

SONTHEIMER

Apparecchiature elettriche

Catalogo generale

Interruttori a camme, di sicurezza e sezionatori.
Dati tecnici.



Blumel Srl Electrical Equipments

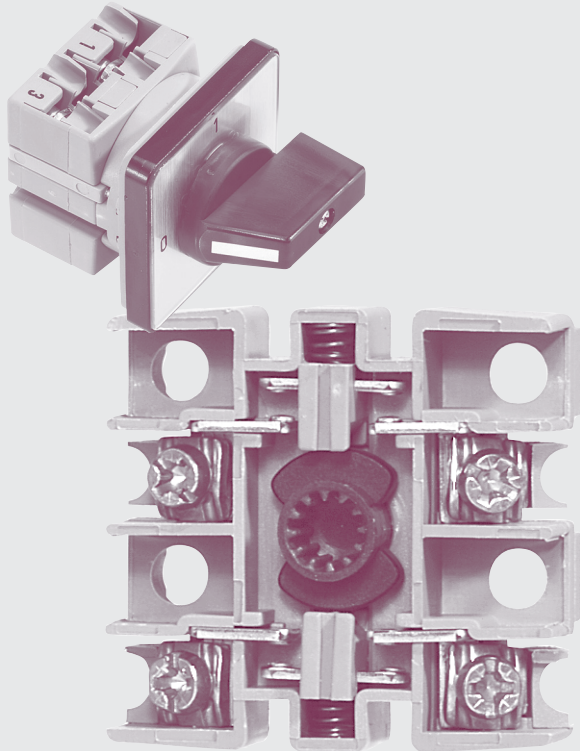
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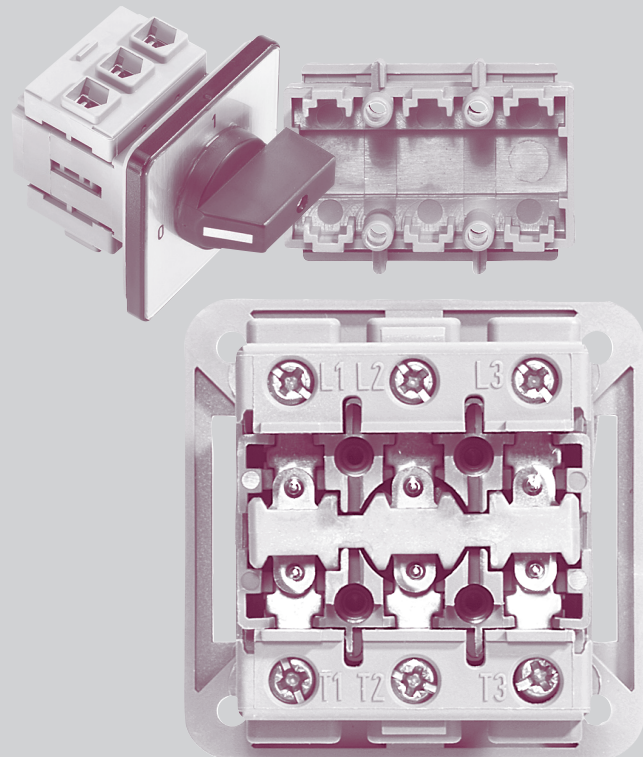
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Interruttori a camme



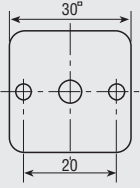
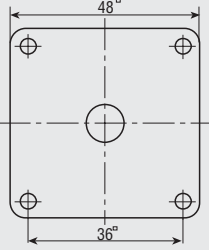
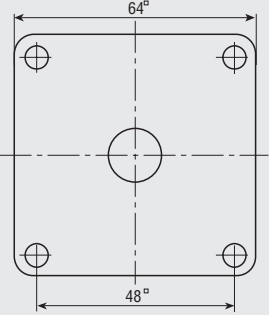
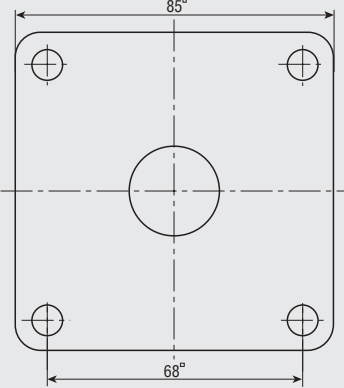
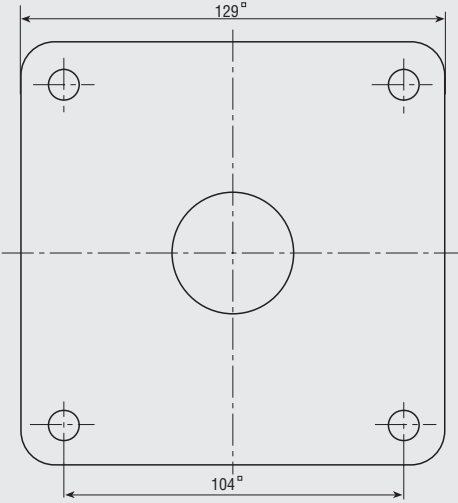
- Molteplici sono le possibilità d'impiego, grazie agli svariati accessori.
- Costruzione compatta, l'elemento base é una cella.
- Sono possibili 2 percorsi di corrente per cella ad entrambi i lati.
- Il gruppo D00 e D0 può essere equipaggiato con contatti dorati.
- Prigionieri ed albero di comando sono in acciaio.

Sezionatori



- Contatti protetti IP20 a norme VDE/IEC.
- Viti imperdibili, morsetti accessibili frontalmente.
- Possibilità di aggiungere contatti ausiliari.
- Apertura obbligata dei contatti.
- Possibilità di aggiungere svariati accessori
- Alta sicurezza di funzionamento grazie agli ottimi materiali usati.

Gruppo

	Calibro	Corrente continua I_{th} aperto VDE 0660 Parte 1 A	poco induttivo AC 1/21, 3x400 V kW	Interruzione di potenza AC 3/23, 3x400 V kW	Carico max. ammissibile VDE 0660 Teil 1 A
D00 	4	10	3,5	2,2	10
D0 	8	25	7	5,5/7,5	25
	11	25	7	5,5/7,5	25
	12	20	6	4	20
D1 	16	25	10,0	7,5	25
	20	32	12,5	9,0	32
	32	45	20,0	11,0	45
	40	63	25,0	15,0	63
	55	80	36,0	19,0	80
D2 	50	70	32,0	18,0	70
	63	100	40,0	22,0	100
	100	125	62,0	27,0	125
	126	200	72,0	40,0	200
D3 	125	130	79,0	38,0	130
	250	315	158,0	64,0	315
	L 400	480	200,0	64,0	485
	L 600	800	200,0	64,0	485
	L 800	1100	200,0	64,0	485
	L 1200	1200	200,0	64,0	485
	L 1600	1600	200,0	64,0	485

Modalità d'ordine

Nell'ordinazione di interruttori a camme sono necessari i seguenti dati:

Funzione interruttore . . . Interruttore 3poli	A3				
Calibro 8	8				
Esecuzione fissaggio centrale		ZM			
Accessori manopola nera			NS		
Esecuzioni speciali . . . spia incorporata				Z5	
Sigla completa A3/	8	ZM/	NS/	Z5	

SONTHEIMER Apparecchiature elettriche

Schema contatti

Per ordinazioni o richieste di commutatori speciali, Vi preghiamo di inserire il programma dei contatti desiderati indicando il tipo di esecuzione ed il calibro. (vedi esempio sottoindicato)

Motivi tecnici possono rendere necessaria una nuova disposizione degli angoli di commutazione dove comunque la funzione dell'interruttore non viene pregiudicata.

Calibro	4	8	11	12	16	20	32	40	63	100	126	125	250
Esecuzione	E,ZM	E, V, S, ZM, VZ, VZM, T, PLKM,	E, V, S, ZM, VZ, VZM, T, PLKM,	E, V, S, ZM, VZ, VZM, T, PLKM,	E, V, S, ZM, VZ, VZM, T, PLKM,	E, V, S, ZM, VZ, VZM, T, PLKM,	E, V, S, ZM, VZ, VZM, T, PLKM,	E, V, S, ZM, VZ, VZM, T, PLKM,	E, V, S, PL, VZ, PLKM,	E, V, S, , VZ,	E, V, S, , VZ,	E, V, VZ,	E, V, VZ,
Azionatori	F,N	B, F, K, I, H, M, N,	B, F, K, I, H, M, N,	B, F, K, I, H, M, N,	B, F, K, I, H, M, N,	B, F, K, I, H, M, N,	B, F, K, I, H, M, N,	B, F, K, I, H, M, N,	F, K, H, M, R, D	F, K, H, M, R, D	F, K, H, M, R, D	F, K, H, M, R, D	F, K, H, M, R, D
Colore	rosso-nero	rosso-nero bianco-grigio	rosso-nero bianco-grigio	rosso-nero bianco-grigio	rosso-nero bianco-grigio	rosso-nero bianco-grigio	rosso-nero bianco-grigio	rosso-nero bianco-grigio	rosso-nero grigio	rosso-nero grigio	rosso-nero grigio	rosso-nero grigio	rosso-nero grigio
Mostrine	X70	X70, X71	X70, X71	X70, X71	X70, X71	X70, X71	X70, X71	X70, X71	X70, X71	X70, X71	X70, X71	X70	X70
Colori	alu giallo	nero giallo-alu	nero giallo-alu	nero giallo-alu	nero giallo-alu	nero giallo-alu	nero giallo-alu	nero giallo-alu	nero giallo-alu	nero giallo-alu	nero giallo-alu	nero giallo	nero giallo
Mostrine speciali	X72	X72	X72	X72	X72	X72	X72	X72					
Colori	alu	alu	alu	alu	alu	alu	alu	alu					
Mostrine speciali	X79	X79	X79	X79									
Colori	alu	alu	alu	alu									

Esecuzione standard: manopola grigia e mostrina nera.

Prego fotocopiare lo schema e compilare

Osservazioni

Schema di collegamento

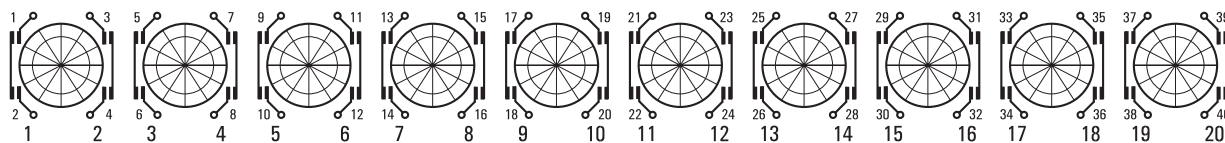
Tipo

accessori

no celle:

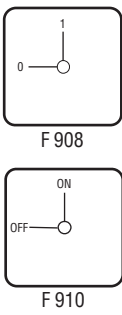
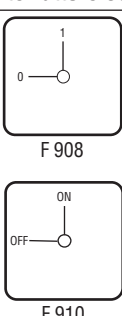
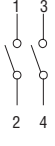
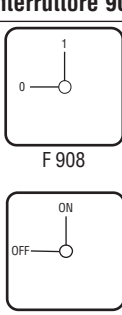
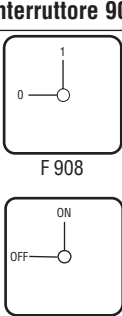
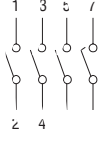
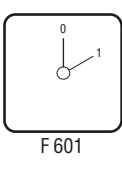
Blum 
Tel. 0473 449549

CALIBRO	6	8	11	12	16	20	32	40	50	55	63	100	125	126	250
ESECUZIONE	E	V	ZM	T	VZ	VZM	Z	PL	PLKM	K	GL	G			
AZIONATORI	N	F	B	K	I	H	M	R	D						
COLORE	s	g	r	w											
TARGHETTE	X70	X71	X72	X74	X79	X99									
COLORE	a	s	gb												



COMMUTAZIONE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	0																			
22.5	30																			
45	60																			
67.5	90																			
90	120																			
112.5	150																			
135	180																			
157.5	210																			
180	240																			
202.5	270																			
225	300																			
247.5	330																			
270	0																			
292.5																				
315																				
337.5																				

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM		
				tipo 	tipo 		
Interruttore 90°							
		10	2,2	A1/ 4 E	A1/ 6 ZM		
		25	5,5	A1/ 8 E	A1/ 8 ZM		
		25	7,5	A1/ 16 E	A1/ 16 ZM		
		32	9,0	A1/ 20 E	A1/ 20 ZM		
		40	11,0	A1/ 32 E	A1/ 32 ZM		
		63	15,0	A1/ 40 E	A1/ 40 ZM		
		100	22,0	A1/ 63 E			
		125	27,0	A1/ 100 E			
		200	40,0	A1/ 126 E			
		315	64,0	A1/ 250 E			
		1Ka-A1001					
Interruttore 90°							
		10	2,2	A2/ 4 E	A2/ 4 ZM		
		25	5,5	A2/ 8 E	A2/ 8 ZM		
		25	7,5	A2/ 16 E	A2/ 16 ZM		
		32	9,0	A2/ 20 E	A2/ 20 ZM		
		40	11,0	A2/ 32 E	A2/ 32 ZM		
		63	15,0	A2/ 40 E	A2/ 40 ZM		
		100	22,0	A2/ 63 E			
		125	27,0	A2/ 100 E			
		200	40,0	A2/ 126 E			
		315	64,0	A2/ 250 E			
		1Ka-A1002					
Interruttore 90°							
		10	2,2	A3/ 4 E	A3/ 4 ZM		
		25	5,5	A3/ 8 E	A3/ 8 ZM		
		25	7,5	A3/ 16 E	A3/ 16 ZM		
		32	9,0	A3/ 20 E	A3/ 20 ZM		
		40	11,0	A3/ 32 E	A3/ 32 ZM		
		63	15,0	A3/ 40 E	A3/ 40 ZM		
		100	22,0	A3/ 63 E			
		125	27,0	A3/ 100 E			
		200	40,0	A3/ 126 E			
		315	64,0	A3/ 250 E			
		2Ka-A1003					
Interruttore 90°							
		10	2,2	A4/ 4 E	A4/ 4 ZM		
		25	5,5	A4/ 8 E	A4/ 8 ZM		
		25	7,5	A4/ 16 E	A4/ 16 ZM		
		32	9,0	A4/ 20 E	A4/ 20 ZM		
		40	11,0	A4/ 32 E	A4/ 32 ZM		
		63	15,0	A4/ 40 E	A4/ 40 ZM		
		100	22,0	A4/ 63 E			
		125	27,0	A4/ 100 E			
		200	40,0	A4/ 126 E			
		315	64,0	A4/ 250 E			
		2Ka-A1004					
Interruttore 60°							
		10	2,2	A1/ 4 E/F601	A1/ 4 ZM/F601		
		25	5,5	A1/ 8 E/F601	A1/ 8 ZM/F601		
		25	7,5	A1/ 16 E/F601	A1/ 16 ZM/F601		
		32	9,0	A1/ 20 E/F601	A1/ 20 ZM/F601		
		40	11,0	A1/ 32 E/F601	A1/ 32 ZM/F601		
		63	15,0	A1/ 40 E/F601	A1/ 40 ZM/F601		
		100	22,0	A1/ 63 E/F601			
		125	27,0	A1/ 100 E/F601			
		200	40,0	A1/ 126 E/F601			
		315	64,0	A1/ 250 E/F601			
		1Ka-A1001					

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'inter.

tipo



su guida DIN

tipo



in cassetta

tipo



A1/ 8 V	A1/ 8 VZ	A1/ 8 T	A1/ 8 PL I
A1/ 16 V	A1/ 16 VZ	A1/ 16 T	A1/ 16 PL
A1/ 20 V	A1/ 20 VZ	A1/ 20 T	A1/ 20 PL
A1/ 32 V	A1/ 32 VZ	A1/ 32 T	A1/ 32 PL
A1/ 40 V	A1/ 40 VZ	A1/ 40 T	A1/ 40 PL
A1/ 63 V	A1/ 63 VZ		A1/ 63 PL
A1/ 100 V	A1/ 100 VZ		
A1/ 126 V	A1/ 126 VZ		
A1/ 250 V	A1/ 250 VZ		

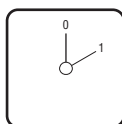
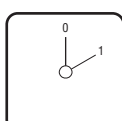
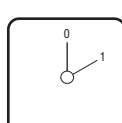
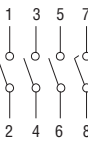
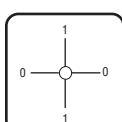
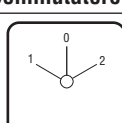
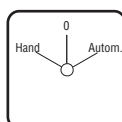
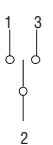
A2/8 V	A2/ 8 VZ	A2/ 8 T	A2/ 8 PL
A2/ 16 V	A2/ 16 VZ	A2/ 16 T	A2/ 16 PL
A2/ 20 V	A2/ 20 VZ	A2/ 20 T	A2/ 20 PL
A2/ 32 V	A2/ 32 VZ	A2/ 32 T	A2/ 32 PL
A2/ 40 V	A2/ 40 VZ	A2/ 40 T	A2/ 40 PL
A2/ 63 V	A2/ 63 VZ		A2/ 63 PL
A2/ 100 V	A2/ 100 VZ		
A2/ 126 V	A2/ 126 VZ		
A2/ 250 V	A2/ 250 VZ		

A3/ 8 V	A3/ 8 VZ	A3/ 8 T	A3/ 8 PL
A3/ 16 V	A3/ 16 VZ	A3/ 16 T	A3/ 16 PL
A3/ 20 V	A3/ 20 VZ	A3/ 20 T	A3/ 20 PL
A3/ 32 V	A3/ 32 VZ	A3/ 32 T	A3/ 32 PL
A3/ 40 V	A3/ 40 VZ	A3/ 40 T	A3/ 40 PL
A3/ 63 V	A3/ 63 VZ		A3/ 63 PL
A3/ 100 V	A3/ 100 VZ		
A3/ 126 V	A3/ 126 VZ		
A3/ 250 V	A3/ 250 VZ		

A4/ 8 V	A4/ 8 VZ	A4/ 8 T	A4/ 8 PL
A4/ 16 V	A4/ 16 VZ	A4/ 16 T	A4/ 16 PL
A4/ 20 V	A4/ 20 VZ	A4/ 20 T	A4/ 20 PL
A4/ 32 V	A4/ 32 VZ	A4/ 32 T	A4/ 32 PL
A4/ 40 V	A4/ 40 VZ	A4/ 40 T	A4/ 40 PL
A4/ 63 V	A4/ 63 VZ		A4/ 63 PL
A4/ 100 V	A4/ 100 VZ		
A4/ 126 V	A4/ 126 VZ		
A4/ 250 V	A4/ 250 VZ		

A1/ 8 V/F601	A1/ 8 VZ/F601	A1/ 8 T/F601	A1/ 8 PL/F601
A1/ 16 V/F601	A1/ 16 VZ/F601	A1/ 16 T/F601	A1/ 16 PL/F601
A1/ 20 V/F601	A1/ 20 VZ/F601	A1/ 20 T/F601	A1/ 20 PL/F601
A1/ 32 V/F601	A1/ 32 VZ/F601	A1/ 32 T/F601	A1/ 32 PL/F601
A1/ 40 V/F601	A1/ 40 VZ/F601	A1/ 40 T/F601	A1/ 40 PL/F601
A1/ 63 V/F601	A1/ 63 VZ/F601		A1/ 63 PL/F601
A1/ 100 V/F601	A1/ 100 VZ/F601		
A1/ 126 V/F601	A1/ 126 VZ/F601		
A1/ 250 V/F601	A1/ 250 VZ/F601		

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM		
				tipo 	tipo 		
Interruttore 60°							
 F 601	 2poli	10	2,2	A2/ 4 E/F601	A2/ 4 ZM/F601		
		25	5,5	A2/ 8 E/F601	A2/ 8 ZM/F601		
		25	7,5	A2/ 16 E/F601	A2/ 16 ZM/F601		
		32	9,0	A2/ 20 E/F601	A2/ 20 ZM/F601		
		40	11,0	A2/ 32 E/F601	A2/ 32 ZM/F601		
		63	15,0	A2/ 40 E/F601	A2/ 40 ZM/F601		
		100	22,0	A2/ 63 E/F601			
		125	27,0	A2/ 100 E/F601			
		200	40,0	A2/ 126 E/F601			
		315	64,0	A2/ 250 E/F601			
1Ka-A1002							
Interruttore 60°							
 F 601	 3poli	10	2,2	A3/ 4 E/F601	A3/ 4 ZM/F601		
		25	5,5	A3/ 8 E/F601	A3/ 8 ZM/F601		
		25	7,5	A3/ 16 E/F601	A3/ 16 ZM/F601		
		32	9,0	A3/ 20 E/F601	A3/ 20 ZM/F601		
		40	11,0	A3/ 32 E/F601	A3/ 32 ZM/F601		
		63	15,0	A3/ 40 E/F601	A3/ 40 ZM/F601		
		100	22,0	A3/ 63 E/F601			
		125	27,0	A3/ 100 E/F601			
		200	40,0	A3/ 126 E/F601			
		315	64,0	A3/ 250 E/F601			
2Ka-A1003							
Interruttore 60°							
 F 601	 4poli	10	2,2	A4/ 4 E/F601	A4/ 4 ZM/F601		
		25	5,5	A4/ 8 E/F601	A4/ 8 ZM/F601		
		25	7,5	A4/ 16 E/F601	A4/ 16 ZM/F601		
		32	9,0	A4/ 20 E/F601	A4/ 20 ZM/F601		
		40	11,0	A4/ 32 E/F601	A4/ 32 ZM/F601		
		63	15,0	A4/ 40 E/F601	A4/ 40 ZM/F601		
		100	22,0	A4/ 63 E/F601			
		125	27,0	A4/ 100 E/F601			
		200	40,0	A4/ 126 E/F601			
		315	64,0	A4/ 250 E/F601			
2Ka-A1004							
Interruttore rotativo							
 F 914	 3poli	10	2,2	ARU3/4 E	ARU3/4 ZM		
		25	5,5	ARU3/8 E	ARU3/8 ZM		
		25	7,5	ARU3/16 E	ARU3/16 ZM		
		32	9,0	ARU3/20 E	ARU3/20 ZM		
		40	11,0	ARU3/32 E	ARU3/32 ZM		
		63	15,0	ARU3/40 E	ARU3/40 ZM		
		100	22,0	ARU3/63 E			
		125	27,0	ARU3/100 E			
		200	40,0	ARU3/126 E			
		315	64,0	ARU3/250 E			
2Ka-A1415							
Commutatore di linea 60°							
 F 604  F 611	 1polo	10	2,2	U1/ 4 E	U1/ 4 ZM		
		25	5,5	U1/ 8 E	U1/ 8 ZM		
		25	7,5	U1/ 16 E	U1/ 16 ZM		
		32	9,0	U1/ 20 E	U1/ 20 ZM		
		40	11,0	U1/ 32 E	U1/ 32 ZM		
		63	15,0	U1/ 40 E	U1/ 40 ZM		
		100	22,0	U1/ 63 E			
		125	27,0	U1/ 100 E			
		200	40,0	U1/ 126 E			
		315	64,0	U1/ 250 E			
1Ka-A1009							

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



		A2/ 11 V/F601	A2/ 11 VZ/F601	A2/ 8 T/F601	27,70	A2/ 11 PL/F601	
		A2/ 16 V/F601	A2/ 16 VZ/F601	A2/ 16 T/F601	31,95	A2/ 16 PL/F601	
		A2/ 20 V/F601	A2/ 20 VZ/F601	A2/ 20 T/F601	46,40	A2/ 20 PL/F601	
		A2/ 32 V/F601	A2/ 32 VZ/F601	A2/ 32 T/F601	62,30	A2/ 32 PL/F601	
		A2/ 40 V/F601	A2/ 40 VZ/F601	A2/ 40 T/F601	75,55	A2/ 40 PL/F601	
		A2/ 63 V/F601	A2/ 63 VZ/F601			A2/ 63 PL/F601	
		A2/ 100 V/F601	A2/ 100 VZ/F601				
		A2/ 126 V/F601	A2/ 126 VZ/F601				
		A2/ 250 V/F601	A2/ 250 VZ/F601				

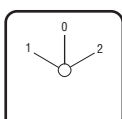
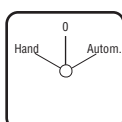
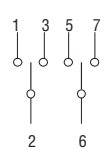
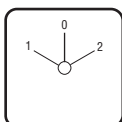
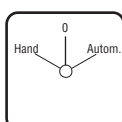
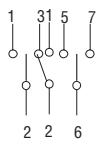
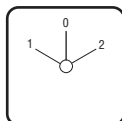
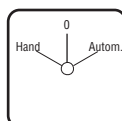
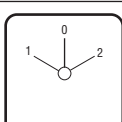
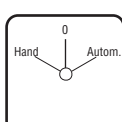
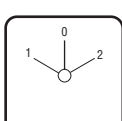
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		A3/ 16 V/F601	A3/ 16 VZ/F601	A3/ 16 T/F601		A3/ 16 PL/F601	
		A3/ 20 V/F601	A3/ 20 VZ/F601	A3/ 20 T/F601		A3/ 20 PL/F601	
		A3/ 32 V/F601	A3/ 32 VZ/F601	A3/ 32 T/F601		A3/ 32 PL/F601	
		A3/ 40 V/F601	A3/ 40 VZ/F601	A3/ 40 T/F601		A3/ 40 PL/F601	
		A3/ 63 V/F601	A3/ 63 VZ/F601			A3/ 63 PL/F601	
		A3/ 100 V/F601	A3/ 100 VZ/F601				
		A3/ 126 V/F601	A3/ 126 VZ/F601				
		A3/ 250 V/F601	A3/ 250 VZ/F601				

		A4/ 11 V/F601	A4/ 11 VZ/F601	A4/ 8 T/F601		A4/ 11 PL/F601	
		A4/ 16 V/F601	A4/ 16 VZ/F601	A4/ 16 T/F601		A4/ 16 PL/F601	
		A4/ 20 V/F601	A4/ 20 VZ/F601	A4/ 20 T/F601		A4/ 20 PL/F601	
		A4/ 32 V/F601	A4/ 32 VZ/F601	A4/ 32 T/F601		A4/ 32 PL/F601	
		A4/ 40 V/F601	A4/ 40 VZ/F601	A4/ 40 T/F601		A4/ 40 PL/F601	
		A4/ 63 V/F601	A4/ 63 VZ/F601			A4/ 63 PL/F601	
		A4/ 100 V/F601	A4/ 100 VZ/F601				
		A4/ 126 V/F601	A4/ 126 VZ/F601				
		A4/ 250 V/F601	A4/ 250 VZ/F601				

		ARU3/11 V	ARU3/11 VZ	ARU3/8 T		ARU3/11 PL	
		ARU3/16 V	ARU3/16 VZ	ARU3/16 T		ARU3/16 PL	
		ARU3/20 V	ARU3/20 VZ	ARU3/20 T		ARU3/20 PL	
		ARU3/32 V	ARU3/32 VZ	ARU3/32 T		ARU3/32 PL	
		ARU3/40 V	ARU3/40 VZ	ARU3/40 T		ARU3/40 PL	
		ARU3/63 V	ARU3/63 VZ			ARU3/63 PL	
		ARU3/100 V	ARU3/100VZ				
		ARU3/126 V	ARU3/126VZ				
		ARU3/250 V	ARU3/250VZ				

		U1/ 11 V	U1/ 11 VZ	U1/ 8 T		U1/ 11 PL	
		U1/ 16 V	U1/ 16 VZ	U1/ 16 T		U1/ 16 PL	
		U1/ 20 V	U1/ 20 VZ	U1/ 20 T		U1/ 20 PL	
		U1/ 32 V	U1/ 32 VZ	U1/ 32 T		U1/ 32 PL	
		U1/ 40 V	U1/ 40 VZ	U1/ 40 T		U1/ 40 PL	
		U1/ 63 V	U1/ 63 VZ			U1/ 63 PL	
		U1/ 100 V	U1/ 100 VZ				
		U1/ 126 V	U1/ 126 VZ				
		U1/ 250 V	U1/ 250 VZ				

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM			
				tipo 	tipo 			
Commutatore di linea 60”								
 F 604  F 611	2 poli 	10	2,2	U2/ 4 E	U2/ 4 ZM			
		25	5,5	U2/ 8 E	U2/ 8 ZM			
		25	7,5	U2/ 16 E	U2/ 16 ZM			
		32	9,0	U2/ 20 E	U2/ 20 ZM			
		40	11,0	U2/ 32 E	U2/ 32 ZM			
		63	15,0	U2/ 40 E	U2/ 40 ZM			
		100	22,0	U2/ 63 E				
		125	27,0	U2/ 100 E				
		200	40,0	U2/ 126 E				
		315	64,0	U2/ 250 E				
		1Ka-A1001						
		Commutatore di linea 60”						
 F 604  F 611	3 poli 	10	2,2	U3/ 4 E	U3/ 4 ZM			
		25	5,5	U3/ 8 E	U3/ 8 ZM			
		25	7,5	U3/ 16 E	U3/ 16 ZM			
		32	9,0	U3/ 20 E	U3/ 20 ZM			
		40	11,0	U3/ 32 E	U3/ 32 ZM			
		63	15,	U3/ 40 E	U3/ 40 ZM			
		100	20,0	U3/ 63 E				
		125	27,0	U3/ 100 E				
		200	40,0	U3/ 126 E				
		315	64,0	U3/ 250 E				
		1Ka-A1002						
		Commutatore di linea 60”						
 F 604  F 611	4 poli	10	2,2	U4/ 4 E	U4/ 4 ZM			
		25	5,5	U4/ 8 E	U4/ 8 ZM			
		25	7,5	U4/ 16 E	U4/ 16 ZM			
		32	9,0	U4/ 20 E	U4/ 20 ZM			
		40	11,0	U4/ 32 E	U4/ 32 ZM			
		63	15,0	U4/ 40 E	U4/ 40 ZM			
		100	22,0	U4/ 63 E				
		125	27,0	U4/ 100 E				
		200	40,0	U4/ 126 E				
		315	64,0	U4/ 250 E				
		2Ka-A1003						
		Commutatore di linea 60”						
 F 604  F 611	5 poli	10	2,2	U5/ 4 E	U5/ 4 ZM			
		25	5,5	U5/ 8 E	U5/ 8 ZM			
		25	7,5	U5/ 16 E	U5/ 16 ZM			
		32	9,0	U5/ 20 E	U5/ 20 ZM			
		40	11,0	U5/ 32 E	U5/ 32 ZM			
		63	15,0	U5/ 40 E	U5/ 40 ZM			
		100	22,0	U5/ 63 E				
		125	27,0	U5/ 100 E				
		200	40,0	U5/ 126 E				
		315	64,0	U5/ 250 E				
		2Ka-A1004						
		Commutatore di linea 60”						
 F 604		10	2,2	U6/ 4 E	U6/ 4 ZM			
		25	5,5	U6/ 8 E	U6/ 8 ZM			
		25	7,5	U6/ 16 E	U6/ 16 ZM			
		32	9,0	U6/ 20 E	U6/ 20 ZM			
		40	11,0	U6/ 32 E	U6/ 32 ZM			
		63	15,0	U6/ 40 E	U6/ 40 ZM			
		100	22,0	U6/ 63 E				
		125	27,0	U6/ 100 E				
		200	40,0	U6/ 126 E				
		315	64,0	U6/ 250 E				
		1Ka-A1001						

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



		U2/ 11 V	U2/ 11 VZ	U2/ 8 T	U2/ 11 PL
		U2/ 16 V	U2/ 16 VZ	U2/ 16 T	U2/ 16 PL
		U2/ 20 V	U2/ 20 VZ	U2/ 20 T	U2/ 20 PL
		U2/ 32 V	U2/ 32 VZ	U2/ 32 T	U2/ 32 PL
		U2/ 40 V	U2/ 40 VZ	U2/ 40 T	U2/ 40 PL
		U2/ 63 V	U2/ 63 VZ		U2/ 63 PL
		U2/100 V	U2/100 VZ		
		U2/126 V	U2/126 VZ		
		U2/250 V	U2/250 VZ		

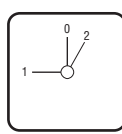
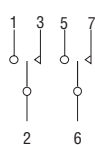
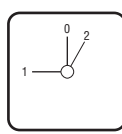
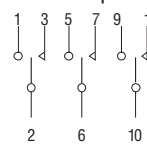
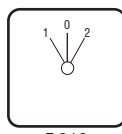
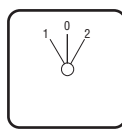
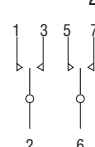
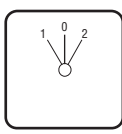
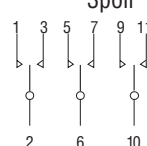
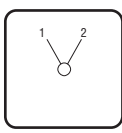
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		U3/ 16 V	U3/ 16 VZ	U3/ 16 T	U3/ 16 PL
		U3/ 20 V	U2/ 20 VZ	U3/ 20 T	U3/ 20 PL
		U3/ 32 V	U3/ 32 VZ	U3/ 32 T	U3/ 32 PL
		U3/ 40 V	U3/ 40 VZ	U3/ 40 T	U3/ 40 PL
		U3/ 63 V	U3/ 63 VZ		U3/ 63 PL
		U3/100 V	U3/100 VZ		
		U3/126 V	U3/126 VZ		
		U3/250 V	U3/250 VZ		

		U4/ 11 V	U4/ 11 VZ	U4/ 8 T	U4/ 11 PL
		U4/ 16 V	U4/ 16 VZ	U4/ 16 T	U4/ 16 PL
		U4/ 20 V	U4/ 20 VZ	U4/ 20 T	U4/ 20 PL
		U4/ 32 V	U4/ 32 VZ	U4/ 32 T	U4/ 32 PL
		U4/ 40 V	U4/ 40 VZ	U4/ 40 T	U4/ 40 PL
		U4/ 63 V	U4/ 63 VZ		U4/ 63 PLL
		U4/100 V	U4/100 VZ		
		U2/126 V	U4/126 VZ		
		U4/250 V	U4/250 VZ		

		U5/ 11 V	U5/ 11 VZ	U5/ 8 T	A4/ 11 PL
		U5/ 16 V	U5/ 16 VZ	U5/ 16 T	A4/ 16 PL
		U5 /20 V	U5/ 20 VZ	U5/ 20 T	A4/ 20 PL
		U5/ 32 V	U5/ 32 VZ	U5/ 32 T	A4/ 32 PL
		U5/ 40 V	U5/ 40 VZ	U5/ 40 T	A4/ 40 PL
		U5/ 63 V	U5/ 63 VZ		A4/ 63 PL
		U5/100 V	U5/100 VZ		
		U5/126 V	U5/126 VZ		
		U5/250 V	U5/250 VZ		

		U6/ 11 V	U6/ 11 VZ	U6/ 8 T	U6/ 11 PL
		U6/ 16 V	U6/ 16 VZ	U6/ 16 T	U6/ 16 PL
		U6/ 20 V	U6/ 20 VZ	U6/ 20 T	U6/ 20 PL
		U6/ 32 V	U6/ 32 VZ	U6/ 32 T	U6/ 32 PL
		U6/ 40 V	U6/ 40 VZ	U6/ 40 T	U6/ 40 PL
		U6/ 63 V	U6/ 63 VZ		U6/ 63 PL
		U6/100 V	U6/100 VZ		
		U6/126 V	U6/126 VZ		
		U6/250 V	U6/250 VZ		

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM		
				tipo 	tipo 		
Commutatore di linea con ritorno unilaterale							
 F 102 2Ka-A1014	2poli 	10	2,2	UR2/ 4 E	UR2/ 4 ZM		
		25	5,5	UR2/ 8 E	UR2/ 8 ZM		
		25	7,5	UR2/16 E	UR2/16 ZM		
		32	9,0	UR2/20 E	UR2/20 ZM		
		40	11,0	UR2/32 E	UR2/32 ZM		
		63	15,0	UR2/40 E	UR2/40 ZM		
Commutatore di linea con ritorno unilaterale							
 F 102 3Ka-A1015	3poli 	10	2,2	UR3/ 4 E	UR3/ 4 ZM		
		25	5,5	UR3/ 8 E	UR3/ 8 ZM		
		25	7,5	UR3/16 E	UR3/16 ZM		
		32	9,0	UR3/20 E	UR3/20 ZM		
		40	11,0	UR3/32 E	UR3/32 ZM		
		63	15,0	UR3/40 E	UR3/40 ZM		
Commutatore di linea con ritorno bilaterale							
 F 312 1Ka-A1234	1polo 	10	2,2	URR1/4 E	URR1/4 ZM		
		25	5,5	URR1/8 E	URR1/8 ZM		
		25	7,5	URR1/16 E	URR1/16 ZM		
		32	9,0	URR1/20 E	URR1/20 ZM		
		40	11,0	URR1/32 E	URR1/32 ZM		
		63	15,0	URR1/40 E	URR1/40 ZM		
Commutatore di linea con ritorno bilaterale							
 F 312 2Ka-A1235	2poli 	10	2,2	URR2/4 E	URR2/4 ZM		
		25	5,5	URR2/8 E	URR2/8 ZM		
		25	7,5	URR2/16 E	URR2/16 ZM		
		32	9,0	URR2/20 E	URR2/20 ZM		
		40	11,0	URR2/32 E	URR2/32 ZM		
		63	15,0	URR2/40 E	URR2/40 ZM		
Commutatore con ritorno bilaterale							
 F 312 3Ka-A1236	3poli 	10	2,2	URR3/4 E	URR3/4 ZM		
		25	5,5	URR3/8 E	URR3/8 ZM		
		25	7,5	URR3/16 E	URR3/16 ZM		
		32	9,0	URR3/20 E	URR3/20 ZM		
		40	11,0	URR3/32 E	URR3/32 ZM		
		63	15,0	URR3/40 E	URR3/40 ZM		
Deviatore di linea							
 F 614 1Ka-A1017	1polo 	10	2,2	WS1/ 4 E	WS1/46 ZM		
		25	5,5	WS1/ 8 E	WS1/ 8 ZM		
		25	7,5	WS1/16 E	WS1/16 ZM		
		32	9,0	WS1/20 E	WS1/20 ZM		
		40	11,0	WS1/32 E	WS1/32 ZM		
		63	15,0	WS1/40 E	WS1/40 ZM		
		100	22,0	WS1/63 E			
		125	27,0	WS1/100 E			
		200	40,0	WS1/126 E			
		315	64,0	WS1/250 E			

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



		UR2/11 V	UR2/11 VZ	UR2/ 8 T	UR2/11 PL
		UR2/16 V	UR2/16 VZ	UR2/16 T	UR2/16 PL
		UR2/20 V	UR2/20 VZ	UR2/20 T	UR2/20 PL
		UR2/32 V	UR2/32 VZ	UR2/32 T	UR2/32 PL
		UR2/40 V	UR2/40 VZ	UR2/40 T	UR2/40 PL

		UR3/11 V	UR3/11 VZ	UR3/ 8 T	UR3/11 PL
		UR3/16 V	UR3/16 VZ		UR3/16 PL
		UR3/20 V	UR3/20 VZ		UR3/20 PL
		UR3/32 V	UR3/32 VZ		UR3/32 PL
		UR3/40 V	UR3/40 VZ		UR3/40 PL

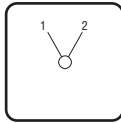
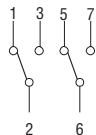
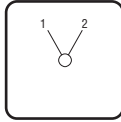
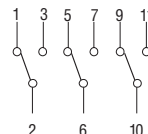
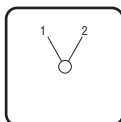
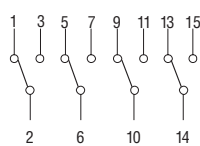
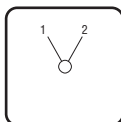
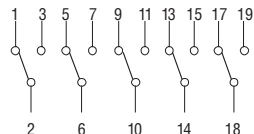
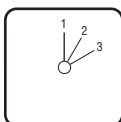
		URR1/11 V	URR1/11 VZ	URR1/8 T	URR1/11 PL
		URR1/16 V	URR1/16 VZ	URR1/16 T	URR1/16 PL
		URR1/20 V	URR1/20 VZ	URR1/20 T	URR1/20 PL
		URR1/32 V	URR1/32 VZ	URR1/32 T	URR1/32 PL
		URR1/40 V	URR1/40 VZ	URR1/40 T	URR1/40 PL

		URR2/11 V	URR2/11 VZ	URR2/8 T	URR2/11 PL
		URR2/16 V	URR2/16 VZ	URR2/16 T	URR2/16 PL
		URR2/20 V	URR2/20 VZ	URR2/20 T	URR2/20 PL
		URR2/32 V	URR2/32 VZ	URR2/32 T	URR2/32 PL
		URR2/40 V	URR2/40 VZ	URR2/40 T	URR2/40 PL

		URR3/11 V	URR3/11 VZ	URR3/8 T	URR3/11 PL
		URR3/16 V	URR3/16 VZ		URR3/16 PL
		URR3/20 V	URR3/20 VZ		URR3/20 PL
		URR3/32 V	URR3/32 VZ		URR3/32 PL
		URR3/40 V	URR3/40 VZ		URR3/40 PL

		WS1/11 V	WS1/11 VZ	WS1/ 8 T	WS1/11 PL
		WS1/16 V	WS1/16 VZ	WS1/16 T	WS1/16 PL
		WS1/20 V	WS1/20 VZ	WS1/20 T	WS1/20 PL
		WS1/32 V	WS1/32 VZ	WS1/32 T	WS1/32 PL
		WS1/40 V	WS1/40 VZ	WS1/40 T	WS1/40 PL
		WS1/63 V	WS1/63 VZ		WS1/63 PL
		WS1/100 V	WS1/100 VZ		
		WS1/126 V			
		WS1/250 V			

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM		
				tipo 	tipo 		
Deviatore di linea							
2poli  F 614  2Ka-A1018		10	2,2	WS2/ 4 E	WS2/ 4 ZM		
		25	5,5	WS2/ 8 E	WS2/ 8 ZM		
		25	7,5	WS2/16 E	WS2/16 ZM		
		32	9,0	WS2/20 E	WS2/20 ZM		
		40	11,0	WS2/32 E	WS2/32 ZM		
		63	15,0	WS2/40 E	WS2/40 ZM		
		100	22,0	WS2/63 E			
		125	27,0	WS2/100 E			
		200	40,0	WS2/126 E			
		315	64,0	WS2/250 E			
Deviatore di linea							
3poli  F 614  3Ka-A1019		10	2,2	WS3/ 4 E	WS3/ 4 ZM		
		25	5,5	WS3/ 8 E	WS3/ 8 ZM		
		25	7,5	WS3/16 E	WS3/16 ZM		
		32	9,0	WS3/20 E	WS3/20 ZM		
		40	11,0	WS3/32 E	WS3/32 ZM		
		63	15,0	WS3/40 E	WS3/40 ZM		
		100	22,0	WS3/63 E			
		125	27,0	WS3/100 E			
		200	40,0	WS3/126 E			
		315	64,0	WS3/250 E			
Deviatore di linea							
4poli  F 614  4Ka-A1020		10	2,2	WS4/4 E	WS4/ 4 ZM		
		25	5,5	WS4/ 8 E	WS4/ 8 ZM		
		25	7,5	WS4/16 E	WS4/16 ZM		
		32	9,0	WS4/20 E	WS4/20 ZM		
		40	11,0	WS4/32 E	WS4/32 ZM		
		63	15,0	WS4/40 E	WS4/40 ZM		
		100	22,0	WS4/63 E			
		125	27,0	WS4/100 E			
		200	40,0	WS4/126 E			
		315	64,0	WS4/250 E			
Deviatore di linea							
5poli  F 614  5Ka-A1021		10	2,2	WS5/ 4 E	WS5/ 4 ZM		
		25	5,5	WS5/ 8 E	WS5/ 8 ZM		
		25	7,5	WS5/16 E	WS5/16 ZM		
		32	9,0	WS5/20 E	WS5/20 ZM		
		40	11,0	WS5/32 E	WS5/32 ZM		
		63	15,0	WS5/40 E	WS5/40 ZM		
		100	22,0	WS5/63 E			
		125	27,0	WS5/100 E			
		200	40,0	WS5/126 E			
		315	64,0	WS5/250 E			
Commutatore graduale a tre posizioni							
1polo  F 302 2Ka-A1131		10	2,2	ST31/ 4 E	ST31/ 4 ZM		
		25	5,5	ST31/ 8 E	ST31/ 8 ZM		
		25	7,5	ST31/16 E	ST31/16 ZM		
		32	9,0	ST31/20 E	ST31/20 ZM		
		40	11,0	ST31/32 E	ST31/32 ZM		
		63	15,0	ST31/40 E	ST31/40 ZM		

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Apparecchiature elettriche

da fondo pannello V		da fondo pannello mostrina fissata sull'interr.	su guida DIN	in cassetta
tipo 		tipo 	tipo 	tipo 
	WS2/11 V	WS2/11 VZ	WS2/ 8 T	WS2/11 PL
	WS2/16 V	WS2/16 VZ	WS2/16 T	WS2/16 PL
	WS2/20 V	WS2/20 VZ	WS2/20 T	WS2/20 PL
	WS2/32 V	WS2/32 VZ	WS2/32 T	WS2/32 PL
	WS2/40 V	WS2/40 VZ	WS2/40 T	WS2/40 PL
	WS2/63 V	WS2/63 VZ		WS2/63 PL
	WS2/100 V	WS2/100 VZ		
	WS2/126 V			
	WS2/250 V			

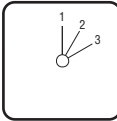
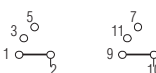
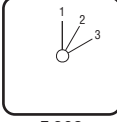
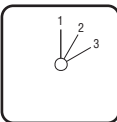
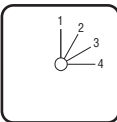
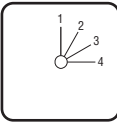
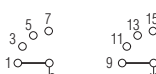
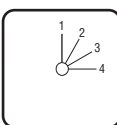
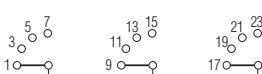
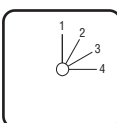
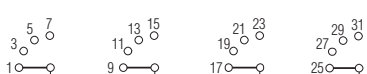
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	WS3/16 V	WS3/16 VZ		WS3/16 PL
	WS3/20 V	WS3/20 VZ		WS3/20 PL
	WS3/32 V	WS3/32 VZ		WS3/32 PL
	WS3/40 V	WS3/40 VZ		WS3/40 PL
	WS3/63 V	WS3/63 VZ		WS3/63 PL
	WS3/100 V	WS3/100 VZ		
	WS3/126 V			
	WS3/250 V			

	WS4/11 V	WS4/11 VZ		WS4/11 PL
	WS4/16 V	WS4/16 VZ		WS4/16 PL
	WS4/20 V	WS4/20 VZ		WS4/20 PL
	WS4/32 V	WS4/32 VZ		WS4/32 PL
	WS4/40 V	WS4/40 VZ		WS4/40 PL
	WS4/63 V	WS4/63 VZ		WS4/63 PL
	WS4/100 V	WS4/100 VZ		
	WS4/126 V			
	WS4/250 V			

	WS5/11 V	WS5/11 VZ		WS5/11 PL
	WS5/16 V	WS5/16 VZ		WS5/16 PL
	WS5/20 V	WS5/20 VZ		WS5/20 PL
	WS5/32 V	WS5/32 VZ		WS5/32 PL
	WS5/40 V	WS5/40 VZ		WS5/40 PL
	WS5/63 V	WS5/63 VZ		
	WS5/100 V	WS5/100 VZ		
	WS5/126 V			
	WS5/250 V			

	ST31/11 V	ST31/11 VZ	ST31/ 8 T	ST31/11 PL
	ST31/16 V	ST31/16 VZ	ST31/16 T	ST31/16 PL
	ST31/20 V	ST31/20 VZ	ST31/20 T	ST31/20 PL
	ST31/32 V	ST31/32 VZ	ST31/32 T	ST31/32 PL
	ST31/40 V	ST31/40 VZ	ST31/40 T	ST31/40 PL

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM		
				tipo 	tipo 		
Commutatore graduale a 3 posizioni							
 F 302	 2poli	10	2,2	ST32/ 4 E	ST32/ 4 ZM		
		25	5,5	ST32/ 8 E	ST32/ 8 ZM		
		25	7,5	ST32/16 E	ST32/16 ZM		
		32	9,0	ST32/20 E	ST32/20 ZM		
		40	11,0	ST32/32 E	ST32/32 ZM		
		63	15,0	ST32/40 E	ST32/40 ZM		
Commutatore graduale a 3 posizioni							
 F 302	 3poli	10	2,2	ST33/ 4 E	ST33/ 4 ZM		
		25	5,5	ST33/ 8 E	ST33/ 8 ZM		
		25	7,5	ST33/16 E	ST33/16 ZM		
		32	9,0	ST33/20 E	ST33/20 ZM		
		40	11,0	ST33/32 E	ST33/32 ZM		
		63	15,0	ST33/40 E	ST33/40 ZM		
Commutatore graduale a 3 posizioni							
 F 302	 4poli	10	2,2	ST34/ 4 E	ST34/ 4 ZM		
		25	5,5	ST34/ 8 E	ST34/ 8 ZM		
		25	7,5	ST34/16 E	ST34/16 ZM		
		32	9,0	ST34/20 E	ST34/20 ZM		
		40	11,0	ST34/32 E	ST34/32 ZM		
		63	15,0	ST34/40 E	ST34/40 ZM		
Commutatore graduale a 4 posizioni							
 F 303	 1polo	10	2,2	ST41/ 4 E	ST41/ 4 ZM		
		25	5,5	ST41/ 8 E	ST41/ 8 ZM		
		25	7,5	ST41/16 E	ST41/16 ZM		
		32	9,0	ST41/20 E	ST41/20 ZM		
		40	11,0	ST41/32 E	ST41/32 ZM		
		63	15,0	ST41/40 E	ST41/40 ZM		
Commutatore graduale a 4 posizioni							
 F 303	 2poli	10	2,2	ST42/ 4 E	ST42/ 4 ZM		
		25	5,5	ST42/ 8 E	ST42/ 8 ZM		
		25	7,5	ST42/16 E	ST42/16 ZM		
		32	9,0	ST42/20 E	ST42/20 ZM		
		40	11,0	ST42/32 E	ST42/32 ZM		
		63	15,0	ST42/40 E	ST42/40 ZM		
Commutatore graduale a 4 posizioni							
 F 303	 3poli	10	2,2	ST43/ 4 E	ST43/ 4 ZM		
		25	5,5	ST43/ 8 E	ST43/ 8 ZM		
		25	7,5	ST43/16 E	ST43/16 ZM		
		32	9,0	ST43/20 E	ST43/20 ZM		
		40	11,0	ST43/32 E	ST43/32 ZM		
		63	15,0	ST43/40 E	ST43/40 ZM		
Commutatore graduale a 4 posizioni							
 F 303	 4poli	10	2,2	ST44/ 4 E	ST44/ 4 ZM		
		25	5,5	ST44/ 8 E	ST44/ 8 ZM		
		25	7,5	ST44/16 E	ST44/16 ZM		
		32	9,0	ST44/20 E	ST44/20 ZM		
		40	11,0	ST44/32 E	ST44/32 ZM		
		63	15,0	ST44/40 E	ST44/40 ZM		

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



		ST32/11 V	ST32/11 VZ	ST32/8 T	ST32/11 PL
		ST32/16 V	ST32/16 VZ		ST32/16 PL
		ST32/20 V	ST32/20 VZ		ST32/20 PL
		ST32/32 V	ST32/32 VZ		ST32/32 PL
		ST32/40 V	ST32/40 VZ		ST32/40 PL

		ST33/11 V	ST33/11 VZ		ST33/11 PL
		ST33/16 V	ST33/16 VZ		ST33/16 PL
		ST33/20 V	ST33/20 VZ		ST33/20 PL
		ST33/32 V	ST33/32 VZ		ST33/32 PL
		ST33/40 V	ST33/40 VZ		ST33/40 PL

		ST34/11 V	ST34/11 VZ		
		ST34/16 V	ST34/16 VZ		
		ST34/20 V	ST34/20 VZ		
		ST34/32 V	ST34/32 VZ		
		ST34/40 V	ST34/40 VZ		

		ST41/11 V	ST41/11 VZ	ST41/8 T	ST41/11 PL
		ST41/16 V	ST41/16 VZ	ST41/16 T	ST41/16 PL
		ST41/20 V	ST41/20 VZ	ST41/20 T	ST41/20 PL
		ST41/32 V	ST41/32 VZ	ST41/32 T	ST41/32 PL
		ST41/40 V	ST41/40 VZ	ST41/40 T	ST41/40 PL

					ST42/11 PL
		ST42/11 V	ST42/11 VZ		ST42/16 PL
		ST42/16 V	ST42/16 VZ		ST42/20 PL
		ST42/20 V	ST42/20 VZ		ST42/32 PL
		ST42/32 V	ST42/32 VZ		ST42/40 PL
		ST42/40 V	ST42/40 VZ		

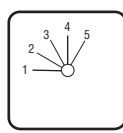
		ST43/11 V	ST43/11 VZ		
		ST43/16 V	ST43/16 VZ		
		ST43/20 V	ST43/20 VZ		
		ST43/32 V	ST43/32 VZ		
		ST43/40 V	ST43/40 VZ		

		ST44/11 V	ST44/11 VZ		
		ST44/16 V	ST44/16 VZ		
		ST44/20 V	ST44/20 VZ		
		ST44/32 V	ST44/32 VZ		
		ST44/40 V	ST44/40 VZ		

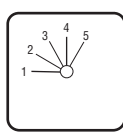
Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E tipo 	fissaggio centrale ZM tipo 
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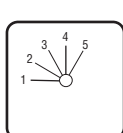
Commutatore graduale a 5 posizioni

 F 304 3Ka-A1133	1polo		10	2,2	ST51/ 4	E	ST51/ 4	ZM
			25	5,5	ST51/ 8	E	ST51/ 8	ZM
			25	7,5	ST51/16	E	ST51/16	ZM
			32	9,0	ST51/20	E	ST51/20	ZM
			40	11,0	ST51/32	E	ST51/32	ZM
			63	15,0	ST51/40	E	ST51/40	ZM

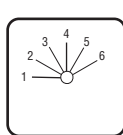
Commutatore graduale a 5 posizioni

 F 304 5Ka-A1153	2poli		10	2,2	ST52/ 4	E	ST52/ 4	ZM
			25	5,5	ST52/ 8	E	ST52/ 8	ZM
			25	7,5	ST52/16	E	ST52/16	ZM
			32	9,0	ST52/20	E	ST52/20	ZM
			40	11,0	ST52/32	E	ST52/32	ZM
			63	15,0	ST52/40	E	ST52/40	ZM

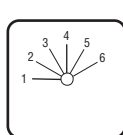
Commutatore graduale a 5 posizioni

 F 304 8Ka-A1173	3poli		10	2,2	ST53/ 4	E	ST53/ 4	ZM
			25	5,5	ST53/ 8	E	ST53/ 8	ZM
			25	7,5	ST53/16	E	ST53/16	ZM
			32	9,0	ST53/20	E	ST53/20	ZM
			40	11,0	ST53/32	E	ST53/32	ZM
			63	15,0	ST53/40	E	ST53/40	ZM

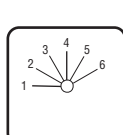
Commutatore graduale a 6 posizioni

 F 305 3Ka-A1143	1polo		10	2,2	ST61/ 4	E	ST61/ 4	ZM
			25	5,5	ST61/ 8	E	ST61/ 8	ZM
			25	7,5	ST61/16	E	ST61/16	ZM
			32	9,0	ST61/20	E	ST61/20	ZM
			40	11,0	ST61/32	E	ST61/32	ZM
			63	15,0	ST61/40	E	ST61/40	ZM

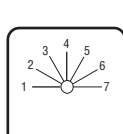
Commutatore graduale a 6 posizioni

 F 305 6Ka-A1154	2poli		10	2,2	ST62/ 4	E	ST62/ 4	ZM
			25	5,5	ST62/ 8	E	ST62/ 8	ZM
			25	7,5	ST62/16	E	ST62/16	ZM
			32	9,0	ST62/20	E	ST62/20	ZM
			40	11,0	ST62/32	E	ST62/32	ZM
			63	15,0	ST62/40	E	ST62/40	ZM

Commutatore graduale a 6 posizioni

 F 305 9Ka-A1174	3poli		10	2,2	ST63/ 4	E	ST63/ 4	ZM
			25	5,5	ST63/11	E	ST63/ 8	ZM
			25	7,5	ST63/16	E	ST63/16	ZM
			32	9,0	ST63/20	E	ST63/20	ZM
			40	11,0	ST63/32	E	ST63/32	ZM
			63	15,0	ST63/40	E	ST63/40	ZM

Commutatore graduale a 7 posizioni

 F 306 4Ka-A1135	1polo		10	2,2	ST71/ 4	E	ST71/ 4	ZM
			25	5,5	ST71/ 8	E	ST71/ 8	ZM
			25	7,5	ST71/16	E	ST71/16	ZM
			32	9,0	ST71/20	E	ST71/20	ZM
			40	11,0	ST71/32	E	ST71/32	ZM
			63	15,0	ST71/40	E	ST71/40	ZM

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



		ST51/11 V	ST51/11 VZ	ST51/8 T	ST51/11 PL
		ST51/16 V	ST51/16 VZ		ST51/16 PL
		ST51/20 V	ST51/20 VZ		ST51/20 PL
		ST51/32 V	ST51/32 VZ		ST51/32 PL
		ST51/40 V	ST51/40 VZ		ST51/40 PL

		ST52/11 V	ST52/11 VZ		ST52/11 PL
		ST52/16 V	ST52/16 VZ		ST52/16 PL
		ST52/20 V	ST52/20 VZ		ST52/20 PL
		ST52/32 V	ST52/32VZ		ST52/32 PL
		ST52/40 V	ST52/40 VZ		ST52/40 PL

		ST53/11 V	ST53/11 VZ		
		ST53/16 V	ST53/16 VZ		
		ST53/20 V	ST53/20 VZ		
		ST53/32 V	ST53/32 VZ		
		ST53/40 V	ST53/40 VZ		

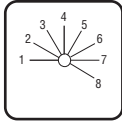
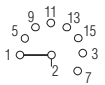
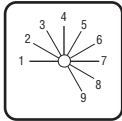
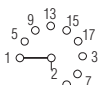
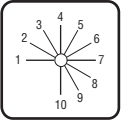
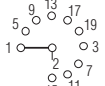
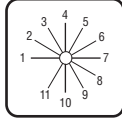
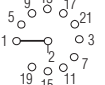
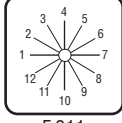
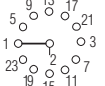
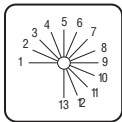
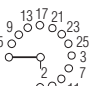
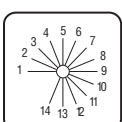
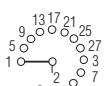
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		ST61/20 V	ST61/20 VZ		ST61/20 PL
		ST61/32 V	ST61/32 VZ		ST61/32 PL
		ST61/40 V	ST61/40 VZ		ST61/40 PL

		ST62/11 V	ST62/11 VZ		
		ST62/16 V	ST62/16 VZ		
		ST62/20 V	ST62/20 VZ		
		ST62/32 V	ST62/32 VZ		
		ST62/40 V	ST62/40 VZ		

		ST63/11 V	ST63/11 VZ		
		ST63/16 V	ST63/16 VZ		
		ST63/20 V	ST63/20 VZ		
		ST63/32 V	ST63/32 VZ		
		ST63/40 V	ST63/40 VZ		

		ST71/11 V	ST71/11 VZ		ST71/11 PL
		ST71/16 V	ST71/16 VZ		ST71/16 PL
		ST71/20 V	ST71/20 VZ		ST71/20 PL
		ST71/32 V	ST71/32 VZ		ST71/32 PL
		ST71/40 V	ST71/40 VZ		ST71/40 PL

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM		
				tipo 	tipo 		
Commutatore graduale a 8 posizioni							
 F 307	 1 polo	10	2,2	ST81/ 4 E	ST81/ 4 ZM		
		25	5,5	ST81/ 8 E	ST81/ 8 ZM		
		25	7,5	ST81/16 E	ST81/16 ZM		
		32	9,0	ST81/20 E	ST81/20 ZM		
		40	11,0	ST81/32 E	ST81/32 ZM		
		63	15,0	ST81/40 E	ST81/40 ZM		
Commutatore graduale a 9 posizioni							
 F 308	 1 polo	10	2,2	ST91/ 4 E	ST91/ 4 ZM		
		25	5,5	ST91/ 8 E	ST91/ 8 ZM		
		25	7,5	ST91/16 E	ST91/16 ZM		
		32	9,0	ST91/20 E	ST91/20 ZM		
		40	11,0	ST91/32 E	ST91/32 ZM		
		63	15,0	ST91/40 E	ST91/40 ZM		
Commutatore graduale a 10 posizioni							
 F 309	 1 polo	10	2,2	ST101/4 E	ST101/4 ZM		
		25	5,5	ST101/8 E	ST101/8 ZM		
		25	7,5	ST101/16 E	ST101/16ZM		
		32	9,0	ST101/20 E	ST101/20ZM		
		40	11,0	ST101/32 E	ST101/32ZM		
		63	15,0	ST101/40 E	ST101/40ZM		
Commutatore graduale a 11 posizioni							
 F 310	 1 polo	10	2,2	ST111/4 E	ST111/4 ZM		
		25	5,5	ST111/8 E	ST111/8 ZM		
		25	7,5	ST111/16 E	ST111/16ZM		
		32	9,0	ST111/20 E	ST111/20ZM		
		40	11,0	ST111/32 E	ST111/32ZM		
		63	15,0	ST111/40 E	ST111/40ZM		
Commutatore graduale a 12 posizioni							
 F 311	 1 polo	10	2,2	ST121/4 E	ST121/4 ZM		
		25	5,5	ST121/8 E	ST121/8 ZM		
		25	7,5	ST121/16 E	ST121/16ZM		
		32	9,0	ST121/20 E	ST121/20ZM		
		40	11,0	ST121/32 E	ST121/32ZM		
		63	15,0	ST121/40 E	ST121/40ZM		
Commutatore graduale a 13 posizioni							
 F 201	 1 polo	25	7,5	ST131/16 E			
		32	9,0	ST131/20 E			
		40	11,0	ST131/32 E			
		63	15,0	ST131/40 E			
Commutatore graduale a 14 posizioni							
 F 202	 1 polo	25	7,5	ST141/16 E			
		32	9,0	ST141/20 E			
		40	11,0	ST141/32 E			
		63	15,0	ST141/40 E			

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



ST81/11 V

ST81/11 VZ

ST81/16 V

ST81/16 VZ

ST81/20 V

ST81/20 VZ

ST81/32 V

ST81/32 VZ

ST81/40 V

ST81/40 VZ

ST91/11 V

ST91/11 VZ

ST91/16 V

ST91/16 VZ

ST91/20 V

ST91/20 VZ

ST91/32 V

ST91/32 VZ

ST91/40 V

ST91/40 VZ

ST101/11 V

ST101/11 VZ

ST101/16 V

ST101/16 VZ

ST101/20 V

ST101/20 VZ

ST101/32 V

ST101/32 VZ

ST101/40 V

ST101/40 VZ

ST111/11 V

ST111/11 VZ

ST111/16 V

ST111/16 VZ

ST111/20 V

ST111/20 VZ

ST111/32 V

ST111/32 VZ

ST111/40 V

ST111/40 VZ

ST121/11 V

ST121/11 VZ

ST121/16 V

ST121/16 VZ

ST121/20 V

ST121/20 VZ

ST121/32 V

ST121/32 VZ

ST121/40 V

ST121/40 VZ

ST131/16 V

ST131/16 VZ

ST131/20 V

ST131/20 VZ

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ST141/16 V

ST141/16 VZ

ST141/20 V

ST141/20 VZ

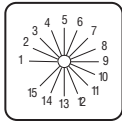
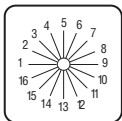
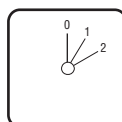
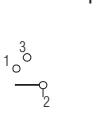
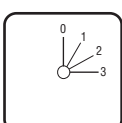
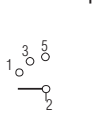
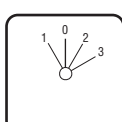
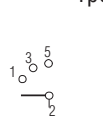
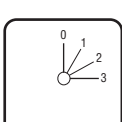
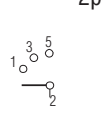
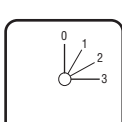
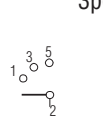
ST141/32 V

ST141/32 VZ

ST141/40 V

ST141/40 VZ

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM		
				tipo 	tipo 		
Commutatore graduale a 15 posizioni							
 F 203	 1polo	25	7,5	ST151/16 E			
		32	9,0	ST151/20 E			
		40	11,0	ST151/32 E			
		63	15,0	ST151/40 E			
Commutatore graduale a 16 posizioni							
 F 204	 1polo	25	7,5	ST161/16 E			
		32	9,0	ST161/20 E			
		40	11,0	ST161/32 E			
		63	15,0	ST161/40 E			
Commutatore graduale a 2 posizioni + 0							
 F 314	 1polo	10	2,2	ST021/4 E	ST021/4 ZM		
		25	5,5	ST021/8 E	ST021/8 ZM		
		25	7,5	ST021/16 E	ST021/16ZM		
		32	9,0	ST021/20 E	ST021/20ZM		
		40	11,0	ST021/32 E	ST021/32ZM		
		63	15,0	ST021/40 E	ST021/40ZM		
Commutatore graduale a 3 posizioni + 0							
 F 315	 1polo	10	2,2	ST031/4 E	ST031/4 ZM		
		25	5,5	ST031/8 E	ST031/8 ZM		
		25	7,5	ST031/16 E	ST031/16ZM		
		32	9,0	ST031/20 E	ST031/20ZM		
		40	11,0	ST031/32 E	ST031/32ZM		
		63	15,0	ST031/40 E	ST031/40ZM		
Commutatore graduale a 3 posizioni + 0 con angolo di comm. speciale							
 F 375	 1polo	10	2,2	ST031/4 E/F375	ST031/4 ZM/F375		
		25	5,5	ST031/8 E/F375	ST031/8 ZM/F375		
		25	7,5	ST031/16 E/F375	ST031/16ZM/F375		
		32	9,0	ST031/20 E/F375	ST031/20ZM/F375		
		40	11,0	ST031/32 E/F375	ST031/32ZM/F375		
		63	15,0	ST031/40 E/F375	ST031/40ZM/F375		
Commutatore graduale a 3 posizioni + 0							
 F 315	 2poli	10	2,2	ST032/4 E	ST032/4 ZM		
		25	5,5	ST032/8 E	ST032/8 ZM		
		25	7,5	ST032/16 E	ST032/16ZM		
		32	9,0	ST032/20 E	ST032/20ZM		
		40	11,0	ST032/32 E	ST032/32ZM		
		63	15,0	ST032/40 E	ST032/40ZM		
Commutatore graduale a 3 posizioni + 0							
 F 315	 3poli	10	2,2	ST033/4 E	ST033/4 ZM		
		25	5,5	ST033/8 E	ST033/8 ZM		
		25	7,5	ST033/16 E	ST033/16ZM		
		32	9,0	ST033/20 E	ST033/20ZM		
		40	11,0	ST033/32 E	ST033/32ZM		
		63	15,0	ST033/40 E	ST033/40ZM		

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



ST151/16 V

ST151/16 VZ

ST151/20 V

ST151/20 VZ

ST151/32 V

ST151/32 VZ

ST151/40 V

ST151/40 VZ

ST161/16 V

ST161/16 VZ

ST161/20 V

ST161/20 VZ

ST161/32 V

ST161/32 VZ

ST161/40 V

ST161/40 VZ

ST021/11 V

ST021/11 VZ

ST021/8 T

ST021/11 PL

ST021/16 V

ST021/16 VZ

ST021/16 T

ST021/16 PL

ST021/20 V

ST021/20 VZ

ST021/20 T

ST021/20 PL

ST021/32 V

ST021/32 VZ

ST021/32 T

ST021/32 PL

ST021/40 V

ST021/40 VZ

ST021/40 T

ST021/40 PL

ST031/11 V

ST031/11 VZ

ST031/8 T

ST031/11 PL

ST031/16 V

ST031/16 VZ

ST031/16 T

ST031/16 PL

ST031/20 V

ST031/20 VZ

ST031/20 T

ST031/20 PL

ST031/32 V

ST031/32 VZ

ST031/32 T

ST031/32 PL

ST031/40 V

ST031/40 VZ

ST031/40 T

ST031/40 PL

ST031/11 V/F375

ST031/11 VZ/F375

ST031/8 T/F375

ST031/11 PL/F375

ST031/16 V/F375

ST031/16 VZ/F375

ST031/16 T/F375

ST031/16 PL/F375

ST031/20 V/F375

ST031/20 VZ/F375

ST031/20 T/F375

ST031/20 PL/F375

ST031/32 V/F375

ST031/32 VZ/F375

ST031/32 T/F375

ST031/32 PL/F375

ST031/40 V/F375

ST031/40 VZ/F375

ST031/40 T/F375

ST031/40 PL/F375

ST032/11 V

ST032/11 VZ

ST032/8 T

ST032/11 PL

ST032/16 V

ST032/16 VZ

ST032/16 PL

ST032/20 V

ST032/20 VZ

ST032/20 PL

ST032/32 V

ST032/32 VZ

ST032/32 PL

ST032/40 V

ST032/40 VZ

ST032/40 PL

ST033/8 V

ST033/11 VZ

ST033/11 PL

ST033/16 V

ST033/16 VZ

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ST033/20 PL

ST033/32 V

ST033/32 VZ

ST033/32 PL

ST033/40 V

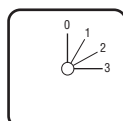
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ST033/40 PL

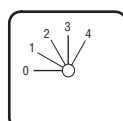
Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E tipo 	fissaggio centrale ZM tipo 
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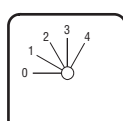
Commutatore graduale a 3 posizioni + 0

 F 315 6Ka-A1317	4poli	10	2,2	ST034/ 4 E	ST034/4 ZM		
		25	5,5	ST034/ 8 E	ST034/8 ZM		
		25	7,5	ST034/16 E	ST034/16ZM		
		32	9,0	ST034/20 E	ST034/20ZM		
		40	11,0	ST034/32 E	ST034/32ZM		
		63	15,0	ST034/40 E	ST034/40ZM		

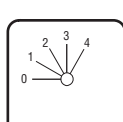
Commutatore graduale a 4 posizioni + 0

 F 316 2Ka-A1143	1polo	10	2,2	ST041/ 4 E	ST041/4 ZM		
		25	5,5	ST041/ 8 E	ST041/8 ZM		
		25	7,5	ST041/16 E	ST041/16ZM		
		32	9,0	ST041/20 E	ST041/20ZM		
		40	11,0	ST041/32 E	ST041/32ZM		
		63	15,0	ST041/40 E	ST041/40ZM		

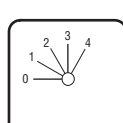
Commutatore graduale a 4 posizioni + 0

 F 316 4Ka-A1163	2poli	10	2,2	ST042/4 E	ST042/4 ZM		
		25	5,5	ST042/8 E	ST042/8 ZM		
		25	7,5	ST042/16 E	ST042/16ZM		
		32	9,0	ST042/20 E	ST042/20ZM		
		40	11,0	ST042/32 E	ST042/32ZM		
		63	15,0	ST042/40 E	ST042/40ZM		

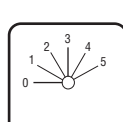
Commutatore graduale a 4 posizioni + 0

 F 316 6Ka-A1183	3poli	10	2,2	ST043/4 E	ST043/4 ZM		
		25	5,5	ST043/8 E	ST043/8 ZM		
		25	7,5	ST043/16 E	ST043/16ZM		
		32	9,0	ST043/20 E	ST043/20ZM		
		40	11,0	ST043/32 E	ST043/32ZM		
		63	15,0	ST043/40 E	ST043/40ZM		

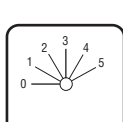
Commutatore graduale a 4 posizioni + 0

 F 316 8Ka-A1191	4poli	10	2,2	ST044/4 E	ST044/4 ZM		
		25	5,5	ST044/8 E	ST044/8 ZM		
		25	7,5	ST044/16 E	ST044/16ZM		
		32	9,0	ST044/20 E	ST044/20ZM		
		40	11,0	ST044/32 E	ST044/32ZM		
		63	15,0	ST044/40 E	ST044/40ZM		

Commutatore graduale a 5 posizioni + 0

 F 317 3Ka-A1144	1polo	10	2,2	ST051/4 E	ST051/4 ZM		
		25	5,5	ST051/8 E	ST051/8 ZM		
		25	7,5	ST051/16 E	ST051/16ZM		
		32	9,0	ST051/20 E	ST051/20ZM		
		40	11,0	ST051/32 E	ST051/32ZM		
		63	15,0	ST051/40 E	ST051/40ZM		

Commutatore graduale a 5 posizioni + 0

 F 317 5Ka-A1164	2poli	10	2,2	ST052/4 E	ST052/4 ZM		
		25	5,5	ST052/8 E	ST052/8 ZM		
		25	7,5	ST052/16 E	ST052/16ZM		
		32	9,0	ST052/20 E	ST052/20ZM		
		40	11,0	ST052/32 E	ST052/32ZM		
		63	15,0	ST052/40 E	ST052/40ZM		

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



ST034/11 V

ST034/11 VZ

ST034/16 V

ST034/16 VZ

ST034/20 V

ST034/20 VZ

ST034/32 V

ST034/32 VZ

ST034/40 V

ST034/40 VZ

ST041/11 V

ST041/11 VZ

ST041/8 T

ST041/11 PL

ST041/16 V

ST041/16 VZ

ST041/16 T

ST041/16 PL

ST041/20 V

ST041/20 VZ

ST041/20 T

ST041/20 PL

ST041/32 V

ST041/32 VZ

ST041/32 T

ST041/32 PL

ST041/40 V

ST041/40 VZ

ST041/40 T

ST041/40 PL

ST042/8 V

ST042/11 VZ

ST042/11 PL

ST042/16 V

ST042/16 VZ

ST042/16 PL

ST042/20 V

ST042/20 VZ

ST042/20 PL

ST042/32 V

ST042/32 VZ

ST042/32 PL

ST042/40 V

ST042/40 VZ

ST042/40 PL

ST043/11 V

ST043/11 VZ

ST043/16 V

ST043/16 VZ

ST043/20 V

ST043/20 VZ

ST043/32 V

ST043/32 VZ

ST043/40 V

ST043/40 VZ

ST044/11 V

ST044/11 VZ

ST044/16 V

ST044/16 VZ

ST044/20 V

ST044/20 VZ

ST044/32 V

ST044/32 VZ

ST044/40 V

ST044/40 VZ

ST051/11 V

ST051/11 VZ

ST051/8 T

ST051/11 PL

ST051/16 V

ST051/16 VZ

ST051/16 PL

ST051/20 V

ST051/20 VZ

ST051/20 PL

ST051/32 V

ST051/32 VZ

ST051/32 PL

ST051/40 V

ST051/40 VZ

ST051/40 PL

ST052/11 V

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ST052/16 V

ST052/16 VZ

ST052/20 V

ST052/20 VZ

ST052/32 V

ST052/32 VZ

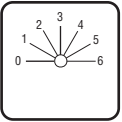
ST052/40 V

ST052/40 VZ

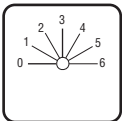
Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E tipo 	fissaggio centrale ZM tipo 
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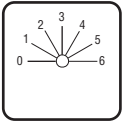
Commutatore graduale a 6 posizioni + 0

 F 318 3Ka-A1145	1polo		10	2,2	ST061/ 4 E	ST061/4 ZM		
			25	5,5	ST061/ 8 E	ST061/8 ZM		
			25	7,5	ST061/16 E	ST061/16ZM		
			32	9,0	ST061/20 E	ST061/20ZM		
			40	11,0	ST061/32 E	ST061/32ZM		
			63	15,0	ST061/40 E	ST061/40ZM		

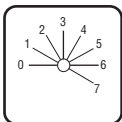
Commutatore graduale a 6 posizioni + 0

 F 318 6Ka-A1165	2poli		10	2,2	ST062/ 4 E	ST062/4 ZM		
			25	5,5	ST062/ 8 E	ST062/8 ZM		
			25	7,5	ST062/ 16 E	ST062/16ZM		
			32	9,0	ST062/ 20 E	ST062/20ZM		
			40	11,0	ST062/ 32 E	ST062/32ZM		
			63	15,0	ST062/ 40 E	ST062/40ZM		

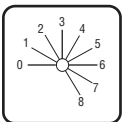
Commutatore graduale a 6 posizioni + 0

 F 318 9Ka-A1185	3poli				ST063/ 4 E	ST063/ 4 ZM		
			25	5,5	ST063/ 8 E	ST063/ 8 ZM		
			25	7,5	ST063/ 16 E	ST063/16ZM		
			32	9,0	ST063/ 20 E	ST063/20ZM		
			40	11,0	ST063/ 32 E	ST063/32ZM		
			63	15,0	ST063/ 40 E	ST063/40ZM		

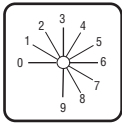
Commutatore graduale a 7 posizioni + 0

 F 319 4Ka-A1146	1polo		10	2,2	ST071/ 4 E	ST071/4 ZM		
			25	5,5	ST071/ 8 E	ST071/8 ZM		
			25	7,5	ST071/ 16 E	ST071/16ZM		
			32	9,0	ST071/ 20 E	ST071/20ZM		
			40	11,0	ST071/ 32 E	ST071/32ZM		
			63	15,0	ST071/ 40 E	ST071/40ZM		

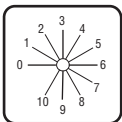
Commutatore graduale a 8 posizioni + 0

 F 320 4Ka-A1147	1polo		10	2,2	ST081/ 4 E	ST081/6 ZM		
			25	5,5	ST081/ 8 E	ST081/8 ZM		
			25	7,5	ST081/ 16 E	ST081/16ZM		
			32	9,0	ST081/ 20 E	ST081/20ZM		
			40	11,0	ST081/ 32 E	ST081/32ZM		
			63	15,0	ST081/ 40 E	ST081/40ZM		

Commutatore graduale a 9 posizioni + 0

 F 321 4Ka-A1148	1polo		10	2,2	ST091/ 4 E	ST091/6 ZM		
			25	5,5	ST091/ 8 E	ST091/8 ZM		
			25	7,5	ST091/ 16 E	ST091/16ZM		
			32	9,0	ST091/ 20 E	ST091/20ZM		
			40	11,0	ST091/ 32 E	ST091/32ZM		
			63	15,0	ST091/ 40 E	ST091/40ZM		

Commutatore graduale a 10 posizioni + 0

 F 322 5Ka-A1149	1polo		10	2,2	ST0101/ 4 E	ST0101/ 4 ZM		
			25	5,5	ST0101/ 8 E	ST0101/ 8 ZM		
			25	7,5	ST0101/ 16 E	ST0101/ 16 ZM		
			32	9,0	ST0101/ 20 E	ST0101/ 20 ZM		
			40	11,0	ST0101/ 32 E	ST0101/ 32 ZM		
			63	15,0	ST0101/ 40 E	ST0101/ 40 ZM		

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



ST061/11 V

ST061/11 VZ

ST061/8 T

ST061/11 PL

ST061/16 V

ST061/16 VZ

ST061/16 PL

ST061/20 V

ST061/20 VZ

ST061/20 PL

ST061/32 V

ST061/32 VZ

ST061/32 PL

ST061/40 V

ST061/40 VZ

ST061/40 PL

ST062/11 V

ST062/11 VZ

ST062/16 V

ST062/16 VZ

ST062/20 V

ST062/20 VZ

ST062/32 V

ST062/32 VZ

ST062/40 V

ST062/40 VZ

ST063/11 V

ST063/11 VZ

ST063/16 V

ST063/16 VZ

ST063/20 V

ST063/20 VZ

ST063/32 V

ST063/32 VZ

ST063/40 V

ST063/40 VZ

ST071/11 V

ST071/11 VZ

ST071/11 PL

ST071/16 V

ST071/16 VZ

ST071/16 PL

ST071/20 V

ST071/20 VZ

ST071/20 PL

ST071/32 V

ST071/32 VZ

ST071/32 PL

ST071/40 V

ST071/40 VZ

ST071/40 PL

ST081/11 V

ST081/11 VZ

ST081/16 V

ST081/16 VZ

ST081/20 V

ST081/20 VZ

ST081/32 V

ST081/32 VZ

ST081/40 V

ST081/40 VZ

ST091/11 V

ST091/11 VZ

ST091/16 V

ST091/16 VZ

ST091/20 V

ST091/20 VZ

ST091/32 V

ST091/32 VZ

ST091/40 V

ST091/40 VZ

ST0101/ 11 V

ST0101/ 11 VZ

ST0101/ 16 V

ST0101/ 16 VZ

ST0101/ 20 V

ST0101/ 20 VZ

ST0101/ 32 V

ST0101/ 32 VZ

ST0101/ 40 V

ST0101/ 40 VZ

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM			
				tipo	tipo			
Commutatore graduale a 11 posizioni + 0								
 F 323	 1polo	6Ka-A1150	10	2,2	ST0111/ 4 E	ST0111/ 4 ZM		
			25	5,5	ST0111/ 8 E	ST0111/ 8 ZM		
			25	7,5	ST0111/ 16 E	ST0111/ 16 ZM		
			32	9,0	ST0111/ 20 E	ST0111/ 20 ZM		
			40	11,0	ST0111/ 32 E	ST0111/ 32 ZM		
			63	15,0	ST0111/ 40 E	ST0111/ 40 ZM		
Commutatore graduale a 12 posizioni + 0								
 F 205	 1polo	6Ka-A1361	25	7,5	ST0121/ 16 E			
			32	9,0	ST0121/ 20 E			
			40	11,0	ST0121/ 32 E			
			63	15,0	ST0121/ 40 E			
Commutatore graduale a 13 posizioni + 0								
 F 206	 1polo	7Ka-A1362	25	7,5	ST0131/ 16 E			
			32	9,0	ST0131/ 20 E			
			40	11,0	ST0131/ 32 E			
			63	15,0	ST0131/ 40 E			
Commutatore graduale a 14 posizioni + 0								
 F 207	 1polo	7Ka-A1363	25	7,5	ST0141/ 16 E			
			32	9,0	ST0141/ 20 E			
			40	11,0	ST0141/ 32 E			
			63	15,0	ST0141/ 40 E			
Commutatore graduale a 15 posizioni + 0								
 F 208	 1polig	8Ka-A1364	25	7,5	ST0151/ 16 E			
			32	9,0	ST0151/ 20 E			
			40	15,0	ST0151/ 32 E			
			63	15,0	ST0151/ 40 E			
Commutatore voltmetrico								
 F 416	 per 3 fasi	2Ka-A1085	10	2,2	V0/ 4 E	V0/ 4 ZM		
			25	5,5	V0/ 8 E	V0/ 8 ZM		
			25	7,5	V0/ 16 E	V0/ 16 ZM		
Commutatore voltmetrico								
 F 417	 per 3 fasi concatenate	2Ka-A1086	10	2,2	V3/ 4 E	V3/ 4 ZM		
			25	5,5	V3/ 8 E	V3/ 8 ZM		
			25	7,5	V3/ 16 E	V3/ 16 ZM		

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



ST0111/ 11 V

ST0111/ 11 VZ

ST0111/ 16 V

ST0111/ 16 VZ

ST0111/ 20 V

ST0111/ 20 VZ

ST0111/ 32 V

ST0111/ 32 VZ

ST0111/ 40 V

ST0111/ 40 VZ

ST0121/ 16 V

ST0121/ 16 VZ

ST0121/ 20 V

ST0121/ 20 VZ

ST0121/ 32 V

ST0121/ 32 VZ

ST0121/ 40 V

ST0121/ 40 VZ

ST0131/ 16 V

ST0131/ 16 VZ

ST0131/ 20 V

ST0131/ 20 VZ

ST0131/ 32 V

ST0131/ 32 VZ

ST0131/ 40 V

ST0131/ 40 VZ

ST0141/ 16 V

ST0141/ 16 VZ

ST0141/ 20 V

ST0141/ 20 VZ

ST0141/ 32 V

ST0141/ 32 VZ

ST0141/ 40 V

ST0141/ 40 VZ

ST0151/ 16 V

ST0151/ 16 VZ

ST0151/ 20 V

ST0151/ 20 VZ

ST0151/ 32 V

ST0151/ 32 VZ

ST0151/ 40 V

ST0151/ 40 VZ

V0/ 11 V

V0/ 11 VZ

V0/ 16 V

V0/ 16 VZ

V0/ 8 T

V0/ 11 PL

V0/ 16 T

V0/ 16 PL

V3/ 11 V

V3/ 11 VZ

V3/ 8 T

V3/ 11 PL

V3/ 16 V

V3/ 16 VZ

V3/ 16 T

V3/ 16 PL

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E tipo 	fissaggio centrale ZM tipo 
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Commutatore voltmetrico

per 3 fasi concatenate +1 fase con neutro		10	2,2	V13/ 4 E	V13/ 4 ZM		
		25	5,5	V13/ 8 E	V13/ 8 ZM		
		25	7,5	V13/ 16 E	V13/ 16 ZM		

Commutatore voltmetrico

1 fase concatenata + 3 fasi con neutro		10	2,2	V31/ 4 E	V31/ 4 ZM		
		25	5,5	V31/ 8 E	V31/ 8 ZM		
		25	7,5	V31/ 16 E	V31/ 16 ZM		

Commutatore voltmetrico

3 fasi concatenate + 3 fasi con neutro		10	2,2	V30/ 4 E	V30/ 4 ZM		
		25	5,5	V30/ 8 E	V30/ 8 ZM		
		25	7,5	V30/ 16 E	V30/ 16 ZM		

Commutatore voltmetrico

3 fasi concatenate + 3 fasi con neutro senza 0		10	2,2	VN30/4 E	VN30/4 ZM		
		25	5,5	VN30/8 E	VN30/8 ZM		
		25	7,5	VN30/16 E	VN30/16 ZM		

Commutatore voltmetrico

3 fasi concatenate per 2 reti trifase		10	2,2	V32/ 4 E	V32/ 4 ZM		
		25	5,5	V32/ 8 E	V32/ 8 ZM		
		25	7,5	V32/ 16 E	V32/ 16 ZM		

Commutatore amperometrico

per 1 riduttore unipolare		10	2,2	AU11/4 E	AU11/4 ZM		
		25	5,5	AU11/8 E	AU11/8 ZM		
		25	7,5	AU11/16 E	AU11/16 ZM		

Commutatore amperometrico

per 2 riduttori unipolare		10	2,2	AU21/4 E	AU21/4 ZM		
		25	5,5	AU21/8 E	AU21/8 ZM		
		25	7,5	AU21/16 E	AU21/16 ZM		

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo


V13/ 11 V
V13/ 16 V

V13/ 11 VZ
V13/ 16 VZ

V13/ 8 T

V13/ 11 PL
V13/ 16 PL

V31/ 11 V
V31/ 16 V

V31/ 11 VZ
V31/ 16 VZ

V31/ 8 T

V31/ 11 PL
V31/ 16 PL

V30/ 11 V
V30/ 16 V

V30/ 11 VZ
V30/ 16 VZ

V30/ 8 T

V30/ 11 PL
V30/ 16 PL

VN30/11 V
VN30/16 V

VN30/11 VZ
VN30/16 VZ

VN30/8 T

VN30/11 PL
VN30/16 PL

V32/ 11 V
V32/ 16 V

V32/ 11 VZ
V32/ 16 VZ

V32/ 11 PL
V32/ 16 PL

AU11/11 V
AU11/16 V

AU11/11 VZ
AU11/16 VZ

AU11/8 T
AU11/16 T

AU11/11 PL
AU11/16 PL

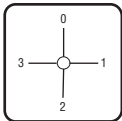
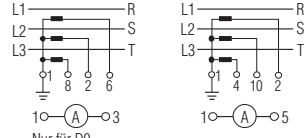
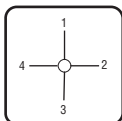
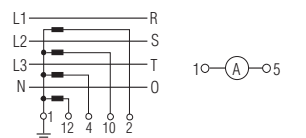
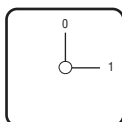
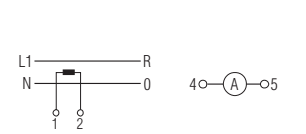
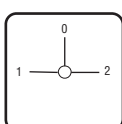
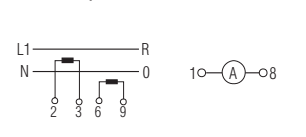
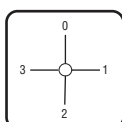
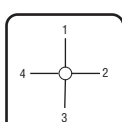
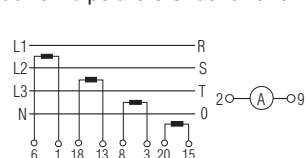
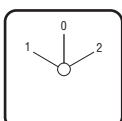
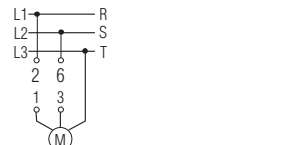
AU21/11 V
AU21/16 V

AU21/11 VZ
AU21/16 VZ

AU21/8 T
AU21/16 T

AU21/11 PL
AU21/16 PL

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM		
				tipo 	tipo 		
Commutatore amperometrico							
 F 904	per 3 riduttori unipolare  Nur für D0 3(4)Ka-A1092	10	2,2	AU31/4 E	AU31/4 ZM		
		25	5,5	AU31/8 E	AU31/8 ZM		
		25	7,5	AU31/16 E	AU31/16 ZM		
Commutatore amperometrico							
 F 905	per 4 riduttori unipolare  4Ka-A1093	10	2,2	AU41/4 E	AU41/4 ZM		
		25	5,5	AU41/8 E	AU41/8 ZM		
		25	7,5	AU41/16 E	AU41/16 ZM		
Commutatore amperometrico							
 F 901	per 1riduttore bipolare o 2 fasi dirette  2Ka-B1094	10	2,2	AU12/4 E	AU12/4 ZM		
		25	5,5	AU12/8 E	AU12/8 ZM		
		25	7,5	AU12/16 E	AU12/16 ZM		
Commutatore amperometrico							
 F 902	per 2 riduttori bipolare o 2 fasi dirette  3Ka-B1095	10	2,2	AU22/4 E	AU22/4 ZM		
		25	5,5	AU22/8 E	AU22/8 ZM		
		25	7,5	AU22/16 E	AU22/16 ZM		
Commutatore amperometrico							
 F 904	per 3 riduttori bipolare o 3 fasi dirette  * Nur für D0 5(6)Ka-B1096	10	2,2	AU32/4 E	AU32/4 ZM		
		25	5,5	AU32/8 E	AU32/8 ZM		
		25	7,5	AU32/16 E	AU32/16 ZM		
Commutatore amperometrico							
 F 905	per 4 riduttori bipolare o 3 fasi dirette  6Ka-B1097	10	2,2	AU42/4 E	AU42/4 ZM		
		25	5,5	AU42/8 E	AU42/8 ZM		
		25	7,5	AU42/16 E	AU42/16 ZM		
Invertitore di marcia							
 F 604	2poli  2Ka-A1025	10	2,2	W2/ 4 E	W2/ 4 ZM		
		25	5,5	W2/ 8 E	W2/ 8 ZM		
		25	7,5	W2/ 16 E	W2/ 16 ZM		
		32	9,0	W2/ 20 E	W2/ 20 ZM		
		40	11,0	W2/ 32 E	W2/ 32 ZM		
		63	15,0	W2/ 40 E	W2/ 40 ZM		
		100	22,0	W2/ 63 E			
		125	27,0	W2/100 E			
		200	40,0	W2/126 E			
		315	64,0	W2/250 E			

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



AU31/8 V
AU31/16 V

AU31/11 VZ
AU31/16 VZ

AU31/8 T

AU31/11 PL
AU31/16 PL

AU41/11 V
AU41/16 V

AU41/11 VZ
AU41/16 VZ

AU41/11 PL
AU41/16 PL

AU12/11 V
AU12/16 V

AU12/11 VZ
AU12/16 VZ

AU12/8 T
AU12/16 T

AU12/11 PL
AU12/16 PL

AU22/11 V
AU22/16 V

AU22/11 VZ
AU22/16 VZ

AU22/8 T

AU22/11 PL
AU22/16 PL

AU32/11 V
AU32/16 V

AU32/11 VZ
AU32/16 VZ

AU32/11 PL
AU32/16 PL

AU42/11 V
AU42/16 V

AU42/11 VZ
AU42/16 VZ

W2/ 11 V
W2/ 16 V
W2/ 20 V
W2/ 32 V
W2/ 40 V
W2/ 63 V
W2/100 V
W2/126 V
W2/250 V

W2/ 11 VZ
W2/ 16 VZ
W2/ 20 VZ
W2/ 32 VZ
W2/ 40 VZ
W2/ 63 VZ
W2/100 VZ

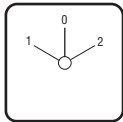
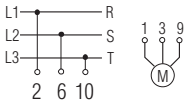
W2/ 8 T
W2/ 16 T
W2/ 20 T
W2/ 32 T
W2/ 40 T

W2/ 11 PL 45,55
W2/ 16 PL 50,80
W2/ 20 PL 65,25
W2/ 32 PL 87,90
W2/ 40 PL 120,80
W2/ 63 PL 168,80

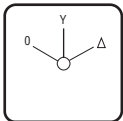
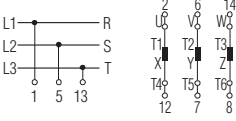
Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E tipo 	fissaggio centrale ZM tipo 
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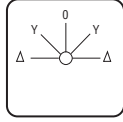
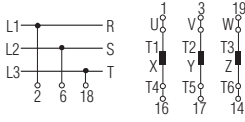
Invertitore di marcia

3poli  F 604  3Ka-A1026		10	2,2	W3/ 4 E	W3/ 4 ZM		
		25	5,5	W3/ 8 E	W3/ 8 ZM		
		25	7,5	W3/ 16 E	W3/ 16 ZM		
		32	9,0	W3/ 20 E	W3/ 20 ZM		
		40	11,0	W3/ 32 E	W3/ 32 ZM		
		63	15,0	W3/ 40 E	W3/ 40 ZM		
		100	22,0	W3/ 63 E			
		125	27,0	W3/100 E			
		200	40,0	W3/126 E			
		315	64,0	W3/250 E			

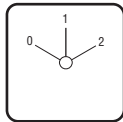
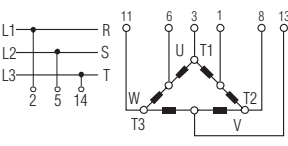
Avviatore stella-triangolo

YΔ  F 607  4Ka-A1031		10	2,2	SD/ 4 E	SD/ 4 ZM		
		25	5,5	SD/ 8 E	SD/ 8 ZM		
		25	7,5	SD/ 16 E	SD/ 16 ZM		
		32	9,0	SD/ 20 E	SD/ 20 ZM		
		40	11,0	SD/ 32 E	SD/ 32 ZM		
		63	15,0	SD/ 40 E	SD/ 40 ZM		
		100	22,0	SD/ 63 E			
		125	27,0	SD/100 E			
		200	40,0	SD/126 E			
		315	64,0	SD/250 E			

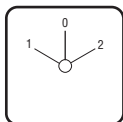
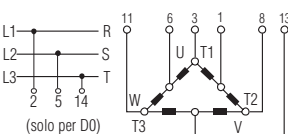
Avviatore-invertitore stella-triangolo

 F 408  5Ka-A1041		10	2,2	WSD/ 4 E	WSD/ 4 ZM		
		25	5,5	WSD/ 8 E	WSD/ 8 ZM		
		25	7,5	WSD/16 E	WSD/16 ZM		
		32	9,0	WSD/20 E	WSD/20 ZM		
		40	11,0	WSD/32 E	WSD/32 ZM		
		63	15,0	WSD/40 E	WSD/40 ZM		
		100	22,0	WSD/63 E			

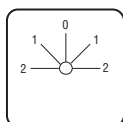
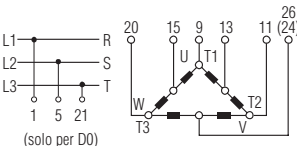
Commutatori di poli, no.2 velocità, avv. Dahlander

commutatore 0-AΔ-AYY  F 603  4Ka-A1044		10	2,2	P12/ 4 E	P12/ 4 ZM		
		25	5,5	P12/ 8 E	P12/ 8 ZM		
		25	7,5	P12/ 16 E	P12/ 16 ZM		
		32	9,0	P12/ 20 E	P12/ 20 ZM		
		40	11,0	P12/ 32 E	P12/ 32 ZM		
		63	15,0	P12/ 40 E	P12/ 40 ZM		
		100	22,0	P12/ 63 E			

Commutatore di poli, no.2 velocità, avv. Dahlander

commutatore con 0 centrale AΔ-0-AYY  F 604  4Ka-A1045		10	2,2	P012/ 4 E	P012/ 4 ZM		
		25	5,5	P012/ 8 E	P012/ 8 ZM		
		25	7,5	P012/16 E	P012/16 ZM		
		32	9,0	P012/20 E	P012/20 ZM		
		40	11,0	P012/32 E	P012/32 ZM		
		63	15,0	P012/40 E	P012/40 ZM		

Commutatore- invertitore di poli, no.2 velocità, avv. Dahlander

AYY-AΔ-0-AΔ-AYY  F 405  6(7)Ka-A1051		10	2,2	WP12/4 E	WP12/4 ZM		
		25	5,5	WP12/8 E	WP12/8 ZM		
		25	7,5	WP12/16 E	WP12/16ZM		
		32	9,0	WP12/20 E	WP12/20ZM		
		40	11,0	WP12/32 E	WP12/32ZM		
		63	15,0	WP12/40 E	WP12/40ZM		

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



		W3/ 11 V	W3/ 11 VZ	W3/ 8 T	W3/ 11 PL
		W3/ 16 V	W3/ 16 VZ		W3/ 16 PL
		W3/ 20 V	W3/ 20 VZ		W3/ 20 PL
		W3/ 32 V	W3/ 32 VZ		W3/ 32 PL
		W3/ 40 V	W3/ 40 VZ		W3/ 40 PL
		W3/ 63 V	W3/ 63 VZ		W3/ 63 PL
		W3/100 V	W3/100 VZ		
		W3/126 V			
		W3/250 V			

		SD/ 11 V	SD/ 11 VZ	SD/ 11 T	SD/ 11 PL
		SD/ 16 V	SD/ 16 VZ		SD/ 16 PL
		SD/ 20 V	SD/ 20 VZ		SD/ 20 PL
		SD/ 32 V	SD/ 32 VZ		SD/ 32 PL
		SD/ 40 V	SD/ 40 VZ		SD/ 40 PL
		SD/ 63 V	SD/ 63 VZ		SD/ 63 PL
		SD/100 V	SD/100 VZ		
		SD/126 V			
		SD/250 V			

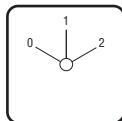
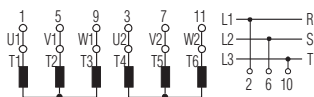
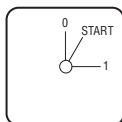
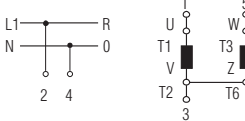
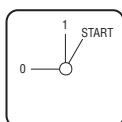
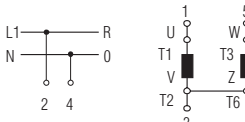
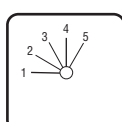
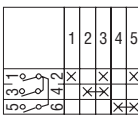
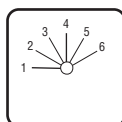
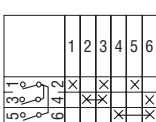
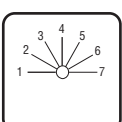
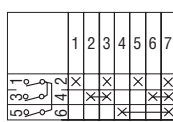
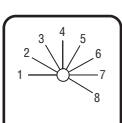
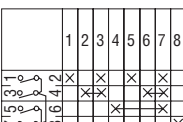
		WSD/11 V	WSD/11 VZ		
		WSD/16 V	WSD/16 VZ		
		WSD/20 V	WSD/20 VZ		
		WSD/32 V	WSD/32 VZ		
		WSD/40 V	WSD/40 VZ		
		WSD/63 V	WSD/63 VZ		

		P12/ 11 V	P12/ 11 VZ		P12/ 11 PL
		P12/ 16 V	P12/ 16 VZ		P12/ 16 PL
		P12/ 20 V	P12/ 20 VZ		P12/ 20 PL
		P12/ 32 V	P12/ 32 VZ		P12/ 32 PL
		P12/ 40 V	P12/ 40 VZ		P12/ 40 PL
		P12/ 63 V	P12/ 63 VZ		P12/ 63 PL

		P012/11 V	P012/11 VZ		P012/11 PL
		P012/16 V	P012/16 VZ		P012/16 PL
		P012/20 V	P012/20 VZ		P012/20 PL
		P012/32 V	P012/32 VZ		P012/32 PL
		P012/40 V	P012/40 VZ		P012/40 PL

		WP12/11 V	WP12/11 VZ		
		WP12/16 V	WP12/16 VZ		
		WP12/20 V	WP12/20 VZ		
		WP12/32 V	WP12/32 VZ		
		WP12/40 V	WP12/40 VZ		

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E			fissaggio centrale ZM			
				tipo			tipo			
Commutatori di poli, no.2 velocità, avv. separati										
 F 603	0-AY-BY o 0-Δ-ΔΔ  3Ka-A1055	10	2,2	P22/ 4	E	P22/ 4	ZM			
		25	5,5	P22/ 8	E	P22/ 8	ZM			
		25	7,5	P22/ 16	E	P22/ 16	ZM			
		32	9,0	P22/ 20	E	P22/ 20	ZM			
		40	11,0	P22/ 32	E	P22/ 32	ZM			
		63	15,0	P22/ 40	E	P22/ 40	ZM			
Commutatore a fase ausiliaria, per motori monofase										
 F 107	con ritorno da start a pos. 0  2Ka-A1077	10	2,2	HP1/ 4	E	HP1/ 4	ZM			
		25	5,5	HP1/ 8	E	HP1/ 8	ZM			
		25	7,5	HP1/ 16	E	HP1/ 16	ZM			
		32	9,0	HP1/ 20	E	HP1/ 20	ZM			
		40	11,0	HP1/ 32	E	HP1/ 32	ZM			
		63	15,0	HP1/ 40	E	HP1/ 40	ZM			
Commutatore a fase ausiliaria, per motori monofase										
 F 108	con ritorno da start a pos. 1  2Ka-A1078	10	2,2	HP2/ 4	E	HP2/ 4	ZM			
		25	5,5	HP2/ 8	E	HP2/ 8	ZM			
		25	7,5	HP2/ 16	E	HP2/ 16	ZM			
		32	9,0	HP2/ 20	E	HP2/ 20	ZM			
		40	11,0	HP2/ 32	E	HP2/ 32	ZM			
		63	15,0	HP2/ 40	E	HP2/ 40	ZM			
Commutatore di comando										
 F 304	1polo 1-5  2Ka-A1404	10	2,2	BC5/ 4	E	BC5/ 4	ZM			
		25	5,5	BC5/ 8	E	BC5/ 8	ZM			
		25	7,5	BC5/ 16	E	BC5/ 16	ZM			
		32	9,0	BC5/ 20	E	BC5/ 20	ZM			
		40	11,0	BC5/ 32	E	BC5/ 32	ZM			
 F 305	1polo 1-6  2Ka-A1408	10	2,2	BC6/ 4	E	BC6/ 4	ZM			
		25	5,5	BC6/ 8	E	BC6/ 8	ZM			
		25	7,5	BC6/ 16	E	BC6/ 16	ZM			
		32	9,0	BC6/ 20	E	BC6/ 20	ZM			
		40	11,0	BC6/ 32	E	BC6/ 32	ZM			
Commutatore di comando										
 F 306	1polo 1-7  2Ka-A1409	10	2,2	BC7/ 4	E	BC7/ 4	ZM			
		25	5,5	BC7/ 8	E	BC7/ 8	ZM			
		25	7,5	BC7/ 16	E	BC7/ 16	ZM			
		32	9,0	BC7/ 20	E	BC7/ 20	ZM			
		40	11,0	BC7/ 32	E	BC7/ 32	ZM			
Commutatore di comando										
 F 307	1polo 1-8  2Ka-A1406	10	2,2	BC8/ 4	E	BC8/ 4	ZM			
		25	5,5	BC8/ 8	E	BC8/ 8	ZM			
		25	7,5	BC8/ 16	E	BC8/ 16	ZM			
		32	9,0	BC8/ 20	E	BC8/ 20	ZM			
		40	11,0	BC8/ 32	E	BC8/ 32	ZM			

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



P22/ 11 V

P22/ 11 VZ

P22/ 11 PL

P22/ 16 V

P22/ 16 VZ

P22/ 16 PL

P22/ 20 V

P22/ 20 VZ

P22/ 20 PL

P22/ 32 V

P22/ 32 VZ

P22/ 32 PL

P22/ 40 V

P22/ 40 VZ

P22/ 40 PL

HP1/11 V

HP1/11 VZ

HP1/ 8 T

HP1/11 PL

HP1/16 V

HP1/16 VZ

HP1/ 16 T

HP1/16 PL

HP1/20 V

HP1/20 VZ

HP1/ 20 T

HP1/20 PL

HP1/32 V

HP1/32 VZ

HP1/ 32 T

HP1/32 PL

HP1/40 V

HP1/40 VZ

HP1/ 40 T

HP1/40 PL

HP2/11 V

HP2/11 VZ

HP2/ 8 T

HP2/11 PL

HP2/16 V

HP2/16 VZ

HP2/ 16 T

HP2/16 PL

HP2/20 V

HP2/20 VZ

HP2/ 20 T

HP2/20 PL

HP2/32 V

HP2/32 VZ

HP2/ 32 T

HP2/32 PL

HP2/40 V

HP2/40 VZ

HP2/ 40 T

HP2/40 PL

BC5/ 11 V

BC5/ 11 VZ

BC5/ 8 T

BC5/ 16 V

BC5/ 16 VZ

BC5/ 16 T

BC5/ 20 V

BC5/ 20 VZ

BC5/ 20 T

BC5/ 32 V

BC5/ 32 VZ

BC5/ 32 T

BC6/ 11 V

BC6/ 11 VZ

BC6/ 8 T

BC6/ 16 V

BC6/ 16 VZ

BC6/ 16 T

BC6/ 20 V

BC6/ 20 VZ

BC6/ 20 T

BC6/ 32 V

BC6/ 32 VZ

BC6/ 32 T

BC7/ 11 V

BC7/ 11 VZ

BC7/ 8 T

BC7/ 16 V

BC7/ 16 VZ

BC7/ 16 T

BC7/ 20 V

BC7/ 20 VZ

BC7/ 20 T

BC7/ 32 V

BC7/ 32 VZ

BC7/ 32 T

BC8/ 11 V

BC8/ 11 VZ

BC8/ 8 T

BC8/ 16 V

BC8/ 16 VZ

BC8/ 16 T

BC8/ 20 V

BC8/ 20 VZ

BC8/ 20 T

BC8/ 32 V

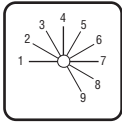
BC8/ 32 VZ

BC8/ 32 T

Interruttori a camme

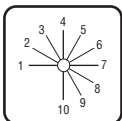
Mostrina	schma di collegamento	A	AC3 400V kW	da retroquadro E tipo 	fissaggio centrale ZM tipo 
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Commutatore di comando

 F 308		1 polo 1-9				
			10	2,2	BC9/ 4 E	BC9/ 4 ZM
			25	5,5	BC9/ 8 E	BC9/ 8 ZM
			25	7,5	BC9/16 E	BC9/16 ZM
			32	9,0	BC9/20 E	BC9/20 ZM
			40	11,0	BC9/32 E	BC9/32 ZM

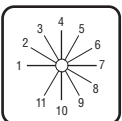
2Ka-A1410

Commutatore di comando

 F 309		1 polo 1-10				
			10	2,2	BC10/ 4 E	BC10/ 4 ZM
			25	5,5	BC10/ 8 E	BC10/ 8 ZM
			25	7,5	BC10/16 E	BC10/16 ZM
			32	9,0	BC10/20 E	BC10/20 ZM
			40	11,0	BC10/32 E	BC10/32 ZM

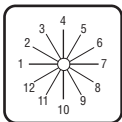
2Ka-B1411

Commutatore di comando

 F 310		1 polo 1-11				
			10	2,2	BC11/ 4 E	BC11/ 4 ZM
			25	5,5	BC11/ 8 E	BC11/ 8 ZM
			25	7,5	BC11/16 E	BC11/16 ZM
			32	9,0	BC11/20 E	BC11/20 ZM
			40	11,0	BC11/32 E	BC11/32 ZM

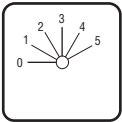
2Ka-B1412

Commutatore di comando

 F 311		1 polo 1-12				
			10	2,2	BC12/ 4 E	BC12/ 4 ZM
			25	5,5	BC12/ 8 E	BC12/ 8 ZM
			25	7,5	BC12/16 E	BC12/16 ZM
			32	9,0	BC12/20 E	BC12/20 ZM
			40	11,0	BC12/32 E	BC12/32 ZM

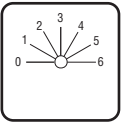
2Ka-B1407

Commutatore di comando

 F 317		1 polo 0-5				
			10	2,2	BC05/ 4 E	BC05/ 4 ZM
			25	5,5	BC05/ 8 E	BC05/ 8 ZM
			25	7,5	BC05/16 E	BC05/16 ZM
			32	9,0	BC05/20 E	BC05/20 ZM
			40	11,0	BC05/32 E	BC05/32 ZM

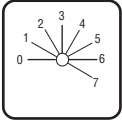
2Ka-B1415

Commutatore di comando

 F 318		1 polo 0-6				
			10	2,2	BC06/ 4 E	BC06/ 4 ZM
			25	5,5	BC06/ 8 E	BC06/ 8 ZM
			25	7,5	BC06/16 E	BC06/16 ZM
			32	9,0	BC06/20 E	BC06/20 ZM
			40	11,0	BC06/32 E	BC06/32 ZM

2Ka-B1401

Commutatore di comando

 F 319		1 polo 0-7				
			10	2,2	BC07/ 4 E	BC07/ 4 ZM
			25	5,5	BC07/ 8 E	BC07/ 8 ZM
			25	7,5	BC07/16 E	BC07/16 ZM
			32	9,0	BC07/20 E	BC07/20 ZM
			40	11,0	BC07/32 E	BC07/32 ZM

2Ka-A1405

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



BC9/11 V

BC9/11 VZ

BC9/ 8 T

BC9/16 V

BC9/16 VZ

BC9/16 T

BC9/20 V

BC9/20 VZ

BC9/20 T

BC9/32 V

BC9/32 VZ

BC9/32 T

BC10/11 V

BC10/11 VZ

BC10/ 8 T

BC10/16 V

BC10/16 VZ

BC10/16 T

BC10/20 V

BC10/20 VZ

BC10/20 T

BC10/32 V

BC10/32 VZ

BC10/32 T

BC11/11 V

BC11/11 VZ

BC11/ 8 T

BC11/16 V

BC11/16 VZ

BC11/16 T

BC11/20 V

BC11/20 VZ

BC11/20 T

BC11/32 V

BC11/32 VZ

BC11/32 T

BC12/11 V

BC12/11 VZ

BC12/ 8 T

BC12/16 V

BC12/16 VZ

BC12/16 T

BC12/20 V

BC12/20 VZ

BC12/20 T

BC12/32 V

BC12/32 VZ

BC12/32 T

BC05/11 V

BC05/11 VZ

BC05/ 8 T

BC05/16 V

BC05/16 VZ

BC05/16 T

BC05/20 V

BC05/20 VZ

BC05/20 T

BC05/32 V

BC05/32 VZ

BC05/32 T

BC06/11 V

BC06/11 VZ

BC06/ 8 T

BC06/16 V

BC06/16 VZ

BC06/16 T

BC06/20 V

BC06/20 VZ

BC06/20 T

BC06/32 V

BC06/32 VZ

BC06/32 T

BC07/11 V

BC07/11 VZ

BC07/ 8 T

BC07/16 V

BC07/16 VZ

BC07/16 T

BC07/20 V

BC07/20 VZ

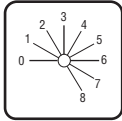
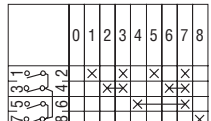
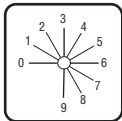
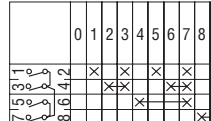
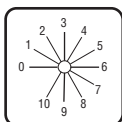
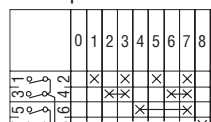
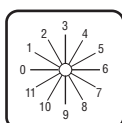
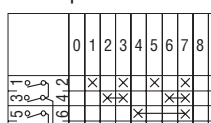
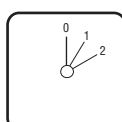
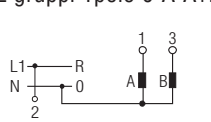
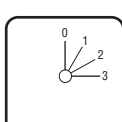
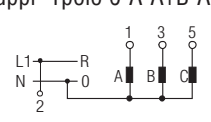
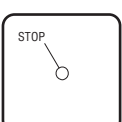
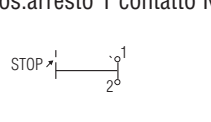
BC07/20 T

BC07/32 V

BC07/32 VZ

BC07/32 T

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centraleZM					
				tipo 	tipo 					
Commutatore di comando										
 F 320	1 polo 0-8 	2Ka-A1413	10	2,2	BC08/ 4	E	BC08/ 4	ZM		
			25	5,5	BC08/ 8	E	BC08/ 8	ZM		
			25	7,5	BC08/16	E	BC08/16	ZM		
			32	9,0	BC08/20	E	BC08/20	ZM		
			40	11,0	BC08/32	E	BC08/32	ZM		
Commutatore di comando										
 F 321	1 polo 0-9 	2Ka-A1400	10	2,2	BC09/ 4	E	BC09/ 4	ZM		
			25	5,5	BC09/ 8	E	BC09/ 8	ZM		
			25	7,5	BC09/16	E	BC09/16	ZM		
			32	9,0	BC09/20	E	BC09/20	ZM		
			40	11,0	BC09/32	E	BC09/32	ZM		
Commutatore di comando										
 F 322	1 polo 0-10 	2Ka-B1414	10	2,2	BC010/4	E	BC010/4	ZM		
			25	5,5	BC010/8	E	BC010/8	ZM		
			25	7,5	BC010/16	E	BC010/16	ZM		
			32	9,0	BC010/20	E	BC010/20	ZM		
			40	11,0	BC010/32	E	BC010/32	ZM		
Commutatore di comando										
 F 323	1 polo 0-11 	2Ka-A1402	10	2,2	BC011/4	E	BC011/4	ZM		
			25	5,5	BC011/8	E	BC011/8	ZM		
			25	7,5	BC011/16	E	BC011/16	ZM		
			32	9,0	BC011/20	E	BC011/20	ZM		
			40	11,0	BC011/32	E	BC011/32	ZM		
Commutatore di gruppi										
 F 314	2 gruppi 1 polo 0-A-A+B 	1Ka-A1115	10	2,2	GR21/4	E	GR21/4	ZM		
			25	5,5	GR21/8	E	GR21/8	ZM		
			25	7,5	GR21/16	E	GR21/16	ZM		
			32	9,0	GR21/20	E	GR21/20	ZM		
			40	11,0	GR21/32	E	GR21/32	ZM		
			63	15,0	GR21/40	E	GR21/40	ZM		
Commutatore di gruppi										
 F 315	3 gruppi 1 polo 0-A-A+B-A+B+C 	2Ka-A1116	10	2,2	GR31/4	E	GR31/4	ZM		
			25	5,5	GR31/8	E	GR31/8	ZM		
			25	7,5	GR31/16	E	GR31/16	ZM		
			32	9,0	GR31/20	E	GR31/20	ZM		
			40	11,0	GR31/32	E	GR31/32	ZM		
			63	15,0	GR31/40	E	GR31/40	ZM		
Manipolatore ad impulso										
 F 328	pos.arresto 1 contatto NA 	2Ka-A1101	10	2,2	SA/ 4	E	SA/ 4	ZM		
			25	5,5	SA/ 8	E	SA/ 8	ZM		
			25	7,5	SA/ 16	E	SA/ 16	ZM		
			32	9,0	SA/ 20	E	SA/ 20	ZM		
			40	11,0	SA/ 32	E	SA/ 32	ZM		

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



BC08/11 V
BC08/16 V
BC08/20 V
BC08/32 V

BC08/11 VZ
BC08/16 VZ
BC08/20 VZ
BC08/32 VZ

BC08/8 T
BC08/16 T
BC08/20 T
BC08/32 T

BC09/11 V
BC09/16 V
BC09/20 V
BC09/32 V

BC09/11 VZ
BC09/16 VZ
BC09/20 VZ
BC09/32 VZ

BC09/8 T
BC09/16 T
BC09/20 T
BC09/32 T

BC010/11 V
BC010/16 V
BC010/20 V
BC010/32 V

BC010/11 VZ
BC010/16 VZ
BC010/20 VZ
BC010/32 VZ

BC010/8 T
BC010/16 T
BC010/20 T
BC010/32 T

BC011/11 V
BC011/16 V
BC011/20 V
BC011/32 V

BC011/11 VZ
BC011/16 VZ
BC011/20 VZ
BC011/32 VZ

BC011/8 T
BC011/16 T
BC011/20 T
BC011/32 T

GR21/11 V
GR21/16 V
GR21/20 V
GR21/32 V
GR21/40 V

GR21/11 VZ
GR21/16 VZ
GR21/20 VZ
GR21/32 VZ
GR21/40 VZ

GR21/8 T
GR21/16 T
GR21/20 T
GR21/32 T
GR21/40 T

GR21/11 PL
GR21/16 PL
GR21/20 PL
GR21/32 PL
GR21/40 PL

GR31/11 V
GR31/16 V
GR31/20 V
GR31/32 V
GR31/40 V

GR31/11 VZ
GR31/16 VZ
GR31/20 VZ
GR31/32 VZ
GR31/40 VZ

GR31/8 T
GR31/16 T
GR31/20 T
GR31/32 T
GR31/40 T

GR31/11 PL
GR31/16 PL
GR31/20 PL
GR31/32 PL
GR31/40 PL

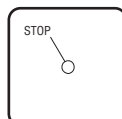
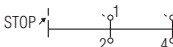
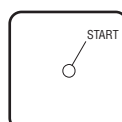
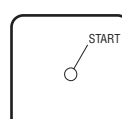
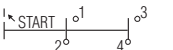
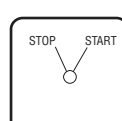
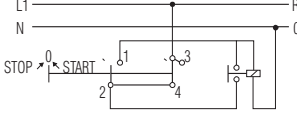
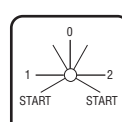
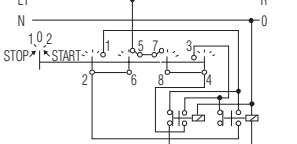
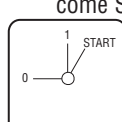
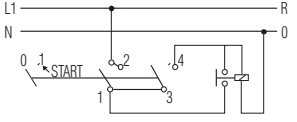
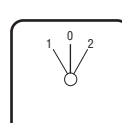
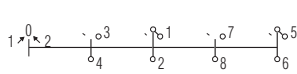
SA/ 11 V
SA/ 16 V
SA/ 20 V
SA/ 32 V

SA/ 11 VZ
SA/ 16 VZ
SA/ 20 VZ
SA/ 32 VZ

SA/ 8 T
SA/ 16 T
SA/ 20 T
SA/ 32 T

SA/ 11 PL
SA/ 16 PL
SA/ 20 PL
SA/ 32 PL

Interruttori a camme

Mostrina	schema di collegamento	A	AC3 400V kW	da retroquadro E	fissaggio centrale ZM		
				tipo 	tipo 		
Manipolatore ad impulso							
 F 328		10	2,2	SA2/ 4 E	SA2/ 4 ZM		
		25	5,5	SA2/ 8 E	SA2/ 8 ZM		
		25	7,5	SA2/ 16 E	SA2/ 16 ZM		
		32	9,0	SA2/ 20 E	SA2/ 20 ZM		
		40	11,0	SA2/ 32 E	SA2/ 32 ZM		
1Ka-A1258							
Manipolatore ad impulso							
 F 329		10	2,2	SE/ 4 E	SE/ 4 ZM		
		25	5,5	SE/ 8 E	SE/ 8 ZM		
		25	7,5	SE/ 16 E	SE/ 16 ZM		
		32	9,0	SE/ 20 E	SE/ 20 ZM		
		40	11,0	SE/ 32 E	SE/ 32 ZM		
1Ka-A1102							
Manipolatore ad impulso							
 F 329		10	2,2	SE2/ 4 E	SE2/ 4 ZM		
		25	5,5	SE2/ 8 E	SE2/ 8 ZM		
		25	7,5	SE2/ 16 E	SE2/ 16 ZM		
		32	9,0	SE2/ 20 E	SE2/ 20 ZM		
		40	11,0	SE2/ 32 E	SE2/ 32 ZM		
1Ka-A1259							
Manipolatore ad impulso							
 F 330		10	2,2	SEA1/ 4 E	SEA1/ 4 ZM		
		25	5,5	SEA1/ 8 E	SEA1/ 8 ZM		
		25	7,5	SEA1/16 E	SEA1/16 ZM		
		32	9,0	SEA1/20 E	SEA1/20 ZM		
		40	11,0	SEA1/32 E	SEA1/32 ZM		
1Ka-A1103							
Manipolatore ad impulso							
 F 110		10	2,2	SEA2/ 4 E	SEA2/ 4 ZM		
		25	4,0	SEA2/ 8 E	SEA2/ 8 ZM		
		25	7,5	SEA2/16 E	SEA2/16 ZM		
		32	9,0	SEA2/20 E	SEA2/20 ZM		
		40	11,0	SEA2/32 E	SEA2/32 ZM		
2Ka-A1104							
Manipolatore ad impulso							
 F 108		10	2,2	SEA10/4 E	SEA10/4 ZM		
		25	5,5	SEA10/8 E	SEA10/8 ZM		
		25	7,5	SEA10/16 E	SEA10/16ZM		
		32	9,0	SEA10/20 E	SEA10/20ZM		
		40	11,0	SEA10/32 E	SEA10/32ZM		
1Ka-A1105							
Manipolatore ad impulso							
 F 312		10	2,2	SEA20/4 E	SEA20/4 ZM		
		25	5,5	SEA20/8 E	SEA20/8 ZM		
		25	7,5	SEA20/16 E	SEA20/16ZM		
		32	9,0	SEA20/20 E	SEA20/20ZM		
		40	11,0	SEA20/32 E	SEA20/32ZM		
1Ka-A1106							

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Apparecchiature elettriche

da fondo pannello V

tipo



da fondo pannello mostrina fissata sull'interr.

tipo



su guida DIN

tipo



in cassetta

tipo



SA2/ 11 V
SA2/ 16 V
SA2/ 20 V
SA2/ 32 V

SA2/ 11 VZ
SA2/ 16 VZ
SA2/ 20 VZ
SA2/ 32 VZ

SA2/ 8 T
SA2/ 16 T
SA2/ 20 T
SA2/ 32 T

SA2/ 11 PL
SA2/ 16 PL
SA2/ 20 PL
SA2/ 32 PL

SE/ 11 V
SE/ 16 V
SE/ 20 V
SE/ 32 V

SE/ 11 VZ
SE/ 16 VZ
SE/ 20 VZ
SE/ 32 VZ

SE/ 8 T
SE/ 16 T
SE/ 20 T
SE/ 32 T

SE/ 11 PL
SE/ 16 PL
SE/ 20 PL
SE/ 32 PL

SE2/ 11 V
SE2/ 16 V
SE2/ 20 V
SE2/ 32 V

SE2/ 11 VZ
SE2/ 16 VZ
SE2/ 20 VZ
SE2/ 32 VZ

SE2/ 8 T
SE2/ 16 T
SE2/ 20 T
SE2/ 32 T

SE2/ 11 PL
SE2/ 16 PL
SE2/ 20 PL
SE2/ 32 PL

SEA1/11 V
SEA1/16 V
SEA1/20 V
SEA1/32 V

SEA1/11 VZ
SEA1/11 VZ
SEA1/20 VZ
SEA1/32 VZ

SEA1/8 T
SEA1/16 T
SEA1/20 T
SEA1/32 T

SEA1/11 PL
SEA1/16 PL
SEA1/20 PL
SEA1/32 PL

SEA2/11 V
SEA2/16 V
SEA2/20 V
SEA2/32 V

SEA2/11 VZ
SEA2/16 VZ
SEA2/20 VZ
SEA2/32 VZ

SEA2/8 T
SEA2/16 T
SEA2/20 T
SEA2/32 T

SEA2/11 PL
SEA2/16 PL
SEA2/20 PL
SEA2/32 PL

SEA10/11 V
SEA10/16 V
SEA10/20 V
SEA10/32 V

SEA10/11 VZ
SEA10/16 VZ
SEA10/20 VZ
SEA10/32 VZ

SEA10/8 T
SEA10/16 T
SEA10/20 T
SEA10/32 T

SEA10/11 PL
SEA10/16 PL
SEA10/20 PL
SEA10/32 PL

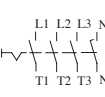
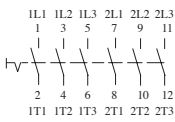
SEA20/11 V
SEA20/16 V
SEA20/20 V
SEA20/32 V

SEA20/11 VZ
SEA20/16 VZ
SEA20/20 VZ
SEA20/32 VZ

SEA20/8 T
SEA20/16 T
SEA20/20 T
SEA20/32 T

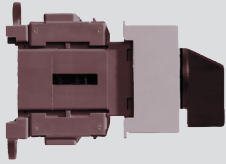
SEA20/11 PL
SEA20/16 PL
SEA20/20 PL
SEA20/32 PL

Sezionatori

schema di collegamento Connection-diagram	Corr. nom. termica I_{th} (in A) Thermal rated current I_{th} (in A)		Potenza nom. 3x400V (in kW) Rated perf. at 3x400V (in kW)		Potenza nom. 3x400V (in kW) Rated perf. at 3x400V (in kW)		retroquadro E / 4-Hole mounting		fissaggio centrale / Central mounting		da fondo pannello / Base mounting	
	AC3		AC23				Tipo Type		Tipo Type		Tipo Type	
3 poli / 3 pole 	25	7,5	9,5	E	NLT 16/ 3E/ Z33 HLT 16/ 3E/ Z33	16,11	ZM	NLT 16/ 3ZM/ Z33 HLT 16/ 3ZM/ Z33	18,10	V	NLT 16/ 3V/ Z33/ Z45 HLT 16/ 3V/ Z33/ Z45	25,24
	25	7,5	9,5		NLT 16/ 3E/ Z33 HLT 16/ 3E/ Z33	16,11		NLT 16/ 3ZM/ Z33 HLT 16/ 3ZM/ Z33	18,10		NLT 16/ 3V/ Z33/ Z45 HLT 16/ 3V/ Z33/ Z45	25,24
	32	9,5	11,5		NLT 32/ 3E/ Z33 HLT 32/ 3E/ Z33	20,42		NLT 32/ 3ZM/ Z33 HLT 32/ 3ZM/ Z33	22,56		NLT 32/ 3V/ Z33/ Z45 HLT 32/ 3V/ Z33/ Z45	27,96
	40	11,0	15,0		NLT 40/ 3E/ Z33 HLT 40/ 3E/ Z33	24,90		NLT 40/ 3ZM/ Z33 HLT 40/ 3ZM/ Z33	24,24		NLT 40/ 3V/ Z33/ Z45 HLT 40/ 3V/ Z33/ Z45	30,03
	63	18,5	22,5		NLT 63/ 3E/ Z33 HLT 63/ 3E/ Z33	32,76		NLT 63/ 3ZM/ Z33 HLT 63/ 3ZM/ Z33	33,60		NLT 63/ 3V/ Z33/ Z45 HLT 63/ 3V/ Z33/ Z45	42,17
	80	22,0	30,0		NLT 80/ 3E/ Z33 HLT 80/ 3E/ Z33	41,36		NLT 80/ 3ZM/ Z33 HLT 80/ 3ZM/ Z33	42,70		NLT 80/ 3V/ Z33/ Z45 HLT 80/ 3V/ Z33/ Z45	51,03
	100	30,0	37,0		NLT 100/ 3E/ Z33 HLT 100/ 3E/ Z33	57,47					NLT 100/ 3V/ Z33/ Z45 HLT 100/ 3V/ Z33/ Z45	68,30
	125	37,0	45,0		NLT 125/ 3E/ Z33 HLT 125/ 3E/ Z33	73,11					NLT 125/ 3V/ Z33/ Z45 HLT 125/ 3V/ Z33/ Z45	82,10
	180	75,0	90,5		NLT 180/ 3E/ Z33 HLT 180/ 3E/ Z33	175,71					NLT 180/ 3V/ Z33/ Z45 HLT 180/ 3V/ Z33/ Z45	189,02
	250	110,0	132,0		NLT 250/ 3E/ Z33 HLT 250/ 3E/ Z33	230,83					NLT 250/ 3V/ Z33/ Z45 HLT 250/ 3V/ Z33/ Z45	281,84
4 poli / 4 pole 	25	7,5	9,5	E	NLT 16/ 4E/ Z33 HLT 16/ 4E/ Z33	18,27	ZM	NLT 16/ 4ZM/ Z33 HLT 16/ 4ZM/ Z33	19,61	V	NLT 16/ 4V/ Z33/ Z45 HLT 16/ 4V/ Z33/ Z45	29,01
	25	7,5	9,5		NLT 16/ 4E/ Z33 HLT 16/ 4E/ Z33	18,27		NLT 16/ 4ZM/ Z33 HLT 16/ 4ZM/ Z33	19,61		NLT 16/ 4V/ Z33/ Z45 HLT 16/ 4V/ Z33/ Z45	29,01
	32	9,5	11,5		NLT 32/ 4E/ Z33 HLT 32/ 4E/ Z33	26,33		NLT 32/ 4ZM/ Z33 HLT 32/ 4ZM/ Z33	26,48		NLT 32/ 4V/ Z33/ Z45 HLT 32/ 4V/ Z33/ Z45	32,63
	40	11,0	15,0		NLT 40/ 4E/ Z33 HLT 40/ 4E/ Z33	30,62		NLT 40/ 4ZM/ Z33 HLT 40/ 4ZM/ Z33	31,00		NLT 40/ 4V/ Z33/ Z45 HLT 40/ 4V/ Z33/ Z45	35,16
	63	18,5	22,5		NLT 63/ 4E/ Z33 HLT 63/ 4E/ Z33	39,21		NLT 63/ 4ZM/ Z33 HLT 63/ 4ZM/ Z33	41,25		NLT 63/ 4V/ Z33/ Z45 HLT 63/ 4V/ Z33/ Z45	47,27
	80	22,0	30,0		NLT 80/ 4E/ Z33 HLT 80/ 4E/ Z33	48,77		NLT 80/ 4ZM/ Z33 HLT 80/ 4ZM/ Z33	50,50		NLT 80/ 4V/ Z33/ Z45 HLT 80/ 4V/ Z33/ Z45	56,40
	100	30,0	37,0		NLT 100/ 4E/ Z33 HLT 100/ 4E/ Z33	65,60					NLT 100/ 4V/ Z33/ Z45 HLT 100/ 4V/ Z33/ Z45	77,99
	125	37,0	45,0		NLT 125/ 4E/ Z33 HLT 125/ 4E/ Z33	81,17					NLT 125/ 4V/ Z33/ Z45 HLT 125/ 4V/ Z33/ Z45	91,23
	180	75,0	90,5		NLT 180/ 4E/ Z33 HLT 180/ 4E/ Z33	201,92					NLT 180/ 4V/ Z33/ Z45 HLT 180/ 4V/ Z33/ Z45	226,57
	250	110,0	132,0		NLT 250/ 4E/ Z33 HLT 250/ 4E/ Z33	282,88					NLT 250/ 4V/ Z33/ Z45 HLT 250/ 4V/ Z33/ Z45	303,27
6 poli / 6 pole 	25	7,5	9,5	E	NLT 16/ 6E/ Z33 HLT 16/ 6E/ Z33	32,24		HLT16/3VZM/Z33/71 HLT16/4VZM/Z33/71	18,81 25,04	V	NLT 16/ 6V/ Z33/ Z45 HLT 16/ 6V/ Z33/ Z45	42,59
	25	7,5	9,5		NLT 16/ 6E/ Z33 HLT 16/ 6E/ Z33	32,24		HLT16/3VZM/Z33/71 HLT16/4VZM/Z33/71	18,81 25,04		NLT 16/ 6V/ Z33/ Z45 HLT 16/ 6V/ Z33/ Z45	42,59
	32	9,5	11,5		NLT 32/ 6E/ Z33 HLT 32/ 6E/ Z33	43,94		HLT32/3VZM/Z33/71 HLT32/4VZM/Z33/71	25,79 30,38		NLT 32/ 6V/ Z33/ Z45 HLT 32/ 6V/ Z33/ Z45	57,88
	40	11,0	15,0		NLT 40/ 6E/ Z33 HLT 40/ 6E/ Z33	49,20		HLT40/3VZM/Z33/71 HLT40/4VZM/Z33/71	27,53 33,01		NLT 40/ 6V/ Z33/ Z45 HLT 40/ 6V/ Z33/ Z45	63,08
	63	18,5	22,5		NLT 63/ 6E/ Z33 HLT 63/ 6E/ Z33	61,78		HLT63/3VZM/Z33/71 HLT63/4VZM/Z33/71	37,60 42,44		NLT 63/ 6V/ Z33/ Z45 HLT 63/ 6V/ Z33/ Z45	75,72
	80	22,0	30,0		NLT 80/ 6E/ Z33 HLT 80/ 6E/ Z33	74,16		HLT80/3VZM/Z33/71 HLT80/4VZM/Z33/71	46,20 49,41		NLT 80/ 6V/ Z33/ Z45 HLT 80/ 6V/ Z33/ Z45	88,14
	100	30,0	37,0		NLT 100/ 6E/ Z33 HLT 100/ 6E/ Z33	133,85		HLT100/3VZM/Z33/71/D2 NLT100/4VZM/Z33/71/D2	60,70 69,29		NLT 100/ 6V/ Z33/ Z45 HLT 100/ 6V/ Z33/ Z45	154,86
	125	37,0	45,0		NLT 125/ 6E/ Z33 HLT 125/ 6E/ Z33	156,73		HLT125/3VZM/Z33/71/D2 NLT125/4VZM/Z33/71/D2	74,12 81,64		NLT 125/ 6V/ Z33/ Z45 HLT 125/ 6V/ Z33/ Z45	177,74
	180	75,0	90,5		NLT 180/ 6E/ Z33 HLT 180/ 6E/ Z33	413,92					NLT 180/ 6V/ Z33/ Z45 HLT 180/ 6V/ Z33/ Z45	431,71
	250	110,0	132,0		NLT 250/ 6E/ Z33 HLT 250/ 6E/ Z33	488,87					NLT 250/ 6V/ Z33/ Z45 HLT 250/ 6V/ Z33/ Z45	514,96

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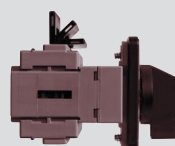
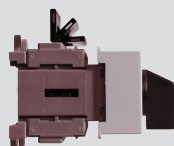
Apparecchiature elettriche

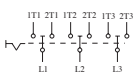
su guida DIN / DIN-Railmounting		Interruttore di sicurezza/ Maintenance switch	
			
Tipo Type	Prezzi(€) Price (€)	Tipo Type	Prezzi(€) Price (€)

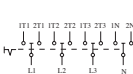
T	NLT 16/ 3T/ Z20	18,46	RLT 16/ 3PM-D1/ Z33	22,47
	HLT 16/ 3T/ Z20			
	NLT 16/ 3T/ Z20	18,46	RLT 16/ 3PM-D1/ Z33	22,47
	HLT 16/ 3T/ Z20			
	NLT 32/ 3T/ Z20	24,39	RLT 32/ 3PM-D1/ Z33	33,96
	HLT 32/ 3T/ Z20			
	NLT 40/ 3T/ Z20	28,97	RLT 40/ 3PM-D1/ Z33	41,60
	HLT 40/ 3T/ Z20			
	NLT 63/ 3T/ Z20	36,72	RLT 63/ 3PM-D2/ Z33	56,16
	HLT 63/ 3T/ Z20			
	NLT 80/ 3T/ Z20	48,42	RLT 80/ 3PM-D2/ Z33	70,62
	HLT 80/ 3T/ Z20			
	NLT 100/ 3T/ Z20	62,66	RLT 100/ 3PM-D3/ Z33	146,44
	HLT 100/ 3T/ Z20			
	NLT 125/ 3T/ Z20	80,03	RLT 125/ 3PM-D3/ Z33	163,86
	HLT 125/ 3T/ Z20			
			RLT 180/ 3K4/ Z33	499,57
			RLT 250/ 3K4/ Z33	617,76

T	NLT16/ 4T/ Z20	20,08	RLT 16/ 4PM-D1/ Z33	23,98
	HLT16/ 4T/ Z20			
	NLT16/ 4T/ Z20	20,08	RLT 16/ 4PM-D1/ Z33	23,98
	HLT16/ 4T/ Z20			
	NLT32/ 4T/ Z20	30,37	RLT 32/ 4PM-D1/ Z33	41,19
	HLT32/ 4T/ Z20			
	NLT40/ 4T/ Z20	35,83	RLT 40/ 4PM-D1/ Z33	48,83
	HLT40/ 4T/ Z20			
	NLT63/ 4T/ Z20	43,53	RLT 63/ 4PM-D2/ Z33	65,47
	HLT63/ 4T/ Z20			
	NLT80/ 4T/ Z20	56,37	RLT 80/ 4PM-D2/ Z33	79,98
	HLT80/ 4T/ Z20			
	NLT100/ 4T/ Z20	71,14	RLT 100/ 4PM-D3/ Z33	158,19
	HLT100/ 4T/ Z20			
	NLT125/ 4T/ Z20	90,54	RLT 125/ 4PM-D3/ Z33	175,66
	HLT125/ 4T/ Z20			
			RLT 180/ 4K4/ Z33	490,65
			RLT 250/ 4K4/ Z33	630,40

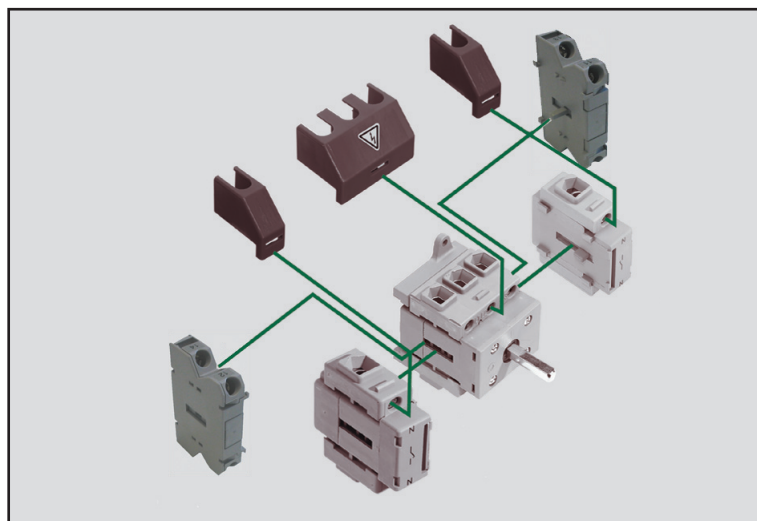
T	NLT16/ 6T/ Z20	23,56	RLT 16/ 6PM-D1/ Z33	27,30
	HLT16/ 6T/ Z20			
	NLT16/ 6T/ Z20	23,56	RLT 16/ 6PM-D1/ Z33	27,30
	HLT16/ 6T/ Z20			
	NLT32/ 6T/ Z20	53,46	RLT 32/ 6PM-D2/ Z33	54,76
	HLT32/ 6T/ Z20			
	NLT40/ 6T/ Z20	62,77	RLT 40/ 6PM-D2/ Z33	61,36
	HLT40/ 6T/ Z20			
	NLT63/ 6T/ Z20	82,22	RLT 63/ 6PM-D3/ Z33	110,14
	HLT63/ 6T/ Z20			
	NLT80/ 6T/ Z20	103,22	RLT 80/ 6PM-D3/ Z33	113,21
	HLT80/ 6T/ Z20			
	NLT100/ 6T/ Z20	144,98	RLT 100/ 6PM-D3/ Z33	218,56
	HLT100/ 6T/ Z20			
	NLT125/ 6T/ Z20	175,39	RLT 125/ 6PM-D3/ Z33	244,46
	HLT125/ 6T/ Z20			
			RLT 180/ 6K4/ Z33	880,80
			RLT 250/ 6K4/ Z33	945,20

Schema di collegamento Connection-diagram		AC3	AC23	retroquadro E/ 4-Hole mounting		su guida DIN/ DIN-Railmounting			
	Corr. nom. termica I_{tp} (in A) Thermal rated current I_{tp} (in A)								
	Potenza nom. 3x400V (in kW) Rated perf. at 3x400V (in kW)								
	Potenza nom. 3x400V (in kW) Rated perf. at 3x400V (in kW)								
					Tipo Type	Prezzi(€) Price (€)		Tipo Type	Prezzi(€) Price (€)

3 poli / 3 pole 	25	7,5	9,5	E	ULT 25/ 3E	40,98	T	ULT 25/ 3T	45,30
	32	9,5	11,5		ULT 32/ 3E	46,40		ULT 32/ 3T	50,60
	40	11,0	15,0		ULT 40/ 3E	56,68		ULT 40/ 3T	60,95
	63	18,5	22,5		ULT 63/ 3E	75,61		ULT 63/ 3T	80,40
	80	22,0	30,0		ULT 80/ 3E	75,61		ULT 80/ 3T	80,40
	100	30,0	37,0		ULT 100/ 3E	139,99		ULT 100/ 3T	143,16
	125	37,0	45,0		ULT 125/ 3E	169,78		ULT 125/ 3T	173,48

4 poli / 4 pole 	25	7,5	9,5	E	ULT 25/ 4E	48,26	T	ULT 25/ 4T	52,52
	32	9,5	11,5		ULT 32/ 4E	54,55		ULT 32/ 4T	58,82
	40	11,0	15,0		ULT 40/ 4E	63,91		ULT 40/ 4T	71,24
	63	18,5	22,5		ULT 63/ 4E	84,97		ULT 63/ 4T	89,96
	80	22,0	30,0		ULT 80/ 4E	106,03		ULT 80/ 4T	110,76
	100	30,0	37,0		ULT 100/ 4E	163,91		ULT 100/ 4T	167,76
	125	37,0	45,0		ULT 125/ 4E	193,65		ULT 125/ 4T	197,71

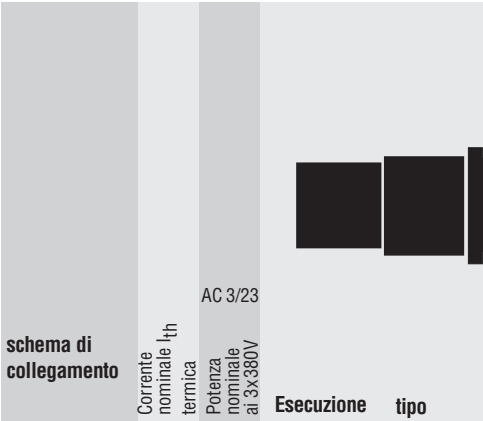
Contatti principali ed ausiliari / Additional- and Auxiliary contacts

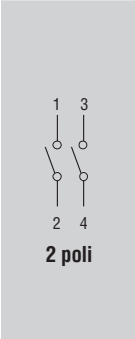


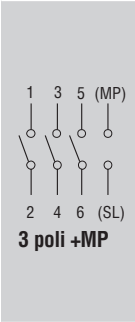
Contatti ausiliari da retroquadro E/ Add. contacts	Tipo Switch size	esecuzione E + ZM Constr. form E + ZM	esecuzione V + T Constr. form V + T
Terra (neutro anticipato) / Neutral Pole (early make) 	.LT16, 16A, 25A	NVG 16AE 6,97	NVG 16AV 6,97
	.LT 32-40	NVG 40E 6,97	NVG 40V 6,97
	.LT 63-80	NVG 80E 8,95	NVG 80V 8,95
	.LT 100-125	NVG 125E 11,29	NVG 125V 11,29
	.LT 180-250	NVG 250E 36,40	NVG 250V 36,40
Terra (neutro contemporaneo) / Neutral Pole (simultaneous make) 	.LT16, 16A, 25A	NGG 16AE 6,97	NGG 20AV 6,97
	.LT 32-40	NGG 40E 6,97	NGG 40V 6,97
	.LT 63-80	NGG 80E 8,95	NGG 80V 8,60
	.LT 100-125	NGG 125E 11,29	NGG 125V 11,29
	.LT 180-250	NGG 250E 36,40	NGG 250V 36,40
Terra (terra senza interruzione) / Neutral Pole (solid neutral) 	.LT16, 16A, 25A	N / PE 16AE 3,59	N / PE 20AV 3,59
	.LT 32-40	N / PE 40E 3,75	N / PE 40V 3,75
	.LT 63-80	N / PE 80E 5,88	N / PE 80V 5,88
	.LT 100-125	N / PE 125E 6,87	N / PE 125V 6,87
	.LT 180-250	N / PE 250E 17,58	N / PE 250V 17,58
Contatti ausiliari (1S + IÖ) / Aux. contacts (1NO + 1NC)			
	.LT 16-125	HE11 6,50	HV11 6,50
	.LT 180-250	HE11/ 250 17,58	HV11/ 250 17,58

Interruttori principali - di sicurezza

principali=H, di sicurezza =N con bobina di sgancio

	schema di collegamento		AC 3/23		Esecuzione		tipo							
	Corrente nominale I _{th}		Potenza nominale ai 3x380V											
	termica													

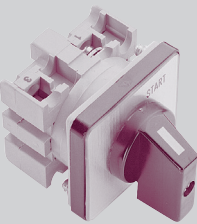
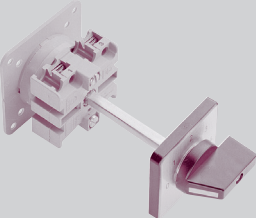
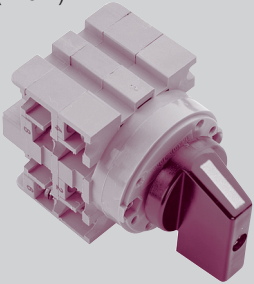
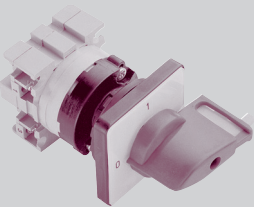
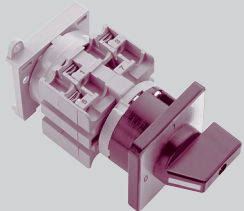
	25A		5 kW		E con blocco lucchettabile Z33		HF2/220V/Z33		NF2/220V/Z33					

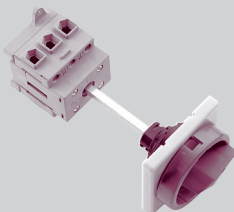
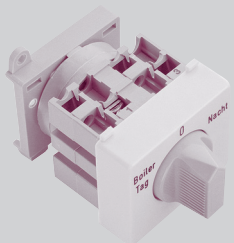
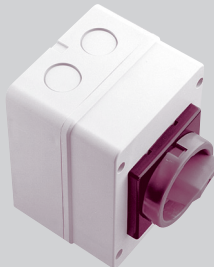
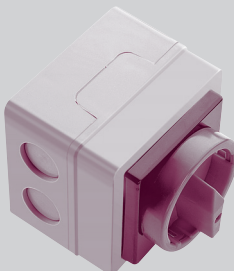
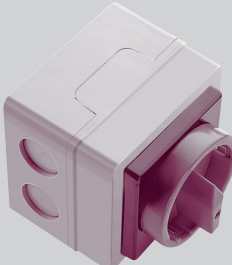
	25A		7,5 kW		E con blocco lucchettabile Z33		HLT25/ 3 EU/Z33		NLT25/ 3 EU/Z33					
	32A		9,0 kW				HLT32/3 EU/Z33		NLT32/3 EU/Z33					
	63A		15,0 kW				HLT63/3EU/Z33		NLT63/3EU/Z33					
	80A		18,0 kW				HT80/3EU/Z33		NLT80/3EU/Z33					

Gli interruttori con bobina di sgancio sono disponibili con bobina															
230/-400V.															
A richiesta con 110V - 24V.															

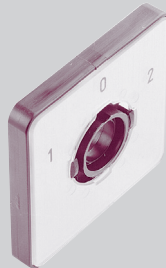
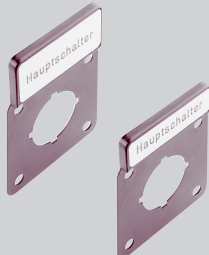
Esecuzioni

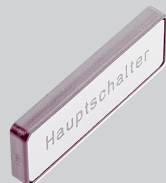
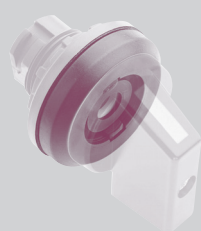
SONTHEIMER Apparecchiature elettriche

Interruttori a camme	tipo	Gruppo				
		D00	D0	D1	D2	D3
da retroquadro..... E		●	●	●	●	●
		protezione anteriore: IP 44				
da fondo pannello V			●	●	●	●
		protezione anteriore IP 44				
fissaggio frontale (2 fori) S		●	●	●		
		anche con mostrina calibro D1				
fissaggio centrale foro 22mm ZM		●	●	●		
		protezione anteriore: IP 65				
su guida DIN con montaggio rapido, VZ			●	●	●	●
		anche con mostrina calibro D1				

Interruttori a camme		tipo	Gruppo						
			D00	D0	D1	D2	D3		
da fondo pannello fissaggio centrale, foro 22 mm		VZM	protezione		●	●			
					anteriore: IP 65				
su guida DIN.....		T	protezione		●	●			
					anteriore: IP 44				
cassetta termoindurente		PM	grandezza cassetta	D1	D2				
		calibro interrut- tore		8/11/12/ 16/20/32	8/11/12/ 16/20/32	40	55	63	80
			1			-	-	-	
			2				-		
			3						
			4			-			
			5						
		protezione		anteriore: IP 54					
cassetta termoplast		PLM	grandezza cassetta	D0	D1	D2			
		calibro interrut- tore		12	8/11/12/16/20/32	40	63		
			1				-		
			2						
			3						
			4			-			
			5				-		
		protezione		anteriore: IP 54					
cassetta termoplast		K3/K4		a richiesta per commutatori 180/250A					
									

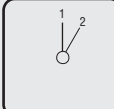
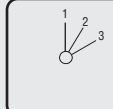
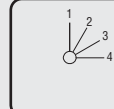
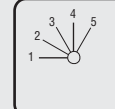
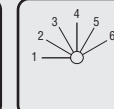
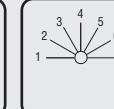
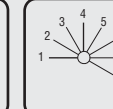
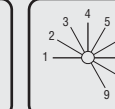
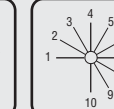
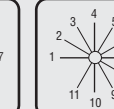
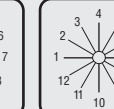
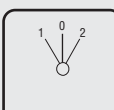
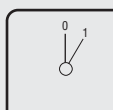
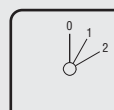
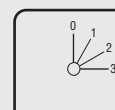
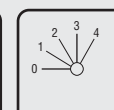
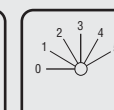
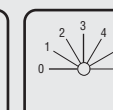
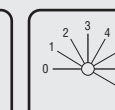
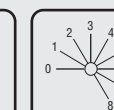
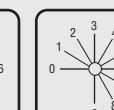
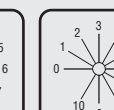
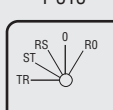
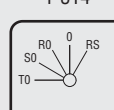
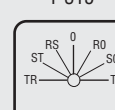
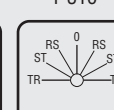
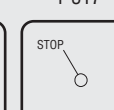
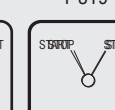
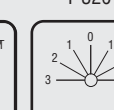
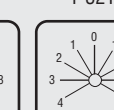
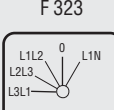
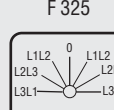
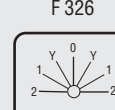
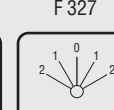
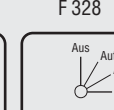
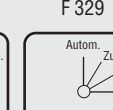
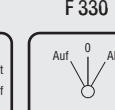
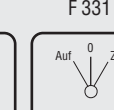
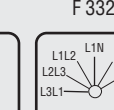
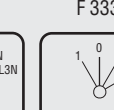
Mostrine

Mostrine	tipo	Gruppo				
		D00	D0	D1	D2	D3
in plastica, quadrataX 70			nero alu. giallo	nero alu. giallo	nero alu. giallo	nero
mostrina supplementare rettangolare.....X 72			alu.	alu.	alu.	
incisione						
mascherina frontaleX 74			bianco	bianco		

mostrine	tipo	Gruppo				
		D00	D0	D1	D2	D3
in plastica rettangolare.....X 71			nero alu. giallo	nero alu. giallo		
mostrina supplementareX 72/S0				alu.	alu.	
ghiera frontale.....X 99			nero	nero		

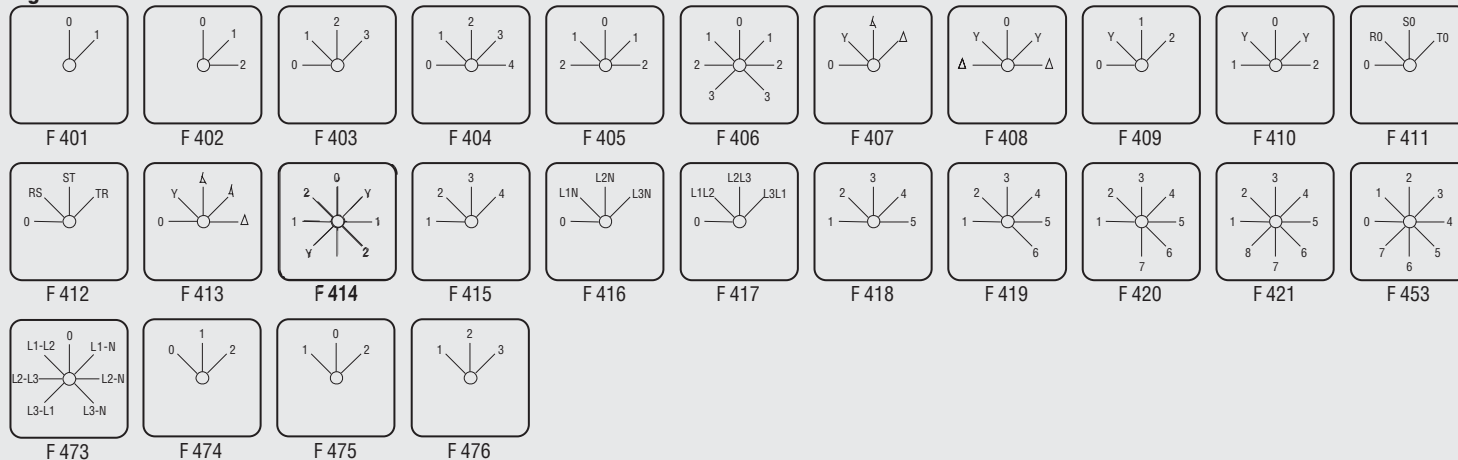
Lista delle diciture standard inerenti le mostrine quadrate

Angolo di commutazione 30°

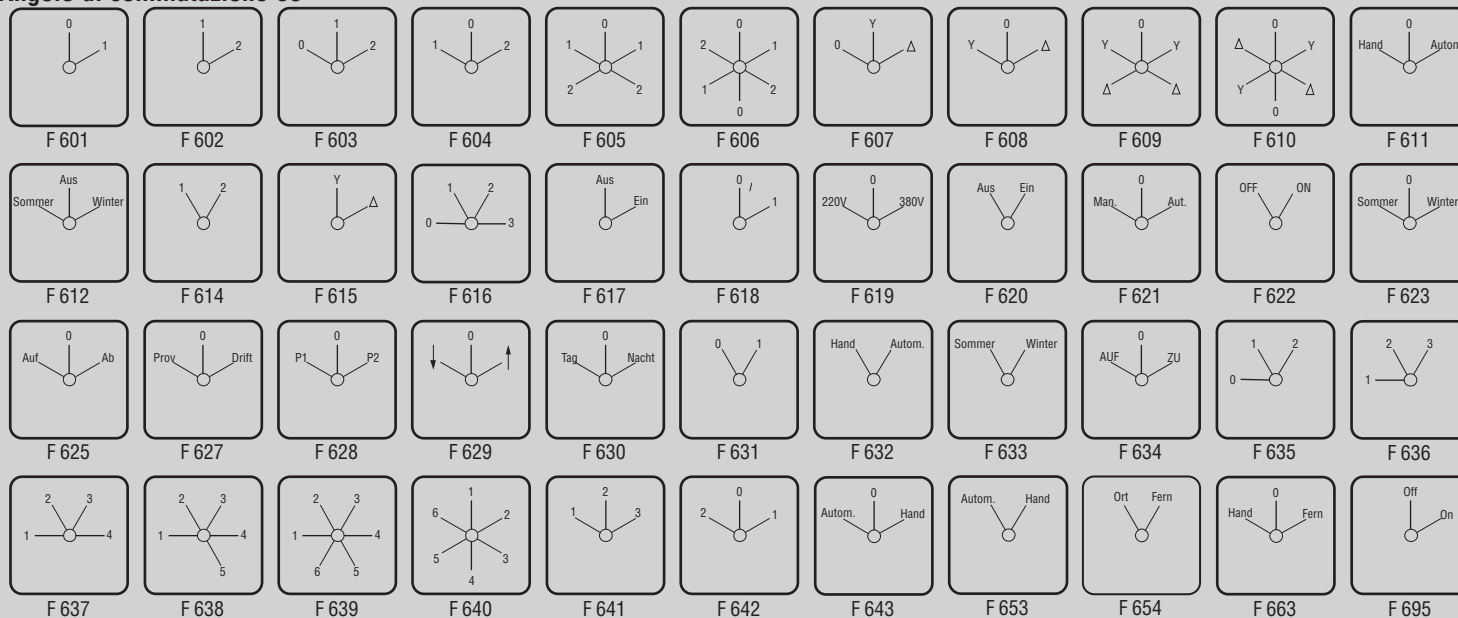
										
F 301	F 302	F 303	F 304	F 305	F 306	F 307	F 308	F 309	F 310	F 311
										
F 312	F 313	F 314	F 315	F 316	F 317	F 318	F 319	F 320	F 321	F 322
										
F 323	F 324	F 325	F 326	F 327	F 328	F 329	F 330	F 331	F 332	F 333
										
F 334	F 335	F 336	F 337	F 338	F 340	F 341	F 342	F 351	F 354	F 375

Lista delle diciture standard inerenti le mostrine quadrate

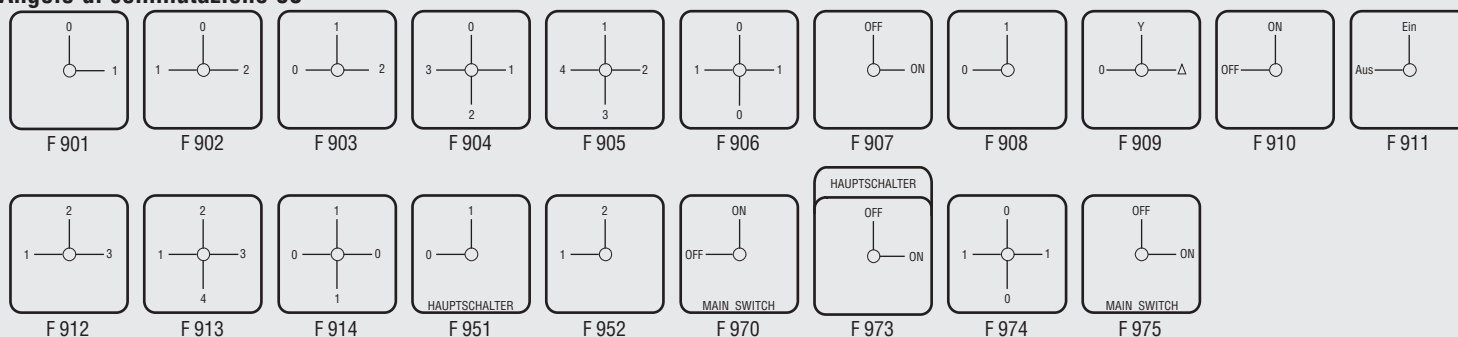
Angolo di commutazione 45°



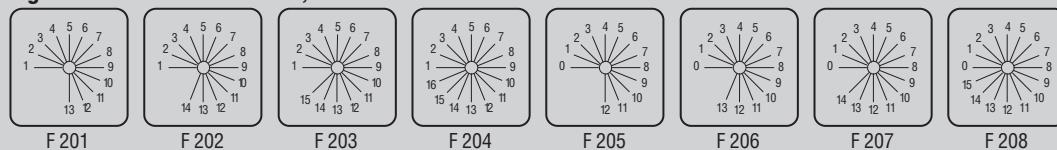
Angolo di commutazione 60°



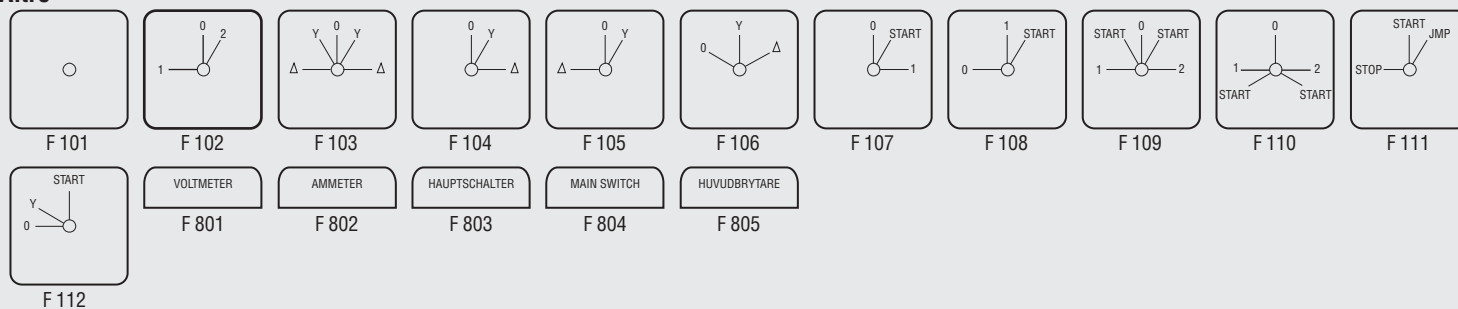
Angolo di commutazione 90°



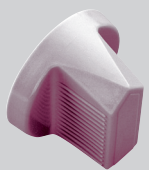
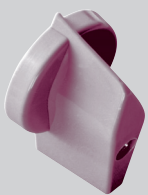
Angolo di commutazione 22,5°

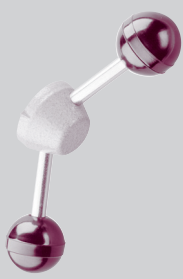


Altre



Azionatori

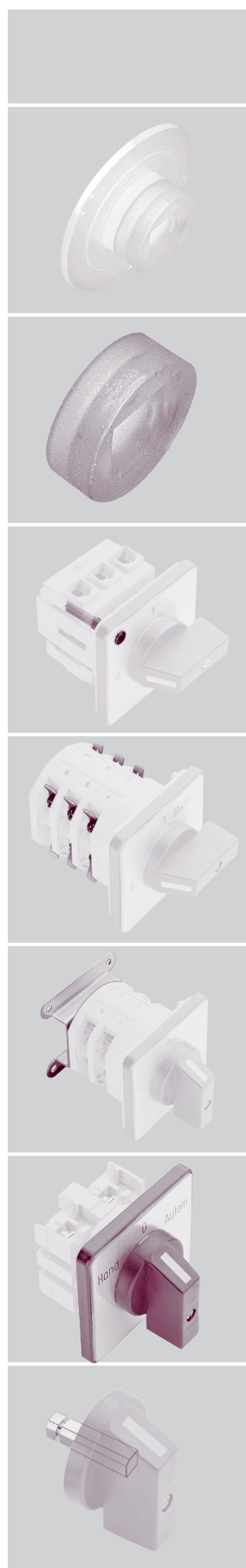
	tipo	Gruppo				
		D00	D0	D1	D2	D3
azionatore a freccia B			grigio nero rosso bianco	grigio nero rosso bianco		
azionatore a farfalla F		nero rosso	grigio nero rosso bianco	grigio nero rosso bianco	grigio nero rosso bianco	
azionatore a maniglia N		nero rosso	grigio nero rosso bianco	grigio nero rosso bianco		
azionatore a manopola K			grigio nero rosso bianco	grigio nero rosso bianco		
azionatore in materiale isolante..... I			grigio nero rosso			

	tipo	Gruppo				
		D00	D0	D1	D2	D3
leva a pistola H				grigio nero rosso	grigio nero rosso	
leva a pomolo..... M				nero rosso	nero rosso	nero rosso
leva senza pomolo..... R				grigio nero rosso	grigio nero rosso	
doppia leva a pomolo... D				nero rosso	nero rosso	

Esecuzioni speciali

SONTHEIMER Apparecchiature elettriche

Le qui seguenti esecuzioni speciali completano ed ampliano la possibilità d'impiego degli interruttori a camme. Alcuni di questi possono essere equipaggiati con due o più accessori.



Protezione in gomma per l'albero di comando
contro l'infiltrazione di polvere ed umidità lungo l'albero di comando. Viene raggiunta una protezione anteriore **IP65**

Protezione in feltro per albero di comando
simile a Z1, ma raggiunge una protezione IP54.

Spia incorporata
Viene incorporata a sinistra in alto sulla mostrina.
Lampadina a 220V di colore rosso, verde, bianco o giallo.

Attacchi faston
Per collegamento di cavi con attacchi faston a DIN 46247; (6,3 X 0,8mm). Viene equipaggiato solo per calibro 6/8/12 e 16.

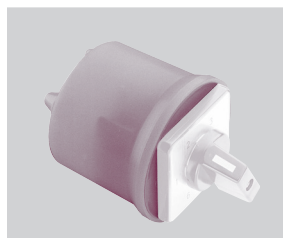
Piastra di fissaggio in metallo
Viene fissata posteriormente sui tiranti dell'interruttore per trasformare lo stesso da esecuzione da retroquadro E in esecuzione da fondo V.

Mostrina ed azionatore del calibro superiore
per equipaggiare l'apparecchio con mostrina ed azionatore del calibro superiore.
Le dimensioni del fissaggio rimangono invariate.

Azionatore intercambiabile
L'azionatore è applicabile sull'albero di comando in una sola determinata posizione.

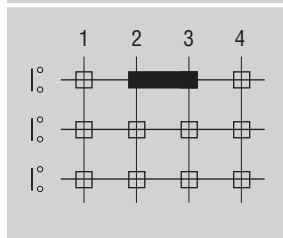
tipo			Gruppo				
			D00	D0	D1	D2	D3
Z1	esecuzione			E,V,S, PL PLM	E,V,S, PL PLM	E,V,S, PL PLM	
Z3	esecuzione			E,V,S, PL PLM	E,V,S, PL PLM	E,V,S, PL PLM	E,V
			11,65				
Z5	esecuzione			E,V,ZM, PLM PM VZ, VZM	E,V,S, PLM PM VZ, VZM	E,V,S, PLM PM	E,V
Z6	esecuzione		E,ZM	E,V,S, ZM,T, VZ,VZM	E,V,S, ZM,T, VZ,VZM		
Z7	esecuzione			E,V	E,V	E,V	E,V
Z8	esecuzione			E,V,S, ZM	E,V,S	E,V,S	
Z9	esecuzione		E,ZM	tutti	tutti		

Esecuzioni speciali



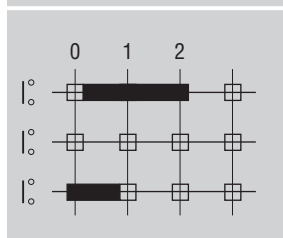
Calotta in termoplast

Si tratta di termoplast trasparente per proteggere l'apparecchio contro le correnti accidentali, polvere ed umidità. Viene raggiunta posteriormente un protezione IP 42.



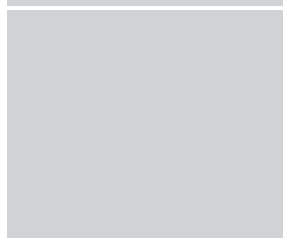
Commutazione senza interruzione

Uno o più contatti possono essere attivati senza interruzione.



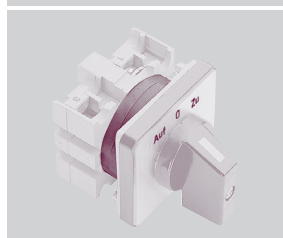
Contatti aux. per il comando di teleruttori

Si può commutare relais.



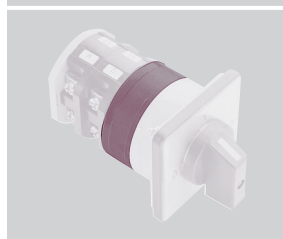
Contatti di blocco e sblocco

di teleruttori, per la commutazione senza corrente.



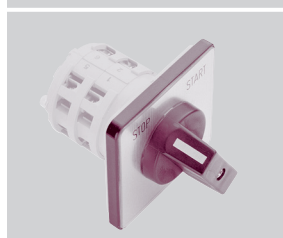
Battuta d'arresto rinforzata

Prevista per servizi gravosi o per apparecchi con azionatori tipo H-J-M.



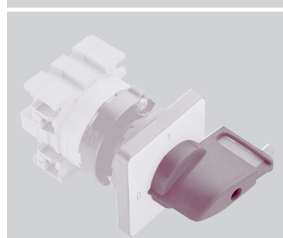
Cella di scatto supplementare

E' necessaria per apparecchi oltre 12 celle o per manovre forzate, in modo da ottenere una perfetta chiusura ed apertura dei contatti nella parte posteriore del commutatore.



Piastra di fissaggio

Per equipaggiare il commutatore con mostrina ed azionatore del calibro superiore.



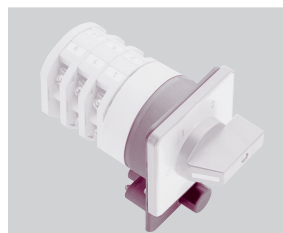
Azionatore lucchettabile

Per interruttori principali a norme VDE 01133 e IEC 204 lucchettabili al massimo con due lucchetti con alberino previsto da 6 mm.

tipo		Gruppo				
		D00	D0	D1	D2	D3
Z10	esecuzione		E,	E,	E	
			lunghezza suppl. v.pag 77			
Z11	esecuzione	tutti	tutti	tutti	tutti	tutti
Z14	esecuzione	tutti	tutti	tutti	tutti	tutti
		Lungh. suppl.: ca 18mm.				
Z15	esecuzione	tutti	tutti	tutti	tutti	tutti
		Lungh. suppl.: ca 18mm.				
Z16	esecuzione		tutti	tutti	tutti	tutti
			Lungh. suppl.: ca 2mm.			
Z18	esecuzione	E,ZM	E,V,S, ZM	E,V,S,	E,V,S,	E,V
		12mm	Lungh. suppl.:ca 12mm	20mm	23mm	33mm
Z19	esecuzione		E,V	E,V	E,V	
Z20	esecuzione		tutti			

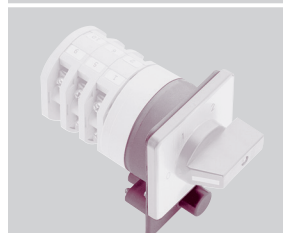
Esecuzioni speciali

SONTHEIMER Apparecchiature elettriche



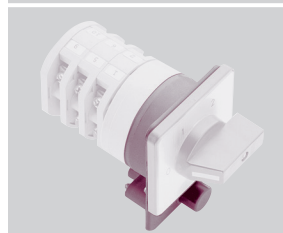
Blocco meccanico mediante pulsante

Per bloccare una o più posizioni di manovra. Per disinserrire il blocco si deve azionare il pulsante rosso incorporato nella piastra di fissaggio.



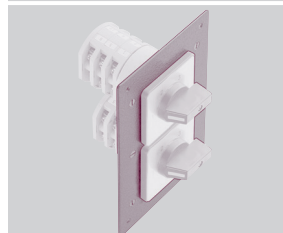
Sblocco meccanico mediante pulsante

Premendo il pulsante rosso sotto l'azionatore, l'apparecchio ritorna automaticamente alla posizione precedente.



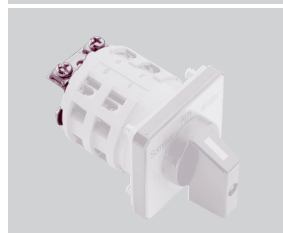
Blocco elettrico e meccanico con pulsante incorporato nella piastra frontale

Come Z21, ma con contatti aux. incorporati da 6A/380V. (1 NC ed 1 NA oppure 2NC o 2NA). In questo modo al momento dell'avv. del pulsante si ha uno sblocco non solo meccanico, ma vengono anche a chiudersi o ad aprirsi i circuiti aux., prima dell'ulteriore azionamento dell'apparecchio.



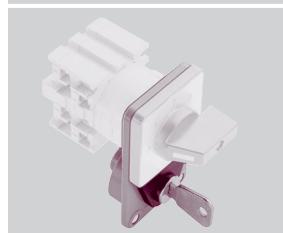
Blocco meccanico senza interruzione.

Due commutatori fissati su un'unica piastra possono essere azionati indipendentemente e bloccati fra di loro in posizioni prestabilite.



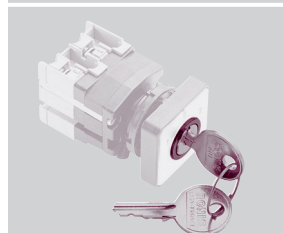
Morsetto di terra

Si tratta di un morsetto ad angolo, fissato posteriormente ai tiranti dell'apparecchio.



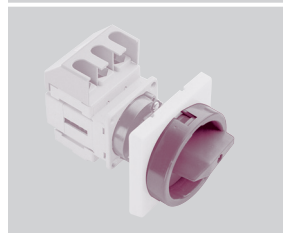
Blocco a serratura

Sotto l'azionatore è montata una serratura a cilindro. Possono essere bloccate tutte o solo prestabilite posizioni. (vengono fornite due chiavi).



Commutazione a serratura

In questo caso l'azionamento dell'apparecchio viene effettuato solo tramite una chiave montata nella serratura a cilindro. (vengono fornite due chiavi)

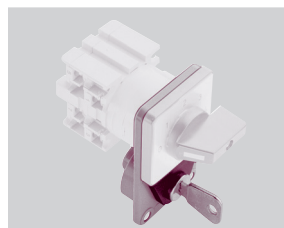


Blocco lucchettabile

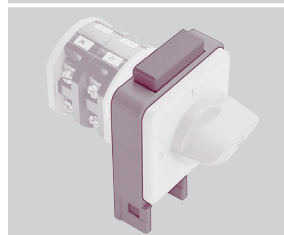
Per lucchettare interruttori principali a norme VDE e IEC fino a 3 lucchetti. Per un blocco sicuro sono necessari lucchetti di spessore 6/8 mm.

tipo		Gruppo				
		D00	D0	D1	D2	D3
Z21	esecuzione			E,V,PM		
		Lungh. suppl.: ca 15mm Max. profondità 10 celle				
Z22	esecuzione			E,V,PM		
		Lungh. suppl.: ca 15mm Max. profondità 10 celle				
Z23	esecuzione			E,V,PM		
		Lungh. suppl.: ca 15mm Max. profondità 10 celle				
Z26	esecuzione			E,V	E,V	E,V
		Lungh. suppl.: ca 20mm				
Z30	esecuzione		E,V,S, ZM	E,V,S, ZM	E,V,S, 13mm	
		Lungh. suppl.: 11mm 11mm				
Z31	esecuzione		E,V	E,V	E,V	E,V
	BKS					
	SF					
Z32	E/BKS Z/BKS ZM/SF ZM/K ZM/R					
Z33	esecuzione			E,V,S, PM VZ, VZM	E,V,PLM PM	E,V

Esecuzioni speciali



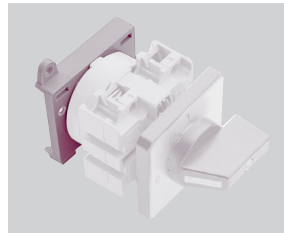
Apparecchi con chiave per arresto d'emergenza
come Z31, ma con la possibilità di effettuare una manovra d'emergenza nonostante la serratura sia bloccata e la chiave sia estratta. L'avviamento è appena possibile portando la chiave in pos. 0.



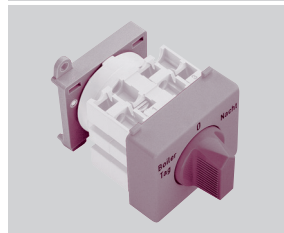
Blocco mediante lucchetti indipendenti.
Per lucchettare interruttori principali a norme VDE o IEC tramite 3 lucchetti. Sono necessari lucchetti con spessore minimo 6 mm. per il gruppo D1 e 8 mm per il gruppo D2/D3. Per gli interruttori principali l'azionatore è di colore grigio o nero con mostrina nera. Gli interruttori d'emergenza hanno la manopola rossa e mostrina gialla.



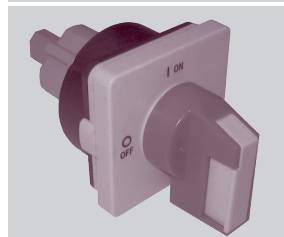
Morsetto neutro
Solo per esecuzione in cassetta PL o PLKZM.



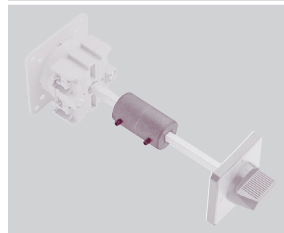
Montaggio su guida DIN
In questo modo gli apparecchi possono essere montati su su barra unificata (largh. 35mm) a norme DIN 46277/3. Il commutatore può essere ruotato di 90° per cambiare la posizione dell'allacciamento dei morsetti.



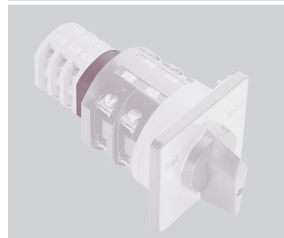
Montaggio su guida con mascherina modulare
E' necessaria l'esecuzione da fondo su guida unificata ed anteriormente anziché la mostrina viene fornita una mascherina X74 modulare. (largh. 3 unità a DIN 43880).



Blocco lucchettabile con blocco porta
Lucchettabile con Z35, completo di accoppiamento per sportelli mobili con blocco. Il quadro può essere aperto solo su posizione 0, mentre su pos. 1 può essere aperto solo con un cacciavite o con un utensile adeguato.



Prolunga albero di comando
Viene applicato sull'alberino di interruttori già installati, mediante il fissaggio di una vite.

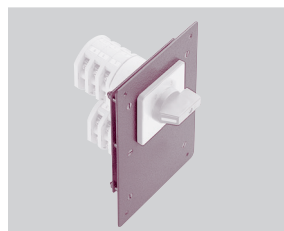


Accoppiamento assiale
Celle di calibro inferiore possono essere accoppiate a calibri superiori e manovrate tramite un unico azionatore.

tipo		Gruppo				
		D00	D0	D1	D2	D3
Z34	esecuzione		E,V,	E,V,PLM		
Z35	esecuzione			E,V,PLM PM	E,V,PLM PM	E,V
Z36	esecuzione		PL,	PLM PM	PLM PM	
Z37	esecuzione		V,VZ VZM	V,VZ VZM		
Z38	esecuzione		T	T		
Z39	esecuzione		V	V		
Z40	esecuzione		V	V	V	
Z41	esecuzione				E	E
					Lungh. suppl.: 15mm	Lungh. suppl.: 15mm

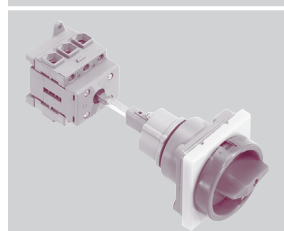
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Apparecchiature elettriche



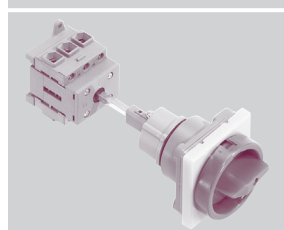
Accoppiamento ad ingranaggi per 2 commutatori

Due commutatori o commutatori con eccessiva profondità possono essere montati su un'unica piastra e comandati mediante rinvio ad ingranaggi, tramite un solo azionatore.



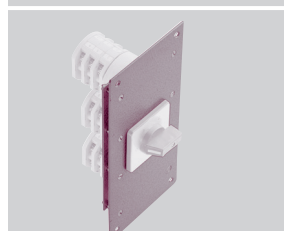
Accoppiamento per sportelli

Accoppiamento per sportelli mobili senza blocco auto-centrante (diff. di 10 mm in tutte le direzioni). Viene usato per quadri con eccessiva profondità.



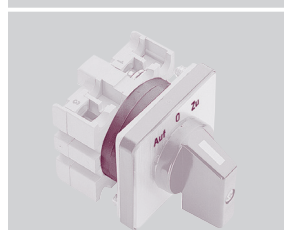
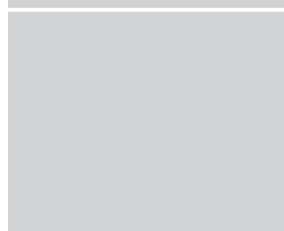
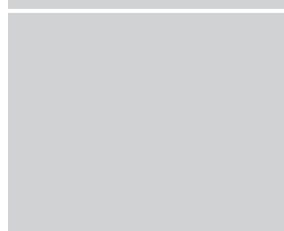
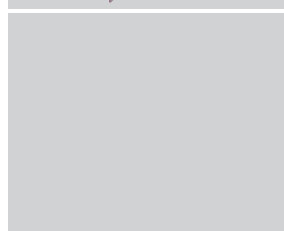
Accoppiamento per sportelli mobili con blocco

E' possibile aprire lo sportello del quadro solo in posizione di 0.



Accoppiamento ad ingranaggi per 3 apparecchi

Come Z42 ma per 3 interruttori.



Commutazione circolare

Commutatori a 4, 6, 8 o 16 posizioni sono anche fornibili senza battuta d'arresto, quindi con manovra circolare.

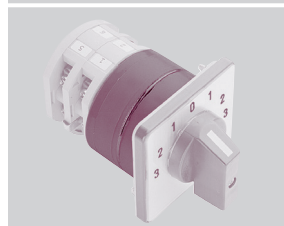
tipo		Gruppo				
		D00	D0	D1	D2	D3
Z42	esecuzione			E,V	E,V	E,V
		Lungh. suppl. v. dimensioni pag. 77				
	,90					
Z44	esecuzione			V		
		Lungh. suppl. v. dimensioni				
Z45	esecuzione			V		
		Lungh. suppl. v. dimensioni				
Z46	esecuzione			E,V	E,V	E,V
		Lungh. suppl. v. dimensioni				
Z48	esecuzione					
		fuori produzione				
Z49	esecuzione					
		fuori produzione				
Z50	esecuzione					
		fuori produzione				
Z51	esecuzione	tutti	tutti	tutti	tutti	tutti

Esecuzioni speciali



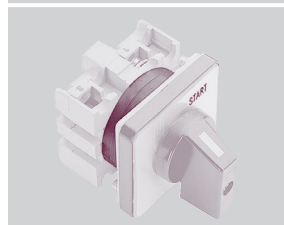
Blocco delle commutazioni di ritorno

Questo impedisce di commutare apparecchi in senso antiorario. Blocca in ogni posizione o solo anche in prestabilite.



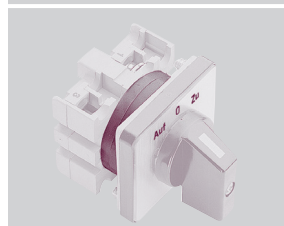
Ritorno automatico su più posizioni

Realizzabile sino a 3 posizioni a dx e a sx, tramite molle interne. Dalla posizione centrale angolo max. di commutazione 2 x 90°.



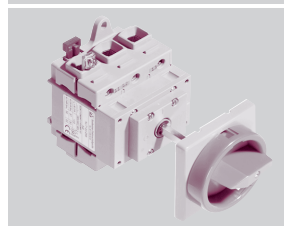
Ritorno unilaterale.

L'angolo di commutazione è di 30°, realizzabile con un max. di 4 contatti per ogni posizione di ritorno.



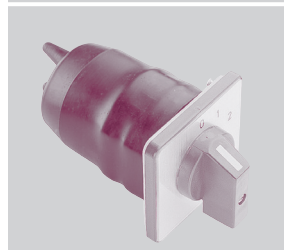
Ritorno bilaterale

L'angolo di commutazione è di 2x30°.



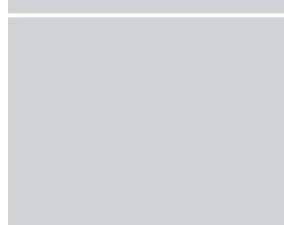
Morsetto supplementare per corrente ausiliaria

Alla corrente principale del commutatore può essere aggiunto un cavo per una corrente ausiliaria fino a 4mm².



Calotta in gomma

Per la protezione dei interruttori contro le correnti accidentali, della polvere e dell'umidità. Si raggiunge posteriormente un protezione IP42.



Protezione per morsetti dei sezionatori

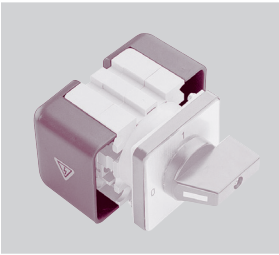
Protezione per i morsetti dei sezionatori a norme VDE 0113 e IEC 204. (fissaggio a pressione)



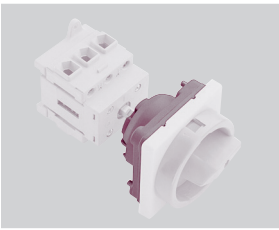
tipo		Gruppo				
		D00	D0	D1	D2	D3
Z52	esecuzione			E,V,S, PM, PLM	E,V,S, PM, PLM	
			Lungh. suppl.: ca 8mm			
Z53	esecuzioni			E,V,S, PM, PLM		
			Lungh. suppl.: ca. 20mm max. profondità 3 celle			
Z54	esecuzione	E,ZM	tutti	tutti	E,V,S, PLM, PM	tutti
					max.profondità fino 4 celle	
Z55	esecuzioni	E,ZM	tutti	tutti	E,V,S, PLM, PM	tutti
					max.profondità fino 4 celle	
Z58	esecuzione		solo per	LT100 e LT125		
Z59	esecuzione		E,S	E,S	E,S	
					max.profondità fino 4 celle	
	Gr.2 Gr.4 H2 H3					
Z60	esecuzione		fuori produzione			
	Gr.1 Gr.2					
Z62	esecuzione		HLT 25- HLT 40 NLT 25- NLT 40	HLT 63- HLT 80 NLT 63- NLT 80	HLT 100- HLT 125 NLT 100- NLT 125	HLT 180 HLT 250 NLT 180 NLT 250

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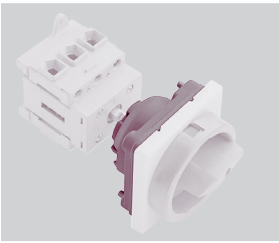
Apparecchiature elettriche



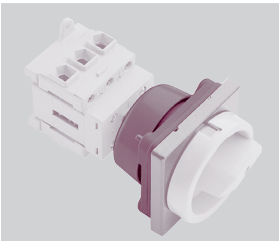
Protezione per morsetti d'entrata
Protezione contro i contatti accidentali sui morsetti di allacciamento per interruttori a norme VDE 0113 e IEC 204. (fissaggio a vite)



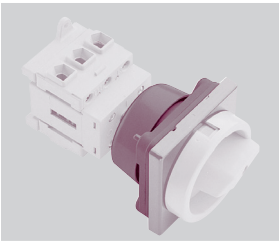
Accoppiamento per sportello mobile senza blocco
Funzionalità come Z44, non autocentrante.



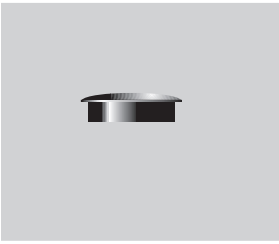
Accoppiamento per sportelli mobili con blocco
Funzionalità come Z45.



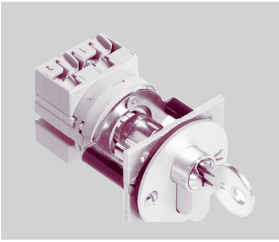
Accoppiamento per sportelli mobili senza blocco su pos.0
Simile a Z64, ma da attivare a sportello aperto. solo con attrezzi.



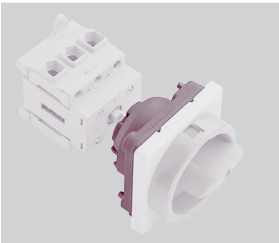
Accoppiamento per sportelli mobili con blocco
Simile a Z66, ma con blocco. A sportello aperto è possibile manovrare l'apparecchio con l'attrezzatura specifica.



Protezione per viti-inerenti azionatori
Le viti degli azionatori a farfalla e a manopola possono essere coperti per eliminare le infiltrazioni di polvere o altro.



Protezione per viti-inerenti azionatori
Le viti degli azionatori a farfalla e a manopola possono essere coperti per eliminare le infiltrazioni di polvere o altro.



Accoppiamento per sportelli mobili con blocco con fissaggio foro 22mm
Funzionalità come Z45.

tipo		Gruppo				
		D00	D0	D1	D2	D3
Z63	esecuzione		E,V,S, ZM	E,V,S, ZM	E,V,S,	E,V
			Lungh. suppl. v.dimensioni			
Z64	esecuzione			V	V	V
			Lungh. suppl. v.dimensioni			
Z65	esecuzione			V	V	V
			Lungh. suppl. v.dimensioni			
Z66	esecuzione			V	V	V
			Lungh. suppl. v.dimensioni			
Z67	esecuzione			V	V	V
			Lungh. suppl. v.dimensioni			
Z69	esecuzione		V	V	V	
			Lungh. suppl. v.dimensioni			
Z70	esecuzione		tutti	tutti		
Z71	esecuzione	V	V	V	V	
		Lungh. suppl. v.dimensioni				

Accessori

	sigla	D00 4	D0 8/11/12	D1 16-40	D2 63-126	D3 125-250/400-1600
Mostrina in plastica quadrata	X70					
Mostrina in plastica rettangolare	X71					
Mostrina + supporto	X72					
Mostrina + supporto per Z33	X72/S0					
Mascherina modulare	X74					
Anello in feltro per azionatori	X75					
Mostrina + supporto	X79					
Chiave per ZM	X80					
Chiavi per cilindro SF	X95/SF					
Chiavi per cilindro BKS	X95/BKS					
Chiavi per cilindro KabaMicro	X95/K					
Chiavi per cilindro Ronis	X95/R					
Ghiera per fissaggio centrale	X99					

Morsetti ad angolo	Gruppo	D0	D1				D2				D3						
	Calibro	12	16	20	32	40	55	63	63S0	100	126	125	250	400	800	1200	1600

	sigla	D00 4	D0 8/11/12	D1 16-40	D2 63-126	D3 125-250/400-1600
Azionatore lucchettabile con mostrina X70	Z20					
Azionatore lucchettabile senza mostrina X70	Z20					

Accessori

	sigla-	D00 4	D0 8/11/12	D1 16-40	D2 63-126	D3 125-250/400-1600
Numerazione speciale per contatti	X82					
Lunghezza speciale alberino	X83					
Angolo di commutazione speciale	X84					
Contatti dorati per cella	X92					
Posizioni del commutatore non standard	X96					
Incisione speciale su mostrine, stampata - minimo per 25 pz.	X73					
Incisione mostrina per lettera o numero	X85					

Dati tecnici per commutatori a camme

			Gruppo	D00	D0				D1				D2				D3	
Corrente alternata			Calibro	4	8	11	12	16	20	32	40	50	63	100	126	250		
Tensione nominale	U _e	VDE/IEC	V	500	690	690	690	690	690	690	690	690	690	690	690	690		
	U _e	CSA	V	300	600	600	600	600	600	600	600	600	600	600	600	600		
	U _e	SEV	V	380	500	500	500	500	500	500	500	500	500	500	500	500		
Potere di interruzione a norme VDE che soddisfano fino a				V	250	380	380	380	380	380	380	500	500	660	660	660		
Corrente nominale termica	I _{th}	VDE/IEC	A	10	25	25	20	25	32	45	63	70	100	125	200	315		
	I _{th}	CSA	A	10	16	16	16	16	20	32	40	50	63	100	126	200		
Carico max. ammissibile		I _a	VDE/IEC	A	10	25	25	20	25	45	40	63	70	100	125	130	215	
Corrente d'interruzione ed inserimento																		
CSA 600 V/cos φ = 0,45				A		36	36	36	61	100	114	133	175	215	280	385	770	
Resistenza corto circuito				valore max fusibile	A	10	25	25	20	25	32	40	63	80	100	125	125	315
valore di picco				kA		16	16	16	16	20	32	40	50	63	100	125	200	
Portata di breve durata				3 sec	A		100	100	100	160	200	360	400	500	630	1000	1250	2000
				10 sec	A		60	60	60	100	121	200	210	275	350	500	690	1100
				30 sec	A		32	32	32	50	65	120	130	160	200	320	490	640
				60 sec	A		30	30	25	40	50	80	90	115	150	230	290	460
Sezione di raccordo				uno o più filare	max. mm ²	1,5	4,0	4,0	2,5	6,0	6,0	6,0	10,0	10,0	16,0	35,0	70,0	-
				multifilare	max. mm ²	1,5	4,0	4,0	2,5	4,0	4,0	4,0	6,0	6,0	10,0	16,0	35,0	150
				morsetto ad angolo uni o più filare	max. mm ²									25,0	35,0	70,0	185	
Bulloni di raccordo		sulla cella(a croce ed a taglio)	M		2,5x5	3,5x6	3,5x6	3,5x6	4x7	4x7	4x8	5x10	5x10	6x14	2x5x10		-	
-		morsetto ad angolo	M		3,5x6	3,5x6	3,5x6	4x7	4x7	4x8	5x10	5x10	6x14	8x16*	8x16*	10x20*		
Corrente d'esercizio nominale I _e (in A)																		
AC1 SEV, debolmente induttivo				380 V	10	25	25	20	25	32	45	63	70	100	125	130	315	
AC21 VDE/IEC carico omico con poco sovraccarico					10	25	25	20	45	32	40	63	70	100	125	130	315	
AC11 VDE/IEC, comandi ad azionamento magnetico, contattori, elettromagneti				220V-240 V	2,5	5,5	5,5	5,5	7,5	14	15							
				380V-440 V		3,5	3,5	3,5	4,5	5,5	6,0							
				500 V		4,5	4,5	4,5	5,5	7,5	7,0							
AC22 VDE/IEC, carico omico misto e carico induttivo				220V-500 V	10,0	20,5	20,5	20,5	25,0	32,0	40,0	63,0	70,0	100,0	125,0	130,0	315,0	
				660V-690 V		20,5	20,5	20,5	25,0	32,0	40,0	63,0	70,0	100,0	120,0	125,0	125,0	
Ampere-Rating CSA: carico non o poco induttivo						16	16	16	16	20	32	40	50	63	100	125	200	
Carico restistenza CEE						10	10	10	16	25	32	40	50	63				
Carico motore CEE						6	6	6	9	9	9	9	10	10				
Corrente continua				Calibro	4	8	11	12	16	20	32	40	50	63	100	126	250	
Capacità di manovra per corrente cont.																		
DC1 circuito elettrico omico T≤1 ms	contatti in serie (max corrente ammissibile V)	1	2	3	A													
		24	48	72	A	10	10	10	16	20	32	40	50	63	100	125	125	250
		40	80	120	A	6	10	10	10	16	20	20	40	50	63	100	125	250
		60	120	180	A	2,5	3	3	3	4,2	5,5	5,0	9	10	11	15	17	23
		110	220	330	A	0,7	0,8	0,8	0,8	1	1,3	1,0	1,9	2	2,2	2,5		
	corrente des. nominale I _e	220	440	660	A	0,3	0,32	0,32	0,32	0,37	0,4	0,6	0,52	0,53	0,55			
		440	660				0,22	0,22	0,22	0,22	0,25	0,25						
		1	2	3	A													
		24	48	72	A	6	10	10	10	16	20	32	40	50	63	100	125	250
		30	60	90	A	3	4,5	4,5	4,5	5	7,5	11	14	16	18	25	28	36
DC1 circuito elettrico induttivo T≤50 ms	contatti in serie (max corrente ammissibile V)	40	80	120	A	1	1,7	1,7	1,7	2	2,80	4	5	5,5	6	7	7,8	8,5
		60	120	180	A	0,7	0,7	0,7	0,7	0,8	1	1,5	1,6	1,7	1,8	2	2,2	
		110	220	330	A	0,3	0,3	0,3	0,3	0,3	0,35	0,6	0,5	0,55	0,6			
* vite esaagonale DIN 558																		

* vite esagonale DIN 558

[illegible]

Dati tecnici per sezionatori HLT/HLT

Gruppo/Calibro

			D0		D1				D2			
			LT 20	LT 16/25	LT 32	LT 40	LT 63	LT 80	LT100	LT125	LT180	LT250
*Corr. nominale termica a norme VDE 0660, parte 107	I_{the} aperto	A	20	25	32	40	63	80	100	125	180	250
	I_{the} in cassetta	A	20	25	32	40	50	63	80	100	150	200
	Sezione di raccordo uni o più filare	mm²	4	16	16	16	35	35	50	50	135	135
	multifilare con capicorda puntale	mm²	2,5	10	10	10	16	16	35	35	120	120
Potenza motore AC3	Condizioni di sezionatura a norme VDE/IEC fino a	V	400	690	690	690	690	690	690	690	690	690
	3 x 220V - 240V	kW	2,5	4,0	5,5	7,5	11,0	15,0	18,5	22,0	45,0	55,0
	3 x 380V - 400V	kW	5,5	7,5	9,5	11,0	18,5	22,0	30,0	37,0	75,0	110,0
	3 x 660V - 690V	kW	-	7,5	9,5	11,0	15,0	18,5	22,0	30,0	45,0	55,0
Potenza motore AC23	3 x 220V - 240V	kW	3,0	5,0	6,0	7,5	11,0	15,0	18,5	22,0	55,0	75,0
	3 x 380V - 400V	kW	7,5	9,5	11,5	15,0	22,0	30,0	37,0	45,0	90,0	132,0
	3 x 660V - 690V	kW	5,5	9,5	11,5	15,0	18,5	22,0	30,0	37,0	55,0	75,0
Potere di interruzione	3 x 220V - 240V	A	160	180	220	300	380	560	700	960	1200	1800
	3 x 380V - 400V	A	160	180	220	300	380	560	700	880	1100	1650
	3 x 660V - 690V	A	100	125	135	150	190	200	280	320	360	400
Valore max. fusibile	gl- caratteristica	A	25	35	35	50	63	80	100	125	200	250
Valori UL/CSA in Hp	3 X 240V	kW		7,5	10	10	15	20	30	33	40	50
	3 X 480V	kW		10	20	20	40	45	60	67	75	100
	3 X 600V	kW		15	20	20	50	60	75	85	50	60

			R12	R16	R20	R32	R40	R55	R63	R100	R126	R250	R400
*Corrente nominale termica a norme VDE 0660, parte 107	I_{the} in cassetta	A	10	16	20	32	40	55	63	100	126	250	480
	carico max ammissibile a norme VDE 0660, parte 1	A	10	16	20	32	40	55	63	100	126	250	480
Sezione di raccordo	uno o più filare	mm²	2,5	4,0	4,0	6,0	10,0	16,0	16	35	50	185	-
	multifilare con capicorda a puntale	mm²	2,5	2,5	2,5	4,0	6,0	10,0	10,0	16,0	35,0	150,0	-
Caratteristiche interruttore	Condiz. di sezionatura che soddisfano VDE fino a	V	400	400	400	400	500	500	690	690	690	690	690
Potenza motore AC3	3 x 220V -240V	kW	2,2	4,4	5,5	6,6	10,0	12,0	15,0	22,0	30,0	47,0	47,0
	3 x 380V - 400V	kW	4,0	7,5	9,0	11,0	15,0	19,0	22,0	27,0	40,0	64,0	64,0
	3 x 660V - 690V	kW	4,0	11,5	12,5	15,0	17,0	23,0	28,0	37,0	55,0	88,0	88,0
Potenza motore AC23	3 x 220V -240V	kW	3,0	4,5	5,5	7,5	11,0	15,0	19,0	27,0	34,0	40,0	40,0
	3 x 380V - 400V	kW	4,8	9,0	11,0	15,0	22,0	27,0	32,0	45,0	75,0	90,0	90,0
	3 x 660V - 690V	kW	-	-	-	-	-	-	22,0	32,0	36,0	45,0	45,0
Valore max. fusibile	gl- caratteristica	A	20	25	32	40	63	80	100	125	200	315	480

La scelta corretta per interruttori principali e d'emergenza

Le normative VDE 0113, parte 1/2 in specifico EN 60204, Parte 1, distinguono per quanto riguarda la scelta dell'interruttore principale, il termine sezionatore sotto carico e sezionatore.

Il **sezionatore sotto carico** é da considerarsi in categoria AC23. IL sezionatore deve essere equipaggiato con un contatto aux. che interrompe il carico tramite un teleruttore. La scelta del sezionatore viene fatta secondo la corrente nominale termica. Il contatto aux. deve presentare le caratteristiche di commutazione in AC11.

Per la scelta dell' interruttore d'emergenza **e interruttore principale con funzione d'emergenza** é da considerare il potere d'interruzione. Deve corrispondere alla corrente del motore più potente in stato frenante sommato alle altre utenze. Inoltre la somma delle correnti nominali di tutte le utenze non deve superare la corrente nominale termica dell'interruttore.

Approvazioni

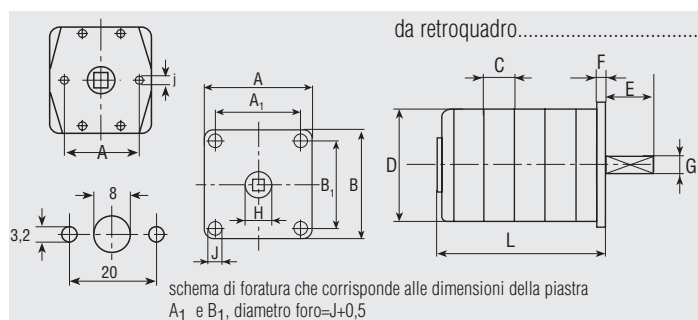
Tutti gli interruttori nella loro esecuzione standard sono approvati dalle seguenti norme internazionali:

Stato	Ente di approvazione	Simbolo	No. Approvazione	
Australia	State Electricity Commision		SEC	Cs 77,073V
Germania	Verband Deutscher Elektrotechniker	VDE 0660	VDE	
Danimarca	Danmarks Elektriske Materielkontrol		DEMKO	53 134-9
Finlandia	Sähkötarkastuslaitos			61/1008-17
Olanda	N. v. tot Keuring van Electrot. Materialen		KEMA	97.2182.02
Italia	Registro Italiano Navale		RINA	5/001/90-5/010/90
Canada	Association		CSA C 22.2.14	LR 19 188
Norvegia	Norges Elektriske Materielkontroll		NEMKO	E-5430
Svezia	Svenska Elektriska Materielkontrollanst.		SEMKO	9621173-01
Svizzera	Schweizer Elektro-technischer Verein		SEV	D9, 11/20 TG2
	Empfehlung der International Electrical Commission (IEC)		IEC 408 IEC 947	
	Germanischer Lloyd			14742-99HH
	Lloyd's Register of Shipping			00/2 0002
USA	Underwriters Laboratories			E171806

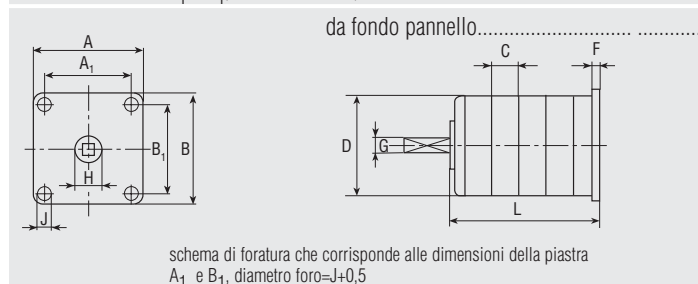
Dimensioni d'ingombro per esecuz. E, V, S, ZM

tipo

per gruppi , misure in mm



Calibro	D00		D0		D1		D2		D3	
	4	8	11/12	16	20	32	40	50	63	100
A	20	48	48	61	61	61	61	85	85	85
B		48	48	61	61	61	61	85	85	85
A ₁		36	36	48	48	48	48	68	68	68
B ₁		36	36	48	48	48	48	68	68	68
C	12	12	12	13	13	13	18	18	22	36
D	27x28	39x41	41x46	56≥	56≥	56≥	56≥	81≥	81≥	81≥
E	12	20	20	20	20	20	20	28	28	28
E ₁		23	23	46	46	46	55	62	70	62
F		3	3	3	3	3	3	3	3	3
G	4	6	6	6	6	6	6	8	8	8
H	7≥	10≥	10≥	10≥	10≥	10≥	10≥	13≥	13≥	13≥
J	2,2	4,2	4,2	4,5	4,5	4,5	4,5	5,5	5,5	5,5
1	33	34	34	40	40	40	47	53	62	71
2	45	46	46	53	53	53	65	71	84	107
3	57	58	58	67	67	67	83	89	106	143
4	69	70	70	80	80	80	100	107	128	179
5	81	82	82	93	93	93	118	125	150	215
6	93	94	94	105	105	105	136	143	172	261
7	105	106	106	118	118	118	154	161	194	267
8	117	118	118	131	131	131	172	179	216	323
9		130	130	144	144	144	190	197	238	359
L per no. celle	10	142	142	157	157	157	208	215	260	397



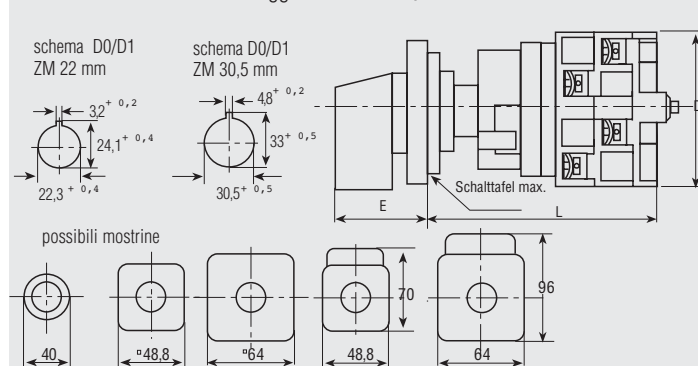
fissaggio frontale.....

calibro	D0		D1		D2		D3	
	8	11	12	16	20	32	40	
A				40	40	40	40	
B				15	15	15	15	
C	12	12	12	13	13	13	13	
D	39x41	41x46	43≥	56≥	56≥	56≥	56≥	
E	23	23	13	23	23	23	23	
G	6	6	6	6	6	6	6	
H	10≥	10≥	10≥	10≥	10≥	10≥	10≥	
J	B3,5	B3,5	B3,5	B3,5	B3,5	B3,5	B3,5	
1	31	31	31	47	47	47	54	
2	43	43	43	60	60	60	72	
3	55	55	55	74,0	74	74	90	
4	67	67	67	87	87	87	107	
5	79	79	79	100	100	100	125	
6	91	91	91	112	112	112	143	
7	103	103	103	125	125	125	161	
8	115	115	115	138	138	138	189	
9	127	127	127	151	151	151	197	
F	139	139	139	164	164	164	215	

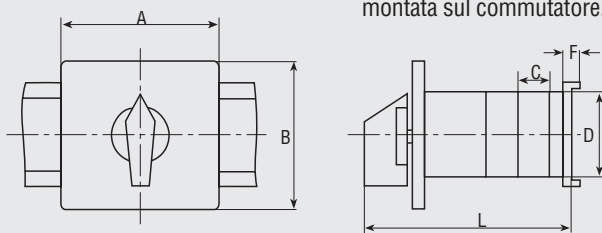
fissaggio centrale D00.....

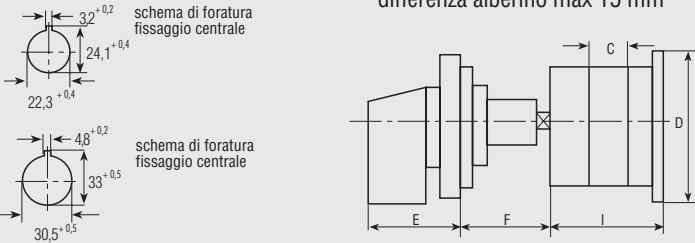
calibro	D00		D0		D1		D2	
	4	8	11	12	16	20	32	40
C	12	12	12	12	13	13	13	18
D	27x28	39x41	41x46	43≥	56≥	56≥	56≥	56≥
E	25	31	31	31	34	34	34	34
1	50	58	58	58	60	60	60	67
2	62	70	70	70	73	73	73	84
3	74	82	82	82	86	86	86	101
4	86	94	94	94	99	99	99	119
5	95	106	106	106	112	112	112	136
6	110	118	118	118	125	125	125	154
7	122	130	130	130	138	138	138	172
8	134	142	142	142	151	151	151	189
9		155	155	155	164	164	164	206
10		167	167	167	177	177	177	225

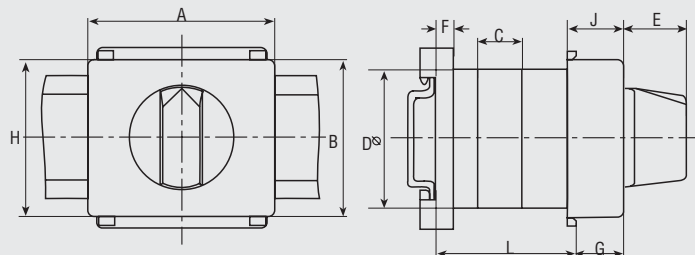
fissaggio centrale D0/D1.....



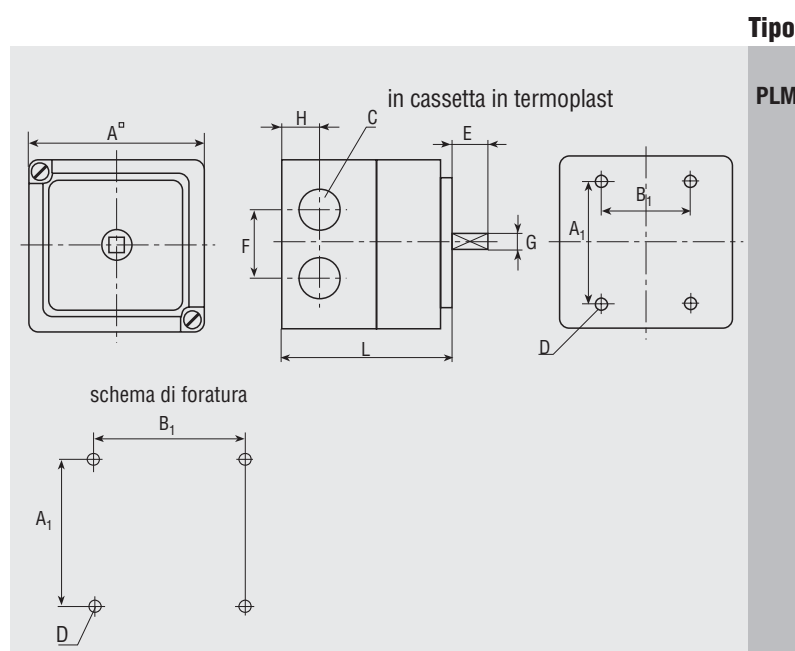
Dimensioni d'ingombro VZ, ZM, T

		Tipo		gruppo							
				D0			D1				
				calibro	8	11	12	16	20	32	40
 montaggio rapido, piastra frontale montata sul commutatore..... fornibile anche con piastra da fondo con 4 fori di fissaggio	VZ	L per no. elementi	misure in mm	A	48	48	48	64	64	64	64
				C	12	12	12	13	13	13	18
				D	39x41	41x46	43∅	56∅	56∅	56∅	56∅
				F	5	5	5	5	5	5	5
				1	92	92	83	82	82	82	87
				2	104	104	95	95	95	95	105
				3	116	116	107	108	108	108	123
				4	128	128	119	121	121	121	141
				5	140	140	131	134	134	134	160
				6	153	153	144	147	147	147	178
7	165	165	156	160	160	160	196				
8	177	177	168	173	173	173	214				

		Tipo		gruppo							
				D0			D1				
				calibro	8	11	12	16	20	32	40
 da fondo pannello..... differenza alberino max 15 mm schema di foratura fissaggio centrale 32^{+0,2} 24,1^{+0,4} 22,3^{+0,4} schema di foratura fissaggio centrale 48^{+0,2} 33^{+0,5} 30,5^{+0,5} schema di foratura possibili mostrine A, B, d+0,5, 40, 48,8, 64, 70, 96 Il minimo d'ingombro L viene così calcolato: L=I+F Fornibile anche su guida DIN	VZM	L per no. elementi	misure in mm	A	48	48	36	48	48	48	48
				C	12	12	12	13	13	13	18
				D	39x41	43x46	43∅	56∅	56∅	56∅	56∅
				*E	28	28	28	28	28	28	28
				F	24	24	24	24	24	24	24
				d	4,2	4,2	4,2	4,5	4,5	4,5	4,5
				1	34	34	34	40	40	40	47
				2	46	46	46	53	53	53	65
				3	58	58	58	67	67	67	89
				4	70	70	70	80	80	80	100
5	82	82	82	93	93	93	118				
6	94	94	94	105	105	105	136				
7	106	106	106	118	118	118	154				
8	118	118	118	131	131	131	172				
9	130	130	130	144	144	144	190				
10	142	142	142	157	157	157	208				

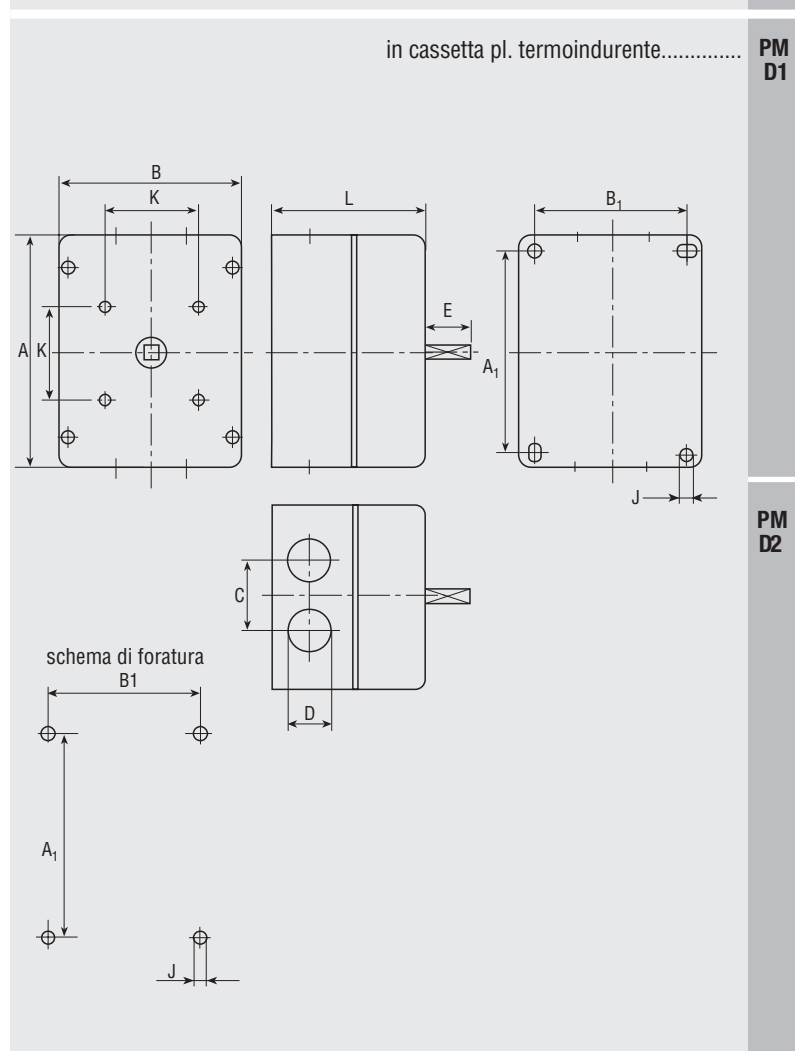
		Tipo		gruppo							
				D0			D1				
				calibro	8	11	12	16	20	32	40
 montaggio su guida DIN.....	T	L per no. elementi	misure in mm	A	52,5	52,5	52,5	52,5	52,5	52,5	52,5
				B	45	45	45	45	45	45	45
				C	12	12	12	13	13	13	18
				D	39x41	41x46	43∅	56∅	56∅	56∅	56∅
				E	17	17	17	17	17	17	17
				F	5	5	5	5	5	5	5
				G	13,5	13,5	13,5	13,5	13,5	13,5	13,5
				H	35	35	35	35	35	35	35
				J	16	16	16	16	16	16	16
				1	46	46	46	46	46	46	46
2	46	46	46	46	46	46	46				
3	56	56	56	56	56	56	56				

Dimensioni d'ingombro PLM, PM Apparecchiature elettriche



gruppo

	D0			D1				D2	
calibro	8	11	12	16	20	32	40	50	63
A	85	85	62	85	85	85	125	125	125
A ₁	72	72	72	72	72	72	111	111	111
B	58	58	36	58	58	58	94	94	94
B ₁	Pg16	Pg16	5-12	Pg16	Pg16	Pg16	Pg21	Pg29	Pg29
C	4,5	4,5	4,1	4,5	4,5	4,5	5,5	5,5	5,5
D	12	12	11	12	12	12	20	20	20
E	34	34	34	34	34	34	53	53	53
F	6	6	6	6	6	6	6	8	8
G	21	21	15	21	21	21	29	29	29
H	53	53	46	53	53	53	110	110	110
1	70	70	46	56	70	70	110	110	110
2	82	82	56	68	82	82	110	110	148
3	97	97	46	97	97	97	148	148	
4							148	148	
5									



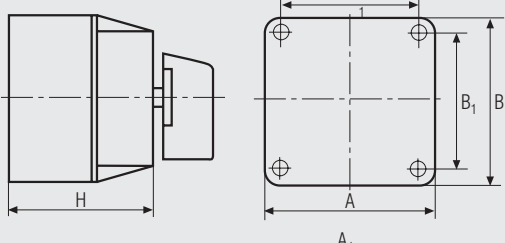
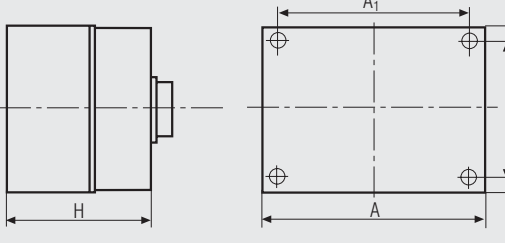
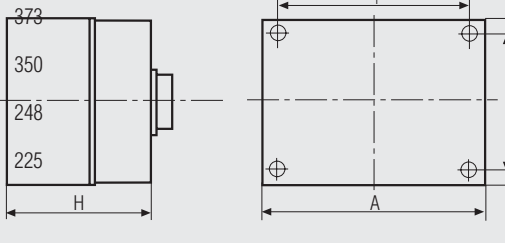
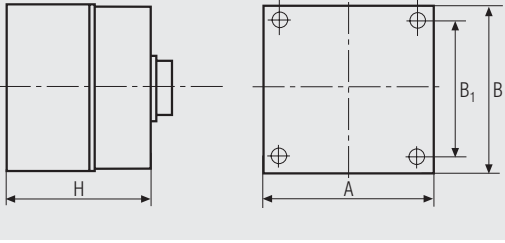
	D0			D1			
calibro	8	11	12	16	20	32	40
A	125	125	125	125	125	125	125
A ₁	110	110	110	110	110	110	110
B	94	94	94	94	94	94	94
B ₁	80	80	80	80	80	80	80
C	37,5	37,5	110	37,5	37,5	37,5	37,5
D	4xPg16	4xPg16	4xPg16	4xPg16	4xPg16	4xPg16	4xPg16
J	4,4	4,4	4,4	4,4	4,4	4,4	4,4
K	48	48	48	48	48	48	48
1	82	82	82	82	82	82	82
2	82	82	82	82	82	82	82
3	82	82	82	82	82	82	82
4	82	82	82	82	82	82	82

PM

D2

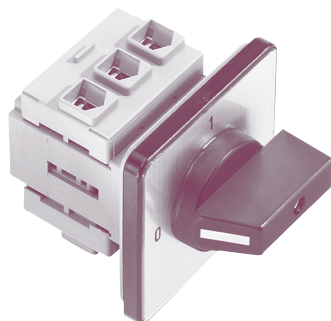
	D0			D1				D2	
	8	11	12	16	20	32	40	55	63
A	160	160	160	160	160	160	160	160	160
A ₁	146	146	146	146	146	146	146	146	146
B	134	134	134	134	134	134	134	134	134
B ₁	120	120	120	120	120	120	120	120	120
C	59,4	59,4	59,4	59,4	59,4	59,4	59,4	59,4	59,4
D	4xPg 21/29			4xPg 21/29				4xPg	
J	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
K	48	48	48	48	48	48	48	48	48
1	104	104	104	104	104	104	104	104	104
2	104	104	104	104	104	104	104	104	104
3	104	104	104	104	104	104	104	104	
4	104	104	104	104	104	104			
5	104	104	104	104	104	104			

Dimensioni d'ingombro interruttori di sicurezza

		tipo	R10	R16	R20	R32	R40	R55	R63	R100	R126	R250
	cassetta termoplast. misure d'ingombro 10 mm meno dell'altezza H	PLM/D1	A	85	85	85	85	-	-	-	-	-
			A ₁	72	72	72	72	-	-	-	-	-
			B	85	85	85	85	-	-	-	-	-
			B ₁	58	58	58	58	-	-	-	-	-
			Pg	2x2 Pg16								
			H _{3poli}	70	70	70	70	-	-	-	-	-
			H _{3+1po o}	70	70	70	70	-	-	-	-	-
			H _{4poli}	70	70	70	70	-	-	-	-	-
			H _{6poli}	77	77	77	77	-	-	-	-	-
			H _{6+1po o}	97	97	97	97	-	-	-	-	-
			H _{9poli}	97	-	-	-	-	-	-	-	-
	cassetta termo- plast misure d'ingombro 13 mm meno dell'altezza H	PLM/D2	A	125	125	125	125	125	125	-	-	-
			A ₁	111	111	111	111	111	111	-	-	-
			B	125	125	125	125	125	125	-	-	-
			B ₁	94	94	94	94	94	94	-	-	-
			Pg	2x2 Pg21								
			H _{3poli}	-	-	-	-	79	110	110	-	-
			H _{3+1po o}	-	-	-	-	79	110	110	-	-
			H _{4poli}	-	-	-	-	79	110	110	-	-
			H _{6poli}	-	79	79	79	110	-	-	-	-
			H _{6+1po o}	79	79	79	79	110	-	-	-	-
			H _{9poli}	110	110	110	110	-	-	-	-	-
	cassetta termoplast misure d'ingombro 150 mm	K2	A	-	-	-	-	-	248	248	248	248
			A ₁	-	-	-	-	-	225	225	225	225
			B	-	-	-	-	-	187	187	187	187
			B ₁	-	-	-	-	-	162	162	162	162
			Pg	2x1 Pg21/29 2x2 Pg21/29 2x2 Pg16								
			H _{3poli}	-	-	-	-	-	-	-	185	185
			H _{3+1po o}	-	-	-	-	-	-	-	185	185
			H _{4poli}	-	-	-	-	-	-	-	185	185
			H _{6poli}	-	-	-	-	-	-	-	185	-
			H _{6+1po o}	-	-	-	-	-	185	185	-	-
			H _{9poli}	-	-	-	-	-	185	185	-	-
	cassetta termoplast misure d'ingombro 200 mm	K3	A	-	-	-	-	-	-	373	373	373
			A ₁	-	-	-	-	-	-	350	350	350
			B	-	-	-	-	-	-	248	248	248
			B ₁	-	-	-	-	-	-	225	225	225
			Pg	2x1 Pg36/42 2x6 Pg16								
			H _{3poli}	-	-	-	-	-	-	-	-	373
			H _{3+1po o}	-	-	-	-	-	-	-	-	350
			H _{4poli}	-	-	-	-	-	-	-	-	373
			H _{6poli}	-	-	-	-	-	-	-	-	350
			H _{6+1po o}	-	-	-	-	-	-	-	-	230
			H _{9poli}	-	-	-	-	-	-	-	-	230
	cassetta termoplast misure d'ingombro 200 mm und 250 mm	K4	A	-	-	-	-	-	-	-	-	373
			A ₁	-	-	-	-	-	-	-	-	350
			B	-	-	-	-	-	-	-	-	373
			B ₁	-	-	-	-	-	-	-	-	350
			Pg	2x1 Pg36/42 3x2 Pg29/36 2x10 Pg16								
			H _{3poli}	-	-	-	-	-	-	-	-	230
			H _{3+1po o}	-	-	-	-	-	-	-	-	230
			H _{4poli}	-	-	-	-	-	-	-	-	230
			H _{6poli}	-	-	-	-	-	-	-	-	280
			H _{6+1po o}	-	-	-	-	-	-	-	-	230 ₁
			H _{9poli}	-	-	-	-	-	-	-	-	280 ₁

I contatti aux per il commutatore 3+1 e 6+1 sono previsti per la commutazione di teleruttori, perciò sono più deboli dei contatti principali.
 Gli interruttori tipo R63, R100 e R126 sono equipaggiati con un contatto aux. da 50A, il tipo R250 con 1 contatto aux. da 125A.

Dimensioni d'ingombro per sezionatori HLT/NLT



	I _{th} A	AC23 kW	AC3 kW	U V	Sezione di raccordo / connection cross mm ²
LT16/25A	25	9,5	7,5	690	6
LT32	32	11,5	9,5	690	16
LT40	40	15,0	11,0	690	16
LT63	63	22,0	18,5	690	35
LT80	80	30,0	22,0	690	35
LT100	100	37,0	30,0	690	50
LT125	125	45,0	37,0	690	50
LT180	180	90,0	75,0	690	135
LT250	250	132,0	110,0	690	135
H11	10			240	4

E	Tipo	A	A1	C	C	C	F	L
				3poli	4poli	6poli		
	LT16-25A	66	48	48	48	/	50	50
	LT32-40	66	48	45	61	91	54	50
	ULT25-40	64	48	91	122	/	54	50
	LT63-80	66	48	60	80	121	64	59
	ULT63-80	64	48	121	161	/	64	59
	LT100-125	66	48	70	93	141	83	75
	ULT100-125	64	48	141	187	/	83	75
	LT180-250	125	104	109	145	219	126	108

ZM	Tipo	A	C	C	F	L
			3poli	4poli		
	LT16-25A	66	48	48	50	73
	LT32-40	66	45	61	54	73
	LT63-80	66	60	80	64	84

IP65

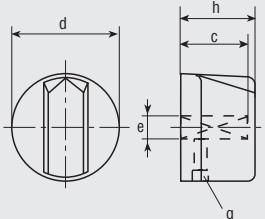
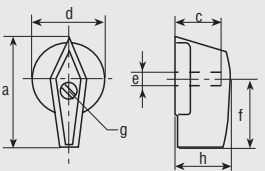
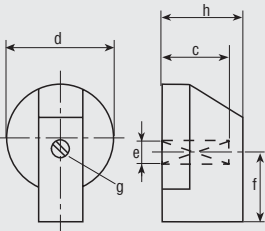
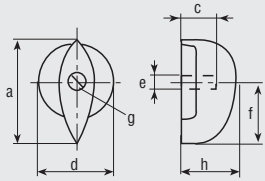
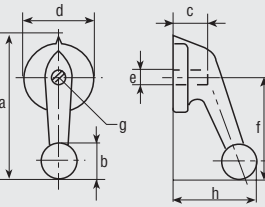
V	Tipo	A	A1	C	C	C	F	L	L1
				3poli	4poli	6poli			Z44
	LT16-25A	66	48	48	48	/	50	50	80
	LT32-40	66	48	45	61	91	54	50	80
	ULT25-40	64	48	91	122	/	54	50	80
	LT63-80	66	48	60	80	121	64	59	80
	ULT63-80	64	48	121	161	/	64	59	80
	LT100-125	66	48	70	93	141	83	75	80
	ULT100-125	64	48	141	187	/	83	75	80
	LT180-250	125		109		219	126	108	30

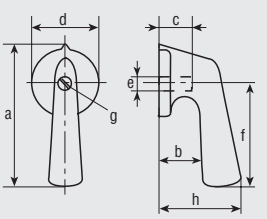
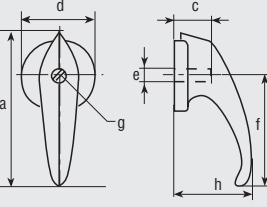
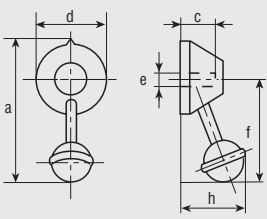
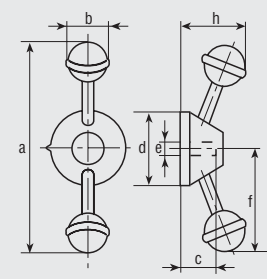
T	Tipo	A	A	B	F	L
		3poli	4poli			
	LT16-25A	49	49	45	50	45
	LT32-40	48	64	45	55	45
	LT63-80	60	80	45	64	45
	LT100-125	70	93	45	83	45

Cassetta / enclosures	Tipo	A	C	F	L	PREDISPOSIZIONE FORI
	PM-D1	66	100	140	81	4 x M25
	PM-D2	66	146	176	104	4 x M32/40
	PM-D3	90	302	212	137	4 x M50/63
	K4	125	373	373	230	2 x M40/63, 2 x M32/50, 4 x M25/40

IP65

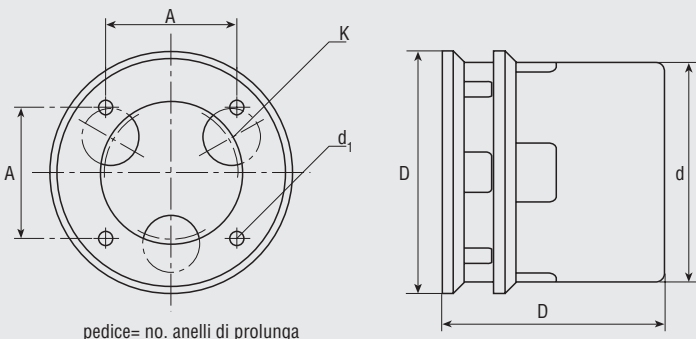
Dimensioni d'ingombro azionatori

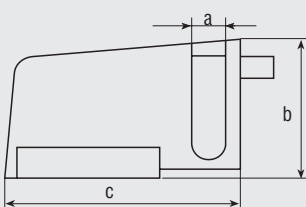
	Tipo	gruppo				
		D00	D0	D1	D2	D3
azionatore a freccia.....	B					
						
	c		18	12		
	d		28	36		
	e		6 [□]	6 [□]		
	g		M 3	M 3,5		
	h		19	24		
	y		6	6		
azionatore a farfalla.....	F					
						
	a	26	42	50	70	104
	c	17	18	22	28	39
	d	16	28	26	50	77
	e	4 [□]	6 [□]	6 [□]	8 [□]	10 [□]
	f	18	26	29	41	61
	g		M 3	B 2,9	B 3,5	B 4,8
	h	15	21	24	32	44
	y	3	4	6	9	14
azionatore a maniglia.....	N					
						
	a	24				
	c	14				
	d	13				
	e	4 [□]	6 [□]	6 [□]		
	f	15	22	24		
	g		B 2,9	B 2,9		
	h	17	22	24		
	y	3	4	8		
azionatore a manopola.....	K					
						
	a		40	51	70	104
	c		11	13	21	26
	d		28	36	50	77
	e		6 [□]	6 [□]	8 [□]	10 [□]
	f		24	30	41	61
	g		M 2,6	M 3,5	M 4	M 5
	h		21	25	34	45
	y		4	6	9	14
azionatore in materia isolante*)..	I					
						
	a			81		
	b			20		
	c			13		
	d			36		
	e			6 [□]		
	f			60		
	g			M 3,5		
	h			52		
	y			6		

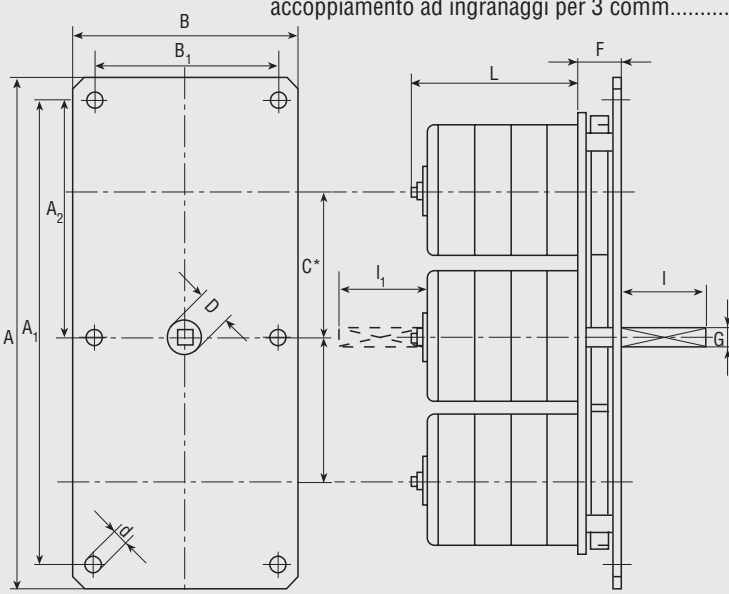
	Tipo	gruppo				
		D00	D0	D1	D2	D3
leva a pistola*).....	H					
						
	a			81	105	
	b			32	33	
	c			13	21	
	d			36	50	
	e			6 [□]	8 [□]	
	f			60	77	
	g			M 3,5	M 4	
	h			60	65	
	y			6	9	
leva senza pomolo*).....	R					
						
	a				112	141
	b				40	54
	c				21	26
	d				50	77
	e				8 [□]	10 [□]
	f				80	98
	g				114	145
	h				50	66
	y				9	14
leva a pomolo*).....	M					
						
	a			82	122	122
	b			25	40	40
	c			13	28	28
	d			36	50	77
	e			6 [□]	8 [□]	10 [□]
	f			62	95	95
	g			M 3,5	M 8	M 8
	h			43	62	62
	y			6	10	10
doppia leva a pomolo*).....	D					
						
	a				252	252
	b				40	40
	c				28	28
	d				50	77
	e				8 [□]	10 [□]
	f				126	126
	h				56	56
	y				10	10
*con sovrapprezzo						
possono essere adattati a diversi spessori di pannelli e spostati al massimo di y.						

Dimensioni d'ingombro per esecuzioni speciali

SONTHEIMER Apparecchiature elettriche

Tipo		gruppo						
	calibro	D0		D1		D2		
		8	11/12	16/20/32	40	50	63	100
 calotta in termoplast..... Z10 pedice= no. anelli di prolunga	A	36		48		68		
	D	70,0Ø		93,0Ø		125,0Ø		
	d	63,0Ø		84,0Ø		11,5Ø		
	d ₁	4,0Ø		4,5Ø		5,2Ø		
	K	10Ø/12Ø		3xPg16		4xPg16 bzw. 4xPg 21		
	1	66	66	70		100	100	100
	2	66	66	70		100	100	147 ₂
	3	83 ₁	83 ₁	90 ₁		123 ₁	123 ₁	170 ₃
	4	100 ₂	100 ₂	90 ₁	90 ₁	147 ₂	147 ₂	216 ₅
	5	118 ₃	118 ₃	110 ₂	110 ₂	147 ₂	170 ₃	239 ₆
L per no. elementi	6	118 ₃	118 ₃	130 ₃	130 ₃	170 ₃	193 ₄	285 ₈
	7	133 ₄	133 ₄	130 ₃	130 ₃	193 ₄	216 ₅	319 ₉
	8	150 ₅	150 ₅	150 ₄	150 ₄	216 ₅	239 ₆	354 ₁₀
	9	168 ₆	168 ₆	170 ₅	170 ₅	216 ₅	262 ₇	377 ₁₁
	10	168 ₆	168 ₆	170 ₅	170 ₅	239 ₆	285 ₈	423 ₁₂

 azionatore bloccante Z20	calibro	D0		D1		
		8/11/12		16/20/32/40		
	a	7		7		
		29		29		
	b	46		46		

 blocco concatenato di 2 commutatori Z26 accoppiamento ad ingranaggi per 2 comm..... Z42 accoppiamento ad ingranaggi per 3 comm..... Z46	calibro	D1			D2			D3		
		16/20/32/40			50/63/100			125/250		
		Z26	Z42	Z46	Z26	Z42	Z46	Z26	Z42	Z46
	A	190	190	260	220	220	310	360	360	515
	A ₁	165	165	235	196	196	286	320	320	475
	A ₂	49	49		54	54		82,5	82,5	
	B	120	120	120	135	135	135	200	200	200
	B ₁	95	95	95	111	111	111	160	160	160
	C	68	68	68	88	88	88	155	155	155
	D	13Ø	13Ø	13Ø	14Ø	14Ø	14Ø	16Ø	16Ø	16Ø
Gruppo	d	5,5Ø	5,5Ø	5,5Ø	6,5Ø	6,5Ø	6,5Ø	8,5Ø	8,5Ø	8,5Ø
	*)I	25	25	25	32	32	32	40	40	40
	**)I ₁	39	39	39	71	71	71	110	110	110
	G	6 [□]	6 [□]	6 [□]	8 [□]	8 [□]	8 [□]	10 [□]	10 [□]	10 [□]
	F	15	21	21	15	21	21	15	21	21
	L	misura L vedi dimensioni esecuz. E e V								
	*)togliere per Z26 e Z42									
	**) vale per esec. V, togliere quindi I									
	***) vale per esec. E, togliere quindi I ₁									

Dimensioni d'ingombro per esecuzioni speciali

		Tipo
commutazione a serratura D00.....		Z32
commutazione a serratura D0/D1.....		Z32

		gruppo					
		D00		D0		D1	
		6	8	11	12	16/20/32	40
Made in mm	C	12	12	12	12	13	18
	D	28x29	39x41	41x46	43Ø	56 Ø	56 Ø
	E	25	29	29	29	29	29
	F	7	5	5	5	5,5	5,5
L per no. elementi	1	50	62	62	62	64	72
	2	62	74	74	74	77	89
	3	74	86	86	86	90	105
	4	86	98	98	98	103	123
	5	98	110	110	110	116	140
	6	110	122	122	122	129	158
	7	122	134	134	134	142	176
	8	134	146	146	146	155	193
	9		159	159	159	168	210
	10		171	171	171	177	229

blocco lucchettabile		Z33
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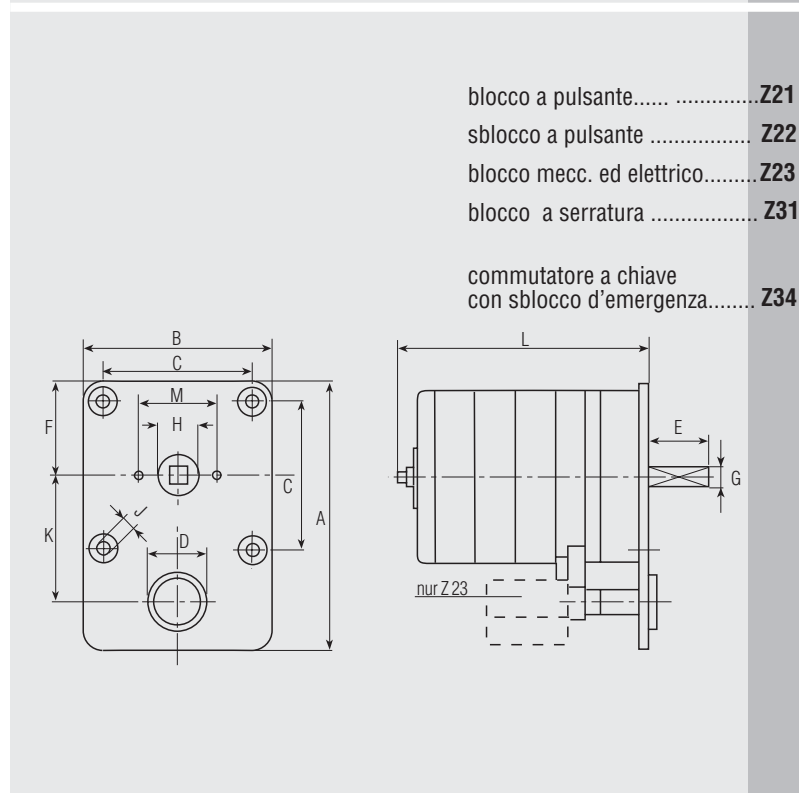
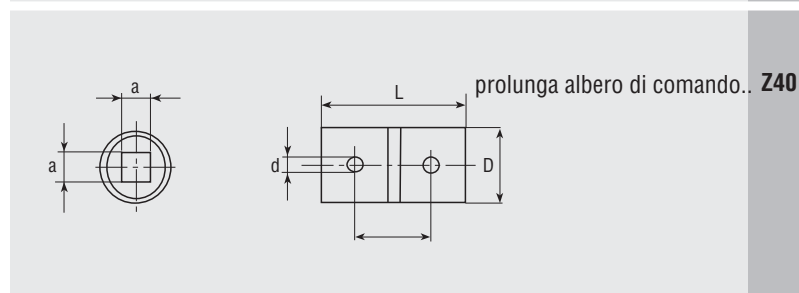
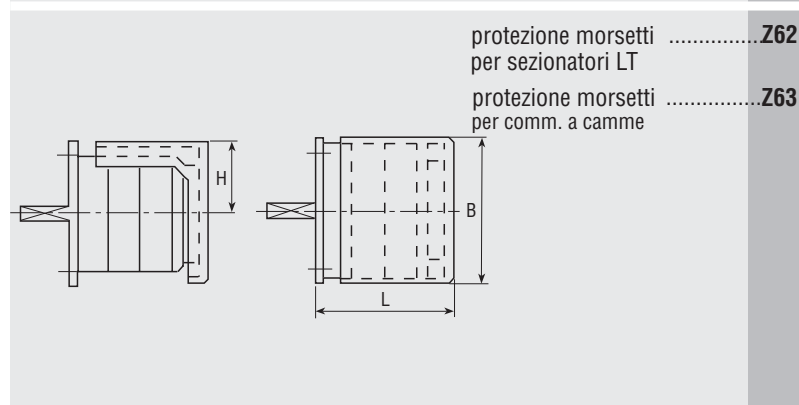
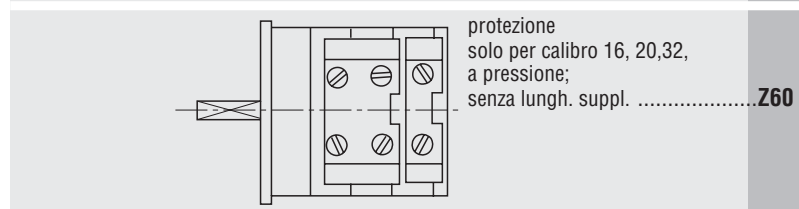
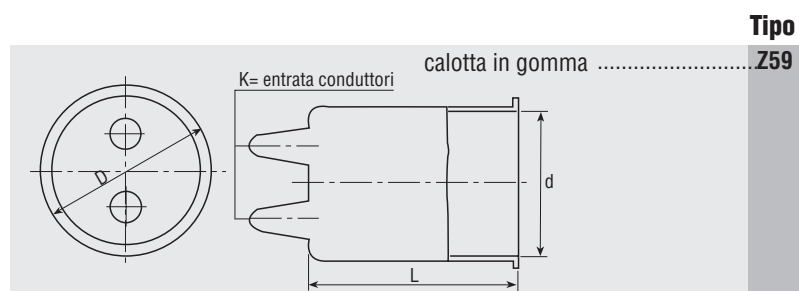
		D1	D2
A	66	97	
B	48	68	
C	8	9	
D	60,5	85	
E	31	40	
F	20	32	
G	4,5	5,5	
H	8	8	
*) J	4	3	

*) J =forature per lucchetti

blocco lucchettabile		Z35
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		D1	D2	D3
mixture in mm	A	90	123	123
	B	70	97	97
	D	13Ø	15Ø	15Ø
	d	4,5Ø	5,4Ø	5,4Ø
	d ₁	8,3Ø	10,4Ø	10,4Ø
	a [□]	48	68	68
	b [□]	6	6/8	8/10
	c	8	8	8
	e	31	43	43
	f	14	17,5	17,5
g	25	39	39	
h	21,5	26	26	
l	15	24	24	

Dimensioni d'ingombro per esecuzioni speciali

SONTHEIMER
Apparecchiature elettriche

gruppo

D1
2
60
52 Ø
72
2

Il diametro del commutatore cambia
da Ø56 mm a Ø65 mm

D0	D1	D2	D3
8/11/12	16/20/32	40	50
61/70	61/85	85	85
30	30/41	40/51	72/83/94
L	L	L	L
49	57	67	75
83	104	111	132
109	104	111	132
135	175	183	220
lungh. suppl. 3 mm			
lungh. suppl. 4 mm			
lungh. suppl. 5 mm			

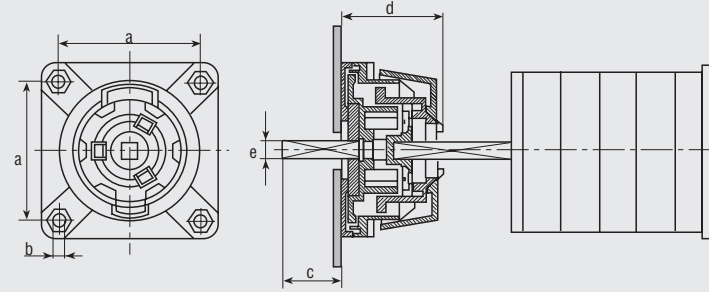
D1	D2
16/20/32	40/50/63/100
6	8
M 4	M 4
22	22
40	40
24,5	24,5

D0	D1	D2	D3
8/11/12	16/20/32/40	40/50/63/100	125/250
E, V,	E, V,		
E, V,	E, V,		
E, V,	E, V,		
E, V	E, V,	E, V	E, V
E, V, PLK			
84	84	110	175
48	60	85	120
36	48	68	85x115 (104 [□])
16,5	18	18	16
20	22	32	38
24	32	43	65
6 [□]	6 [□]	8 [□]	10 [□]
13	13	15	16
4,2	4,5	5,5	6,5
42,5	42,5*)	55	87
20	25	39	57
14	15	15	25

Misura L vedi dimensioni per esec. E e V, lunghezza totale=L+X !
*) per Z21, Z22, Z23 la misura é K= 41

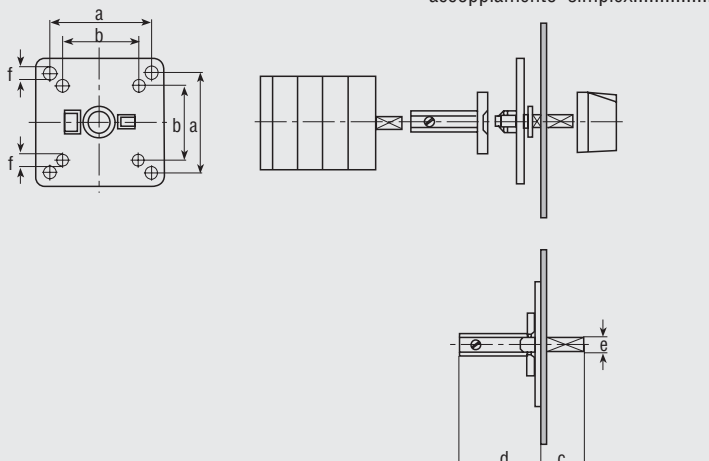
Dimensioni per accoppiamenti mobili

accoppiamento senza blocco su O **Z64**
accoppiamento per sportelli con blocco..... **Z65**
accoppiamento con blocco **Z66**
accoppiamento per sportelli con blocco **Z67**



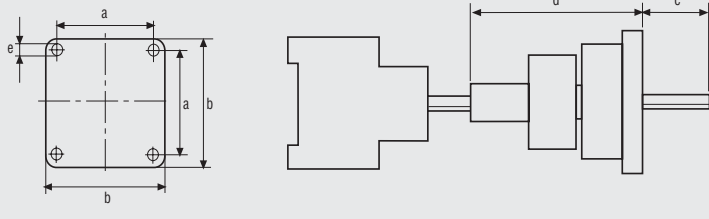
Tipo

accoppiamento simplex..... **Z68**



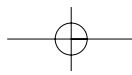
Tipo

accoppiamento senza blocco..... **Z44**
accoppiamento autocentrante..... **Z45**



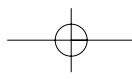
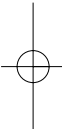
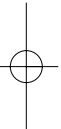
Tipo

		gruppo		
		D1	D2	D3
misure in mm	a	48	68	68
	b	4,5	5,5	5,5
	c	20	30	45
	d	29	47	47
	e	6	8	10
		D0	D1	
misure in mm	a	48	48	
	b	36	64	
	c	14	30	
	d	38	80	
	e	6 [□]	6 [□]	
		D0	D1	
misure in mm	a		48	
	b		64	
	c		30	
	d		80	
	e		4,5	



Appunti

Lined area for notes, consisting of multiple horizontal lines.



Condizioni generali di vendita

SONTHEIMER Apparecchiature elettriche

Generalità: Il contratto di vendita viene perfezionato con l'accettazione dell'ordine del Cliente da parte della Blumel. Ogni ordine del Cliente implica l'accettazione senza riserva delle presenti condizioni di vendita. Qualsiasi accordo non conforme alle qui esposte condizioni generali di vendita è impegnativo solo se espressamente accettato e confermato per iscritto. La Blumel Srl non riconosce accordi o impegni verbali di alcun genere stipulati dai suoi funzionari e/o agenti.

Offerte Le offerte salvo diverse indicazioni scritte, hanno una validità max. di 30 gg. solari a partire dalla data di emissione, dopo di che decadono automaticamente.

Prezzi e condizioni di vendita La Blumel Srl si riserva la facoltà di apportare variazioni alle quotazioni senza alcun preavviso. Nel caso di variazione dei prezzi tra la data dell'ordine e quella di consegna, i prezzi di fatturazione saranno quelli di listino in vigore alla data della consegna. Qualora si dovessero verificare imprevedibili e repentine oscillazioni dei prezzi delle materie prime per cause derivanti da una recessione economica a livello internazionale, ci riserviamo la possibilità in qualsiasi momento di rivedere le nostre quotazioni in funzione di tali variazioni.

I pagamenti di somme a qualsiasi titolo dovute alla Blumel Srl, debbono essere effettuati entro i termini stabiliti al domicilio della nostra società. Assegni, vaglia cambiari, tratte e ricevute bancarie si considerano pagamenti assolti soltanto al relativo buon fine.

Importo minimo di fornitura La Blumel Srl considera l'importo minimo ordinabile pari ad € 100,00 Iva esclusa. La merce, accuratamente imballata, viaggia sempre a rischio e pericolo del Committente, anche se spedita in porto franco. Non si assume nessuna responsabilità per furti, avarie, o manomissioni che si potessero verificare durante il trasporto.

Termini di consegna I termini di consegna riportati nelle offerte ed in qualunque altro documento della Blumel Srl, ivi compresi quelli riportati nella conferma d'ordine decorrono dal giorno del ricevimento ordine ed hanno valore semplicemente indicativo.

Garanzia Tutti gli apparecchi prima di essere spediti vengono sottoposti a collaudi rigorosi e sono garantiti per un anno dalla data di fatturazione immuni da difetti di materiali o di fabbricazione. Ci impegniamo quindi a sostituire tutti gli apparecchi o componenti che presentino comprovati difetti di fabbricazione e purché gli stessi siano segnalati per iscritto a fornitura destinata. La garanzia decade per gli apparecchi che risultino manomessi, o deteriorati per cause non imputabili alla Blumel Srl, nonché per gli apparecchi che verranno utilizzati per applicazioni in contrasto con i limiti d'impiego dettati dalle norme e/o riportati sui cataloghi.

Reclami Per essere valido, ogni reclamo deve essere formulato per iscritto ed indirizzato alla Blumel, con comunicazione a mezzo lettera raccomandata con ricevuta di ritorno entro e non oltre otto giorni dalla data di ricevimento della merce, pena di decadenza.

Ritardi nei pagamenti Nel caso di ritardo sui termini contrattuali dei pagamenti, verranno addebitati interessi bancari pari al tasso commerciale medio corrente al momento della loro applicazione. Gli interessi moratori sono dovuti in caso di ritardo per il periodo intercorrente fra la scadenza contrattuale e la data dell'effettivo pagamento, ai sensi ART. 1224-1282 C.C.. In caso di inadempimento e/o prolungato ritardo di elevata esposizione, la Blumel si riserva di intraprendere le azioni cautelative che riterrà più opportune.

Procedure legali Per ogni contestazione si considerano competenti la Pretura di Merano ed il Tribunale di Bolzano.

SONTHEIMER

Apparecchiature elettriche

Rappresentanze di zona:

Veneto-Friuli Venezia Giulia		
Lombardia-Como-Varese-Sondrio	Clerici Osvaldo	Tel.: 02/96781462 335/5806258

Organizzazione internazionale di vendita:

Australia	ASN-Switchgear Pty.Ltd. 234 Old Geelong Road AUS-3030 Vic. Hoppers Crossing	Tel.:0061/3/7486535 Fax: 0061/3/7486012
Danimarca	ARA EL A/S Handervaerkervey 4 DK 4652 Haarlev	Tel.:0045/53686550 Fax: 0045/53686544
Finlandia	Oy Hedengren AB Lauttasaarentie 50 SF-00200 Helsinki	Tel.: 03589/68281 Fax: 03589/674919
Francia	Madep SARL 17 Rue Edouard Jeanneret F-78300 Poissy	Tel.: 00331/39118270 Fax: 00331/39111655
Grecia	Nicolaos G. Asteriadis Solomou 10 G-147 TT Athen	Tel.: 3602461
Gran Bretagna	AGUT Control Gear Ltd. Mosley Street Works GB-Blackburn, Lancs. BB 23 SU	Tel.: 00441/25457232 Fax: 00441/254663630
Olanda, Baesi Bassi	Odink & Koenderink B.V. Parallelweg 10 NL-7482 CA Haaksbergen	Tel.: 0031/5/35730303 Fax: 0031/5/35726315
Hong Kong	Hip Shing Trading Co. 114-120 Lockhard Road HK-Hong Kong	Tel.: 00852/5274114 Fax: 00852/2861266
Italia	Blumel Srl Via L.Zuegg 22 E I-39012 Merano	Tel.: 0039/0473/449549 Fax: 0039/0473/440342
Norvegia	Nortelco AS Ryensvingen 3 N-0612 Oslo-Manglerud	Tel.:0047/22674020 Fax: 0047/22674030
Portogallo	IBIS Eurofios-Fios Especiais Estrada da Baixa de Palmela 27 P-2900 Setubal	Tel.:00351/6534634 Fax: 00351/6535926
Svezia	Weidmüller AB Skebokvarnsvägen 370 S-12450 Bandhagen	Tel.: 0046/87272300 Fax: 0046/87272480
Svizzera	Standard AG Schillerstraße 31 CH-4053 Basel	Tel.: 0041/613318228 Fax: 0041/613314839
Rep. Ceca	PROM EL Pardubicka 12 53501 Valy	Tel.: 04161/3318228 Fax: 04161/3314389
Cipro	A&B G.Vassiliou Ltd. Evagora Pallikarides Latsia 178 2235 Latsia	Tel.: 0035/72482430 Fax: 0035/72485915