

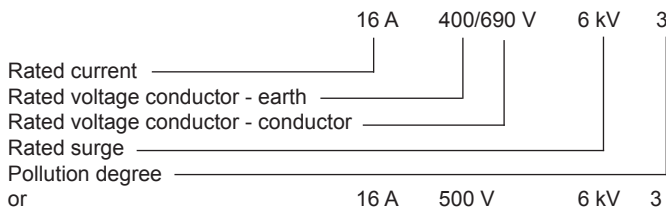


Series BV

Specifications

Regulations: DIN VDE 0627, DIN VDE 0110, DIN EN 61 984
Approvals: SEV, MEIE, EZÚ
Number of poles: 3, 6, 10, 16, 20 (2 x 10), 26 (1 x 10 + 1 x 16), 32 (2 x 16) + PE

Electrical data acc. to DIN EN 61 984:



Rated voltage: 250 V
 Switching contacts: 250 V
 Material: Glass-fibre reinforced polyamide
 Temperature range: - 40 °C up to + 125 °C
 Flame class rating acc. to UL 94: V 0
 Mechanical operating life: ≥ 500
 Mating cycles: ≥ 500

Contacts

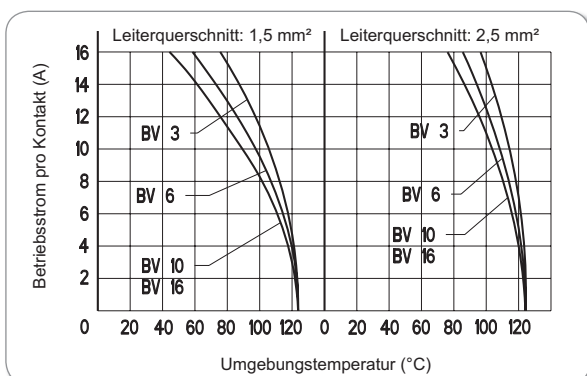
Material: copper alloy
 Surface - hard silver plated: 3 µm Ag
 - hard gold plated: 2 µm Au over 3 µm Ni
 Contact resistance: ≤ 1 m Ω
 Screw resistance with wire protection: 2,5 mm² (14 AWG)
 Torque/testing torque: 0,5 Nm
 Crimp-type terminal: 0,5 - 4 mm² (20 - 12) AWG
 Wire stripping length: 7 mm with screw and crimp contacts

Housings

Material: Aluminium die cast
 Surface: Powder coated
 Locking levers: Plastic; locking elements made of stainless steel
 Housing seal: NBR
 Temperature range: - 40 °C up to + 125 °C (depending on cable gland)
 Protection degree acc. to DIN EN 60 529: IP 65 (in locked condition)

Application hint: Heavy duty connectors are electrical devices which must not be inserted or separated under load!

The derating diagram (corrected current capacity curve) acc. to DIN IEC 60 512 applies to such kind of current which can - depending on ambient temperature and conductor size) circulate through each contact without exceeding the upper limiting temperature.



Page

Inserts

- BV 3-pole + ⊕
- BV 6-pole + ⊕
- BV 10-pole + ⊕
- BV 16-pole + ⊕
- BV 20-pole + ⊕
- BV 26-pole + ⊕
- BV 32-pole + ⊕



164

Housings

with double locking levers on housing base



165

Housings

with double locking system on housing top



165

Housings

with single locking system on housing base



165

Series BV - short overview

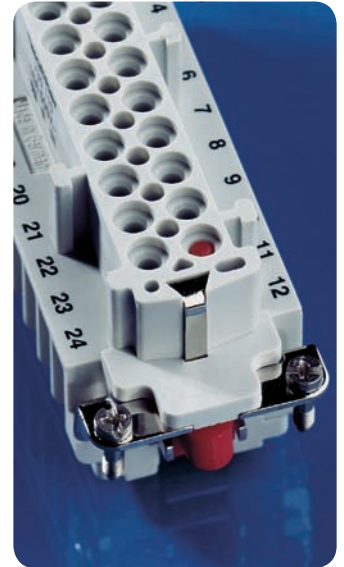


The ribs on the two end walls of the housings have to be removed so that the inserts of series BV (which are provided with a lateral build-in blocking) can be installed.

In addition there are isolating strips at the inner sides of the long housing walls.

Due to the lateral build-in blocking the pin and sleeve inserts cannot be installed in standard housings.

The female inserts are provided with two insertion blockings which prevent them from being used together with male inserts of series B



BV inserts

Number of poles	Marked inserts	Volt AC	Ampère	Screw terminal inserts		Crimp contact carriers		Crimp contacts acc. to cross sections					
				Female inserts	Male inserts	for sleeve contacts	for pin contacts	Female crimp contact (sleeve)		Male crimp contact (pin)			
				with wire protection		Contacts separately		0,14-0,37 mm ²	0,5 mm ²	0,75-1 mm ²	1,5 mm ²	2,5 mm ²	4 mm ²
3		690 V	16 A	730 103	730 203	730 303	730 403	Sleeve: 710 508 Pin: 710 518	Sleeve: 710 504 Pin: 710 514	Sleeve: 710 500 Pin: 710 510 • 710 515 ²⁾	Sleeve: 710 501 Pin: 710 511 • 710 516 ²⁾	Sleeve: 710 502 Pin: 710 512 • 710 517 ²⁾	Sleeve: 710 503 Pin: 710 513
6				730 106	730 206	730 306	730 406						
10				730 110	730 210	730 310	730 410						
16				730 116	730 216								
20	1 - 10			730 110 ¹⁾	730 210 ¹⁾	730 310 ¹⁾	730 410 ¹⁾						
26	1 - 10			730 110	730 210	730 310	730 410						
	1 - 16			730 116	730 216								
32	1 - 16			730 116 ¹⁾	730 216 ¹⁾								

1) always 2 inserts required per housing

2) always two shortened switching contact pins required per housing

Dimensions of BV inserts

of **3-pole** inserts: 4 see page 24 (B 10-pole)
of **6-pole** inserts: 4 see page 26 (B 16-pole)
of **10/16-pole** inserts: 4 see page 28 (B 24-pole)
of **20/26/32-pole** inserts: 4 see page 32 (B 48-pole)

Series BV - short overview

Housings with double locking system on the housing base (HB)

Number of poles	Cable entry										
		Discontinued	New design	Discontinued	New design	Discontinued	New design	Discontinued	New design	Discontinued	New design
3	-	-	-	734 103	-	-	-	-	-	-	-
	1 x M 20 2 x M 20	731 003 731 103	P731003 P731103	- -	- -	733 603	P 733 603	- -	732 003	P 732 003	732 203 P732203
6	-	-	-	734 106	-	-	-	-	-	-	-
	1 x M 25 2 x M 25	731 006 731 106	P731006 P731106	- -	- -	733 606	P 733 606	- -	732 006	P 732 006	732 206 P732206
10/ 16	-	-	-	734 110	-	-	-	-	-	-	-
	1 x M 25 2 x M 25 1 x M 32	731 010 731 110	P731010 P731110	- -	- -	733 610 733 710	P 733 610 P 733 710	- -	732 010 732 110	P 732 010 P 732 110	732 210 P732210

Housings with double locking system on the housing top (HT)

Number of poles	Cable entry								
		Discontinued	New design	Discontinued	New design	Discontinued	New design	Discontinued	New design
3	-	-	-	734 203	-	-	-	-	-
	1 x M 20 2 x M 20	731 203 731 303	P 731 203 P 731 303	- -	- -	733 003	P 733 003	- -	733 203 P 733 203
6	-	-	-	734 206	-	-	-	-	-
	1 x M 25 2 x M 25	731 206 731 306	P 731 206 P 731 306	- -	- -	733 006	P 733 006	- -	733 206 P 733 206
10/ 16	-	-	-	734 210	-	-	-	-	-
	1 x M 25 2 x M 25 1 x M 32	731 210 731 310	P 731 210 P 731 310	- -	- -	733 010 733 110	P 733 010 P 733 110	- -	733 210 733 310 P 733 210 P 733 310

Housings with single locking system on the housing base (HB)

Number of poles	Cable entry														
		Discontinued	New design	Discontinued	New design	Discontinued	New design	Discontinued	New design	Discontinued	New design	Discontinued	New design	Discontinued	New design
3	-	-	-	731403	-	734303	-	734403	-	733803	-	732603	-	732803	
	1xM20 2xM20	731503	P731503	731603 731703	P731603 P731703	- -	- -	- -	- -	height 73	height 61,5	height 52	height 56	height 45	
6	-	-	-	734306	-	734406	-	-	-	-	-	-	-	-	
	1xM25 2xM25	731506	P731506	731606 731706	P731606 P731706	- -	- -	- -	- -	height 80	height 70,5	height 60	height 65	height 45	
10 16	-	-	-	734310	-	734410	-	-	-	-	-	-	-	-	
	1xM25 2xM25 1xM32	731510	P731510	731610 731710	P731610 P731710	- -	- -	- -	- -	height 80	height 70,5	height 60	height 65	height 56	
20 26 32	-	-	-	714348	-	714448	-	-	-	-	-	-	-	-	
	1xM32 2xM32 1xM40	711448 711548	- -	711648 711748	- -	- -	- -	- -	- -	- -	- -	712648 712748	- -	712848 712948	

Housing dimensions:

of housings for **3-pole** inserts: 4 see series B 10 (from page 111 onwards)
of housings for **6-pole** inserts: 4 see series B 16 (from page 119 onwards)
of housings for **10/16-pole** inserts: 4 see series B 24 (from page 129 onwards)
of housings for **20/26/32-pole** inserts: 4 see series B 48 (from page 141 onwards)

Housings with new design also available with:

- **Cable gland** (part no. + MV, e.g. P 731 003 MV)
- **Collar** (part no. + MS, e.g. P 731 003 MS)