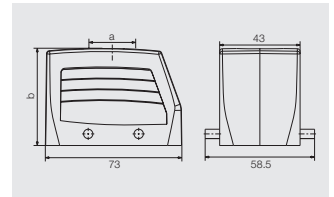
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TSBU 1M20G	1787560000
M 25	with thread		52	HDC 10B TSBU 1M25G	1787550000
M 25	with thread		72	HDC 24D TSBU 1M25G	1787240000
M 32	with thread		72	HDC 24D TSBU 1M32G	1787230000



Hood, Cable Entry at top



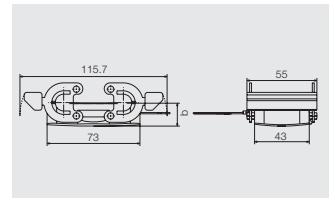
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TOBU 1M20G	1787600000
M 25	with thread		52	HDC 10B TOBU 1M25G	1787590000
M 25	with thread		72	HDC 24D TOBU 1M25G	1787300000
M 32	with thread		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Designation	Order No.
for hoods	HDC 10B DMDQ 2QB	1665240000

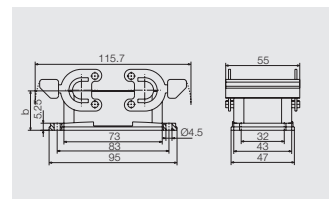


Base

Bulkhead housing



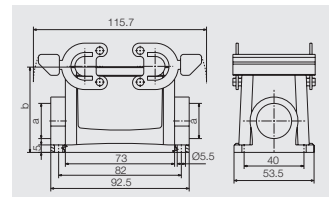
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



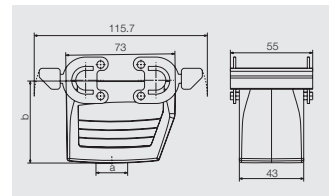
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 10B SBU 2M20G	1787640000
M 25	with thread		57	HDC 10B SBU 2M25G	1787630000
M 25	with thread		74	HDC 24D SBU 2M25G	1787350000
M 32	with thread		74	HDC 24D SBU 2M32G	1787360000



Coupling hood



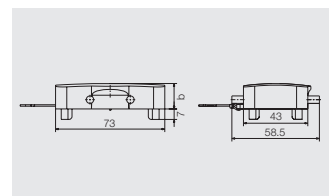
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Designation	Order No.
for bases	HDC 10B DODQ 4BO	1665230000



HVE series - exciting voltage

830 V, 23 A, Size 6

6+2 + ⊕



Inserts

Tension clamp connection



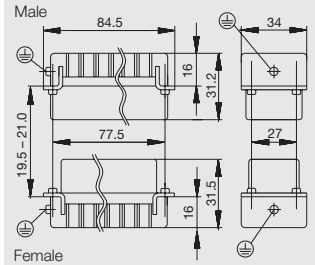
Insert	Designation	Order No.
Male	HDC HVE 6+2 MT	1896950000
Female	HDC HVE 6+2 FT	1896940000

Screw connection

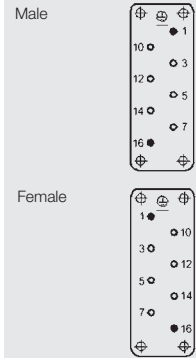


Insert	Designation	Order No.
Male	HDC HVE 6+2 MS	1651330000
Female	HDC HVE 6+2 FS	1651340000

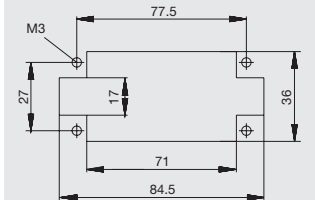
Dimensions



Arrangement of contacts



Mounting cut-out



Selection of Housings RockStar® IP65
Size 6

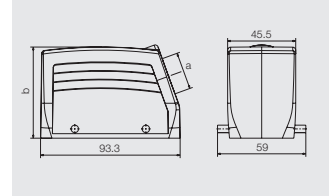


Hood

Hood, Cable Entry sideways



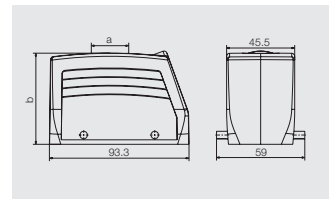
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TSBU 1M25G	1788180000
M 25	with thread		76	HDC 40D TSBU 1M25G	1787010000
M 32	with thread		76	HDC 40D TSBU 1M32G	1787000000



Hood, Cable Entry at top



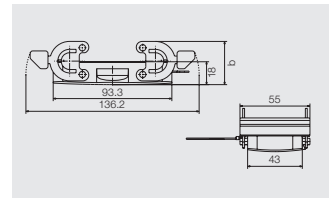
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TOBU 1M25G	1788210000
M 25	with thread		76	HDC 40D TOBU 1M25G	1787070000
M 32	with thread		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Designation	Order No.
for hoods	HDC 16B DMDQ 2QB	1665270000

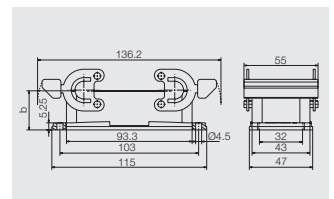


Base

Bulkhead housing



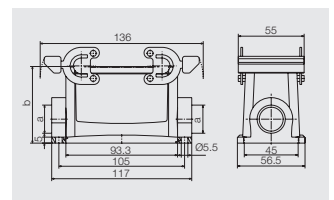
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1208600000



Base housing



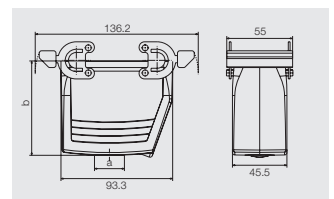
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 2M25G	1788240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000



Coupling hood



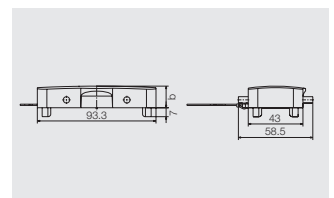
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D KBU 1M25G	1787200000
M 32	with thread		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Designation	Order No.
for bases	HDC 16B DODQ 4BO	1665260000



HVE series - exciting voltage

830 V, 23 A, Size 8

10+2 + ⊕



Inserts

Tension clamp connection



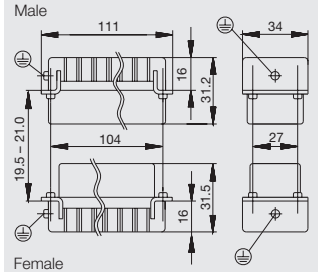
Insert	Designation	Order No.
Male	HDC HVE 10+2 MT	1896970000
Female	HDC HVE 10+2 FT	1896960000

Screw connection

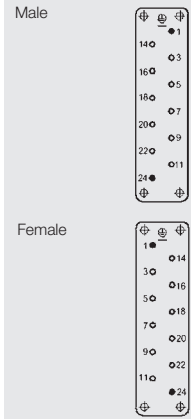


Insert	Designation	Order No.
Male	HDC HVE 10+2 MS	1651350000
Female	HDC HVE 10+2 FS	1651360000

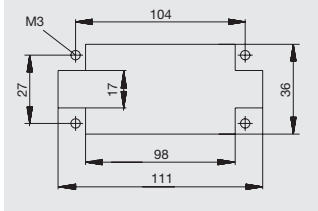
Dimensions



Arrangement of contacts



Mounting cut-out



Selection of Housings RockStar® IP65
Size 8

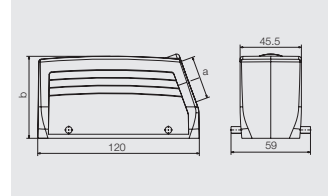


Hood

Hood, Cable Entry sideways



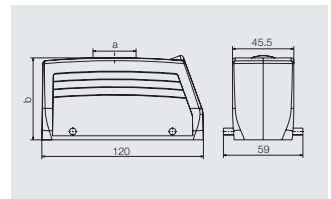
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TSBU 1M25G	1787760000
M 32	with thread		61	HDC 24B TSBU 1M32G	1787750000
M 25	with thread		76	HDC 64D TSBU 1M25G	1786780000
M 32	with thread		76	HDC 64D TSBU 1M32G	1786770000



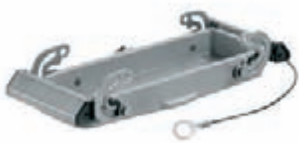
Hood, Cable Entry at top



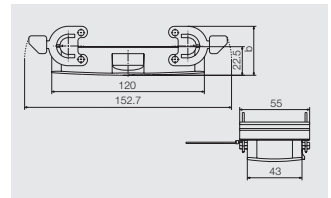
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TOBU 1M25G	1787820000
M 32	with thread		61	HDC 24B TOBU 1M32G	1787810000
M 32	with thread		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Designation	Order No.
for hoods	HDC 24B DMDQ 2QB	1665640000

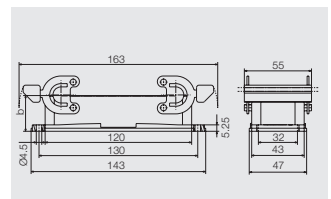


Base

Bulkhead housing



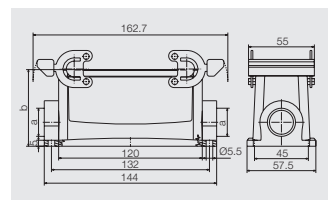
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



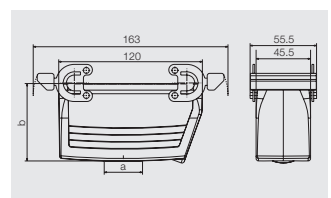
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 24B SBU 2M25G	1787870000
M 25	with thread		84	HDC 64D SBU 2M25G	1786890000
M 32	with thread		84	HDC 64D SBU 2M32G	1786880000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		65	HDC 24B KBU 1M25G	1787920000
M 32	with thread		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Designation	Order No.
for bases	HDC 24B DODQ 4BO	1665630000

