

Description	Туре	Product code	Weight [kg]	Packing [pcs]
Locking insert for locking the disconnector cover for FH000-1 and FH000-3, max. diameter of the padlock suspension loop is 4.5 mm, padlock is not included in the delivery	VU-LSN	09087	0.006	1

Adapter for 60 mm busbar system, busbar thickness 5 ÷12 mm,				
busbar width 12 \div 32 mm, for 3-pole fuse switch-disconnector FH000-3	OD-FH000-AL60	18643	1.390	1
universal for cable outlet from the disconnector at the top or at the bottom				

Additional cover of connecting area for adapter OD-FH000-AL60,				
identical for both top and bottom areas,	OD-FH000-KPA	18652	0.038	1
for 3-pole fuse switch-disconnector FH000-3				

Remote signalling of hinged cover position for FH000-1				
and FH000-3 with cable length 1 m, possibility of mounting up to 2 signalling in one fuse switch-disconnector. When using	OD-FH-SK	12929	0.038	1
OD-FH-SK U _{imp} is reduced to 4 kV (see the diagram for connection)				

Barrier against accidental contact for FH000-1	OD-FH000-Z1	15185	0.005	1



Rarrier against accidental contact for FH000-3 OD-FH000-73 15186 0.00	. 1	

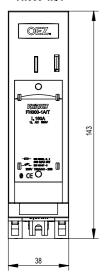


Parameters

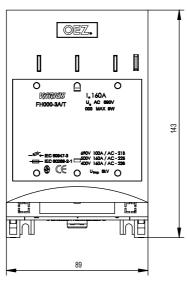
Туре		FH000
Rated voltage	U _n	690 V a.c.
	n	440 V d.c.
Rated current	l _n	160 A
		AC23B at 400 V a.c.
		AC22B at 500 V a.c.
Utilization category		AC21B at 690 V a.c.
		DC22B at 250 V d.c.
		DC20B at 440 V d.c.
Thermal current with fuse-link	I _{th}	160 A
Rated frequency	f	40 - 60 Hz
Rated insulation voltage	U _i	800 V a.c.
		120 kA for 400 V a.c./160 A
Conditional short-circuit current (RMS)	l _{kn}	120 kA for 500 V a.c./100 A
` '	кп	80 kA for 690 V a.c./100 A
		50 kA for 500 V a.c./160 A
Impulse withstand voltage	U _{imp}	8 kV for FH000A/.
Fuse-link size		000
Max. power losses of the fuse-link	P_{v}	9W
Power losses at I _n without fuse-link	P_{v}	7W
Electrical durability	operating cycles	300 at 100 A
	operating cycles	200 at 160 A
Mechanical durability	operating cycles	2000
Degree of protection from front side, built-in device, cover closed		IP 30
(measuring holes filled)		
Degree of protection from front side, built-in device, cover opened		IP 20
Permissible ambient temperature		-25 ÷ +55 ℃
Altitude above sea level		max. 2000 m
Pollution degree		3
Overvoltage category for 690 V a.c.		III
Seismic resistance		0.25 ÷ 50 Hz/3g
Torque of outlet terminals		3 ÷ 3.5 Nm
Standards		IEC 60 947-1, -3
		EN 60 947-1, -3
Approval marks		® C € ® P G B ∕ ♠

Dimensions

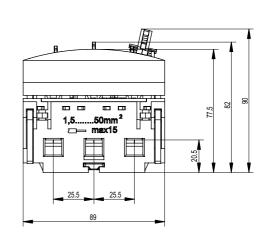




FH000-3A/T



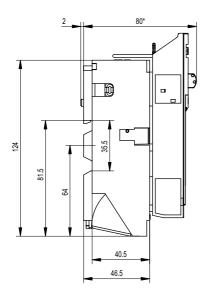
FH000-3A/T





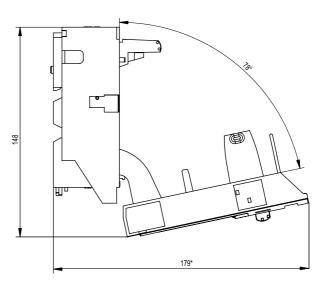
Dimensions

FH000-1A/T and FH000-3A/T



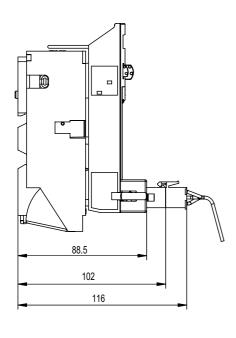
* for FH000-3A/T=82

FH000-1A/T and FH000-3A/T

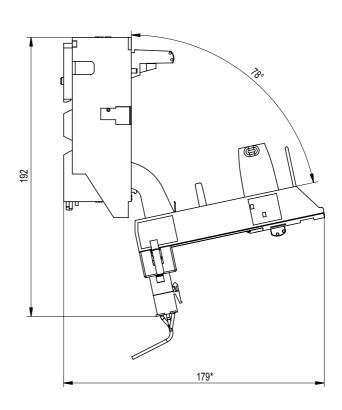


*for FH000-3A/T=181

FH000-1S/T and FH000-3S/T



FH000-1S/T and FH000-3S/T

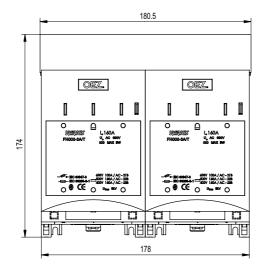


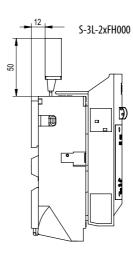
^{*} for FH000-3S/T=181



Dimensions

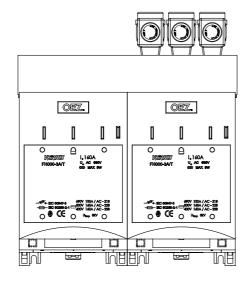
3-pole fuse switch-disconnectors FH000-3./T with busbar S-3L-2xFH000 or S-3L-3xFH000

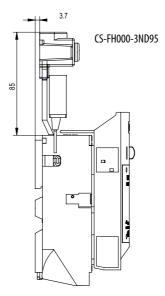




3-pole fuse switch-disconnectors FH000-3./T with busbar S-3L-2xFH000 or S-3L-3xFH000 and terminal extensions CS-FH000-3ND95



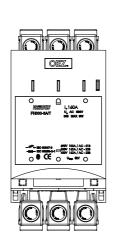


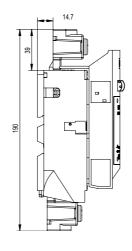


3-pole fuse switch-disconnector FH000-3./N with terminal extensions CS-FH000-3NV95 at the top and CS-FH000-3ND95 at the bottom

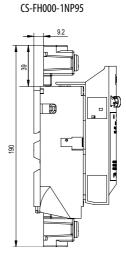
CS-FH000-3NV95

3-pole fuse switch-disconnector FH000-1./N with terminal extensions CS-FH000-1NP95 both at the top and at the bottom





CS-FH000-3NV95



CS-FH000-3ND95

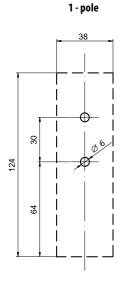
CS-FH000-3ND95

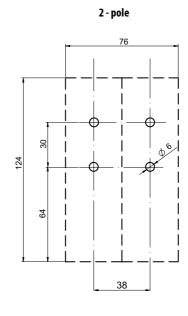
CS-FH000-1NP95

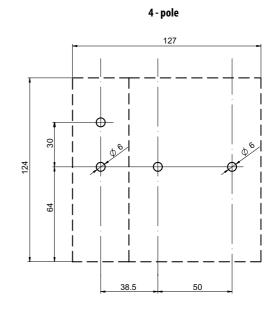


Dimensions

Clearance and drilling plans







Diagram

Remote signalling of fuse condition in 1-pole fuse switch-disconnector

State of contacts with not operated fuse-link: contacts 1-3 connected



5 A/250 V a.c. 0.2 A /250V d.c.

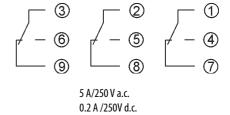
Remote signalling of hinged cover position in 1-pole and 3-pole fuse switch-disconnector

State of contacts with closed cover: contacts C — NO connected



Remote signalling of fuse condition in 3-pole fuse switchdisconnector

State of contacts with not operated fuse-link: contacts 1-3, 2-8, 3-9 connected





Fuse switch-disconnector FH00 is intended for fuse-links with blade contacts size 00 and 000. It enables safe disconnection of rated currents and overcurrents according to the utilization category and operating voltage. Version

It is equipped with a label for description of the protected circuit.

- Measuring holes in the cover.
- Basic version with terminal inbus screws M8 for cabel lugs max. ø 27 mm.
- Connection sets with terminal inbus screws.
- Variability of connection sets including rear connection.
- It is possible to lock the cover.

signalling in every pole independently using standard visual indication of the fuse-links with blade contacts.

with fuse monitoring allows remote fuse-link operation

Mounting:

- Directly on the panel with screws.
- On 60 mm busbar system by adapter.











Fuse switch-disconnector up to 160A

	Туре	Product Design code 18621 single-pole, version with terminal inbus screws M8		Weight	Packing
	туре	code	Design	[kg]	[pcs]
Ī	FH00-1A/F	18621	single-pole, version with terminal inbus screws M8	0.270	1

		single-pole, with fuse monitoring, connector with cable length 1 m,		
FH00-1S/F	18623	version with terminal inbus screws M8,	0.287	1
		fuse switch-disconnector cover can be ordered as a spare part		

EUOO 2A/E	10622	three note version with terminal inhus serous MO	0.677	1
FH00-3A/F	18622	three-pole, version with terminal inbus screws M8	0.677	

		three-pole, with fuse monitoring, connector with cable length 1 m,		
FH00-3S/F	18624	version with terminal inbus screws M8,	0.712	1
		fuse switch-disconnector cover can be ordered as a spare part		

three-pole, with fuse monitoring, connector without cable,

FH00-3SB/F 18625 version allows arbitrary connection according to the user needs, version with terminal inbus screws M8



Connection sets

Description	Туре	Product code	Weight [kg]	Packing [pcs]
Clip terminal for 1-pole fuse switch-disconnector FH00-1./F,	CC FUOD 1C	10/2/	0.010	1
connection of Cu conductors of cross-section 2.5 \div 50 mm², torque 3 Nm	CS-FH00-1S	18626	0.018	1

Prismatic clamp for 1-pole fuse switch-disconnector FH00-1./F,	CS-FH00-1P1	18628	0.114	1
connection of Cu/Al conductors of cross-section 35 \div 70 mm^2 , torque 2.5 Nm	C3-FH00-1F1	10020	0.114	'

Clip terminals - set of 3 pcs for 3-pole fuse switch-disconnector FH00-3./F,	CS-FH00-3S	18627	0.054	1
connection of Cu conductors of cross-section 2.5 ÷ 50 mm ² , torque 3 Nm	C3-FH00-33	1002/	0.034	ı

Prismatic clamps - set of 3 pcs for 3-pole fuse switch-disconnector FH00-3./F,	CS-FH00-3P1	18629	0.342	1
connection of Cu/Al conductors of cross-section 35 ÷ 70 mm², torque 2.5 Nm	C3-FHUU-3F I	10029	0.342	'

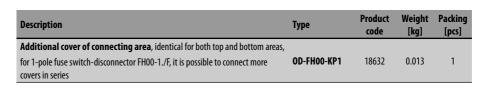
Description	Туре	Product code	Weight [kg]	Packing [pcs]
Adapter for 60 mm busbar system, busbar thickness 5 ÷12 mm,				
busbar width 12 \div 32 mm, for 3-pole fuse switch-disconnector FH00-3./F,	OD-FH00-AL60	18630	1.379	1
universal for cable outlet from the disconnector at the top or at the bottom				

Remote hinged cover position signalling for FH00-1 and FH00-3						
with cable length 1 m, possibility of mounting up to 2 signalling in	OD-FH-SK	12929	0.038	1		
one fuse switch-disconnector.						

Assembly kit for assembling 2-pole or 4-pole device	OD-FH00-SS24	18631	0.007	1	
Assembly kit for assembling 2-pole of 4-pole device	0D-11100-3324	10001	0.007		









Additional cover of connecting area, identical for both top and bottom areas,					
for 3-pole fuse switch-disconnector FH00-3./F, it is possible to connect more	OD-FH00-KP3	18633	0.629	1	
covers in series					



Barrier against accidental contact for FH00-3	OD-FH00-Z3	18634	0.016	1



Front shield for FH00-3	OD-FHOO-KR	18635	0.026	1	

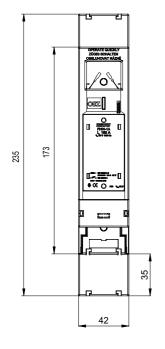


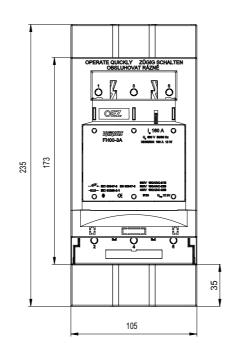
Parameters

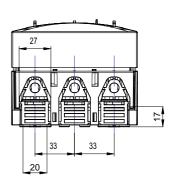
Туре			FH00
Rated operating voltage	U _e		690 V
Rated operating current	l _e		160 A
		400 V a.c.	AC-23B
Utilization category		500 V a.c.	AC-22B
otilization category		690 V a.c.	AC-21B
		250 V d.c.	DC-22B
Thermal current with fuse-link	l _{th}		160 A
Thermal current with disconnecting knife ZP000	l _{th}		250 A
Rated frequency	f		40 ÷ 60 Hz
Rated insulation voltage	U _i		1000 V a.c.
Conditional short-circuit current (RMS)	l _«	400 V a.c.	120 kA
Impulse withstand voltage	U_{imp}		12 kV for FH00A/F
Fuse-link size			000,00
Max. power losses of the fuse-link	P_{v}		12 W
Power losses at I without fuse-link	P _v		7 W
Electrical durability	operating cycles		300 at 100 A 200 at 160 A
Mechanical durability	operating cycles		2000
Degree of protection from front side, built-in device, cover closed			10.00
(measuring holes filled)			IP 20
Degree of protection from front side, built-in device, cover opened			IP 20
Permissible ambient temperature			- 25 ÷ + 55 ℃
Altitude above sea level			max. 2000 m
Pollution degree			3
Overvoltage category for 690 V a.c.			IV
Seismic resistance			0.25 ÷ 50 Hz/3g
Standards			IEC 60 947-1, -3
Januarus			EN 60 947-1, -3
Approval marks			® C€ ®

Dimensions

FH00-1A/F FH00-3A/F FH00-3A/F









Dimensions

FH00-1A/F and FH00-3A/F

205

FH00-1A/F and FH00-3A/F

FH00-1S/F and FH00-3S/F

FH00-15/F and FH00-35/F

149

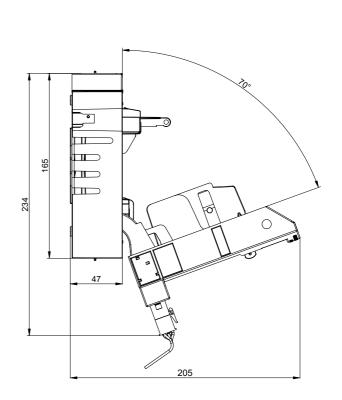
62

104

98

111

125

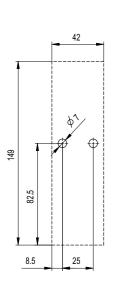


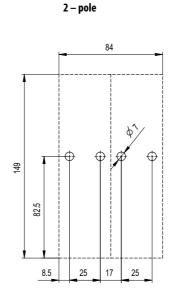


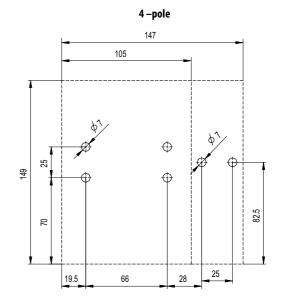
Dimensions

Clearance and drilling plans

1 – pole



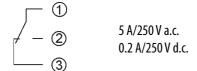




Diagram

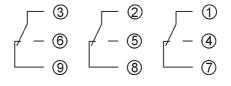
Remote signalling of fuse condition in 1-pole fuse switch-disconnector

State of contacts with not operated fuse-link: contacts 1 – 3 connected



Remote signalling of fuse condition in 3-pole fuse switch-disconnector

State of contacts with not operated fuse-link: contacts 1-7, 2-8, 3-9 connected



5 A/250 V a.c. 0.2 A/250 V d.c.

Remote signalling of hinged cover position in 1-pole and 3-pole fuse switch-disconnector

State of contacts with closed cover: contacts C — NO connected





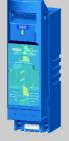
Fuse switch-disconnector FH1 is intended for fuse-links with blade contacts size 1. It enables safe disconnection of rated currents and overcurrents according to the utilization category and operating voltage. Version with fuse moni-

toring allows remote fuse-link operation signalling in every pole independently using standard visual indication of the fuse-links with blade contacts.

- It is equipped with a label for description of the protected circuit.
- Measuring holes in the cover.
- Basic version with terminal screws M10.
- Variability of connection sets including rear connection.
- It is possible to lock the cover.

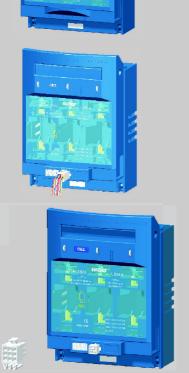
Mounting:

- Directly on the panel with screws.
- On 60 mm busbar system by adapter.









Fuse switch-disconnector up to 250A

Туре	Product	Design	Weight	Packing
	code		[kg]	[pcs]
FH1-1A/F	14362	single-pole, version with terminal screws M10	1.100	1

FH1-1S/F	14363	version with terminal screws M10,	1.112	1
		fuse switch-disconnector cover can be ordered as a spare part		

FH1-3A/F	14364	three-pole, version with terminal screws M10	2.660	1
	1 150 1	unce pole, reision man terminar serems mile	2.000	

		three-pole, with fuse monitoring, connector with cable length 1 m,		
FH1-3S/F	14365	version with terminal screws M10,	2.675	1
		fuse switch-disconnector cover can be ordered as a spare part		

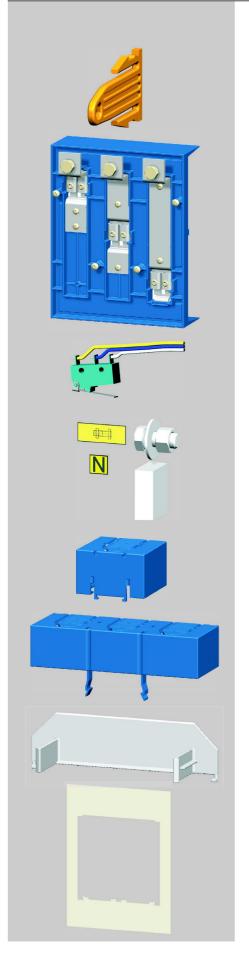
three-pole, with fuse monitoring, connector without cable,

FH1-3SB/F 14367 version allows arbitrary connection according to the user needs,
version with terminal screws M10



	Connection sets				
	Description	Туре	Product code	Weight [kg]	Packing [pcs]
	Clip terminal for 1-pole fuse switch-disconnector FH1-1./F, connection of Cu conductors of cross-section $6 \div 16$ mm², torque 4.5 Nm	CS-FH12-1SM	15814	0.066	1
	$\label{limits} \textbf{Clip terminal} \ \ \text{for 1-pole fuse switch-disconnector FH1-1./F,} \\ \ \ \text{connection of Cu conductors of cross-section 25} \ \div \ 150 \ \text{mm}^2, \ \text{torque 4.5 Nm} \\$	CS-FH12-1S	15591	0.073	1
O The Control of the	$\label{eq:prismatic clamp} \textbf{Prismatic clamp} \ \text{for 1-pole fuse switch-disconnector FH1-1./F,} \\ \textbf{connection of Cu/Al conductors of cross-section 70} \div 150 \ \text{mm}^2, \textbf{torque 4.5 Nm} \\ \textbf{Moreover 10} + \textbf{Moreover 10} + \textbf{Moreover 10} + \textbf{Moreover 10} + \textbf{Moreover 10} \\ \textbf{Moreover 10} + \textbf{Moreover 10} + \textbf{Moreover 10} + \textbf{Moreover 10} \\ \textbf{Moreover 10} + \textbf{Moreover 10} + \textbf{Moreover 10} \\ \textbf{Moreover 10} + \textbf{Moreover 10} + \textbf{Moreover 10} \\ $	CS-FH12-1P1	15592	0.133	1
	Double prismatic clamp for 1-pole fuse switch-disconnector FH1-1./F, connection of Cu/Al conductors of cross-section 2 x $70 \div 95 \text{ mm}^2$, torque 4.5 Nm	CS-FH12-1P2	15593	0.193	1
	Terminal-for rear connection for 1-pole fuse switch-disconnector FH1-1./F, torque 20 Nm	CS-FH123-1Z	15594	0.173	1
JOIN JO	$\label{lem:connection} \textbf{Clip terminals - set of 3 pcs} \ \ \text{for 3-pole fuse switch-disconnector FH1-3./F,} \\ connection of Cu \ conductors \ \ \text{of cross-section 6} \ \div \ \ 16 \ \text{mm}^2, \ \text{torque 4.5 Nm} \\$	CS-FH12-3SM	15815	0.200	1
	Clip terminals - set of 3 pcs for 3-pole fuse switch-disconnector FH1-3./F, connection of Cu conductors of cross-section $25 \div 150 \text{ mm}^2$, torque 4.5 Nm	CS-FH12-3S	18226	0.220	1
	$\label{eq:Prismatic clamps - set of 3 pcs} for 3-pole fuse switch-disconnector FH1-3./F, connection of Cu/Al conductors of cross-section 70 \div 150 mm^2, torque 4.5 Nm$	CS-FH12-3P1	18227	0.400	1
	$\label{eq:Double prismatic clamps - set of 3 pcs} \ \ for \ 3-pole \ fuse \ switch-disconnector \ FH1-3./F, connection of Cu/Al conductors of cross-section 2 x 70 \div 95 mm², torque 4.5 Nm$	CS-FH12-3P2	18228	0.580	1
	Terminals for rear connection - set of 3 pcs for 3-pole fuse switch-disconnector FH1-3./F, torque 20 Nm	CS-FH123-3Z	18229	0.520	1





Description	Туре	Product code	Weight [kg]	Packing [pcs]
Locking insert to lock the fuse switch-disconnector cover,				
max. diameter of the padlock suspension loop is 4.5 mm,	OD-FH123-VU	18230	0.006	1
the padlock is not included in the delivery, for FH1-1 a FH1-3				

Adapter for 60 mm busbar system, busbar thickness $5 \div 12$ mm,				
busbar width 12 \div 32 mm, for 3-pole fuse switch-disconnector FH1-3./F,	OD-FH1-AL60	17270	1.100	1
universal for cable outlet from the disconnector at the top or at the bottom				

Remote hinged cover position signalling for FH1-1 and FH1-3				
with cable length 1 m, possibility of mounting up to 2 signalling in	OD-FH-SK	12929	0.038	1
one fuse switch-disconnector.				

Assembly kit for assembling 2-pole or 4-pole device	OD-FH123-SS24	17266	0.060	1
---	---------------	-------	-------	---

Additional cover of connecting area, identical for both top				
and bottom areas,	OD-FH1-KP1	17269	0.020	1
for 1-pole fuse switch-disconnector FH1-1./F, it is possible to connect more	OD-FHI-KFI	1/209	0.038	'
covers in series				

Additional cover of connecting area, identical for both top and bottom are	as,			
for 3-pole fuse switch-disconnector FH1-3./F, it is possible to connect more	OD-FH1-KP3	17268	0.100	1
covers in series				

Darwier annimat actidantal contact for FII1 2	AD FU1 72	17771	0.045	1
Barrier against accidental contact for FH1-3	OD-FH1-Z3	1/2/1	0.045	

Front shield for FH1-3	OD-FH1-KR	17267	0.036	1
Tione sineu iori iii 5	OD-1111-KIK	1/20/	0.050	

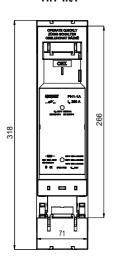


Parameters

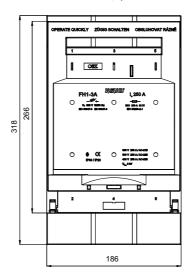
-		F114
Туре		FH1
Rated voltage	Un	690 V a.c. 250 V d.c.
Rated current	1	250 V d.c.
Rated current	I _n	AC23B at 400 V a.c.
		AC23B at 400 V a.c.
Hallington and annual		AC22B at 500 V a.C. AC21B at 690 V a.C.
Utilization category		AC21B at 690 V a.c. AC22B at 690 V a.c./200 A
		AC22B dt 690 V d.C./200 A DC21B at 250 V d.C.
Thermal current with fuse-link		DC218 at 250 V d.c.
	I _{th}	
Thermal current with disconnecting knife ZP1	l _{th}	325 A
Rated frequency		40 ÷ 60 Hz
Rated insulation voltage	U _i	1000 V a.c.
Conditional depart in the control (DMC)	l _{kn}	120 kA for 400 V a.c./250 A
Conditional short-circuit current (RMS)		50 kA for 500 V a.c./250 A
		min. 25 kA for 690 V a.c./250 A
Impulse withstand voltage	U_{imp}	12 kV for FH1A/F
Fuse-link size		1
Max. power losses of the fuse-link	P _v	23 W
Power losses at I without fuse-link	P _v	9W
Electrical durability	operating cycles	200 at 250 A
Mechanical durability	operating cycles	1400
Degree of protection from front side, built-in device, cover closed		ID 20
(measuring holes filled)		IP 30
Degree of protection from front side, built-in device, cover opened		IP 20
Permissible ambient temperature		- 25 ÷ + 55 ℃
Altitude above sea level		max. 2000 m
Pollution degree		3
Overvoltage category for 690 V a.c.		IV
Seismic resistance		0.25 ÷ 50 Hz/3g
Camplanda		IEC 60 947-1, -3
Standards		EN 60 947-1, -3
Approval marks		® C € ®

Dimensions

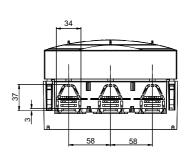
FH1-1A/F



FH1-3A/F



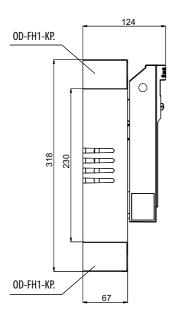
FH1-3A/F



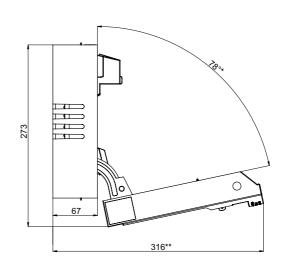


Dimensions

FH1-1A/F and FH1-3A/F

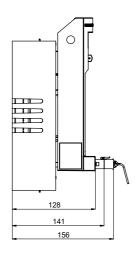


FH1-1A/F and FH1-3A/F

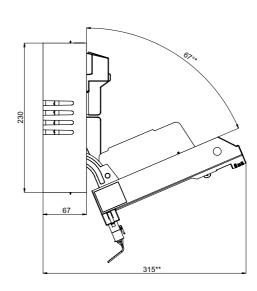


- * for FH1-3A/F= 67°
- ** for FH1-3A/F= 315

FH1-1S/F and FH1-3S/F



FH1-1S/F and FH1-3S/F

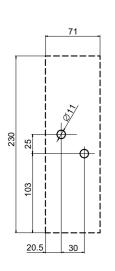


- * for FH1-1S/F= 78°
- ** for FH1-1S/F= 316

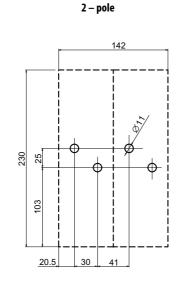


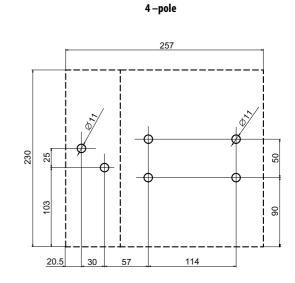
Dimensions

Clearance and drilling plans



1 – pole





Diagram

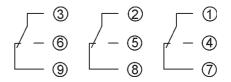
Remote signalling of fuse condition in 1-pole fuse switch-disconnector

State of contacts with not operated fuse-link: contacts 1-3 connected



Remote signalling of fuse condition in 3-pole fuse switchdisconnector

State of contacts with not operated fuse-link: contacts 1-3, 2-8, 3-9 connected



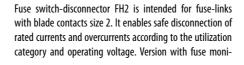
5 A/250 V a.c. 0.2 A/250 V d.c.

Remote signalling of hinged cover position in 1-pole and 3-pole fuse switch-disconnector

State of contacts with closed cover: contacts C — NO connected





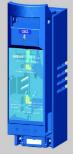


toring allows remote fuse-link operation signalling in every pole independently using standard visual indication of the fuse-links with blade contacts.

- It is equipped with a label for description of the protected circuit.
- Measuring holes in the cover.
- Basic version with terminal screws M10.
- Variability of connection sets including rear connection.
- It is possible to lock the cover.

Mounting:

- Directly on the panel with screws.
- On 60 mm busbar system by adapter.









Fuse switch-disconnector up to 400A

Туре	Product	Product Design		Packing	
,,	code	•	[kg]	[pcs]	
FH2-1A/F	14369	single-pole, version with terminal screws M10	1.280	1	

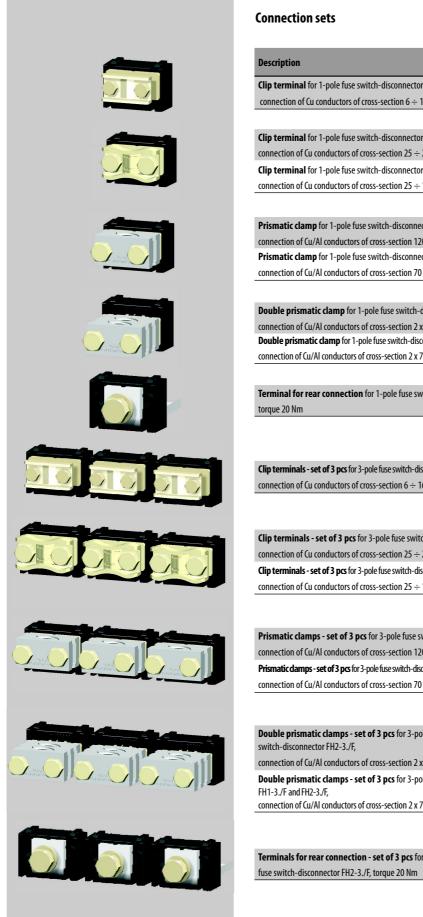
single-pole, with fuse monitoring, connector with cable length 1 m,					
FH2-1S/F	14371	version with terminal screws M10,	1.292	1	
fuse switch-disconnector cover can be ordered as a spare part					

FH2-3A/F	14368	three-pole, version with terminal screws M10	2.980	1	
		tinee poic, reision man terminar screms in re			

			three-pole, with fuse monitoring, connector with cable length 1 m,		
FI	H2-3S/F	14370	version with terminal screws M10,	2.995	1
			fuse switch-disconnector cover can be ordered as a spare part		

		three-pole, with fuse monitoring, connector without cable,		
FH2-3SB/F	14372	version allows arbitrary connection according to the user needs,	2.990	1
		version with terminal screws M10		

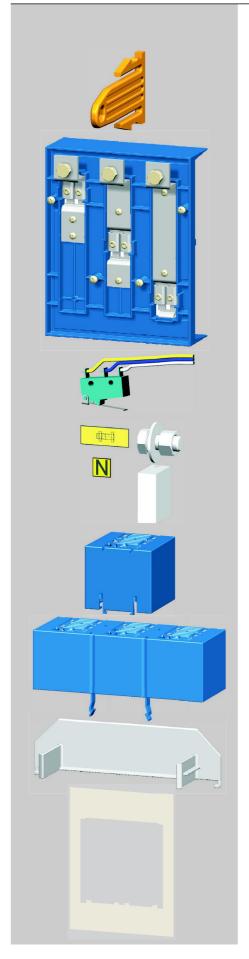




Connection sets

Description	Туре	Product code	Weight [kg]	Packing [pcs]
Clip terminal for 1-pole fuse switch-disconnector FH1-1./F and FH2-1./F,	CS-FH12-1SM	15814	0.066	1
connection of Cu conductors of cross-section 6 \div 16 mm², torque 4.5 Nm		15011	0.000	•
Climbourning for 1 male free market, discourant of FIG. 1 /F				
Clip terminal for 1-pole fuse switch-disconnector FH2-1./F, connection of Cu conductors of cross-section 25 ÷ 240 mm², torque 10 Nm	CS-FH2-1S	15595	0.080	1
Clip terminal for 1-pole fuse switch-disconnector FH1-1./F and FH2-1./F,				
connection of Cu conductors of cross-section 25 \div 150 mm 2 , torque 4.5 Nm	CS-FH12-1S	15591	0.073	1
Prismatic clamp for 1-pole fuse switch-disconnector FH2-1./F,	CS-FH2-1P1	15596	0.140	1
connection of Cu/Al conductors of cross-section 120 ÷ 240 mm², torque 10 Nm				
Prismatic clamp for 1-pole fuse switch-disconnector FH1-1./F and FH2-1./F,	CS-FH12-1P1	15592	0.133	1
connection of Cu/Al conductors of cross-section 70 ÷ 150 mm², torque 4.5 Nm				
Double prismatic clamp for 1-pole fuse switch-disconnector FH2-1./F,	66 FUD 400	45507	0.200	
connection of Cu/Al conductors of cross-section 2 x 120 \div 150 mm 2 , torque 10 Nm	CS-FH2-1P2	15597	0.200	1
Double prismatic clamp for 1-pole fuse switch-disconnector FH1-1./F, and FH2-1./F,	CS-FH12-1P2	15593	0.193	1
connection of Cu/Al conductors of cross-section 2 x 70 ÷ 95 mm², torque 4.5 Nm				
Terminal for rear connection for 1-pole fuse switch-disconnector FH2-1./F,				
torque 20 Nm	CS-FH123-1Z	15594	0.173	1
Clip terminals - set of 3 pcs for 3-pole fuse switch-disconnector FH1-3/F and FH2-3/F, connection of Cu conductors of cross-section $6 \div 16 \text{ mm}^2$, torque 4.5 Nm	CS-FH12-3SM	15815	0.200	1
Clip terminals - set of 3 pcs for 3-pole fuse switch-disconnector FH2-3./F,	CS-FH2-3S	15811	0.240	1
connection of Cu conductors of cross-section 25 ÷ 240 mm², torque 10 Nm	C5 1112 55	15011	0.240	'
Clip terminals - set of 3 pcs for 3-pole fuse switch-disconnector FH1-3./F and FH2-3./F,	CS-FH12-3S	18226	0.220	1
connection of Cu conductors of cross-section 25 ÷ 150 mm², torque 4.5 Nm				
Prismatic clamps - set of 3 pcs for 3-pole fuse switch-disconnector FH2-3./F, connection of Cu/Al conductors of cross-section 120 ÷ 240 mm², torque 10 Nm	CS-FH2-3P1	15812	0.420	1
Prismatic damps - set of 3 pcs for 3-pole fuse switch-disconnector FH1-3/F and FH2-3/F,				
connection of Cu/Al conductors of cross-section 70 ÷ 150 mm², torque 4.5 Nm	CS-FH12-3P1	18227	0.400	1
Double prismatic clamps - set of 3 pcs for 3-pole fuse				
switch-disconnector FH2-3./F,	CS-FH2-3P2	15813	0.600	1
connection of Cu/Al conductors of cross-section 2 x 120 ÷ 150 mm ² , torque 10 Nm				
Double prismatic clamps - set of 3 pcs for 3-pole fuse switch-disconnector FH1-3./F and FH2-3/F,	CS-FH12-3P2	18228	0.580	1
connection of Cu/Al conductors of cross-section 2 x 70 \div 95 mm ² , torque 4.5 Nm				
Terminals for rear connection - set of 3 pcs for 3-pole				





Description	Туре	Product code	Weight [kg]	Packing [pcs]
Locking insert to lock the fuse switch-disconnector cover,				
max. diameter of the padlock suspension loop is 4.5 mm,	OD-FH123-VU	18230	0.006	1
the padlock is not included in the delivery, for FH2-1 and FH2-3				

Adapter for 60 mm busbar system, busbar thickness $5 \div 12$ mm,				
busbar width 12 \div 32 mm, for 3-pole fuse switch-disconnector FH2-3./F,	OD-FH2-AL60	14382	1.350	1
universal for cable outlet from the disconnector at the top or at the bottom				

Remote hinged cover position signalling for FH2-1 and FH2-3,				
with cable length 1 m, possibility of mounting up to 2 signalling in	OD-FH-SK	12929	0.038	1
one fuse switch-disconnector.				

Assembly kit for assembling 2-pole or 4-pole device	OD-FH123-SS24	17266	0.060	1
---	---------------	-------	-------	---

Additional cover of connecting area, identical for both top and bottom areas, for 1-pole fuse switch-disconnector FH2-1./F, it is possible to connect more	OD-FH2-KP1	14381	0.052	1
covers in series				

Additional cover of connecting area, identical				
for both top and bottom areas,	OD-FH2-KP3	14380	0.158	1
for 3-pole fuse switch-disconnector FH2-3./F, it is possible to connect more		14300		'
covers in series				

Barrier against accidental contact for FH2-3	OD-FH2-Z3	14383	0.045	1
--	-----------	-------	-------	---

Front shield for FH2-3	OD-FH2-KR	14379	0.036	1

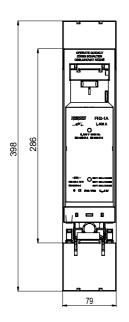


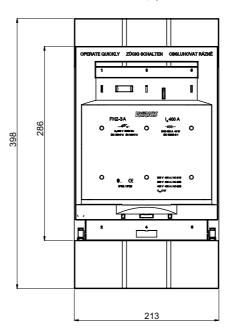
Parameters

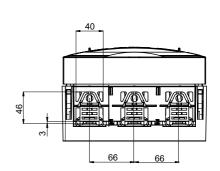
Туре		FH2
		690 V a.c.
Rated voltage	Un	250 V d.c.
Rated current	Į.	400 A
	•	AC23B at 500 V a.c. for FH2-3
		AC23B at 400 V a.c. for FH2-1
Utilization category		AC22B at 690 V a.c.
		DC21B at 250 V d.c.
Thermal current with fuse-link	I _#	400 A
Thermal current with disconnecting knife ZP2	I _{th}	520 A
Rated frequency	f	40 ÷ 60 Hz
Rated insulation voltage	U _i	1000 V a.c.
		120 kA for 400 V a.c./250 A
Conditional short-circuit current (RMS)	l _{kn}	50 kA for 500 V a.c./250 A
		min. 25 kA for 690 V a.c./250 A
Impulse withstand voltage	U_{imp}	12 kV for FH2A/F
	imp	
Fuse-link size		2
Max. power losses of the fuse-link	P _v	34 W
Power losses at I _n without fuse-link	P_{v}	23 W
Electrical durability	operating cycles	200 at 400 A
Mechanical durability	operating cycles	800
Degree of protection from front side, built-in device, cover closed		IP 30
(measuring holes filled)		
Degree of protection from front side, built-in device, cover opened		IP 20
Permissible ambient temperature		- 25 ÷ + 55 ℃
Altitude above sea level		max. 2000 m
Pollution degree		3
Overvoltage category for 690 V a.c.		IV
Seismic resistance		0.25 ÷ 50 Hz/3g
Standards		IEC 60 947-1, -3
		EN 60 947-1, -3
Approval marks		(E) (E)

Dimensions

FH2-1A/F FH2-3A/F FH2-3A/F



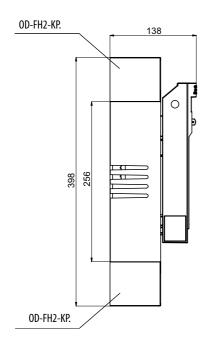




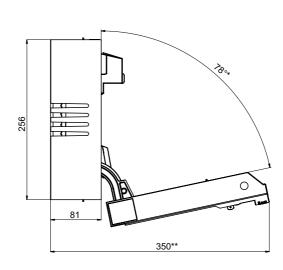


Dimensions

FH2-1A/F and FH2-3A/F

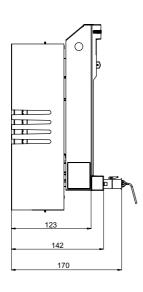


FH2-1A/F and FH2-3A/F

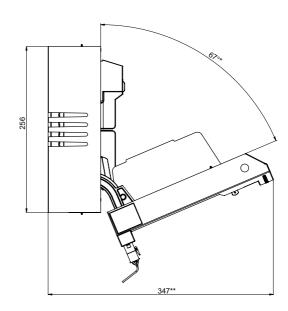


- * for FH2-3A/F= 67°
- ** for FH2-3A/F= 347

FH2-1S/F and FH2-3S/F



FH2-1S/F and FH2-3S/F

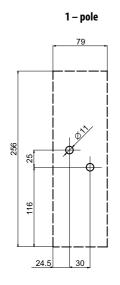


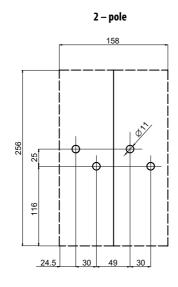
- * for FH2-1S/F= 78°
- ** for FH2-1S/F= 350

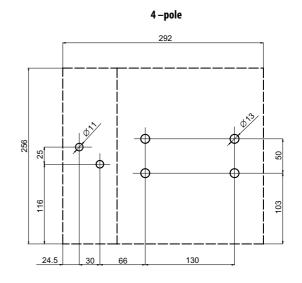


Dimensions

Clearance and drilling plans







Diagram

Remote signalling of fuse condition in 1-pole fuse switch-disconnector

State of contacts with not operated fuse-link: contacts 1-3 connected



5 A/250 V a.c. 0.2 A /250V d.c.

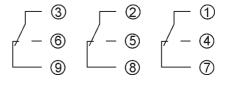
Remote signalling of hinged cover position in 1-pole and 3-pole fuse switch-disconnector

State of contacts with closed cover: contacts C — NO connected



Remote signalling of fuse condition in 3-pole fuse switchdisconnector

State of contacts with not operated fuse-link: contacts 1-3, 2-8, 3-9 connected



5 A/250 V a.c. 0.2 A /250V d.c.



Fuse switch-disconnector FH3 is intended for fuse-links with blade contacts size 3. It enables safe disconnection of rated currents and overcurrents according to the utilization category and operating voltage. Version with fuse moni-

It is equipped with a label for description of the protected circuit.

- Measuring holes in the cover.
- Basic version with terminal screws M12.
- Variability of connection sets including rear connection.
- It is possible to lock the cover.

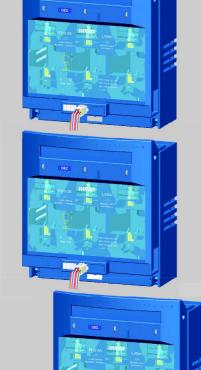
toring allows remote fuse-link operation signalling in every pole independently using standard visual indication of the fuse-links with blade contacts.

Mounting:

■ Directly on the panel with screws.







Fuse switch-disconnector up to 630A

Туре	Product code	Design	Weight [kg]	Packing [pcs]
FH3-1A/F	14374	single-pole, version with terminal screws M12	1.710	1

		single-pole, with fuse monitoring, connector with cable length 1 m,		
FH3-1S/F	14376	version with terminal screws M12,	1.722	1
		fuse switch-disconnector cover can be ordered as a spare part		

FH3-3A/F	14373	three-pole, version with terminal screws M12	4.280	1
----------	-------	--	-------	---

		three-pole, with fuse monitoring, connector with cable length 1 m,		
FH3-3S/F	14375	version with terminal screws M12,	4.295	1
		fuse switch-disconnector cover can be ordered as a spare part		

three-pole, with fuse monitoring, connector without cable,					
	FH3-3SB/F	14377	version with terminal screws M12,	4.290	1
			version allows arbitrary connection according to the user needs		





Connection sets

Description	Туре	Product code	Weight [kg]	Packing [pcs]
Prismatic clamp for 1-pole fuse switch-disconnector FH3-1./F, connection of Cu/Al conductors of cross-section 120 \div 300 mm ² , torque 10 Nm	CS-FH3-1P1	15800	0.145	1
Double prismatic clamp for 1-pole fuse switch-disconnector FH3-1./F, torque 10 Nm	CS-FH3-1P2	15801	0.205	1
Corque 17 mil				

cable lug connection for sciew in to,	torque 20 Mili		

CS-FH123-1Z 15594

0.173

Terminal for rear connection for 1-pole fuse switch-disconnector FH3-1./F,

Prismatic clamps - set of 3 pcs for 3-pole fuse switch-disconnector FH3-3./F,	CS-FH3-3P1	14384	0.435	1
connection of Cu/Al conductors of cross-section 120 \div 300 mm^2 , torque 10 Nm	CJ-1115-5F1	14304	0.433	'

Double prismatic clamps - set of 3 pcs for 3-pole fuse				
switch-disconnector FH3-3./F,	CS-FH3-3P2	14385	0.615	1
connection of Cu/Al conductors of cross-section 2x120 ÷ 240 mm ² , torque 10 Nm				

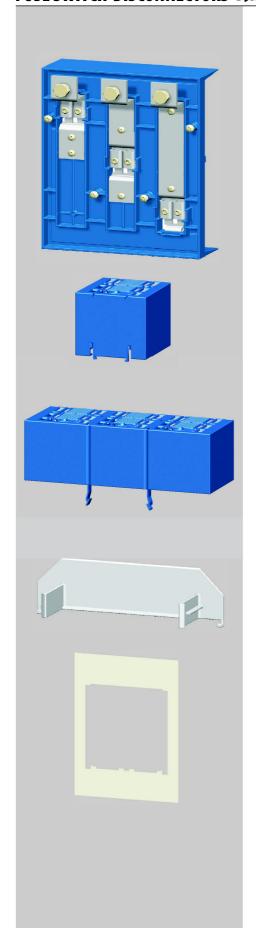
Terminals for rear connection - set of 3 pcs for 3-pole	CS-FH123-3Z	18229	0.520	1
fuse switch-disconnector FH3-3./F, torque 20 Nm	G-FR123-32	10223	0.320	'

Туре	Product code	Weight [kg]	Packing [pcs]
OD-FH123-VU	18230	0.006	1
	·	Type code	Type code [kg]

Remote hinged cover position signalling for FH3-1 and FH3-3,				
with cable length 1 m, possibility of mounting up to 2 signalling in one fuse switch-disconnector.	DD-FH-SK	12929	0.038	1

Assembly kit for assembling 2-pole or 4-pole device	OD-FH123-SS24	17266	0.060	1





Description	Туре	Product code	Weight [kg]	Packing [pcs]
Adapter for 60 mm busbar system, busbar thickness $5 \div 12$ mm,				
busbar width 12 \div 32 mm, for 3-pole fuse switch-disconnector FH3-3./F,	OD-FH3-AL60	19557	1.600	1
universal for cable outlet from the disconnector at the top or at the bottom				

Additional cover of connecting area, identical for				
both top and bottom areas,	OD-FH3-KP1	14388	0.075	1
for 1-pole fuse switch-disconnector FH3-1./F, it is possible to connect more	OD-FH3-KP1	14388	0.075	'
covers in series				

Additional cover of connecting area, identical				
for both top and bottom areas,	OD-FH3-KP3	14387	0.210	1
for 3-pole fuse switch-disconnector FH3-3./F, it is	טט-רחט-ארט	1430/	0,210	'
possible to connect more covers in series				

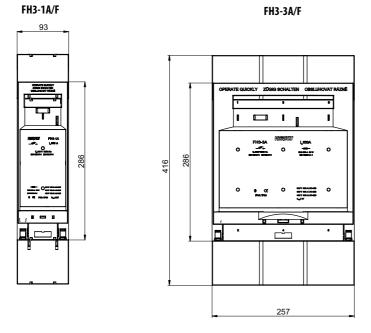
Barrier against accidental contact for FH3-3 OD-FH3-Z3 14390 0.040 1
--

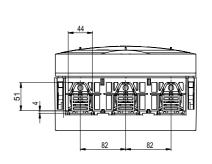
Front shield for FH3-3	OD-FH3-KR	14386	0.036	1
------------------------	-----------	-------	-------	---



Parameters		
Туре		FH3
Rated voltage	Un	690 V a.c. 250 V d.c.
Rated current		250 V G.C. 630 A
nateu current	I _n	AC23B at 500 V a.c. for FH3-3./F
		AC23B at 400 V a.c. for FH3-1./F
Utilization category		AC23B at 400 V a.c. 101 FD5-1./F AC22B at 690 V a.c.
		DC21B at 250 V d.c.
Thermal current with fuse-link	1	630 A
Thermal current with disconnecting knife ZP3	l _{th}	750 A
Rated frequency	I _{th}	40 ÷ 60 Hz
Rated insulation voltage	U _i	1000 V a.c.
nateu insulation voitage	U _i	120 kA for 400 V a.c./630 A
Conditional short-circuit current (RMS)	l _{kn}	50 kA for 500 V a.c./630 A
	MI	min. 25 kA for 690 V a.c./630 A
Impulse withstand voltage	U_{imp}	12 kV for FH3A/F
Fuse-link size		3
Max. power losses of the fuse-link	P_v	48 W
Power losses at I _n without fuse-link	P_{v}	49 W
Electrical durability	operating cycles	200 at 630 A
Mechanical durability	operating cycles	800
Degree of protection from front side, built-in device, cover closed		IP 30
(measuring holes filled)		IF 50
Degree of protection from front side, built-in device, cover opened		IP 20
Permissible ambient temperature		- 25 ÷ + 55 °C
Altitude above sea level		max. 2000 m
Pollution degree		3
Overvoltage category for 690 V a.c.		IV
Seismic resistance		0.25 ÷ 50 Hz/3g
Standards		IEC 60 947-1, -3 EN 60 947-1, -3
Approval marks		® C€ ®

Dimensions



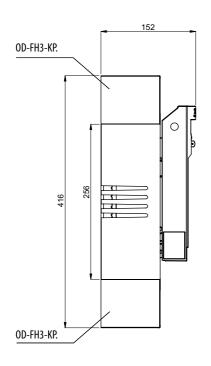


FH3-3A./F

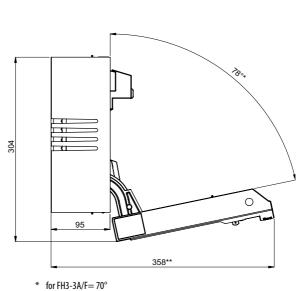


Dimensions

FH3-1A/F and FH3-3A/F

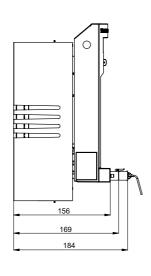


FH3-1A/F and FH3-3A/F

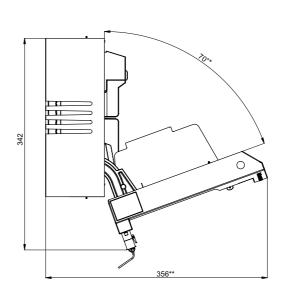


** for FH3-3A/F= 356

FH3-1S/F and FH3-3S/F



FH3-1S/F and FH3-3S/F



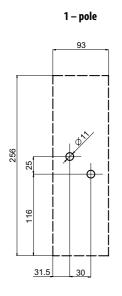
* for FH3-1S/F= 78°

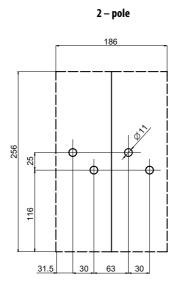
^{**} for FH3-1S/F= 358

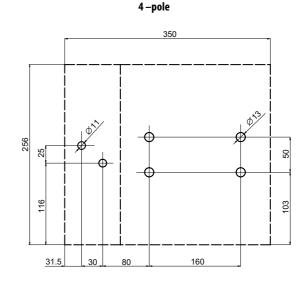


Dimensions

Clearance and drilling plans







Diagram

Remote signalling of fuse condition in 1-pole fuse switch-disconnector

State of contacts with not operated fuse-link: contacts 1 – 3 connected



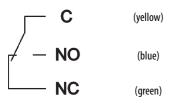
5 A/250 V a.c. 0.2 A /250V d.c.

Remote signalling of hinged cover position in 1-pole and 3-pole fuse switch-disconnector

5 A/250 V a.c.

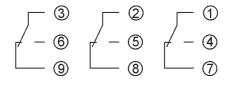
0.2 A /250V d.c.

State of contacts with closed cover: contacts C — NO connected



Remote signalling of fuse condition in 3-pole fuse switchdisconnector

State of contacts with not operated fuse-link: contacts 1-7, 2-8, 3-9 connected



5 A/250 V a.c. 0.2 A /250V d.c.



Fuse switch-disconnector LTL4a is intended for fuse-links with blade contacts size 4a. It enables safe disconnection of rated currents and overcurrents according to utilization

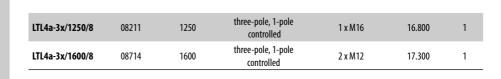
category and operating voltage. Basic part is made from glass reinforced polyester. The material is resistant both to mechanical load and high temperatures.

- Transparent cover is made from self-extinguishing polycarbonate, and contains a mechanical interlock, which protects the cover against undesirable opening at action of dynamic forces arising at short-circuiting.

High breaking capacity.

Fuse switch-disconnector 1250 and 1600 A

Туре	Product code	I <u>,</u> [A]	Design	Connection	Weight [kg]	Packing [pcs]
LTL4a-1x/1250/8	08213	1250	single-pole	1 x M16	5.600	1
LTL4a-1x/1600/8	14806	1600	single-pole	2 x M12	5.800	1





LTL4a-3x3/1250/8	07886	1250	three-pole, 3-pole controlled	1 x M16	17.700	1
LTL4a-3x3/1600/8	08212	1600	three-pole, 3-pole controlled	2 x M12	18.200	1













Description	Туре	Product code	Weight [kg]	Packing [pcs]
Hinged cover position signalling,				
at closed cover, contacts 1 and 4 are connected (see diagram for connection),	EMV-LTL4a	10423	0.005	1
in case of 3-pole version, it is mounted in the central pole.				

Positive operating contacts $\boldsymbol{Q},$ which enables safe operation				
of the fuse switch-disconnector even under extreme conditions.				
It prevents the blade contacts from getting in an intermediate position	/Q	-	0.010	1
between "MAKE" and "BREAK". It allows disconnect the load at any state				
of the current circuit. (In order add "/Q" after the type reference.)				

Disconnecting knife up to 1250 A	TM4a/1250A	10446	1.580	1

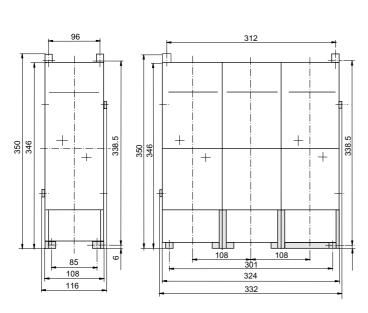
Discours action limits on to 1000 A				
Disconnecting knife up to 1600 A	TM4a/1600A	14801	1 680	1

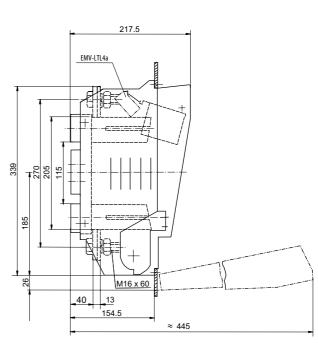


Parameters

Туре		LTL4a1250A		LTL4a1600A
Rated voltage	U _n		690 V a.c. 250 V d.c.	
Rated current	l _n	1250 A		1600 A
Utilization category		AC22B at 500 V a.c. AC21B at 500 V a.c.		AC22B at 400 V a.c. AC21B at 690 V a.c.
Rated making and breaking capacity		7500 A 3750 A 1875 A 1250 A	$400 \text{ V a.c., } \cos \phi = 0.35 \\ 500 \text{ V a.c., } \cos \phi = 0.35 \\ 690 \text{ V a.c., } \cos \phi = 0.35 \\ 220 \text{ V d.c., } L/R = 15 \text{ ms}$	7500 A 3750 A 1875 A 1600 A
Thermal current with fuse-link	l _{th}	1450 A		1750 A
Thermal current with disconnecting knife TM4a	l _{th}	1625 A		1900 A
Rated frequency	f		$40 \div 60 \text{ Hz}$	
Rated insulation voltage	U _i		750 V a.c.	
Conditional short-circuit current (RMS)	l _{kn}	50 kA	for 690 V a.c., 120 kA for 400	V a.c.
Impulse withstand voltage	U_{imp}		8 kV	
Fuse-link size			4a	
Max. power losses of the fuse-link	P _v	110 W		164 W
Power losses at I _n without fuse-link	P_v		67 W	
Electrical durability	operating cycles		200	
Mechanical durability	operating cycles		1000	
Degree of protection from front side, built-in device, cover closed (measuring holes filled)			IP 20	
Degree of protection from front side, built-in device, cover opened			IP 20	
Permissible ambient temperature			-25 ÷ +55 °C	
Altitude above sea level			max. 2000 m	
Pollution degree			3	
Overvoltage category for 690 V a.c.			III	
Seismic resistance acc. to VE ŠKODA			3 g/8 - 50 Hz	
Torque		50 ÷ 60 Nm		30 ÷ 45 Nm
Standards			IEC 60 947-1, -3 EN 60 947-1, -3	
Approval marks			® C€ ©	2

Dimensions



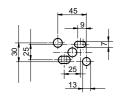




Dimensions



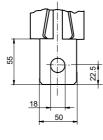
1 – pole

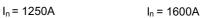




3 – pole

Terminals

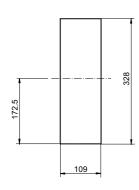


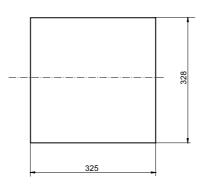


Clearance



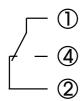
3 – pole





Remote signalling of hinged cover position in 1-pole and 3-pole fuse switch-disconnector

State of contacts with closed cover: contacts 1 – 4 connected





FUSE SWITCH-DISCONNECTORS - VERTICAL DESIGN FOR FUSE-LINKS WITH BLADE CONTACTS SIZE 00 and 000



3-pole fuse switch-disconnectors of vertical design up to 160 A are intended for direct mounting on busbar system with spacing 100 or 185 mm.

- 3-pole or 1-pole control.
- Cable outlet can be by simple turning the base up or down, while keeping the panel cutout unchanged.
- Lockable by padlocks in disconnected position (only SL00-3x3/100/Q/F).
- Connecting terminals prepared for:
 - terminal screws M8 F00/3
 - terminal clips S00/3
 - prismatic clamps P0070/3
- Standard delivery the fuse switch-disconnectors are equipped with terminal screws M8 on the cable outlet

Fuse switch-disconnector - vertical design up to 160A

Description	Туре	Product code	I _n [A]	Busbar spacing [mm]	Weight [kg]	Packing [pcs]
3-pole control, terminal screws M8, torque 12-15 Nm, connection cross-section: 1x10 - 95 mm ² - cable lugs 20x10 mm - busbars	SL00-3x3/100/Q/F	00262	160	100 ¹⁾	1.400	1
1-pole control, terminal screws M8, torque 12-15 Nm, connection cross-section: 1x10 - 95 mm²- cable lugs 20x10 mm - busbars	SL00-3x/F	14802	160	185	2.400	1

^{1) 185} mm with adapter AL185-SL00

Accessories				
Description	Туре	Product code	Weight [kg]	Packing [pcs]
Terminal clips - set of 3 pcs , torque 4.5 Nm, connection cross-section of conductors: Cu 1.5 ÷ 70 mm ² - untreated conductors	S00/3	00298	0.040	1
Cu 6x9x0.8 mm ₂ - flexo busbars	300,3	00270	0.010	<u>'</u>
Prismatic clamps - set of 3 pcs , torque 2.6 Nm, connection cross-section of conductors: Cu, Al 10 ÷ 70 mm ² - untreated conductors	P0070/3	00303	0.100	1
Compensation covers (set - top and bottom). To compensate mounting height				
of the fuse switch-disconnectors SL00-3x3/100/Q/F with disconnectors of sizes 1, 2 and 3.	BO/BU-SL00	00319	0.140	1
Hinged cover position signalling	FV 51 00 /100	00221	0.005	
for SL00-3x3/100/Q/F, at closed cover, the contacts 1 and 4 are connected (see diagram for connection)	EV-SL00/100	00321	0.005	1

Adapter for mounting on 185 mm busbar system, for connection of two fuse switch-disconnectors SL00-3x3/100/Q/F, enables compensation of mounting depth in combination with fuse switch-disconnectors - vertical design sizes 1, 2 and 3.	AL185-SL00	11281	0.800	1
Adapter for mounting on 185 mm busbar system, for connection of two fuse switch-disconnectors SL00-3x/F, enables compensation of mounting depth in combination with fuse switch-disconnectors - vertical design sizes 1, 2 and 3.	AL-SL00	11282	0.680	1