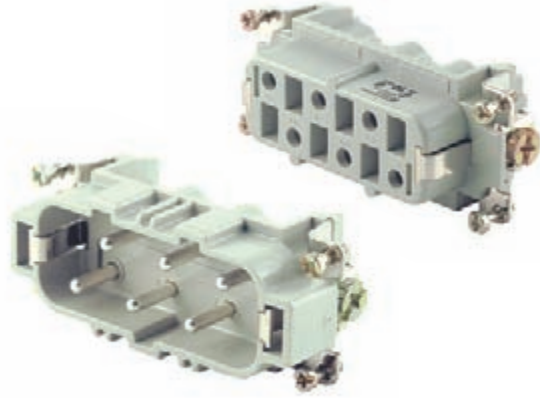


HSB series – the heavy-duty connectors

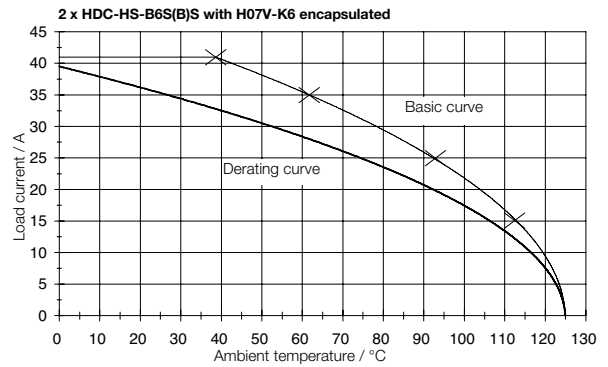
The HSB series provides users with 35 A via each contact with screw connections for a safe and reliable connection.





Technical data

Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA
Inserts	
No. of poles	6, 12
Rated voltage	400 V
Rated voltage to UL/CSA	600 V
Rated current	35 A
Rated impulse withstand voltage	6 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
– Plugging cycles Au - Surface	≥ 500
Contact resistance	
– Screw connection	$\leq 2 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver or 0.8 μm gold on 2 μm Ni
Clamping unit / Screw connection	Copper alloy / Passivated silver
Screw connection	
– Clamping range	0.5 – 6 mm ² (AWG 20 ... 10)
– Stripping length	11 mm
– flex. with wire end ferrule to DIN 46228 Part 1:	4 mm ²
Clamping torque	
– Screw connection	1.2 ... 1.5 Nm
SD blades	0.6 x 3.5 or 0.8 x 4 mm
PE connection	
– Clamping range	0.5 ... 6 mm ²
– solid / stranded	0.5 ... 6 mm ² / 0.5 ... 6 mm ²
– flexible / flexible with wire end ferrule, DIN 46228 pt. 1	0.5 ... 6 mm ² / 0.5 ... 6 mm ²
– AWG conductor	AWG 20 .. 12
– Stripping length	10 mm
– Clamping torque	2 ... 2.5 Nm
– Blade dimensions	SD 1 x 5.5 mm or PH 2
Note: Switch off power supply before handling plug-in connectors. When connecting flexible conductors using screws, wire end ferrules to DIN 46228 Part 1 must be used.	

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
	400 V	35 A	6 + ⊕		•				B.88
	400 V	35 A	12 + ⊕		•				B.90

HSB series - the heavy-duty connectors

400 V, 35 A, Size 6

6 + ⊕



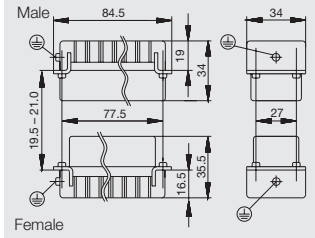
Inserts

Screw connection

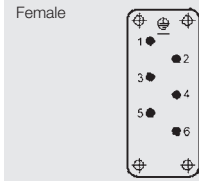
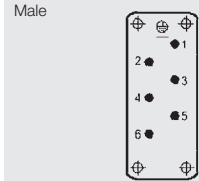


Insert	Designation	Order No.
Male	HDC HSB 6 MS	1498700000
Female	HDC HSB 6 FS	1498900000

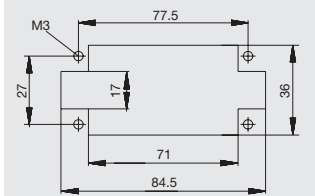
Dimensions



Arrangement of contacts



Mounting cut-out



Selection of Housings RockStar® IP65
Size 6

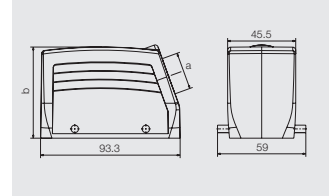


Hood

Hood, Cable Entry sideways



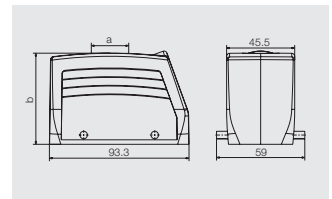
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TSBU 1M25G	1788180000
M 25	with thread		76	HDC 40D TSBU 1M25G	1787010000
M 32	with thread		76	HDC 40D TSBU 1M32G	1787000000



Hood, Cable Entry at top



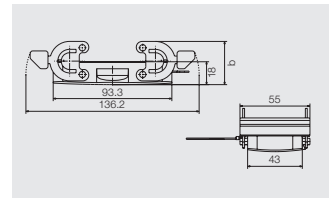
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TOBU 1M25G	1788210000
M 25	with thread		76	HDC 40D TOBU 1M25G	1787070000
M 32	with thread		76	HDC 40D TOBU 1M32G	1787060000



Cover



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

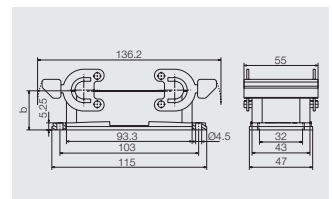


Base

Bulkhead housing



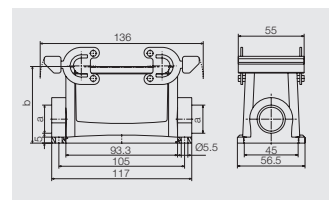
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1208600000



Base housing



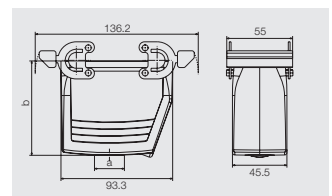
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 2M25G	1788240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000



Coupling hood



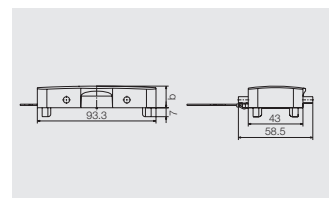
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D KBU 1M25G	1787200000
M 32	with thread		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Designation	Order No.
for bases	HDC 16B DODQ 4B0	1665260000



HSB series - the heavy-duty connectors

400 V, 35 A, Size 10

12 + ⊕

Inserts

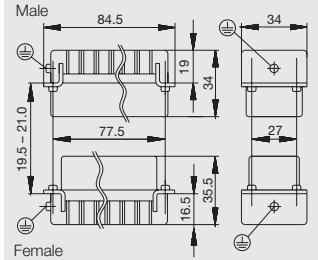


Screw connection

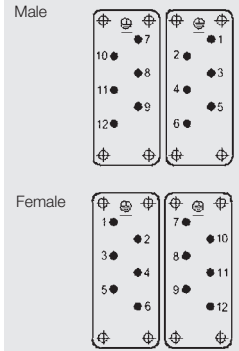


Insert	Designation	Order No.
Male	HDC HSB 6 MS	1498700000
Female	HDC HSB 6 FS	1498900000
Male	HDC HSB 6 MS 7 - 12	1498800000
Female	HDC HSB 6 FS 7 - 12	1499000000

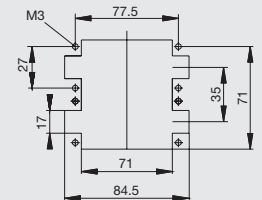
Dimensions



Arrangement of contacts



Mounting cut-out



Selection of Housings RockStar® IP65
Size 10

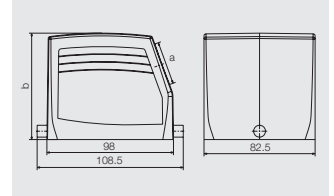


Hood

Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TSLU 1M32G	1788420000

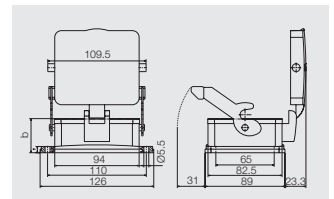


Base

Bulkhead housing



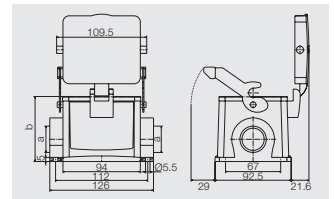
Version	Cover	b (mm)	Designation	Order No.
	with cover	55	HDC 32B ADLU	1219800000
		38	HDC 32B ALU	1219500000



Base housing



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	with cover	96	HDC 32B SDLU 2M32G	1788490000
M 32	with thread		79	HDC 32B SLU 2M32G	1788470000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		83	HDC 32B KLU 1M32G	1788500000

