telergon
gorlan

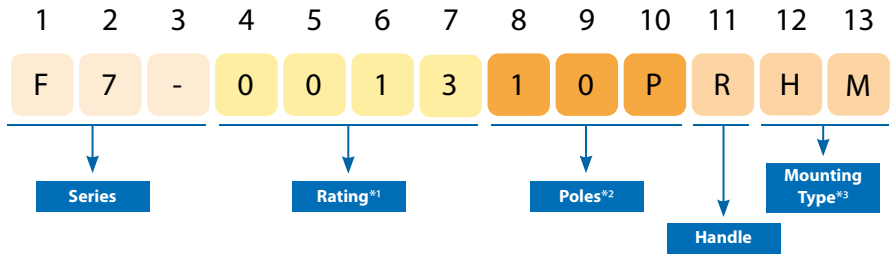


F7 Series
DC Multi-string Switch-Disconnector

www.telergon.com

gorlan

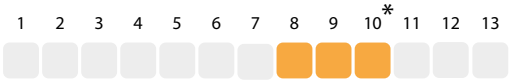
CODE

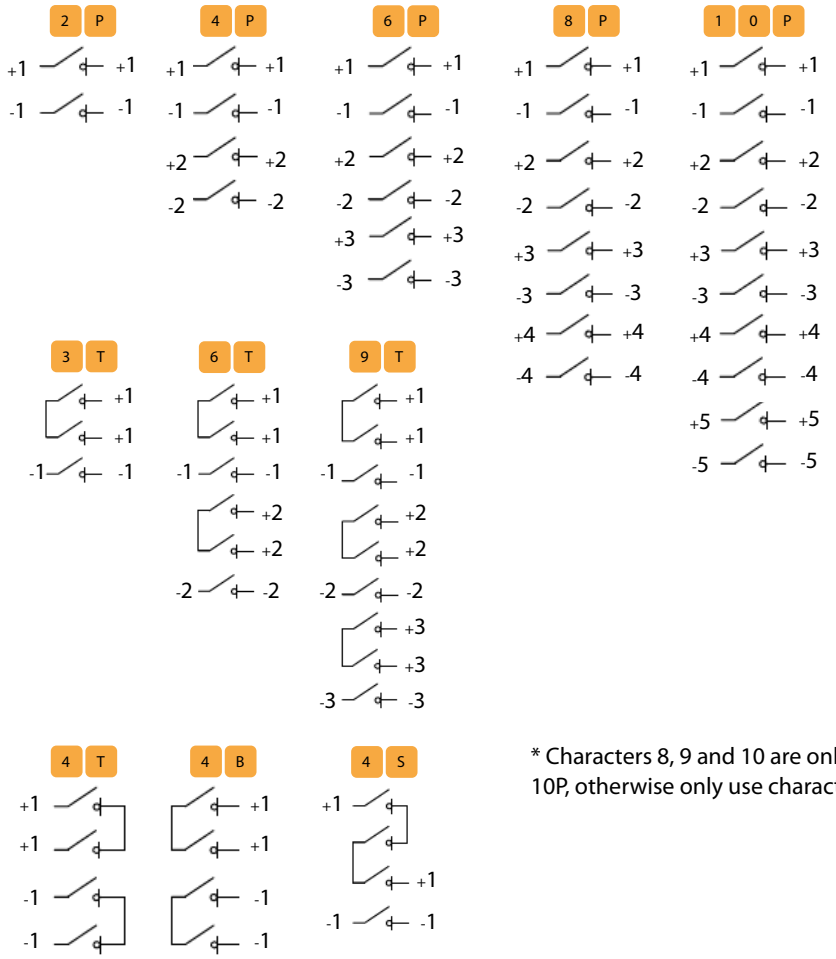


PRODUCT BENEFITS

- Up to 63A.
- Modular design, available 2 up to 10 poles.
- Dynamic sealing design and materials for an IP66 protection.
- DC 1500V insulation voltage and operation.
- IEC/EN60947-3, AS60947.3, UL508i (File UL E362647), GB/T14048.3
- TUV, CE, CB, UL, CCC standards.
- *3 Mounting Type: DIN Rail (DB), Panel Mounting (PM), Door Interlock (DC), Hole Mounting (HM), Plastic Enclosure (EL).
- Available AC/DC (single-phase and three-phase) switches.

POLES AND CONFIGURATIONS*2





* Characters 8, 9 and 10 are only used when it's 10P, otherwise only use characters 8 and 9.

series F7 Customised solutions



ENCLOSURE SOLUTIONS

- Grouping of strings or independent switching
- Plug & play design
- Customisable inputs (cable glands or MC4 connectors)
- IP65 protections



AC/DC SWITCH

- Simultaneous cutting of 1 to 3 strings (DC)

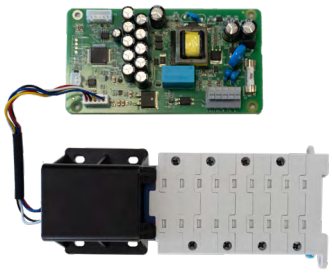
Single-phase (2P DC + 2P AC 230VAC 40A AC-21A)
Three-phase (6P DC +4P AC 400VAC 32A AC-21A)

For more information, consult.



COIL

- Switch tripping via shunt release coil
- Manual operation possible
- Simultaneous disconnection of up to 5 strings
- Manual reconnection
- Switch status signal for monitoring purposes



MOTORISED OPTION

- Remote operation of up to 4 strings simultaneously
- Disconnection in case of AC power loss (230 V)
- Disconnection due to high temperatures (>70 °C)

MOUNTING TYPES

DIN Rail

D B



Door interlock

D C



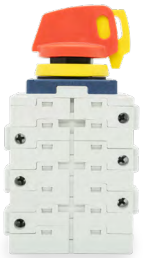
Panel Mounting

P M



Hole Mounting

H M



TECHNICAL DATA

Poles and configurations*2	Voltage / current (DC-PV1)					
	*1	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc
2P/4P/6P/8P/10P	0013	32A	26A	13A	10A	5A
	0020	40A	30A	20A	12A	6A
	0025	55A	45A	25A	15A	8A
	0030	63A	63A	50A	40A	32A
3T/6T/9T	0013	32A	32A	32A	23A	10A
	0020	40A	40A	40A	30A	13A
	0025	55A	55A	55A	40A	20A
	0030	50A	50A	50A	50A	40A
4T/4B/4S	0013	32A	32A	32A	26A	13A
	0020	40A	40A	40A	30A	20A
	0025	55A	55A	55A	40A	30A
	0030	50A	50A	50A	50A	50A

Poles and configurations*2	Voltage / current (DC-PV2)					
	*1	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc
2P/4P/6P/8P/10P	0013	32A	26A	13A	10A	5A
	0020	40A	30A	20A	12A	6A
	0025	40A	40A	25A	15A	8A
	0030	50A	50A	40A	32A	18A
3T/6T/9T	0013	32A	32A	32A	23A	10A
	0020	40A	40A	40A	30A	13A
	0025	40A	40A	40A	32A	20A
	0030	45A	45A	45A	45A	36A
4T/B/S	0013	32A	32A	32A	26A	13A
	0020	40A	40A	40A	30A	20A
	0025	40A	40A	40A	32A	25A
	0030	36A	36A	36A	36A	36A

Poles and configurations*2	Voltage / current (UL 508i file UL E362647)					
	*1	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc
2P/4P/6P/8P/10P	0013	30A	25A	13A	10A	5A
	0020	40A	30A	20A	13A	5A
	0025	40A	40A	25A	16A	10A
	0030	40A	40A	30A	16A	16A

TECHNICAL DATA

According to IEC/EN60947-3,AS60947.3:2018, UL508i, GB/T14048.3, Utilization category DC-PV1/DC-PV2

		A	0013	0020	0025	0030
Rated insulation voltage	Ui	V	1500			
Rated thermal current	Ith	A	32	40	55	63
Rated impulse withstand voltage	Uimp	V	8000			
Rated short-time withstand current (1s)	Icw	A	780			
Rated short-time making capacity	Icm	A	1200			
Maximum cable cross sections (incl. jumper)						
Rigid		mm2	4-16			
Flexible		mm2	4-16			
Flexible (+ multicore cable end)		mm2	4-16			
Torque						
Tightening torque terminal screws M4		Nm	1.2-1.8			
Tightening torque single hole mounting nut M16		Nm	2.0-2.3			
Tightening torque handle screws M3		Nm	0.5-0.7			
Torque switch		Nm	0.9-1.3			
General parameters						
Number of operating cycles with load	Cycles		3000			
Number of operating cycles without load	Cycles		10000			
Distance of contacts (per pole)			8mm			
Operation temperature*			-40° to +85°			
Store temperature			-40° to +85°			
Pollution degree			3			
Overvoltage category			II			
IP rating (PM, DC)			IP66			

* UL up to 70°

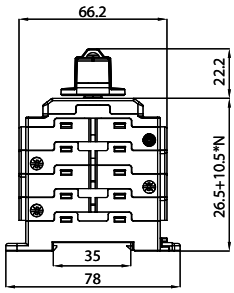
DIMENSIONS

DIN RAIL MOUNTING

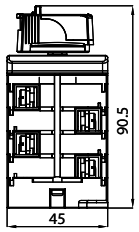


Lockable

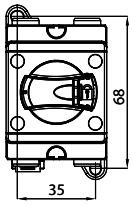
R D B

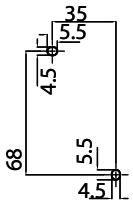


Wiring diagram

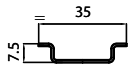


N: Number of poles





Screw mounting



DIN mounting

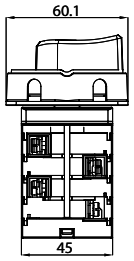
=

PANEL MOUNTING

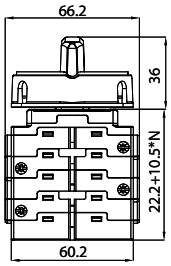


Lockable

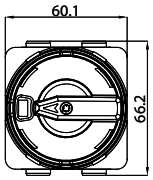
R P M

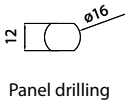


Wiring diagram



N: Number of poles





Panel drilling

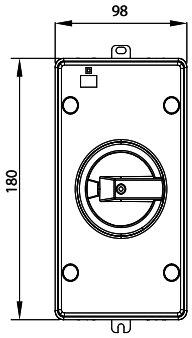
ENLOSED SOLUTIONS

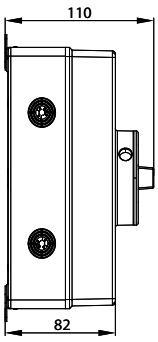


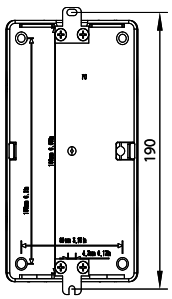
Lockable

E L

*Option to add connectors







DIMENSIONS

HOLE MOUNTING



Without lock

H M

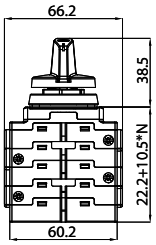


Lockable

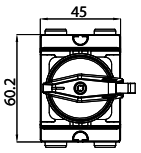
R H M

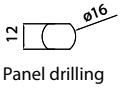


Wiring diagram

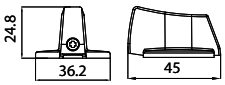


N: Number of poles

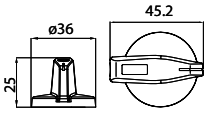




Panel drilling



HM



RHM

DOOR INTERLOCK



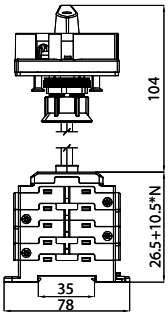
Lockable

D C

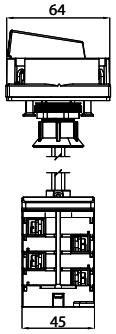


Lockable

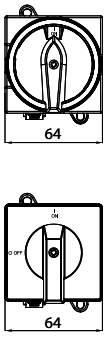
R D C

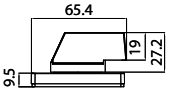


Wiring diagram



N: Number of poles





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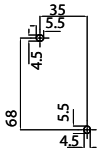
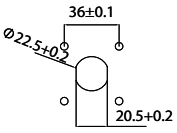


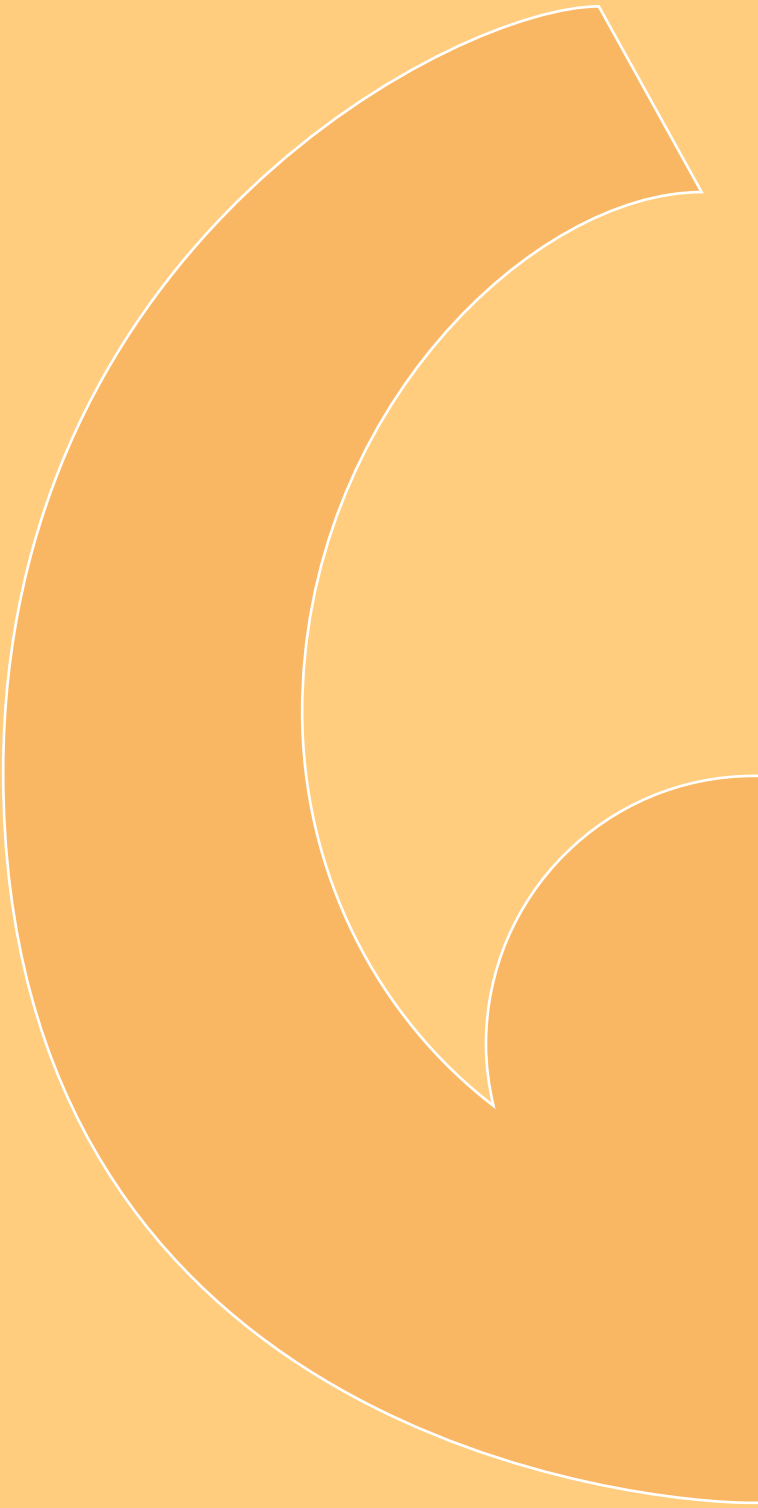
Screw mounting



DIN Rail



Panel drilling



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