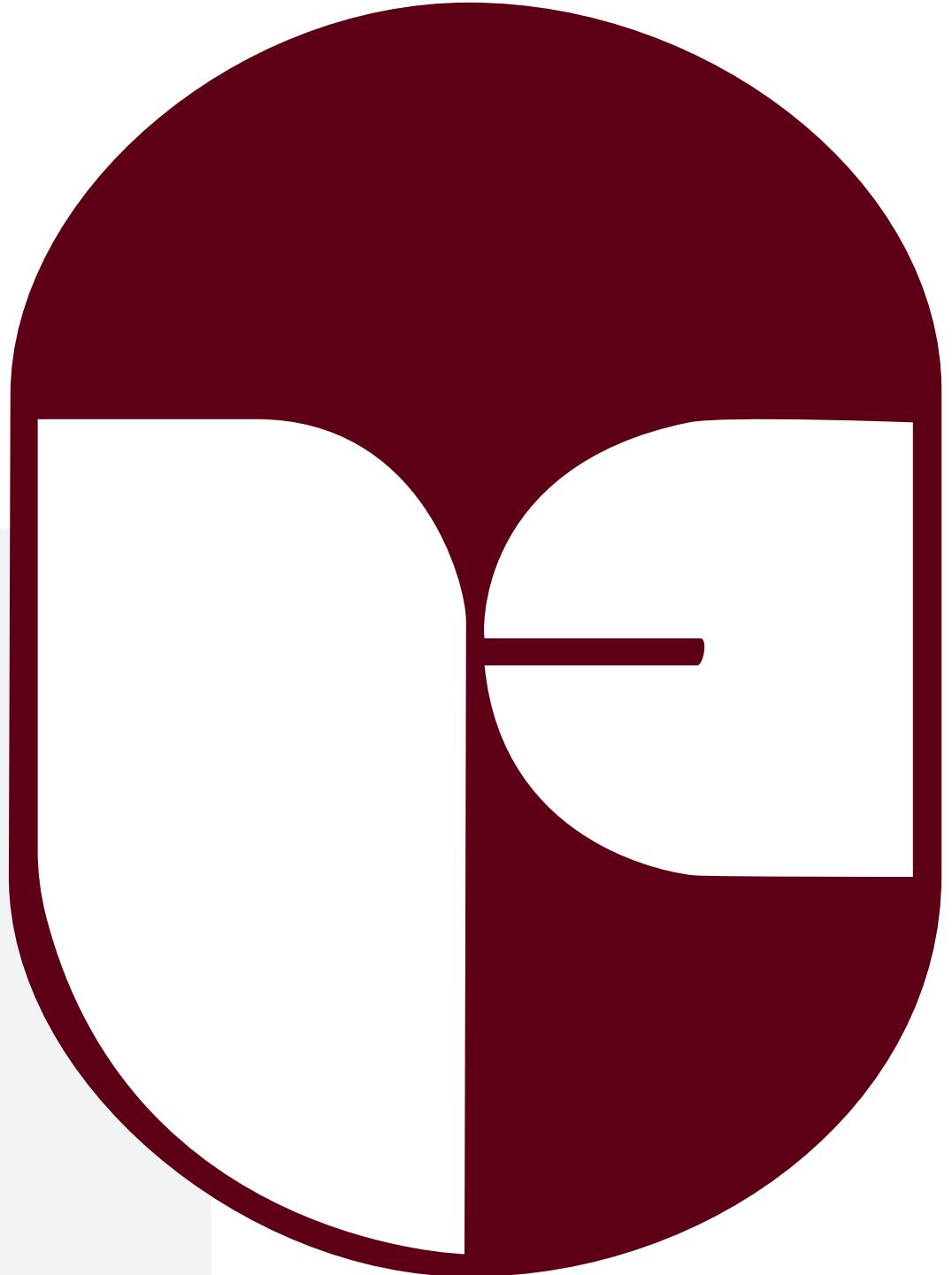


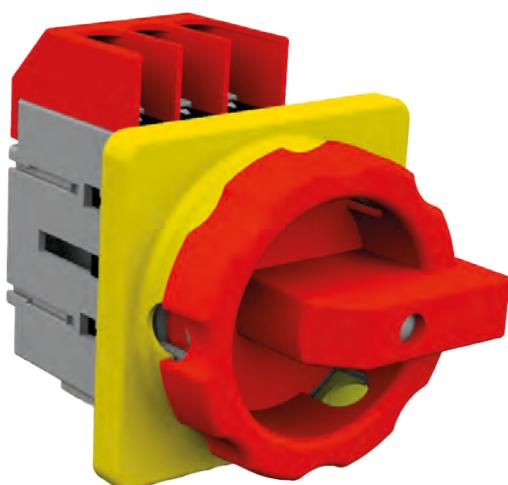
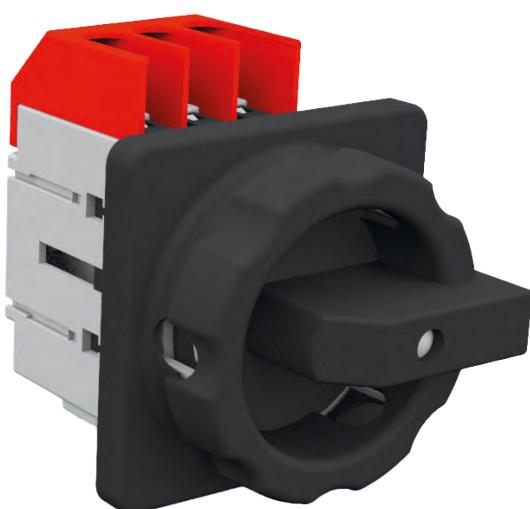
SERIE\_SERIES ST



# **SEZIONATORI RETROPORTELLA**

**DOOR MOUNTING SWITCHES**

**ST 16A - 250A**



## SERIE SERIES ST

### GENERALITÀ

Gli interruttori-sezionatori modulari retroportella della serie ST, consentono l'interruzione e il sezionamento sotto carico di macchine e linee di bassa tensione con correnti nominali da 16 a 250 A.

### IMPIEGO

Gli apparecchi della serie ST sono abitualmente impiegati nelle seguenti funzioni:

- Interruttori di comando
- Interruttore di EMERGENZA
- Interruttore principale secondo EN 60204-1
- Sezionatore

### CARATTERISTICHE GENERALI

Alto potere d'interruzione (AC 22 A - AC 23 A)

Costruzione compatta, ad ingombro minimo

Doppia interruzione per ogni polo

Elevata durata meccanica ed elettrica, contatti argentati, viti imperdibili testa croce/cacciavite

Grado di protezione IP50 (IP65 a richiesta)

Esecuzione modulare montaggio su portella tramite 4 viti, oppure con foro diametro 22mm (solo versione IP65)

A vite, finestra modulare 45 mm.

Calotta coprimorsetti inclusa

### GAMMA

ST1 16 - 25 - 32 - 40 - 63 A

ST2 80 A

ST3 100 - 125 A

ST4 180 - 250 A

### POLI AGGIUNTIVI

Su ogni lato dell'interruttore possono essere installati il 4° polo N per il sezionamento del neutro, un morsetto passante, e un blocchetto di contatti ausiliari (INA+INC).

I contatti ausiliari sono anticipati in apertura rispetto ai contatti di potenza, mentre la chiusura può essere ritardata o contemporanea.

### COMANDO

Maniglia con blocco porta, nera, o di emergenza, con possibilità di tre blocchi lucchettabili in posizione di zero

### CONDIZIONI NORMALI DI SERVIZIO, MONTAGGIO E TRASPORTO

Temperatura ambiente di immagazzinamento e trasporto - 25°C + 55°C

Temperatura ambiente di funzionamento - 20°C + 40°C

Per condizioni di impiego diverse consultare il costruttore.

### CONFORMITÀ ALLE NORME

IEC 60947-1|IEC 60947-3|UNI EN 60947-1|UNI EN 60947-3|UL 508A

### CERTIFICATI E OMologazioni

UL | IEC | CSA | EAC

### GENERALITIES

The modular switch disconnectors of ST series, allow the breaking and the disconnecting on load of equipment on low voltage at nominal current from 16 to 250 A.

### USE

The switch disconnectors of ST series are commonly used for the following purposes:

- Control switches
- Emergency Switches
- Main Switches, following EN 60204-1 rules
- Disconnector

### GENERAL CHARACTERISTICS

High breaking capacity (AC 22 A - AC 23 A)

Double break contacts on each pole, silver plated contacts, captive screws

High electrical and mechanical endurance

Resistant to damp heat

IP50 degree of protection (IP65 under request)

Extremely compact construction,  
Modular execution, basic mounting with 4 screws, or with a 22mm diameter hole(IP65 version only)  
Contact covers included in each package

### RANGE

ST1 16 - 25 - 32 - 40 - 63 A

ST2 80 A

ST3 100 - 125 A

ST4 180 - 250 A

### ADDITIONAL POLES

Fourth neutral pole makes earlier and opens later than the phase contacts. Fourth pole solid neutral.

Earth pole. Contemporary pole under request.

A 4<sup>th</sup> Pole (or a solid neutral), or Auxiliary contacts can be installed on each side of the switch disconnector.

The auxiliary contacts are advanced in opening with respect to the power contacts, while the closing can be delayed or simultaneous.

### OPERATING MECHANISM

Door interlock, black or emergency handle padlockable, with up to three padlocks in 0 position.

### STANDARD SERVICE, MOUNTING AND TRANSPORT CONDITIONS

Transport and storage ambient temperature - 25°C + 55°C  
working ambient temperature - 20°C + 40°C

For other operating conditions please contact the manufacturer.

### CONFORMITY TO STANDARDS

IEC 60947-1|IEC 60947-3|UNI EN 60947-1|UNI EN 60947-3|UL 508A

### CERTIFICATES AND APPROVALS

UL | IEC | CSA | EAC



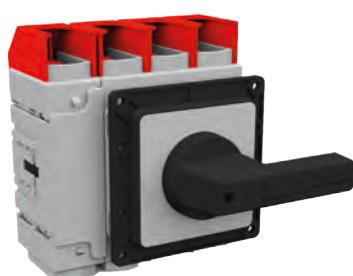
**ST1**



**ST2**



**ST3**



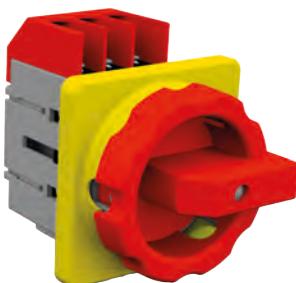
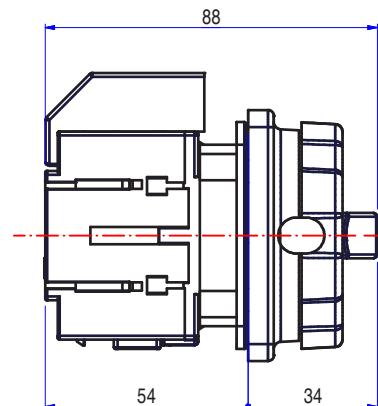
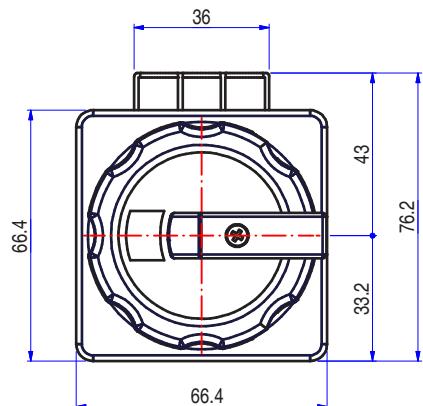
**ST4**

<b>Corrente nominale Rated current</b>	<b>MANIGLIA NERA _black handle</b>		<b>MANIGLIA EMERGENZA _emergency handle</b>		<b>MANIGLIA NERA _black handle</b>		<b>MANIGLIA EMERGENZA _emergency handle</b>	
	<b>A</b>	<b>POLI _POLES</b>	<b>CODICE / CODE</b>	<b>POLI _POLES</b>	<b>CODICE / CODE</b>	<b>POLI _POLES</b>	<b>CODICE / CODE</b>	<b>POLI _POLES</b>
16	3	19300R	3	19310R	4	19330R	4	19350R
25	3	19301R	3	19311R	4	19331R	4	19351R
32	3	19302R	3	19312R	4	19332R	4	19352R
40	3	19303R	3	19313R	4	19333R	4	19353R
63	3	19304R	3	19314R	4	19334R	4	19354R
<b>ST2</b>	80	3	19206R	3	19216R	4	19236R	4
	100	3	19207R	3	19217R	4	19237R	4
<b>ST3</b>	125	3	19701R	3	19711R	4	19731R	4
	180	3	19704R	3	19714R	4	19734R	4
<b>ST4</b>	250	3	19705R	3	19715R	4	19735R	4

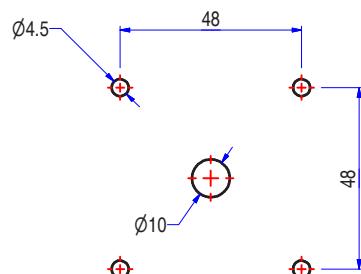
## SERIE\_SERIES ST

					ST1				ST2		ST3		ST4	
Corrente Nominale _rated operating current	Ie		A		16	25	32	40	63	80	100	125	180	250
Tensione di Esercizio _rated operating voltage	Ue		V		690	690	690	690	690	690	690	690	690	690
Tensione Nominale di isolamento _rated insulation voltage	Ui		V		690	690	690	690	690	690	690	690	690	690
Tensione Nominale Tenuta di Impulso _rated surge withstand capacity	Uimp		kV		6	6	6	6	6	6	6	6	8	8
Corrente nominale Termica a 40°C _conventional free air thermal current at 40°C	Ith		A		16	25	32	40	63	80	100	125	180	250
Corrente Nominale di Impiego _utilization category	AC-21A	415 V	A	—	—	—	—	—	—	—	—	125	—	250
		500 V	A	—	—	—	—	—	—	—	—	—	—	—
		690 V	A	16	25	32	40	63	—	—	125	—	—	250
	AC-22A	415 V	A	—	—	—	—	—	—	—	—	125	—	230
		500 V	A	—	—	—	—	—	—	—	—	—	—	—
		690 V	A	9	11	13	17	22	—	—	—	—	—	—
	AC-23A	415 V	A	16	19	22	29	41	43	70	84	—	224	—
		500 V	A	—	—	—	—	—	—	—	—	—	—	—
		690 V	A	9	11	13	17	21	22	34	41	—	—	—
Potere di Chiusura _rated operating power	AC23A	415 V	kW	7.5	9	11.5	15	22	37	45	90	132		
		500 V	kW	—	—	—	—	—	—	—	—	—	—	—
		690 V	kW	7.5	9	11.5	15	18.5	30	37	45	55		
Corrente di breve durata per 1 sec _Short-circuit withstand current 1 sec	Icw	400 V	kA	0.5	0.5	0.5	1	1	1.26	2	2	4	4	4
Corrente di cortocircuito condiziona- ta da fusibile 690 V _rated conditional short-circuit current at 690 V	tipo di fusibili	gG	A	25	25	50	50	63	80	100	125	200	250	
Potenza dissipata per polo _power loss per pole			W	0,4	0,9	1,5	2,4	3,6	5,5	7,5	12	36	36	
Contatti Ausiliari _auxiliary contacts	Icc	rms	kA	5	5	5	5	5				—	—	
Interruttore pilota _pilot switch	AC 15	415 V	A	10	10	10	10	10	10	10	10	10	10	10
Sezione Cavo _cable size	flessibile _flexible		mm <sup>2</sup>	2,5-16	2,5-16	2,5-16	2,5-16	2,5-16	2,5-35	4,0-50	4,0-50	16-185	16-185	
Peso netto _Net weight	3P	Kg		0,195	0,195	0,195	0,195	0,195	0,36	0,425	0,425	1,88	1,88	
	4P			0,23	0,23	0,23	0,23	0,23	0,425	0,52	0,52	2,335	2,335	

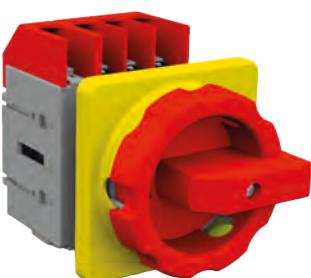
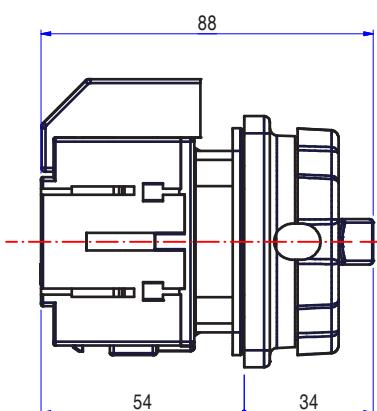
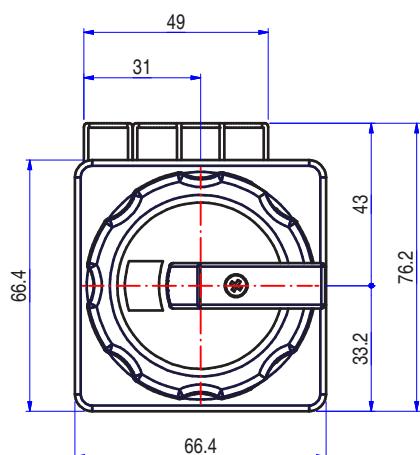
## ST1 3x16 ÷ 63A | ST1 3x16 ÷ 63A EM



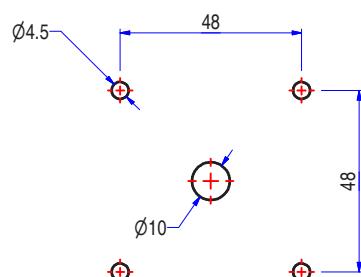
Foratura portella \_Door drilling



## ST1 4x16 ÷ 63A | ST1 4x16 ÷ 63A EM

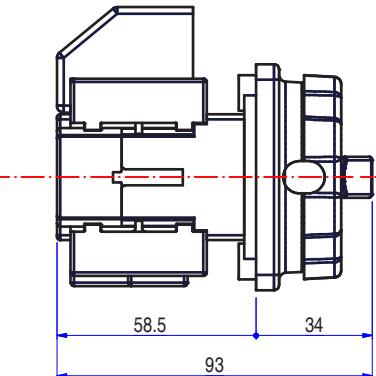
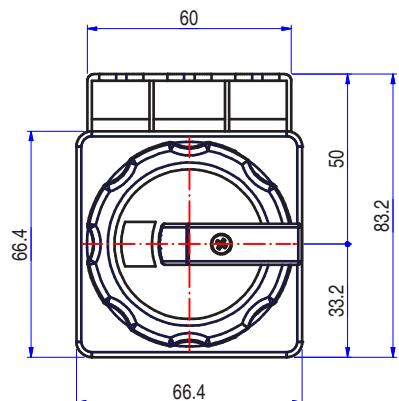
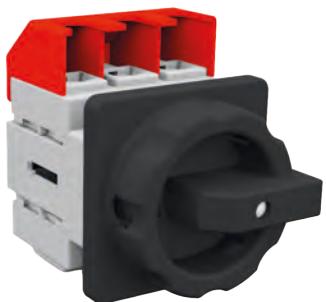


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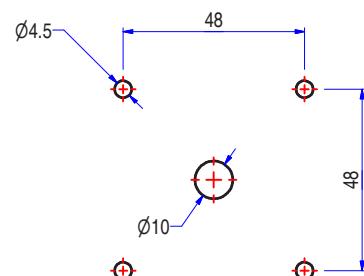
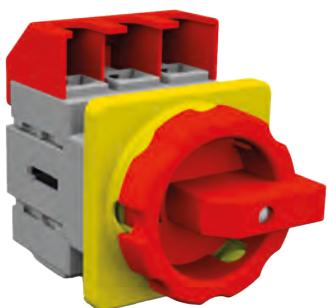


## SERIE\_SERIES ST

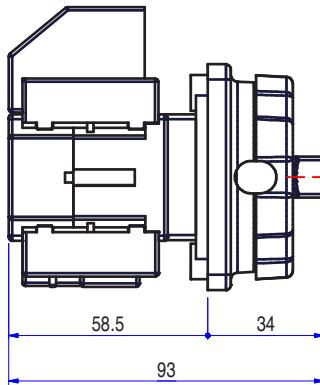
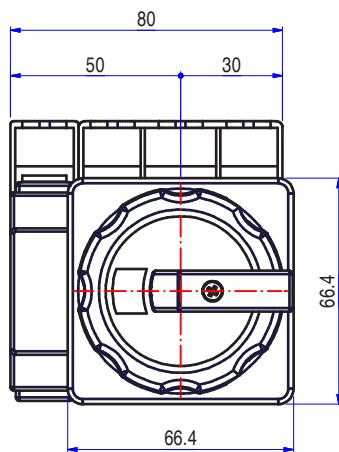
### ST2 3x80A | ST2 3x80A EM



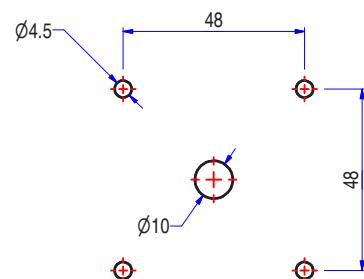
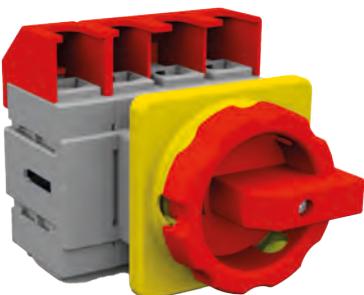
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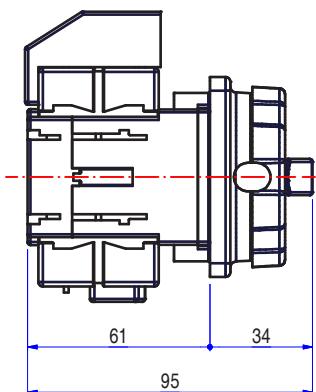
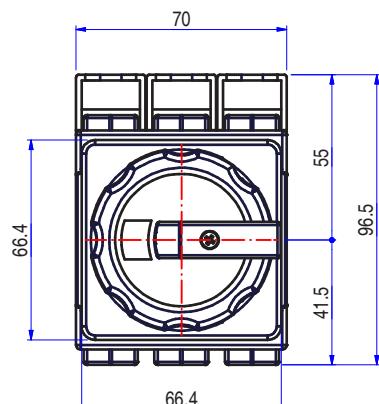
### ST2 4x80A | ST2 4x80A EM



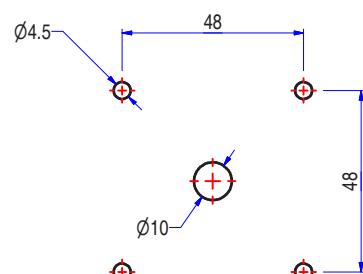
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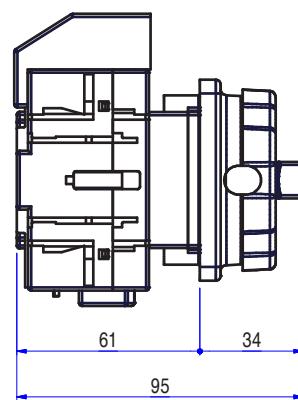
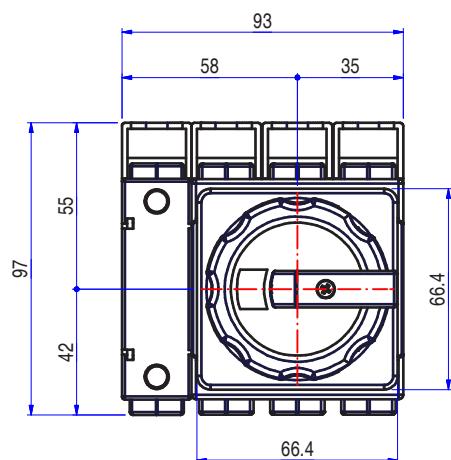
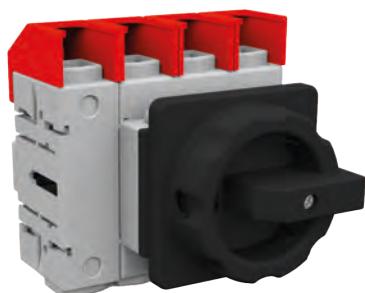
## ST3 3x100 ÷ 125A | ST3 3x100 ÷ 125A EM



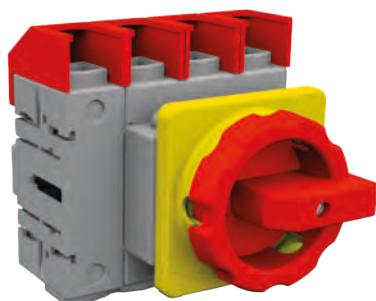
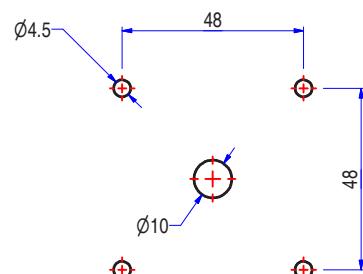
Foratura portella \_Door drilling



## ST3 4x100 ÷ 125A | ST3 4x100 ÷ 125A EM

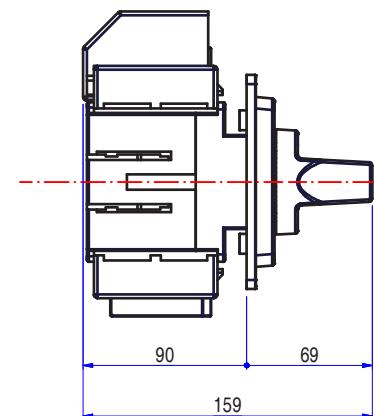
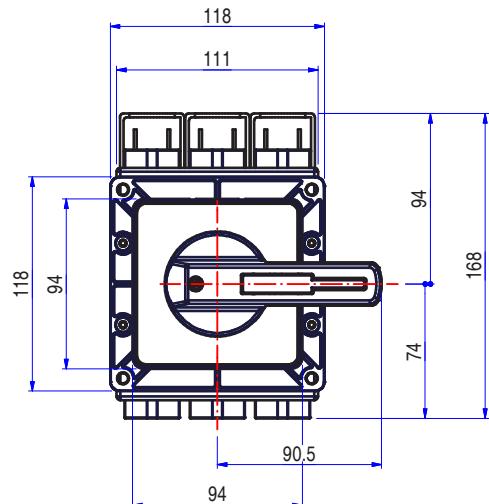
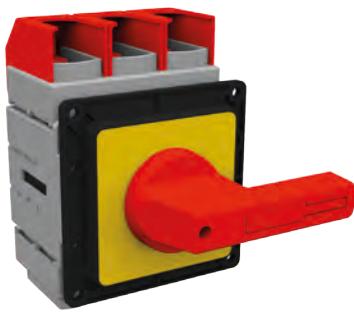
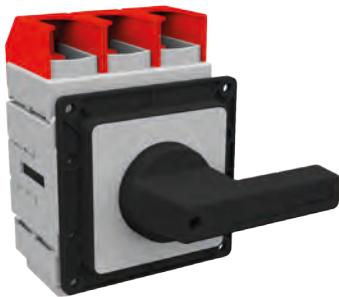


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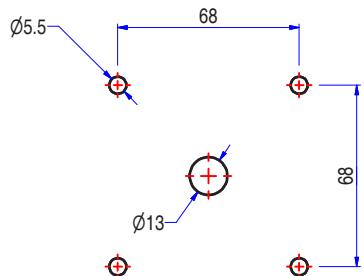


## SERIE\_SERIES ST

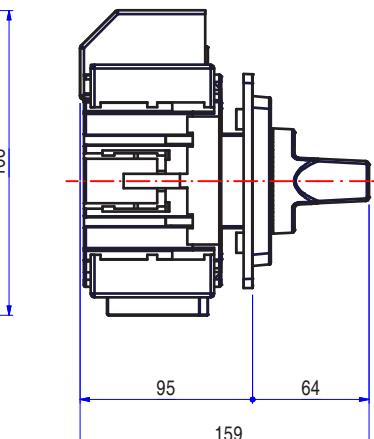
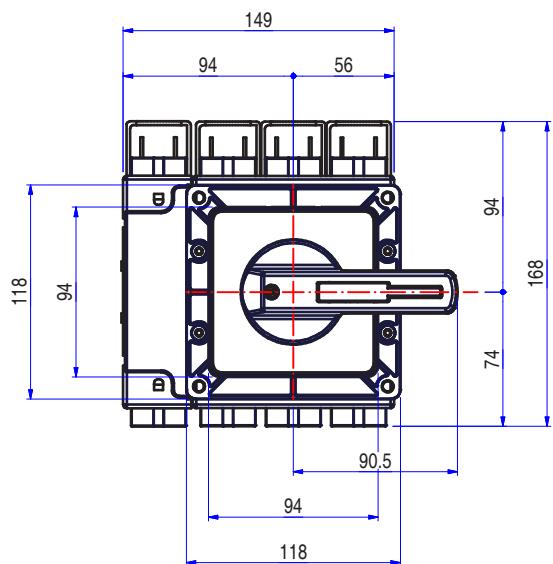
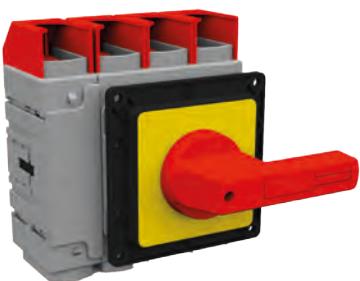
### ST4 3x180 ÷ 250A | ST4 3x180 ÷ 250A EM



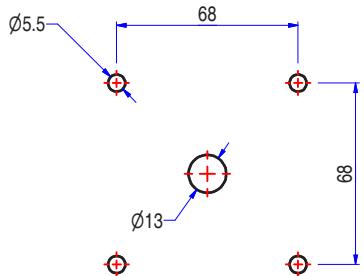
Foratura portella \_Door drilling



### ST4 4x180 ÷ 250A | ST4 4x180 ÷ 250A EM



Foratura portella \_Door drilling



## ACCESSORI \_ACCESSORIES



Tipo _Type	A	4° Polo (neutro anticipato) _4th pole (make early, open late)	4° Polo (neutro contemporaneo) _Contemporary 4th Pole	Neutro passante _Solid neutral	Contatti ausiliari (1NA+1NA) _Aux Contacts (1NO+1NC)
	16	19320R-NA16	19320R-NC16	19320R-SN16	19429R
	25	19320R-NA25	19320R-NC25	19320R-SN25	19429R
<b>ST1</b>	32	19320R-NA32	19320R-NC32	19320R-SN32	19429R
	40	19320R-NA40	19320R-NC40	19320R-SN40	19429R
	63	19320R-NA63	19320R-NC63	19320R-SN63	19429R



<b>ST2</b>	80	19418R-NA80	19418R-NC80	19418R-SN80	19429R
	100				19429R



<b>ST3</b>	100	19450R-NA125	19450R-NC125	19450R-SN125	19429R
	125				19429R

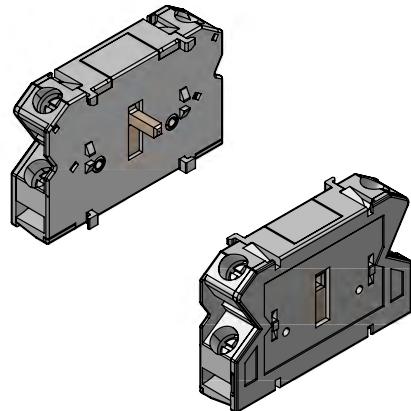


<b>ST4</b>	125	19450R-NA250	19450R-NC250	19450R-SN250	19429R
	180				19429R

250

## SERIE\_SERIES ST

### CONTATTI AUSILIARI 1NA+1NC \_aux contacts 1NA+1NC



Codice \_code: 19429R

Rated insulation voltage	v	500
Thermal Uninterrupted Current	A	10
120v	A	6
220- 240v	A	3
380-415v	A	1,8
500v	A	1,4
125v	A	1,1
250v	A	0,3
solid wire	mm <sup>2</sup>	2 x0,75-4
flexible with. wire end ferrules	mm <sup>2</sup>	2 x0,75-4
Tightening torque clamps	Nm	0,8 - 1,1