

PFS - NH fuse-switch disconnecter

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data sheet



The PFS NH fuse-switch disconnectors can be used flexibly. The strip can be conveniently rotated so that connection is possible both from below and from above. The strips are available in 1-pole or 3-pole switchable versions.

For our modular outgoing feeder measurement system, we offer a variant with 333 mV small signal converters and preparation for connection to our MMI current modules.

The transformers are already installed in the base of the strip. These are wired through to a connector on the back of the bar. From there, you can wire on to our modules or other measuring equipment with flexible leads in different lengths.

The strips are suitable for 400 V / 690 V operating voltage. With the transformer x / 1 A variant, you can directly measure 690 V nominal voltage in connection with our measuring devices with an extended measuring range.

When the switch cover is opened, it is disconnected in parallel. This enables easier switching to dual separation and increases the service life as well as safety for the operator. The voltage is measured on the contact blade of the NH fuse, which means that you are not dependent on the handle lugs used.

The slotted feed angles ensure easy installation. In addition, the strips can optionally be mounted via contact hooks without drilling and regardless of the hole spacing, also with transformers.

A fuse monitoring system is offered as a further accessory. Via a connected measuring device with network connection, the switching status can also be communicated via the network interface just like all measured values. The switchgear thus becomes an Industry 4.0 component.



Technical data

Design:	
Screw fixing on busbars for vertical mounting	
Connection option	Feeder at the top or bottom, by turning the switch cover
Full protection according to DGUV V3	
Dimensions:	
Width	100 mm
Height	675 mm
Total depth closed:	190 mm
Total depth open:	295 mm
Separating position	250 mm

Technical data

	PFS1-01	PFS1-02	PFS1-03
Rated operational current	250 A	400 A	630 A
Conventional thermal current with separating knife I _{th}	400 A	630 A	800 A
Rated operational voltage U _e	690 V		
Rated insulation voltage U _i	1000 V		
Rated impulse withstand voltage U _{imp}	12 kV		
Rated frequency	50 ... 60 Hz		
Conditional rated short-circuit current at 500 V / 690 V	120 kA / 100 kA		
Utilisation category	AC-23B at U _e = 400 V		
Mechanical life	1400 switching cycles	800 switching cycles	800 switching cycles
Electrical life	200 switching cycles		
Power output (without fuse links)	27 W	56 W	111 W
Max. permissible power output per fuse link	23 W	34 W	48 W
Protection class	IP20		
Ambient temperature	-25 - 55 °C		
Rated operating mode	Continuous operation		
Pollution level	3		
Overvoltage category	CAT IV		
V-clamp terminal cross-section mm ²	25 ... 300 mm ²		
Tightening torque	35 Nm		

Connection	Switchable	Size	Transformers	Type	Item number
V-clamp	1-pole		Primary / Secondary		
•	•	1	250 A / 333 mV	PFS1-01-250 A-333 mV	60.71.0100
•	•	2	400 A / 333 mV	PFS1-02-400 A-333 mV	60.71.0200
•	•	3	600 A / 333 mV	PFS1-03-600 A-333 mV	60.71.0310
•	•	1	250 A / 1 A	PFS1-01-250 A-1 A	60.71.0101
•	•	2	400 A / 1 A	PFS1-02-400 A-1 A	60.71.0202
•	•	3	600 A / 1 A	PFS1-03-600 A-1 A	60.71.0312

* further variants on request

Dimensional drawings

