

telergon  
gorlan

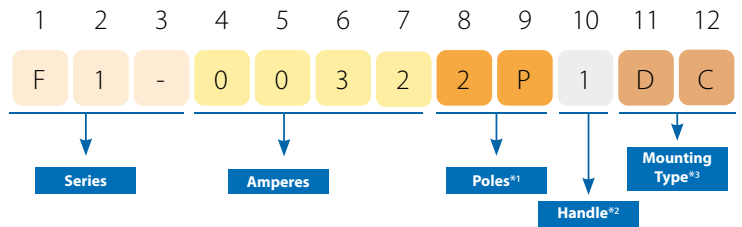


## F1 Series DC Switch-Disconnectors

► **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)
- <sup>⇨</sup> **Handle**: Direct lockable (1), External lockable black (3), External lockable red-yellow (4), 48x48 black lockable (6), 48x48 red-yellow lockable (7).
- <sup>⇨</sup> **Mounting Type**: DIN-Rail Mounting (DB), Panel Mounting (PM), Door Interlock (DC), Plastic enclosure (EP), Aluminum enclosure (EA).

► **CODE**



DIN-Rail Mounting

D B



Panel Mounting

P M



Door Interlock

D C



Plastic enclosure

E P



Aluminium enclosure

E A

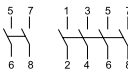
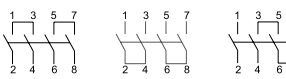




## TECHNICAL DATA



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 <sup>2</sup>	4-16
Flexible		mm <sup>2</sup>	4-10
Flexible (+multicore cable end)		mm <sup>2</sup>	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 (1 string), 4P (2P+2P - 2 strings)* <sup>1</sup> 		300V	32 A
		600V	32 A
		800V	32 A
		1000V	16 A
		1200V	13 A
		1500V	6 A
		1500V	2 A
4P (1 string)* <sup>1</sup> 		300V	40 A
		600V	40 A
		800V	40 A
		1000V	40 A
		1200V	32 A
		1500V	32 A
		1500V	18 A

\*<sup>1</sup> 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

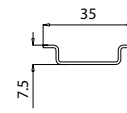
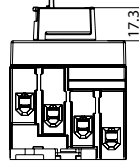
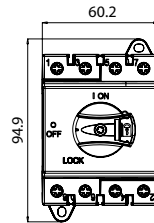
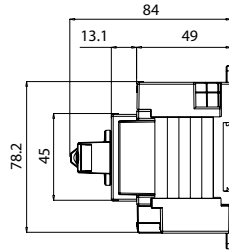
### ▶ ALUMINIUM ENCLOSURE (EA)



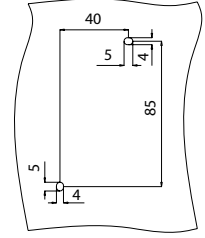
Poles	Code	Code
2P	F1-00322P3EA	F1-00322P4EA
4P	F1-00324P3EA	F1-00324P4EA
4B	F1-00324B3EA	F1-00324B4EA
4T	F1-00324T3EA	F1-00324T4EA
4S	F1-00324S3EA	F1-00324S4EA

## ► DIMENSIONS

### DIN MOUNTING (DB)

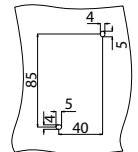
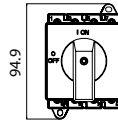
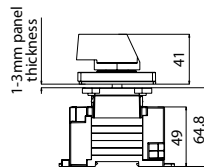


Switch bottom guide  
rail installation size

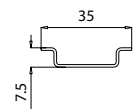


Screw installation size

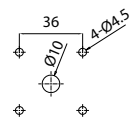
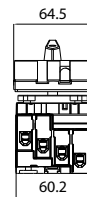
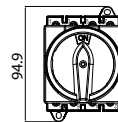
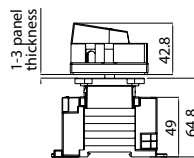
### PANEL MOUNTING (PM)



Screw installation size



Switch bottom guide  
rail installation size

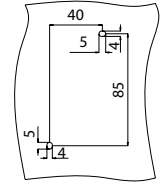
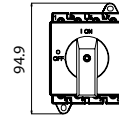
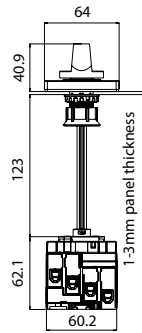
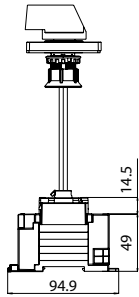


Head panel installation size

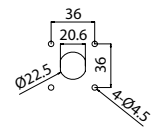
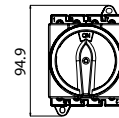
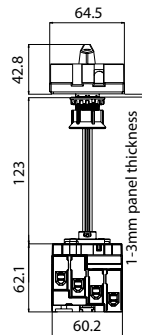
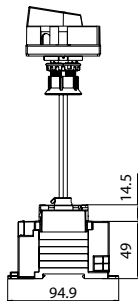


## ► DIMENSIONS

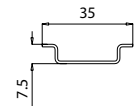
### DOOR INTERLOCK (DC)



Screw installation size



Head panel installation size

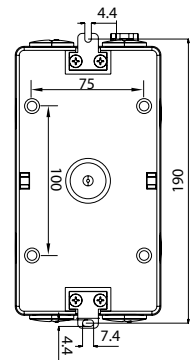
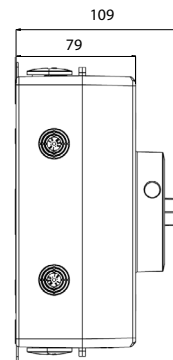
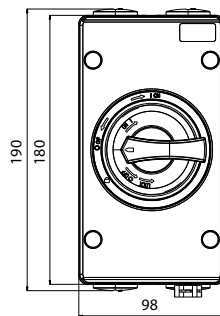


Switch bottom guide rail installation size

### PLASTIC & ALUMINIUM ENCLOSED



Plastic



Aluminium

