VARIOFACE Modules as Compact Power Distributor with Screw-Clamping Terminal

FLK-PVB 2/...

1. Short Description

The growing demand to increase packing density, along with providing fast connector terminations, places new demands on terminal point manufactures. Phoenix Contact VARIOFACE modules meet these new requirements, as compact multi-position units, providing innovative features for installing power distribution in a restricted space.

Modules FLK-PVB 2/24, FLK-PVB 2/36, FLK-PVB 2/48, allow power distribution for two potentials each in even the smallest distributor boxes. The potentials are supplied with screw connection terminal blocks capable of accommodating input wires up to 12 AWG (4mm^2) and output wires up to 14 AWG (2.5mm^2). The terminals are provided with labeling for P1 and P2 or + and -. The modules have a universal foot and can be mounted onto standard DIN-rails.

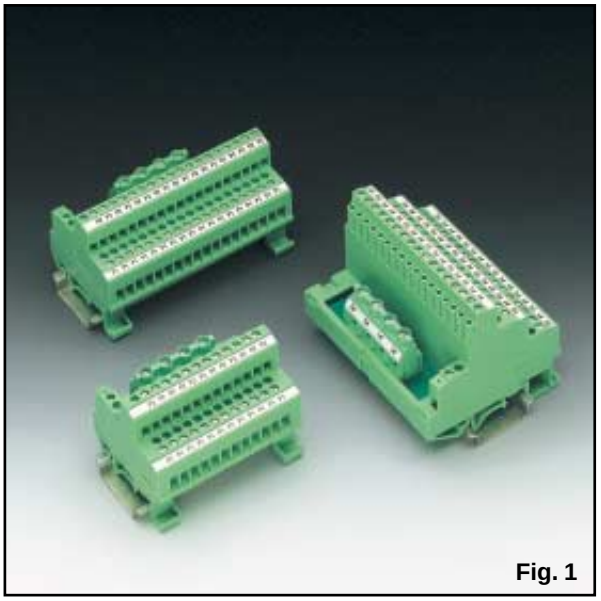

Fig. 1

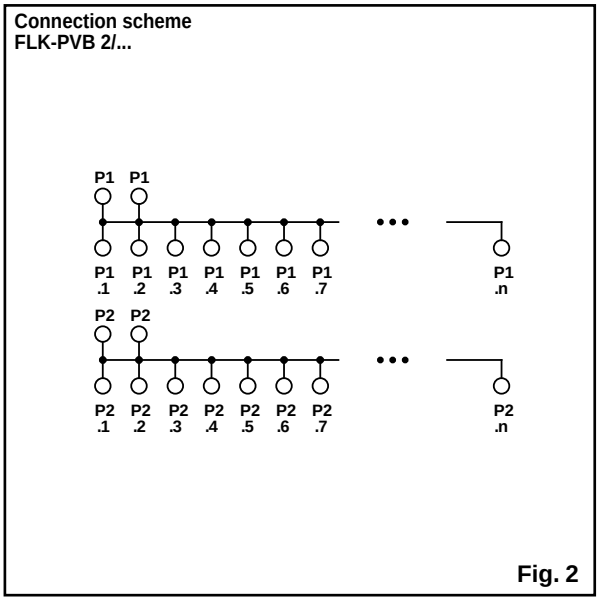

Fig. 2

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Dimensional drawing FLK-PVB 2/24

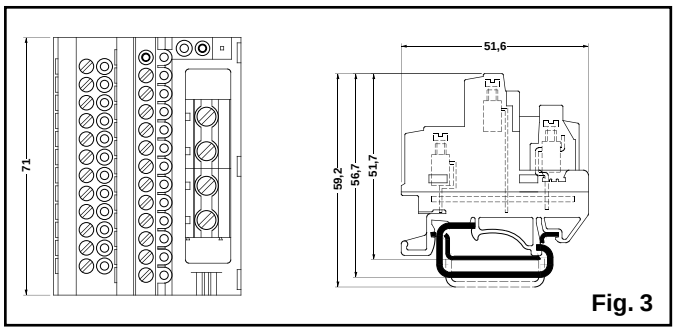

Fig. 3

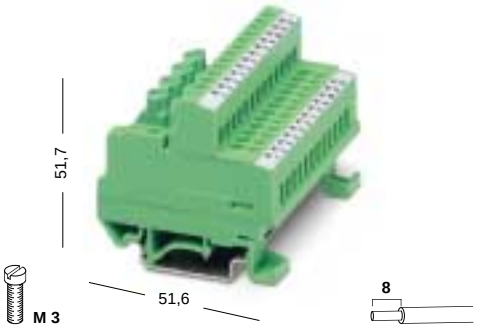

Fig. 4

2. Technical data

FLK-PVB 2/24

Potential distribution block

	(IEC) [mm²] solid	rigid	flexible stranded	AWG	I [A]	U [V]
Connection data:						
Supply	0.2-6		0.2 -4	24-10	30*	250
Distribution	0.2-4		0.2-2.5	24-12	30*	250

2.1. Description

	Module width [mm]	Type	Order No.	Pcs. Pkt.
VARIOFACE modules, with two common busbars for potential distribution, mounting on standard DIN-rail	71.0	**FLK-PVB 2/24**	**22 95 65 1**	1

2.2. General data

Max. perm. operating voltage (between two contacts)		250 V AC/DC
Max. permissible current per potential		30 A*
Perm. ambient temperature		-20 °C to +50 °C
Installation position		any
Connection cross section	supply	0.2-4 mm² (24-12AWG)
	distribution	0.2-2.5 mm² (24-14AWG)
Potential connections	P1	2 input terminal blocks/12 distributor terminal blocks
	P2	2 input terminal blocks/12 distributor terminal blocks
Input terminal blocks		Polyamide PA non-reinforced (green)
Housing (distributor terminal blocks)		PVC

2.3. Standards/regulations

Air and creepage distances	IEC 60 664 (1980)/IEC 60 664A (1981) DIN VDE 0110 /(1.89) contamination class 2 surge voltage category III

*** max. residual current per potential, however no more than 16 A per distributor terminal block**

Dimensional drawing FLK-PVB 2/36

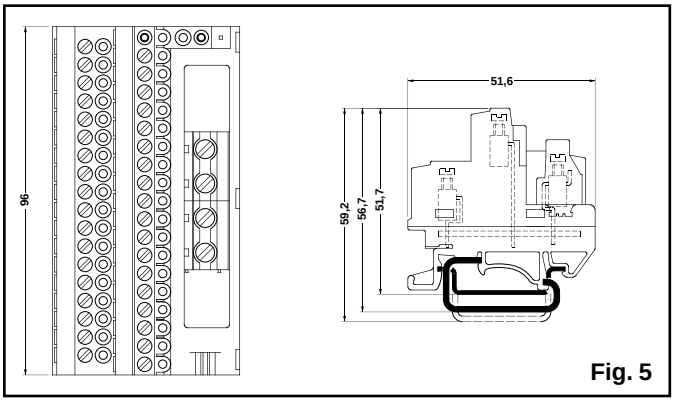

Fig. 5

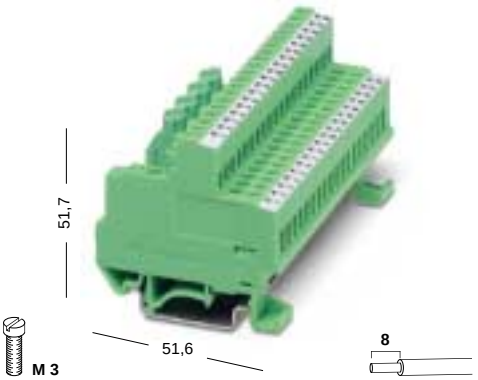

Fig. 6

3. Technical data

FLK-PVB 2/36
Potential distribution block

	(IEC) [mm²] solid	rigid	flexible stranded	AWG	I [A]	U [V]
Connection data:						
Supply	0.2-6		0.2 -4	24-10	30*	250
Distribution	0.2-4		0.2-2.5	24-12	30*	250

3.1. Description

	Module width [mm]	Type	Order No.	Pcs. Pkt.
VARIOFACE modules, with two common busbars for potential distribution, mounting on standard DIN-rail	96.0	**FLK-PVB 2/36**	**22 95 66 4**	1

3.2. General data

Max. perm. operating voltage (between two contacts)		250 V AC/DC
Max. perm.current per potential		30 A*
Perm. ambient temperature		-20 °C to +50 °C
Installation position		any
Connection cross section	supply	0.2-4 mm² (24-12AWG)
	distribution	0.2-2.5 mm² (24-14AWG)
Potential connections	P1	2 input terminal blocks/18 distributor terminal blocks
	P2	2 input terminal blocks/18 distributor terminal blocks
Input terminal blocks		Polyamide PA non-reinforced (green)
Housing (distributor terminal blocks)		PVC

3.3. Standards/regulations

Air and creepage distances	IEC 60 664 (1980)/IEC 60 664A (1981) DIN VDE 0110 /(1.89) contamination class 2 surge voltage category III

*** max. residual current per potential, however no more than 16 A per distributor terminal block**

Dimensional drawing FLK-PVB 2/48

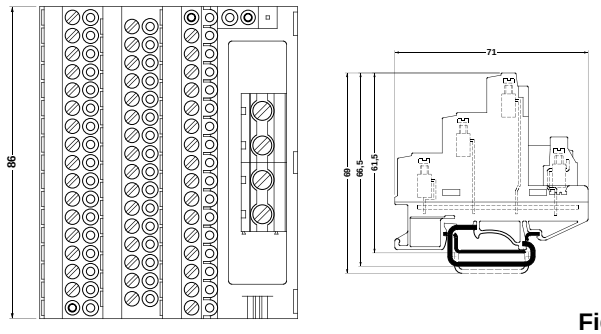

Fig. 7

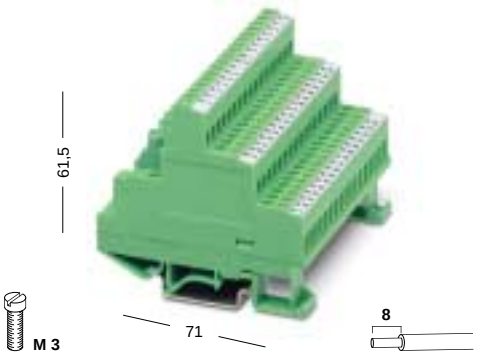

Fig. 8

4. Technical data

FLK-PVB 2/48

Potential distribution block

	(IEC) [mm²] solid	rigid	flexible stranded	AWG	I [A]	U [V]
Connection data:						
Supply	0.2-6		0.2 -4	24-10	30*	250
Distribution	0.2-4		0.2-2.5	24-12	30*	250

4.1. Description	Module width [mm]	Type	Order No.	Pcs. Pkt.
VARIOFACE modules, with two common busbars for potential distribution, mounting on standard DIN-rail	86.0	**FLK-PVB 2/48**	**22 95 67 7**	1

4.2. General data

Max. perm. operating voltage (between two contacts)		250 V AC/DC
Max. permissible current per potential		30 A*
Perm. ambient temperature		-20 °C to +50 °C
Installation position		any
Connection cross section	supply	0.2-4 mm² (24-12AWG)
	distribution	0.2-2.5 mm² (24-14AWG)
Potential connections	P1	2 input terminal blocks/24 distributor terminal blocks
	P2	2 input terminal blocks/24 distributor terminal blocks
Input terminal blocks		Polyamide PA non-reinforced (green)
Housing (distributor terminal blocks)		PVC

4.3. Standards/regulations

Air and creepage distances	IEC 60 664 (1980)/IEC 60 664A (1981) DIN VDE 0110 /(1.89) contamination class 2 surge voltage category III

*** max. residual current per potential, however no more than 16 A per distributor terminal block**