



F1 Series DC Switch-Disconnectors

► PRODUCT BENEFITS

- Lockable at OFF position
- IEC/EN60947.3 and AS 60947.3
- IP66 (PM, DC, EA, EP)
- Ith: 40A
- Ith (enclosed): 32A (no de-rating up to 70°C)
- ^{✱2} **Handle**: Direct lockable (1), External lockable black (3), External lockable red-yellow (4), 48x48 black lockable (6), 48x48 red-yellow lockable (7).
- ^{✱3} **Mounting Type**: DIN-Rail Mounting (DB), Panel Mounting (PM), Door Interlock (DC), Plastic enclosure (EP), Aluminum enclosure (EA).

► CODE

1	2	3	4	5	6	7	8	9	10	11	12
F	1	-	0	0	3	2	2	P	1	D	C
Series			Amperes			Poles ^{✱1}			Handle ^{✱2}	Mounting Type ^{✱3}	

DIN-Rail Mounting

D B



Panel Mounting

P M



Door Interlock

D C



Plastic enclosure

E P



Aluminium enclosure

E A

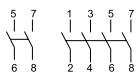
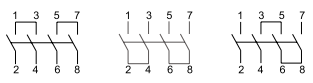




TECHNICAL DATA



Data according to IEC/EN60947-3:AS60947.3, GB/T14048.3. Utilization category DC-PV1/DC-PV2.

Main Parameters			
Rated insulation voltage	Ui	V	1500
Rated thermal current	Ith	A	40
Rated impulse withstand voltage	Uimp	V	8000
Rated short-time making capacity	Icw	A	1 kA, 1 S
Maximum cable cross sections (incl. jumper)			
Rigid	mm ²		4-16
Flexible	mm ²		4-10
Flexible (+multicore cable end)	mm ²		4-10
Torque			
Tightening torque terminal screws M4.	Nm		1.2 - 1.8
Tightening torque cover mounting screws ST4.2(304 stainless steel)	Nm		1.5 - 2.0
Tightening torque knob screws M3	Nm		0.5 - 0.7
Torque switch	Nm		0.9 - 1.3
Fixing torque for base mounting	Nm		1.1 - 1.4
General parameters			
Number of operating cycles with load	Cycles		3000
Number of operating cycles without load	Cycles		10000
Number of DC poles			2 or 4
Operation temperature	°C		-40 to +85 °C
Storage temperature	°C		-40 to +85 °C
Pollution degree			3
Overvoltage category			III
IP rating (PM, DC, EA, EP)			IP66
Main Contacts			
Rated thermal current	Ith		40 A
Rated insulation voltage	Ui		1500 V
Distance of contacts (per pole)			8 mm
Rated operational current Ie (DC-PV1 / DC-PV2)		DC-PV1	DC-PV2
2P (1string), 4P (2P+2P - 2 strings)* ¹ 	300V	32A	32 A
	600V	32A	32 A
	800V	32A	16 A
	1000V	16A	9 A
	1200V	13A	9 A
	1500V	6A	2A
	300V	40A	32 A
4P (1 string) * ¹ 	600V	40A	32 A
	800V	40A	32 A
	1000V	40A	32 A
	1200V	32A	32 A
	1500V	32A	18A

*¹ see poles and switching configurations table

► POLES AND SWITCHING CONFIGURATIONS*1

Type	2P	4P	4B	4T	4S
Contacts Wiring graph					
Schematic diagram					

► DIN-RAIL MOUNTING (DB)



Poles	Code	Code
2P	F1-00322P1DB	DF1CUA1
4P	F1-00324P1DB	
4B	F1-00324B1DB	
4T	F1-00324T1DB	
4S	F1-00324S1DB	

► PANEL MOUNTING (PM)



Poles	Code	Code	Code	Code	Code
2P	F1-00322P4PM	F1-00322P3PM	F1-00322P7PM	F1-00322P6PM	DF1CUA1
4P	F1-00324P4PM	F1-00324P3PM	F1-00324P7PM	F1-00324P6PM	
4B	F1-00324B4PM	F1-00324B3PM	F1-00324B7PM	F1-00324B6PM	
4T	F1-00324T4PM	F1-00324T3PM	F1-00324T7PM	F1-00324T6PM	
4S	F1-00324S4PM	F1-00324S3PM	F1-00324S7PM	F1-00324S6PM	



▶ DOOR INTERLOCK (DC)



					
Poles	Code	Code	Code	Code	Code
2P	F1-00322P4DC	F1-00322P3DC	F1-00322P7DC	F1-00322P6DC	DF1CUA1
4P	F1-00324P4DC	F1-00324P3DC	F1-00324P7DC	F1-00324P6DC	
4B	F1-00324B4DC	F1-00324B3DC	F1-00324B7DC	F1-00324B6DC	
4T	F1-00324T4DC	F1-00324T3DC	F1-00324T7DC	F1-00324T6DC	
4S	F1-00324S4DC	F1-00324S3DC	F1-00324S7DC	F1-00324S6DC	

▶ PLASTIC ENCLOSURE (EP)



		
Poles	Code	Code
2P	F1-00322P3EP	F1-00322P4EP
4P	F1-00324P3EP	F1-00324P4EP
4B	F1-00324B3EP	F1-00324B4EP
4T	F1-00324T3EP	F1-00324T4EP
4S	F1-00324S3EP	F1-00324S4EP

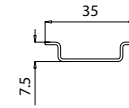
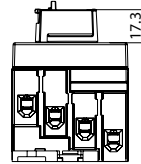
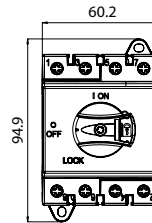
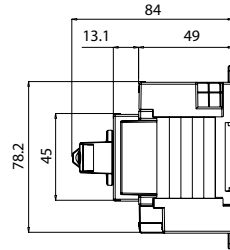
▶ ALUMINIUM ENCLOSURE (EA)



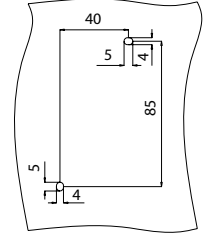
		
Poles	Code	Code
2P	F1-00322P3EA	F1-00322P4EA
4P	F1-00324P3EA	F1-00324P4EA
4B	F1-00324B3EA	F1-00324B4EA
4T	F1-00324T3EA	F1-00324T4EA
4S	F1-00324S3EA	F1-00324S4EA

► DIMENSIONS

DIN MOUNTING (DB)

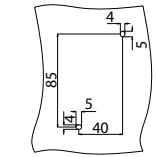
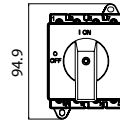
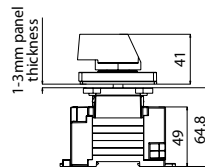
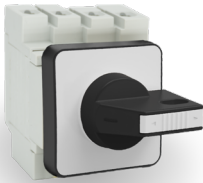


Switch bottom guide
rail installation size

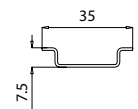


Screw installation size

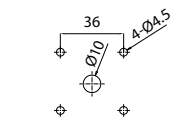
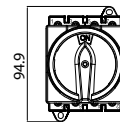
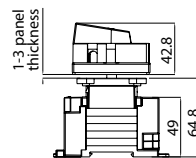
PANEL MOUNTING (PM)



Screw installation size



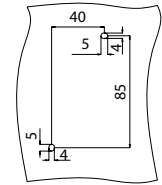
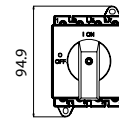
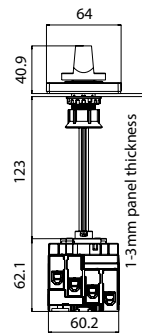
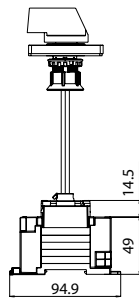
Switch bottom guide
rail installation size



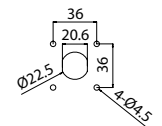
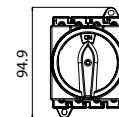
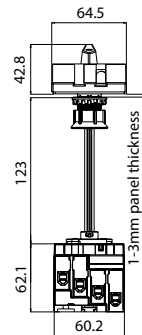
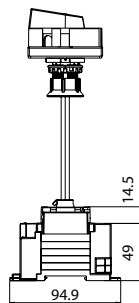
Head panel installation size

► DIMENSIONS

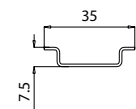
DOOR INTERLOCK (DC)



Screw installation size



Head panel installation size

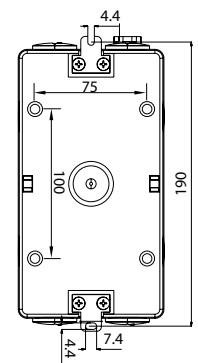
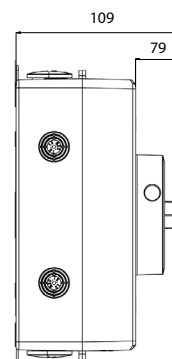
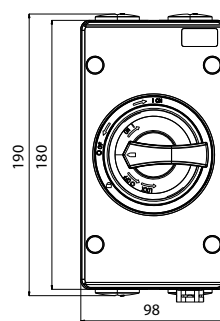


Switch bottom guide rail installation size

PLASTIC & ALUMINIUM ENCLOSED



Plastic



Aluminium

