

Automation

Section





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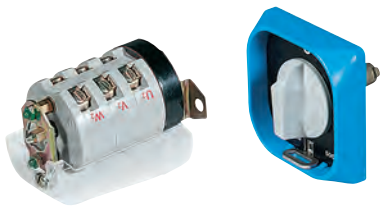


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CONTROL, START, STOP AND EMERGENCY



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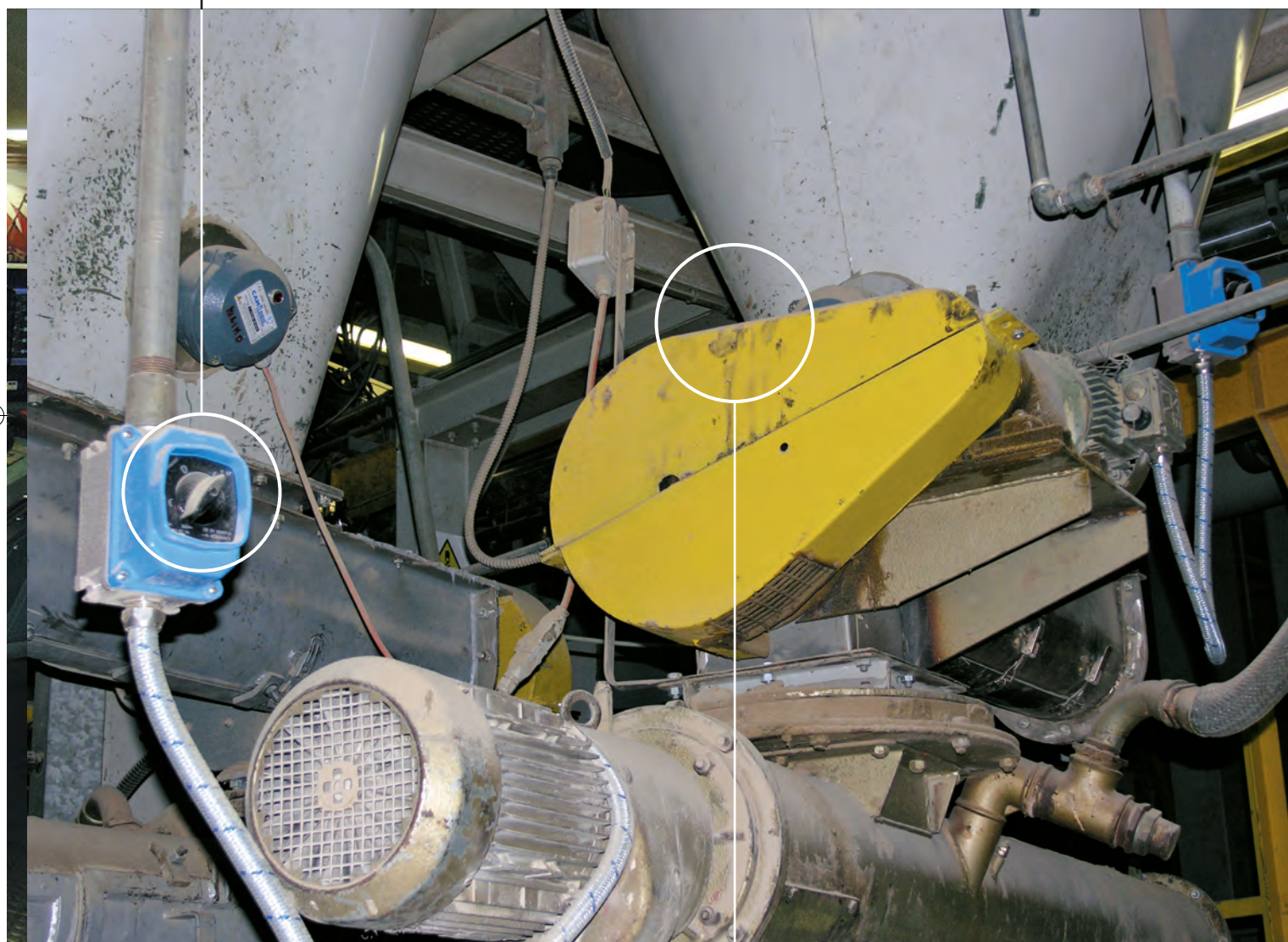


CONTROL AND LINE SECTIONING



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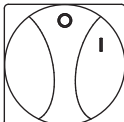
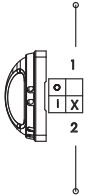

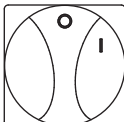
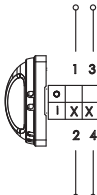

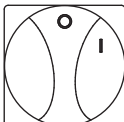
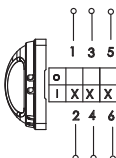

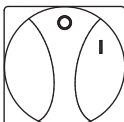
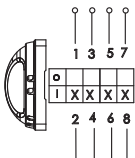
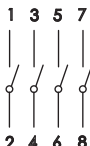
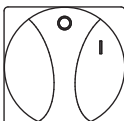
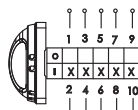
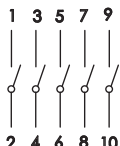
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SWITCHES

Front-plate	Connection layout	In (A)	AC3 400V (Kw)	Prof. (mm)	Black knob/ grey front-plate 48x48 mm	Black knob/ grey front-plate 67x67 mm	
Switch - 1-pole							
			12	4,5	33	210121	layout 0 - no. 1 disk 211121
			16	6,5	33	210161	211161
			20	8	33	210201	211201
			25	10	33	210251	211251
			32	10,5	42,4		212321
			40	13	42,4		212401
			63	22	42,4		212631
Switch -2-poles							
			12	4,5	33	210122	layout 1 - no. 1 disk 211122
			16	6,5	33	210162	211162
			20	8	33	210202	211202
			25	10	33	210252	211252
			32	10,5	42,4		212322
			40	13	42,4		212402
			63	22	42,4		212632
Switch - 3-poles							
			12	4,5	46	210123	layout 2 - no. 2 disks 211123
			16	6,5	46	210163	211163
			20	8	46	210203	211203
			25	10	46	210253	211253
			32	10,5	59,4		212323
			40	13	59,4		212403
			63	22	59,4		212633
			12	4,5	46		214123* emergency
			16	6,5	46		214163* emergency
			20	8	46		214203* emergency
			25	10	46		214253* emergency
			32	10,5	59,4		214323* emergency
			40	13	59,4		214403* emergency
			63	22	59,4		214633* emergency
Switch - 4 poles							
			12	4,5	46	210124	layout 3 - no. 2 disks 211124
			16	6,5	46	210164	211164
			20	8	46	210204	211204
			25	10	46	210254	211254
			32	10,5	59,4		212324
			40	13	59,4		212404
			63	22	59,4		212634
			12	4,5	46		214124* emergency
			16	6,5	46		214164* emergency
			20	8	46		214204* emergency
			25	10	46		214254* emergency
			32	10,5	59,4		214324* emergency
			40	13	59,4		214404* emergency
			63	22	59,4		214634* emergency
Switch -5-poles							
			12	4,5	59	210125	layout 43 - no. 3 disks 211125
			16	6,5	59	210165	211165
			20	8	59	210205	211205
			25	10	59	210255	211255

* red knob / yellow front-plate

* red knob / yellow front-plate

Form for requesting special products on page 381



SWITCHES

Front-plate	Connection layout	In (A)	AC3 400V (Kw)	Prof. (mm)	Black knob/ grey front-plate 48x48 mm	Black knob/ grey front-plate 67x67 mm
Switch -6-poles						
			12	4,5	59	layout 44 - no. 3 disks 210126 211126
			16	6,5	59	210166 211166
			20	8	59	210206 211206
			25	10	59	210256 211256

LINE SELECTOR SWITCHES

Line selector switch - 1 pole						
			12	4,5	33	layout 4 - no. 1 disk 215121 216121
			16	6,5	33	215161 216161
			20	8	33	215201 216201
			25	10	33	215251 216251
			32	10,5	42,4	217321
			40	13	42,4	217401
			63	22	42,4	217631

Line selector switch - 2 poles						
			12	4,5	46	layout 5 - no. 2 disks 215122 216122
			16	6,5	46	215162 216162
			20	8	46	215202 216202
			25	10	46	215252 216252
			32	10,5	59,4	217322
			40	13	59,4	217402
			63	22	59,4	217632

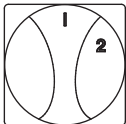
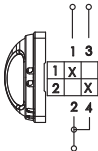

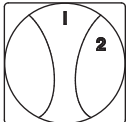
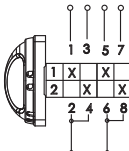
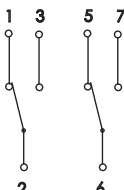
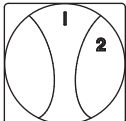
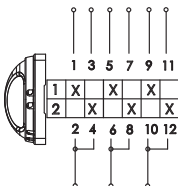
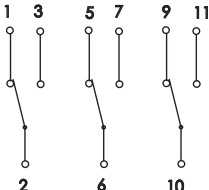
Line selector switch - 3 poles						
			12	4,5	59	layout 6 - no. 3 disks 215123 216123
			16	6,5	59	215163 216163
			20	8	59	215203 216203
			25	10	59	215253 216253
			32	10,5	76,4	217323
			40	13	76,4	217403
			63	22	76,4	217633

Line selector switch - 4 poles						
			12	4,5	72	layout 7 - no. 4 disks 215124 216124
			16	6,5	72	215164 216164
			20	8	72	215204 216204
			25	10	72	215254 216254
			32	10,5	93,4	217324
			40	13	93,4	217404
			63	22	93,4	217634

Line selector switches with self-return to 0 - 3 poles						
			16	6,5	72	layout 45 - no. 4 disks 360163 361163
			25	10	72	360253 361253

Form for requesting special products on page 381

LINE SELECTOR SWITCHES

Front-plate	Connection layout	In (A)	AC3 400V (Kw)	Prof. (mm)	Black knob/ grey front-plate 48x48 mm	Black knob/ grey front-plate 67x67 mm	
Line selector switches - 1 pole							
			12	4,5	33	236121	layout 8 - no. 1 disk 237121
			16	6,5	33	236161	237161
			20	8	33	236201	237201
			25	10	33	236251	237251
Line selector switches -2 poles							
			12	4,5	46	236122	layout 9 - no. 2 disks 237122
			16	6,5	46	236162	237162
			20	8	46	236202	237202
			25	10	46	236252	237252
Line selector switches - 3 poles							
			12	4,5	59	236123	layout 10 - no. 3 disks 237123
			16	6,5	59	236163	237163
			20	8	59	236203	237203
			25	10	59	236253	237253

MOTOR SELECTOR SWITCHES

Three-phase reversing switches - 3 poles

12	4,5	59	221123	layout 12 - no. 3 disks 222123
16	6,5	59	221163	222163
20	8	59	221203	222203
25	10	59	221253	222253
32	10,5	76,4		223323
40	13	76,4		223403
63	22	76,4		223633

Single-phase reversing switches - with auxiliary phase and automatic return - 2 poles

12	4,5	59	224122	layout 40 - no. 3 disks 225123
16	6,5	59	224162	225163
20	8	59	224202	225202
25	10	59	224252	225252

Dahlander pole selector switches - 3 poles

12	4,5	72	381123	layout 66 - no. 4 disks 382123
16	6,5	72	381163	382163
20	8	72	381203	382203
25	10	72	381253	382253

Form for requesting special products on page 381



MOTOR SELECTOR SWITCHES

Front-plate	Connection layout	In (A)	AC3 400V (Kw)	Prof. (mm)	Black knob/ grey front-plate 48x48 mm	Black knob/ grey front-plate 67x67 mm	
Star/triangle starters - 3 poles							
			12	4,5	72	218123	219123
			16	6,5	72	218163	219163
			20	8	72	218203	219203
			25	10	72	218253	219253
			32	10,5	93,4		220323
			40	13	93,4		220403
			63	22	93,4		220633
Star/triangle starters with reverse direction - 3 poles							
			12	4,5	85	377123	378123
			16	6,5	85	377163	378163
			20	8	85	377203	378203
			25	10	85	377253	378253
Star-0-triangle starters - 3 poles							
			12	4,5	72	379123	380123
			16	6,5	72	379163	380163
			20	8	72	379203	380203
			25	10	72	379253	380253
Switch for single-phase motor - with auxiliary phase and return from start pos. - 2 poles							
			12	4,5	46	385122	386122
			16	6,5	46	385162	386162
			20	8	46	385202	386202
			25	10	46	385252	386252
Line selector switches with self-return to 0 - 3 poles							
			12	4,5	59	383123	384123
			16	6,5	59	383163	384163
			20	8	59	383203	384203
			25	10	59	383253	384253
Two-pole reversing switch with condenser - 3 poles							
			12	4,5	59	387122	388122
			16	6,5	59	387162	388162
			20	8	59	387202	388202
			25	10	59	387252	388252
Three-pole pole changing switch - with 0 central							
			12	4,5	72	226123	227123
			16	6,5	72	226163	227163
			20	8	72	226203	227203
			25	10	72	226253	227253
			32	10,5	93,4		228323
			40	13	93,4		228403
			63	22	93,4		228633

Form for requesting special products on page 381



INSTRUMENT SELECTOR SWITCHES

Front-plate	Connection layout	In (A)	Prof. (mm)	Black knob/ grey front-plate 48x48 mm	Black knob/ grey front-plate 67x67 mm
Voltmeter selector switches - 3 line phases					
			layout 18 - no. 2 disks		
Voltmeter selector switches - for 3 neutral-phase voltages					
			layout 19 - no. 2 disks		
Voltmeter selector switches - 3 line voltages +2 neutral-phase					
			layout 41 - no. 3 disks		
Voltmeter selector switches - 3 line voltages +3 neutral-phase					
			layout 35 - no. 3 disks		
Voltmeter selector switches - 3 line voltages +1 neutral-phase					
			layout 42 - no. 3 disks		
Ammeter selector switches - single-pole for 3 reduction units					
			layout 75 - no. 3 disks		
12	59	235120			
16	59	235160			
20	59	235200			
25		235250			

Form for requesting special products on page 381





INSTRUMENT SELECTOR SWITCHES

Front-plate	Connection layout	In (A)	AC3 400V (Kw)	Prof. (mm)	Black knob/ grey front-plate 48x48 mm	Black knob/ grey front-plate 67x67 mm
Ammeter selector switches - two-pole for 3 reduction units						
			12	85	390120	layout 74 - no. 5 disks
			16	85	390160	
			20	85	390200	
			25	85	390250	
			Ammeter selector switches - single-pole for 1 reduction unit			
			12	33	391120	layout 73 - no. 1 disk
			16	33	391160	
			20	33	391200	
			25	33	391250	
			Ammeter selector switches - single-pole for 4 reduction units			
			12	72	392120	layout 72 - no. 4 disks
			16	72	392160	
			20	72	392200	
			25	72	392250	

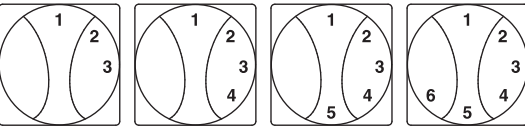
ADDER AND MULTI-WAY SELECTOR SWITCHES

Adder - 3-poles

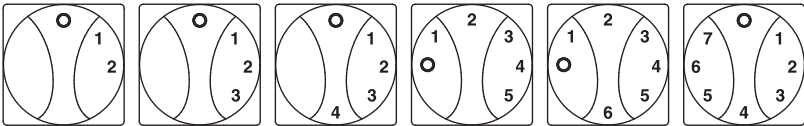
			layout 64 - no. 2 disks			
			16	6,5	46	376161
			25	10	46	376251

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Multi-way selector switches (3, 4, 5, 6 ways) from page 334



Multi-way selector switches with 0 (2, 3, 4, 5, 6, 7 ways) from page 334



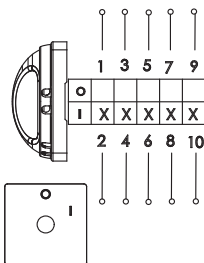
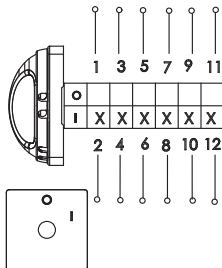
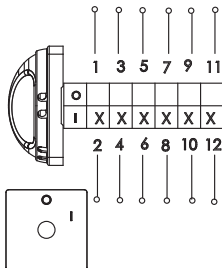
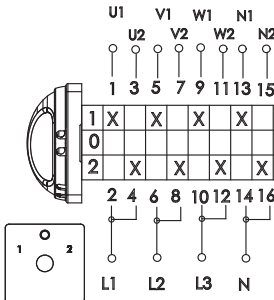
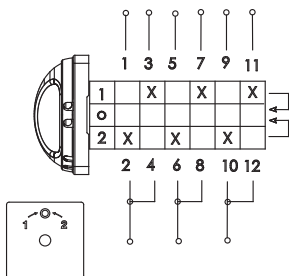
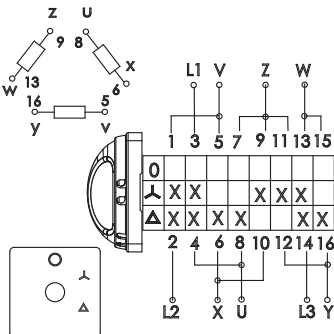
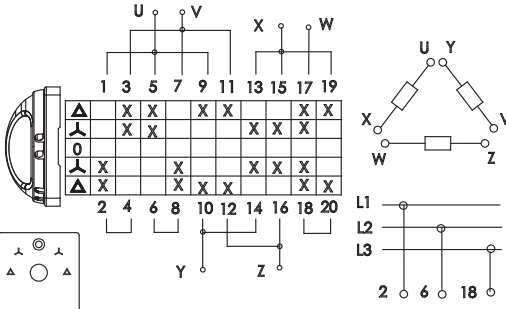
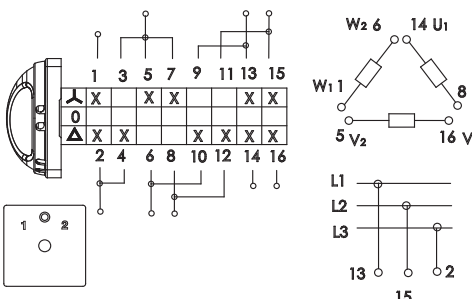
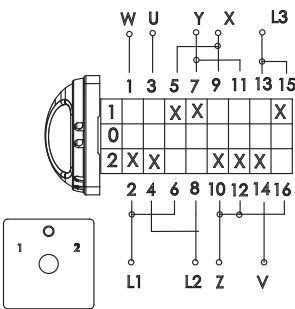
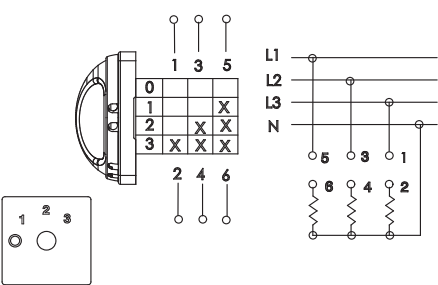
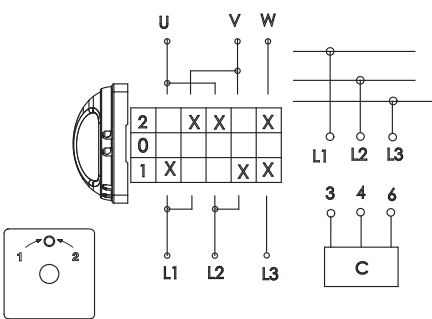
TECHNICAL ACCESSORIES

	Wall-mounted enclosure with provision for front panel control of a rear panel device - screw fixing	page 339
	Blind wall-mounted enclosure suitable for fitting a maximum of 2 rear panel devices – screw or ø 22mm hole fixing	page 339
	Adaptor for mounting on ø 22mm hole devices for screw fixing	page 339

Switches	CAM 0 - Single-pole	CAM 1 - Two-pole	CAM 2 - Three-pole	CAM 3 - Four-pole
Line selector switches	CAM 4 - Single-pole	CAM 5 - Two-pole	CAM 6 - Three-pole	
Motor selector switches	CAM 12 - For three-phase motors	CAM 40 - Two-pole running with auxiliary phase and automatic return	CAM 66 - Dahlander three-pole pole selector switches	
	CAM 68 - Two-pole	CAM 67 - Three-pole running with return to 0	CAM 70 - Two-pole with condenser	

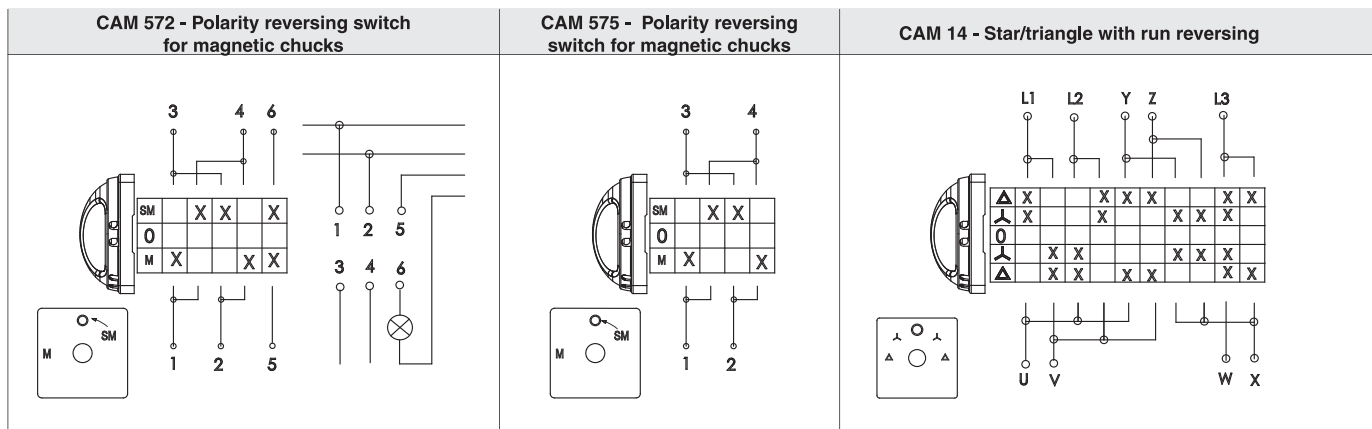
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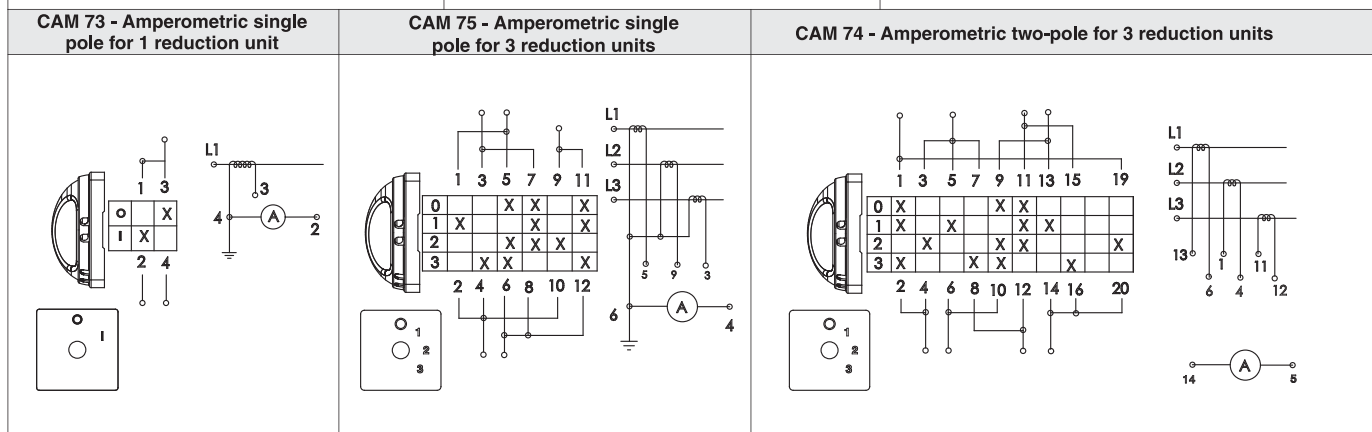
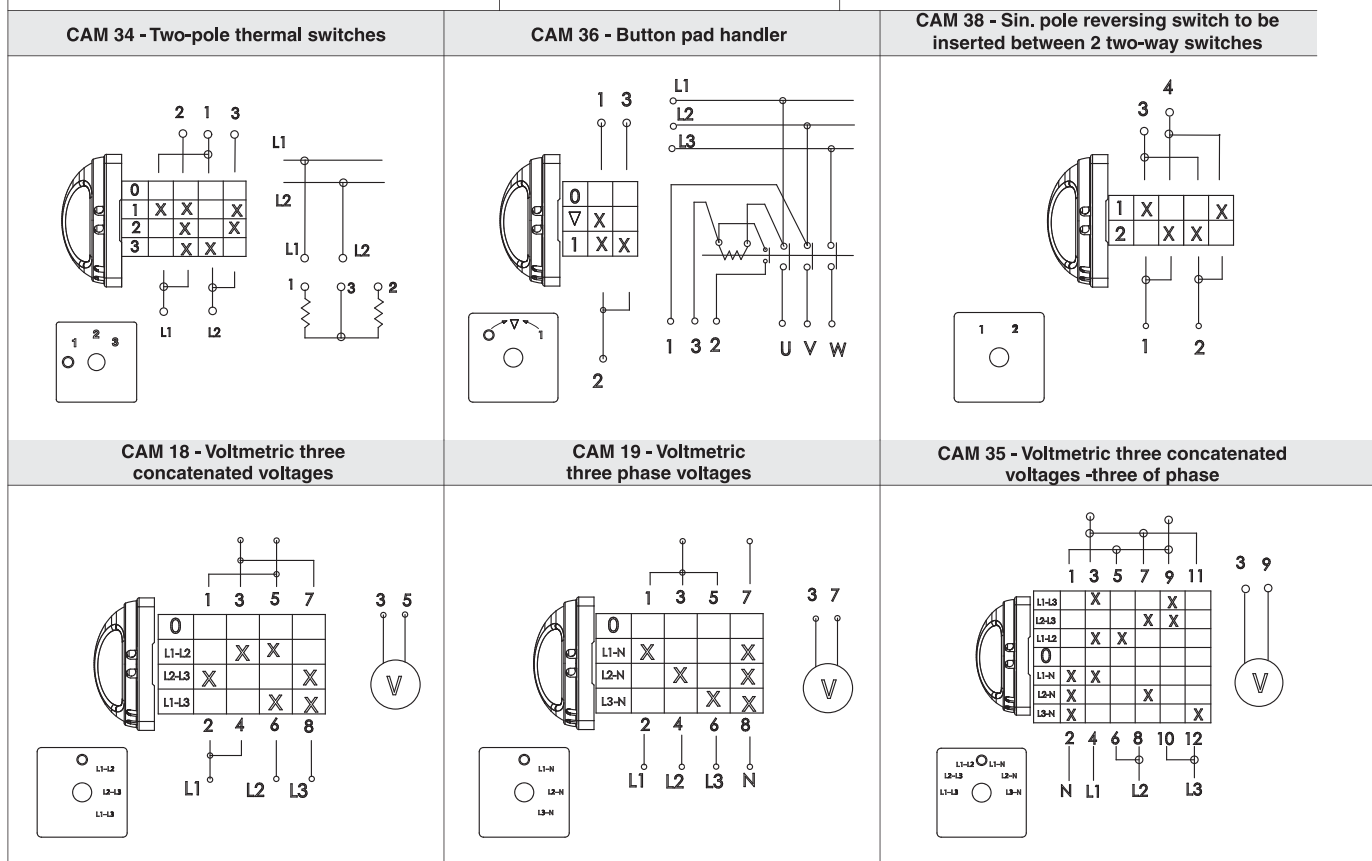
<p>CAM 43 - Five-pole</p> 	<p>CAM 44 - Six-pole</p> 	<p>CAM 3.1 - Six-pole</p> 
<p>CAM 7 - Four-pole</p> 	<p>CAM 45 - Three-pole with ret. to 0</p> 	
<p>CAM 13 - Star triangle</p> 	<p>CAM 65 - Star/triangle with run reversing</p> 	<p>CAM 71 - Star/triangle selector switch</p> 
<p>CAM 15 - Di poles (0 central)</p> 	<p>CAM 64 - Adder</p> 	<p>CAM 631 - For three-phase motor with automatic return</p> 



Motor
selector
switches

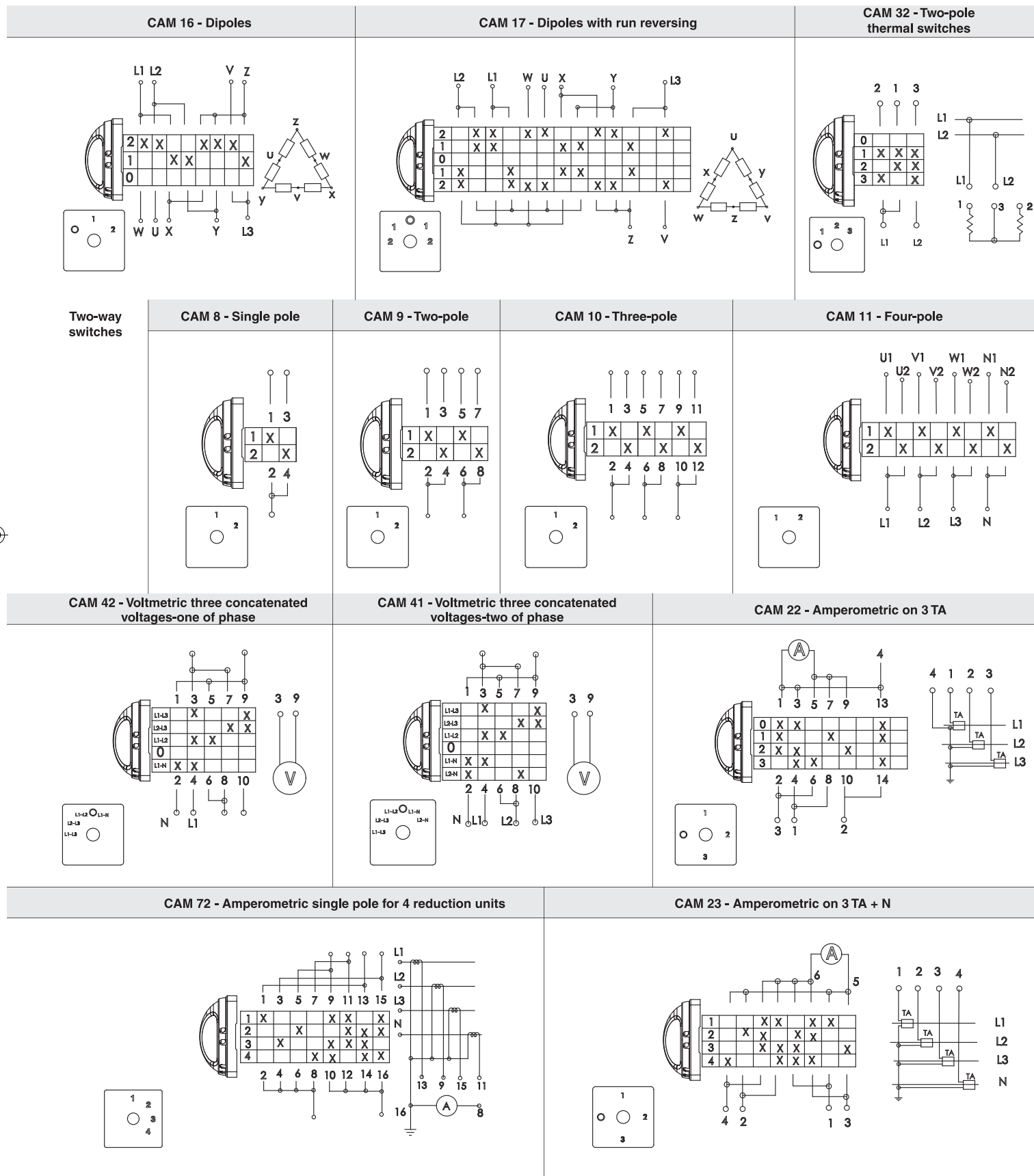


Instrument
selector
switches



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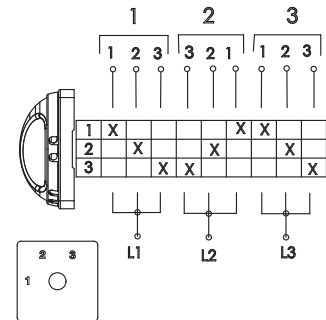
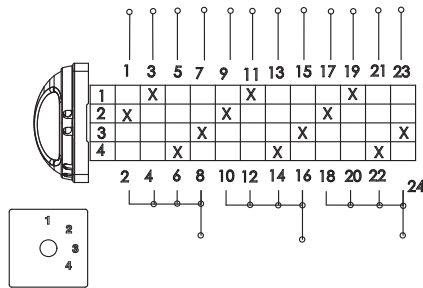


Multi-way switches

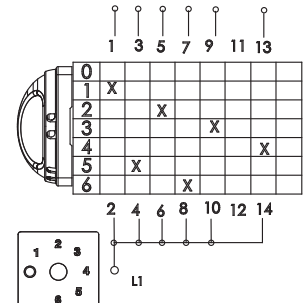
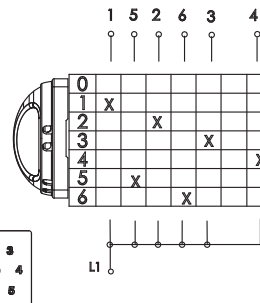
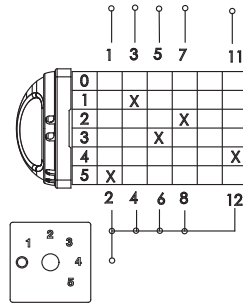
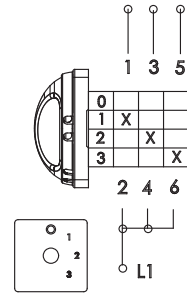
CAM 47 - Single pole 3-way	CAM 48 - Single pole 4-way	CAM 79 - Single pole 4-way	CAM 46 - Single pole 5-way	CAM 51 - Single pole 6-way
CAM 25 - 1P, 2P, 3P 4-way		CAM 26 - 1P, 2P, 3P 5-way		CAM 27 - 1P, 2P, 3P 6-way
CAM 63 - Single pole 7-way + 0	CAM 52 - Two-pole 2-way + 0	CAM 54 - Two-pole 3-way + 0		CAM 56 - Two-pole 4-way + 0
CAM 55 - Three-pole 3-way + 0		CAM 57 - Three-pole 4-way + 0		CAM 60 - Three-pole 5-way + 0

Form for requesting special products on page 381

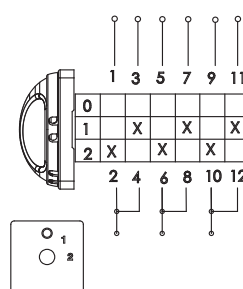
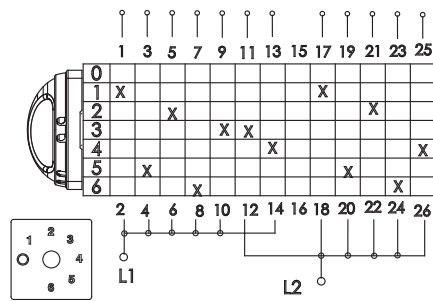
CAM 24 - 1P, 2P, 3P 3-way



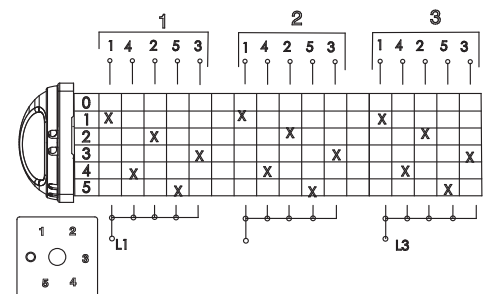
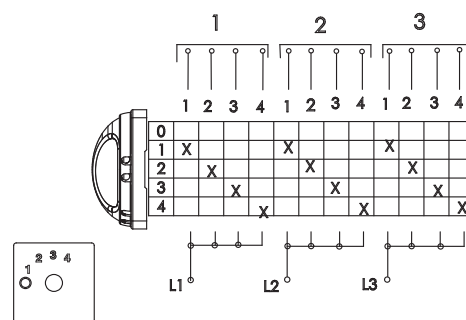
CAM 61 - Single -pole 6-way + 0



CAM 53 - Three-pole 2-way + 0



CAM 30 - 1P, 2P, 3P 5-way + 0





**RoHS
Compliant**



**Italian
design
award**

CAM-ST series **It is recognisable**

Rotary control
devices for
standard applications

TECHNIQUE

The CAM-ST series rotary devices comply with European harmonised standards CEI EN 60947-3, concerning sectioning and operation devices, and with CEI EN 60947-5-1 concerning electromechanical control devices. The cam use, optimised in its electrical, dielectric and mechanical features, allows performances suitable for the heaviest duty use categories, such as AC23 for direct motor operation or other highly inductive loads and AC 15 for very heavy electromagnetic loads control. The front panel features, compared to the active parts and the internal sections of the panel, the IP 65 protection rating, ideal for positioning in dusty environments exposed to weather conditions and water jets. Other than the high protection rate, what is added is the enclosure

resistance characteristics to weather and any item outside and inside the devices. The contact holding disk is made of totally self-extinguishing technopolymers, with the Glow-Wire Test at 960°C (UL94 – V0) and resistance to creeping currents higher than 600V. A CAM-ST feature is the front-plate that can be customised, which distinguishes the application.

Trademarks, symbols, awards



THE ADVANTAGES



EXTREMELY QUICK TO ASSEMBLE

The rear panel version with fixture on a hole measuring 22 mm in diameter with a single hole on the panel and snap fitting of all the elements of the control device makes assembly very fast.



WORKS BETTER AND IS RECOGNISABLE

The totally transparent front-plate shows all the positions to which the knob can be turned to the user's advantage for greater awareness of the electrical manoeuvres and to avoid errors. Owing to the lens effect (the only one on the market), the symbol of the selected position is enlarged and is therefore perfectly identifiable and readable.



TOTAL SAFETY

The switch control can be padlocked preventing unauthorised persons from operating it incorrectly. This is extremely useful for maintenance work.



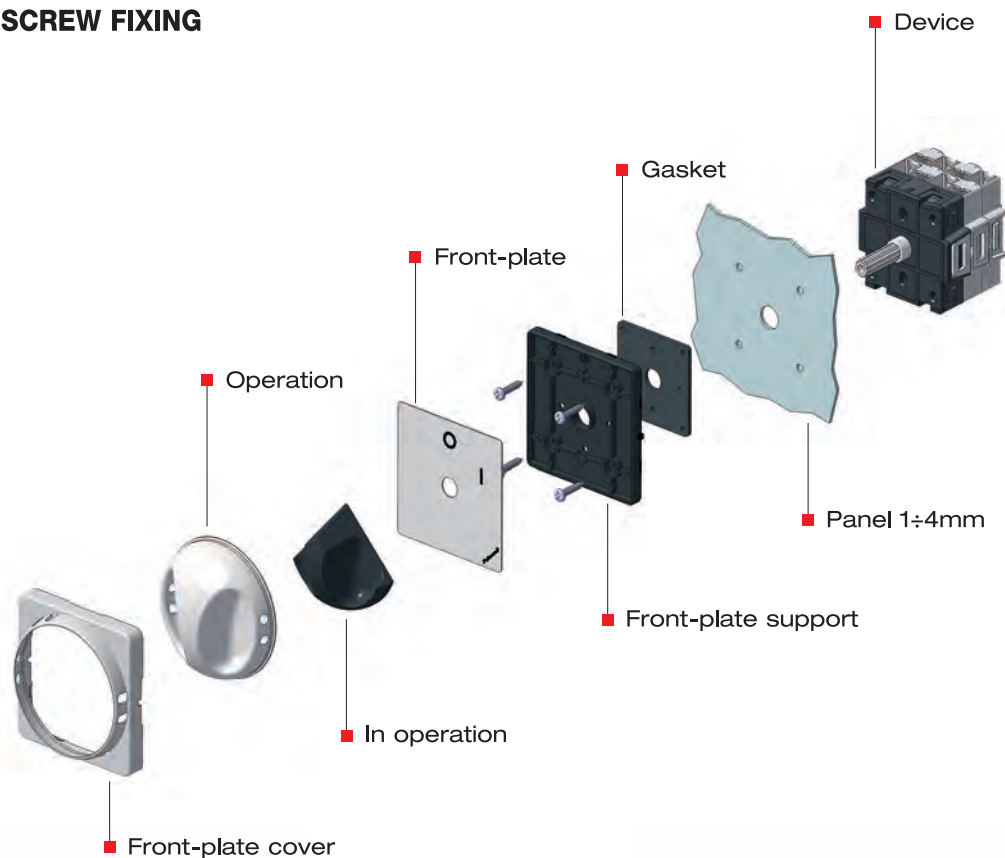
CAM-ST MULTI-LAYOUT CAM SWITCHES
TECHNICAL SPECIFICATIONS

CAM-ST compact switch			CAM-SZ 12	CAM-ST 16	CAM-ST 20	CAM-ST 25	CAM-ST 32	CAM-ST 40	CAM-ST 63	
Rated insulation voltage Ui			V	690	690	690	690	690	690	
Rated impulse seal voltage Uimp			kV	4	4	4	4	4	4	
Rated making capacity Icm			A	1500	1500	1500	1500	320	400	630
Rated breaking capacity			A	96	128	160	200	256	320	504
Protection against short-circuits										
Rated short time current (1 sec.) Icw			A	480	480	480	480	480	600	950
Conditional short-circuit current			kA	10	10	10	10	10	10	15
Max current of protection fuses (gI or aM)			A	12	16	20	25	32	40	63
Thermal and uninterrupted rated current Ith = Iu			A	12	16	20	25	32	40	63
Rated operating current Ie										
AC21A	400V	A	15	18	23	28	38	45	63	
	500V	A	12	16	20	25	32	40	63	
	690V	A	12	16	20	25	32	40	63	
AC22A	400V	A	15	18	23	28	38	45	63	
	500V	A	12	16	20	25	32	40	63	
	690V	A	12	16	20	25	32	40	63	
AC23A	230V	A	10	14	18	20	38	45	36	
3F	400V	A	10	14	18	20	32	40	36	
	600V	A	6	10	12	16	32	40	36	
AC23A	230V	kW	3,5	4,5	5,5	6,5	6,5	8,0	12,0	
3F	400V	kW	5,5	8,0	10,0	11,0	10,5	13,0	22,0	
	600V	kW	4,5	7,5	9,0	11,0	19,0	24,0	32,0	
AC3	230V	kW	2,5	4,0	5,5	6,0	6,5	8,0	12,0	
3F	400V	kW	4,5	6,5	8,0	10,0	10,5	13,0	22,0	
	600V	kW	5,0	8,0	10,0	13,0	19,0	24,0	32,0	
AC4	400V	kW	1,2	1,7	2,2	2,5	3,0	5,5	7,5	
Mechanical duration		N. oper.	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	
Frequency of the operations at rated current		oper. /hour	120	120	120	120	120	120	120	
Rigid wire section		(mm²)	1,5 - 6	1,5 - 6	1,5 - 6	1,5 - 6	2,5 - 16	2,5 - 16	2,5 - 16	
FLEXIBLE CABLE SECTION		(mm²)	1,5 - 6	1,5 - 6	1,5 - 6	1,5 - 6	2,5 - 16	2,5 - 16	2,5 - 16	
Tightening torque		No	1,5	1,5	1,5	1,5	3	3	3	
UL ratings										
1 PH	120V	HP	0,5	0,75	1	1	-	-	-	
	240V	HP	1	1,5	2	3	-	-	-	
3 PH	240V	HP	2	3	5	5	-	-	-	
	480V	HP	5	7,5	10	15	-	-	-	
	600V	HP	7,5	10	10	15	-	-	-	

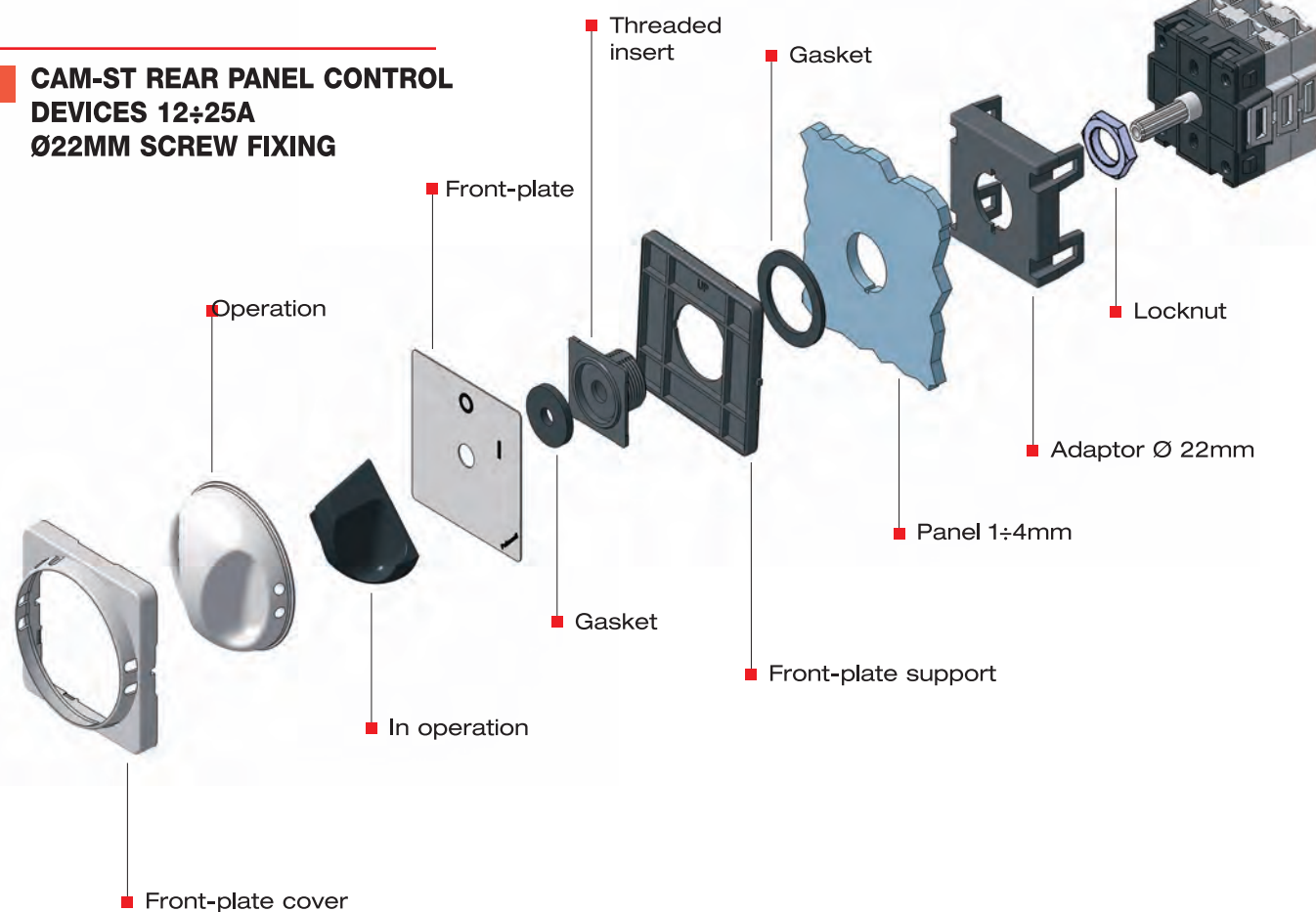




CAM-ST REAR PANEL 12÷63A SCREW FIXING



CAM-ST REAR PANEL CONTROL DEVICES 12÷25A Ø22MM SCREW FIXING





CAM-ST series		
PRODUCT SPECIFICATIONS		
Conformity to standards:	CEI EN 60947-3 CEI EN 60529	IEC 60947-3 IEC 60529
Operation category:	see table on page. 323	
Protection rating:	IP65 finishes	IP20 cores
Impact resistance:	> IK 08	
Glow wire test:	960°C	
Self-Extinguishing:	V0	
Temperature resistance:	Operating:	-25°C - +60°C
	Storage:	-40°C - +80°C
Homologations:	CE, UL, CSA, IMQ, R.I.Na RoHS compliant	

Switches



CAM-ST series
Switches with black knob
and grey plate. Rear panel finish
48x48. Front panel IP65 Terminals
IP20



Rated current (A)	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	1	1	0	210121	1
	2	1	1	210122	1
	3	2	2	210123	1
	4	2	3	210124	1
	5	3	43	210125	1
	6	3	44	210126	1
16	1	1	0	210161	1
	2	1	1	210162	1
	3	2	2	210163	1
	4	2	3	210164	1
	5	3	43	210165	1
	6	3	44	210166	1
20	1	1	0	210201	1
	2	1	1	210202	1
	3	2	2	210203	1
	4	2	3	210204	1
	5	3	43	210205	1
	6	3	44	210206	1
25	1	1	0	210251	1
	2	1	1	210252	1
	3	2	2	210253	1
	4	2	3	210254	1
	5	3	43	210255	1
	6	3	44	210256	1

Complementary items:
wall-mounting enclosures page 339
hole mounting adaptor page 339.

Switches



CAM-ST series
Switches with black knob
and grey plate. Rear panel finish
67x67. Front panel IP65 Terminals
IP20



Rated current (A)	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	1	1	0	211121	1
	2	1	1	211122	1
	3	2	2	211123	1
	4	2	3	211124	1
	5	3	43	211125	1
	6	3	44	211126	1
16	1	1	0	211161	1
	2	1	1	211162	1
	3	2	2	211163	1
	4	2	3	211164	1
	5	3	43	211165	1
	6	3	44	211166	1
20	1	1	0	211201	1
	2	1	1	211202	1
	3	2	2	211203	1
	4	2	3	211204	1
	5	3	43	211205	1
	6	3	44	211206	1
25	1	1	0	211251	1
	2	1	1	211252	1
	3	2	2	211253	1
	4	2	3	211254	1
	5	3	43	211255	1
	6	3	44	211256	1
32	1	1	0	212321	1
	2	1	1	212322	1
	3	2	2	212323	1
	4	2	3	212324	1
40	1	1	0	212401	1
	2	1	1	212402	1
	3	2	2	212403	1
	4	2	3	212404	1
63	1	1	0	212631	1
	2	1	1	212632	1
	3	2	2	212633	1
	4	2	3	212634	1

Complementary items:
wall-mounting enclosures page 339
hole mounting adaptor page 339.

Assembly diagrams
page 324

Contacts layouts
page 316

Dimensions
page 439



Switches



CAM-ST series
Switches
red **knob** and yellow **plate** rear
panel finish **67x67**
front panel IP65
terminals IP20
lockable in 0



Rated current (A)	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	3	2	2	214123	1
	4	2	3	214124	1
16	3	2	2	214163	1
	4	2	3	214164	1
20	3	2	2	214203	1
	4	2	3	214204	1
25	3	2	2	214253	1
	4	2	3	214254	1
32	3	2	2	214323	1
	4	2	3	214324	1
40	3	2	2	214403	1
	4	2	3	214404	1
63	3	2	2	214633	1
	4	2	3	214634	1

Complementary items:
wall-mounting enclosures page 339
hole mounting adaptor page 339.

Line selector switches



CAM-ST series
Line selector switches
self-return to 0
black **knob** and grey rear panel
finish front panel IP65
terminals IP20



Rated current (A)	Finish	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
16	48x48	3	3	45	360163	1
25	48x48	3	3	45	360253	1
16	67x67	3	3	45	361163	1
25	67x67	3	3	45	361253	1

Complementary items:
wall-mounting enclosures page 339
hole mounting adaptor page 339

Line selector switches



CAM-ST series
Line selector switches
black **knob** and grey rear panel
finish front panel IP65
terminals IP20



Rated current (A)	Finish	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	1	4	215121	1
	48x48	2	2	5	215122	1
	48x48	3	3	6	215123	1
	48x48	4	4	7	215124	1
16	48x48	1	1	4	215161	1
	48x48	2	2	5	215162	1
	48x48	3	3	6	215163	1
	48x48	4	4	7	215164	1
20	48x48	1	1	4	215201	1
	48x48	2	2	5	215202	1
	48x48	3	3	6	215203	1
	48x48	4	4	7	215204	1
25	48x48	1	1	4	215251	1
	48x48	2	2	5	215252	1
	48x48	3	3	6	215253	1
	48x48	4	4	7	215254	1
12	67x67	1	1	4	216121	1
	67x67	2	2	5	216122	1
	67x67	3	3	6	216123	1
	67x67	4	4	7	216124	1
16	67x67	1	1	4	216161	1
	67x67	2	2	5	216162	1
	67x67	3	3	6	216163	1
	67x67	4	4	7	216164	1
20	67x67	1	1	4	216201	1
	67x67	2	2	5	216202	1
	67x67	3	3	6	216203	1
	67x67	4	4	7	216204	1
25	67x67	1	1	4	216251	1
	67x67	2	2	5	216252	1
	67x67	3	3	6	216253	1
	67x67	4	4	7	216254	1
32	67x67	1	1	4	217321	1
	67x67	2	2	5	217322	1
	67x67	3	3	6	217323	1
	67x67	4	4	7	217324	1
40	67x67	1	1	4	217401	1
	67x67	2	2	5	217402	1
	67x67	3	3	6	217403	1
	67x67	4	4	7	217404	1
63	67x67	1	1	4	217631	1
	67x67	2	2	5	217632	1
	67x67	3	3	6	217633	1
	67x67	4	4	7	217634	1

Assembly diagrams
page 324

Contacts layouts
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page 439





Two-Way switches



CAM-ST series
Two-Way switches
black **knob** and **grey** rear panel
finish front panel IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	1	8	236121	1
	48x48	2	2	9	236122	1
	48x48	3	3	10	236123	1
16	48x48	1	1	8	236161	1
	48x48	2	2	9	236162	1
	48x48	3	3	10	236163	1
20	48x48	1	1	8	236201	1
	48x48	2	2	9	236202	1
	48x48	3	3	10	236203	1
25	48x48	1	1	8	236251	1
	48x48	2	2	9	236252	1
	48x48	3	3	10	236253	1
12	67x67	1	1	8	237121	1
	67x67	2	2	9	237122	1
	67x67	3	3	10	237123	1
16	67x67	1	1	8	237161	1
	67x67	2	2	9	237162	1
	67x67	3	3	10	237163	1
20	67x67	1	1	8	237201	1
	67x67	2	2	9	237202	1
	67x67	3	3	10	237203	1
25	67x67	1	1	8	237251	1
	67x67	2	2	9	237252	1
	67x67	3	3	10	237253	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
wall-mounting enclosures page 339
hole mounting adaptor page 339

Motor selector switches



CAM-ST series
Three-pole reversing switches
black **knob** and **grey** rear panel
finish front panel IP65
terminals IP20



Rated current (A)	Finish	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	3	12	221123	1
16	48x48	3	3	12	221163	1
20	48x48	3	3	12	221203	1
25	48x48	3	3	12	221253	1
12	67x67	3	3	12	222123	1
16	67x67	3	3	12	222163	1
20	67x67	3	3	12	222203	1
25	67x67	3	3	12	222253	1
32	67x67	3	3	12	223323	1
40	67x67	3	3	12	223403	1
63	67x67	3	3	12	223633	1

Complementary items:
wall-mounting enclosures page 339
hole mounting adaptor page 339



Motor selector switches



CAM-ST series
Single-phase reversing switches
Auxiliary phase
Automatic return
black knob and grey rear panel
finish front panel IP65
terminals IP20



Rated current (A)	Finish	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	2	3	40	224122	1
16	48x48	2	3	40	224162	1
20	48x48	2	3	40	224202	1
25	48x48	2	3	40	224252	1
12	67x67	2	3	40	225123	1
16	67x67	2	3	40	225163	1
20	67x67	2	3	40	225202	1
25	67x67	2	3	40	225252	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
wall-mounting enclosures page 339
hole mounting adaptor page 339



CAM-ST series
Dahlander pole selector switches black knob and grey rear
front panel finish IP65
terminals IP20



Rated current (A)	Finish	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	4	66	381123	1
16	48x48	3	4	66	381163	1
20	48x48	3	4	66	381203	1
25	48x48	3	4	66	381253	1
12	67x67	3	4	66	382123	1
16	67x67	3	4	66	382163	1
20	67x67	3	4	66	382203	1
25	67x67	3	4	66	382253	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
wall-mounting enclosures page 339
hole mounting adaptor page 339

Motor selector switches



CAM-ST series
Star/triangle starters
black knob and grey rear front
panel
finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	4	13	218123	1
16	48x48	3	4	13	218163	1
20	48x48	3	4	13	218203	1
25	48x48	3	4	13	218253	1
12	67x67	3	4	13	219123	1
16	67x67	3	4	13	219163	1
20	67x67	3	4	13	219203	1
25	67x67	3	4	13	219253	1
32	67x67	3	4	13	220323	1
40	67x67	3	4	13	220403	1
63	67x67	3	4	13	220633	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
wall-mounting enclosures page 339
hole mounting adaptor page 339



CAM-ST series
Star/triangle starters
Inversion
black knob and grey rear front
panel
finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	5	65	377123	1
16	48x48	3	5	65	377163	1
20	48x48	3	5	65	377203	1
25	48x48	3	5	65	377253	1
12	67x67	3	5	65	378123	1
16	67x67	3	5	65	378163	1
20	67x67	3	5	65	378203	1
25	67x67	3	5	65	378253	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
wall-mounting enclosures page 339
hole mounting adaptor page 339

Assembly diagrams
page 324

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page 316-317

Dimensions
page 438





Motor selector switches



CAM-ST series
Star-0-triangle starters
black knob and grey rear front
panel finish IP65
terminals IP20



Rated current (A)	Finish	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	4	71	379123	1
16	48x48	3	4	71	379163	1
20	48x48	3	4	71	379203	1
25	48x48	3	4	71	379253	1
12	67x67	3	4	71	380123	1
16	67x67	3	4	71	380163	1
20	67x67	3	4	71	380203	1
25	67x67	3	4	71	380253	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
wall-mounting enclosures page 339
hole mounting adaptor page 339



CAM-ST series
Switch for single-phase motor Auxiliary phase
black knob and grey rear front
panel finish IP65
terminals IP20



Rated current (A)	Finish	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	2	2	68	385122	1
16	48x48	2	2	68	385162	1
20	48x48	2	2	68	385202	1
25	48x48	2	2	68	385252	1
12	67x67	2	2	68	386122	1
16	67x67	2	2	68	386162	1
20	67x67	2	2	68	386202	1
25	67x67	2	2	68	386252	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
wall-mounting enclosures page 339
hole mounting adaptor page 339

Motor selector switches



CAM-ST series
Reversing switch
Self-return to 0
black knob and grey rear front
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	3	67	383123	1
16	48x48	3	3	67	383163	1
20	48x48	3	3	67	383203	1
25	48x48	3	3	67	383253	1
12	67x67	3	3	67	384123	1
16	67x67	3	3	67	384163	1
20	67x67	3	3	67	384203	1
25	67x67	3	3	67	384253	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
wall-mounting enclosures page 339
hole mounting adaptor page 339



CAM-ST series
Two-pole reversing switch
Condenser
black knob and grey rear front
panel finish IP65
terminals IP20



Rated current (A)	Finish	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	2	3	70	387122	1
16	48x48	2	3	70	387162	1
20	48x48	2	3	70	387202	1
25	48x48	2	3	70	387252	1
12	67x67	2	3	70	388122	1
16	67x67	2	3	70	388162	1
20	67x67	2	3	70	388202	1
25	67x67	2	3	70	388252	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
wall-mounting enclosures page 339
hole mounting adaptor page 339



Motor selector switches



CAM-ST series
Pole changing switch
black knob and grey rear front
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	4	15	226123	1
16	48x48	3	4	15	226163	1
20	48x48	3	4	15	226203	1
25	48x48	3	4	15	226253	1
12	67x67	3	4	15	227123	1
16	67x67	3	4	15	227163	1
20	67x67	3	4	15	227203	1
25	67x67	3	4	15	227253	1
32	67x67	3	4	15	228323	1
40	67x67	3	4	15	228403	1
63	67x67	3	4	15	228633	1

Complementary items:
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hole mounting adaptor page 339

Instrument selector switches



CAM-ST series
Voltmeter selector switches
3 line voltages
black knob and grey rear front
panel **48x48**
finish IP65
terminals IP20



Rated current (A)	Scheme CAM	Palazzoli code	Pack Q.ty
12	18	229120	1
16	18	229160	1
25	18	229250	1

Complementary items:
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wall-mounting enclosures page 339
hole mounting adaptor page 339



CAM-ST series
Voltmeter selector switches
Neutral-phase voltages
black knob and grey rear front
panel **48x48**
finish IP65
terminals IP20



Rated current (A)	Scheme CAM	Palazzoli code	Pack Q.ty
12	19	230120	1
16	19	230160	1
25	19	230250	1

Complementary items:
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Instrument selector switches



CAM-ST series
Voltmeter selector switches
3 line voltages + 2 phase voltages
black knob and grey rear front
panel **48x48**
finish IP65
terminals IP20



Rated current (A)	Scheme CAM	Palazzoli code	Pack Q.ty
12	41	231120	1
16	41	231160	1

Complementary items:
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wall-mounting enclosures page 339
hole mounting adaptor page 339

Instrument selector switches



CAM-ST series
Voltmeter selector switches
3 line voltages + 1 phase voltages
black knob and grey rear front
panel **48x48**
finish IP65
terminals IP20



Rated current (A)	Scheme CAM	Palazzoli code	Pack Q.ty
12	42	234120	1
16	42	234160	1
25	42	234250	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
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hole mounting adaptor page 339



CAM-ST series
Voltmeter selector switches
3 line voltages + 3 phase voltages
black knob and grey rear front
panel **48x48**
finish IP65
terminals IP20



Rated current (A)	Scheme CAM	Palazzoli code	Pack Q.ty
12	35	233120	1
16	35	233160	1
25	35	233250	1

Complementary items:
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CAM-ST series
Ammeter selector switches
Single-pole for 3 reduction units
black knob and grey rear front
panel **48x48**
finish IP65
terminals IP20



Rated current (A)	Scheme CAM	Palazzoli code	Pack Q.ty
12	75	235120	1
16	75	235160	1
20	75	235200	1
25	75	235250	1

Complementary items:
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Instrument selector switches



CAM-ST series
Ammeter selector switches
Two-poles
black knob and grey rear front
panel **48x48**
finish IP65
terminals IP20



Rated current (A)	Scheme CAM	Palazzoli code	Pack Q.ty
12	74	390120	1
16	74	390160	1
20	74	390200	1
25	74	390250	1

Complementary items:
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hole mounting adaptor page 339

Instrument selector switches



CAM-ST series
Ammeter selector switches
Single-pole for 4 reduction unit
black knob and grey rear front
panel **48x48**
finish IP65
terminals IP20



Rated current (A)	Scheme CAM	Palazzoli code	Pack Q.ty
12	72	392120	1
16	72	392160	1
20	72	392200	1
25	72	392250	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
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hole mounting adaptor page 339



CAM-ST series
Ammeter selector switches
Single-pole for 1 reduction unit
black knob and grey rear front
panel **48x48**
finish IP65
terminals IP20



Rated current (A)	Scheme CAM	Palazzoli code	Pack Q.ty
12	73	391120	1
16	73	391160	1
20	73	391200	1
25	73	391250	1

Complementary items:
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Adder selector switches



CAM-ST series
Adders
black knob and grey rear front
panel **48x48**
finish IP65
terminals IP20



Rated current (A)	Scheme CAM	Palazzoli code	Pack Q.ty
16	64	376161	1
25	64	376251	1

Complementary items:
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wall-mounting enclosures page 339
hole mounting adaptor page 339

Adder selector switches



CAM-ST series
Single-pole 4-way selector switches
black knob and grey rear front
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	2	48	364121	1
16	48x48	1	2	48	364161	1
20	48x48	1	2	48	364201	1
25	48x48	1	2	48	364251	1
12	67x67	1	2	48	365121	1
16	67x67	1	2	48	365161	1
20	67x67	1	2	48	365201	1
25	67x67	1	2	48	365251	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
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hole mounting adaptor page 339

CAM-ST series
Single-pole 3-way selector switches
black knob and grey rear front
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	2	47	362121	1
16	48x48	1	2	47	362161	1
20	48x48	1	2	47	362201	1
25	48x48	1	2	47	362251	1
12	67x67	1	2	47	363121	1
16	67x67	1	2	47	363161	1
20	67x67	1	2	47	363201	1
25	67x67	1	2	47	363251	1

Complementary items:
base panel mounting adaptor and DIN rail page 339
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CAM-ST series
Two-pole 4-way selector switches
black knob and grey rear front
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	2	4	49	364122	1
16	48x48	2	4	49	364162	1
20	48x48	2	4	49	364202	1
25	48x48	2	4	49	364252	1
12	67x67	2	4	49	365122	1
16	67x67	2	4	49	365162	1
20	67x67	2	4	49	365202	1
25	67x67	2	4	49	365252	1

Complementary items:
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Multi-way selector switches



CAM-ST series
Three-pole 4-way selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	6	50	364123	1
16	48x48	3	6	50	364163	1
20	48x48	3	6	50	364203	1
25	48x48	3	6	50	364253	1
12	67x67	3	6	50	365123	1
16	67x67	3	6	50	365163	1
20	67x67	3	6	50	365203	1
25	67x67	3	6	50	365253	1

Complementary items:
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CAM-ST series
Single-pole 5-way selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishings	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	3	46	366121	1
16	48x48	1	3	46	366161	1
20	48x48	1	3	46	366201	1
25	48x48	1	3	46	366251	1
12	67x67	1	3	46	367121	1
16	67x67	1	3	46	367161	1
20	67x67	1	3	46	367201	1
25	67x67	1	3	46	367251	1

Complementary items:
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Multi-way selector switches



CAM-ST series
Single-pole 6-way selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishings	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	3	51	368121	1
16	48x48	1	3	51	368161	1
20	48x48	1	3	51	368201	1
25	48x48	1	3	51	368251	1
12	67x67	1	3	51	369121	1
16	67x67	1	3	51	369161	1
20	67x67	1	3	51	369201	1
25	67x67	1	3	51	369251	1

Complementary items:
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CAM-ST series
Single-pole 2-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishings	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	1	39	238121	1
16	48x48	1	1	39	238161	1
20	48x48	1	1	39	238201	1
25	48x48	1	1	39	238251	1
12	67x67	1	1	39	240121	1
16	67x67	1	1	39	240161	1
20	67x67	1	1	39	240201	1
25	67x67	1	1	39	240251	1

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Multi-way selector switches



CAM-ST series
Two-pole 2-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	2	2	52	238122	1
16	48x48	2	2	52	238162	1
20	48x48	2	2	52	238202	1
25	48x48	2	2	52	238252	1
12	67x67	2	2	52	240122	1
16	67x67	2	2	52	240162	1
20	67x67	2	2	52	240202	1
25	67x67	2	2	52	240252	1

Complementary items:
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hole mounting adaptor page 339



CAM-ST series
Three-pole 2-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	3	53	238123	1
16	48x48	3	3	53	238163	1
20	48x48	3	3	53	238203	1
25	48x48	3	3	53	238253	1
12	67x67	3	3	53	240123	1
16	67x67	3	3	53	240163	1
20	67x67	3	3	53	240203	1
25	67x67	3	3	53	240253	1

Complementary items:
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Multi-way selector switches



CAM-ST series
Single-pole 3-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	2	78	241121	1
16	48x48	1	2	78	241161	1
20	48x48	1	2	78	241201	1
25	48x48	1	2	78	241251	1
12	67x67	1	2	78	242121	1
16	67x67	1	2	78	242161	1
20	67x67	1	2	78	242201	1
25	67x67	1	2	78	242251	1

Complementary items:
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CAM-ST series
Two-pole 3-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	2	3	54	241122	1
16	48x48	2	3	54	241162	1
20	48x48	2	3	54	241202	1
25	48x48	2	3	54	241252	1
12	67x67	2	3	54	242122	1
16	67x67	2	3	54	242162	1
20	67x67	2	3	54	242202	1
25	67x67	2	3	54	242252	1

Complementary items:
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Multi-way selector switches



CAM-ST series
Three-pole 3-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishings	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	5	55	241123	1
16	48x48	3	5	55	241163	1
20	48x48	3	5	55	241203	1
25	48x48	3	5	55	241253	1
12	67x67	3	5	55	242123	1
16	67x67	3	5	55	242163	1
20	67x67	3	5	55	242203	1
25	67x67	3	5	55	242253	1

Complementary items:
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CAM-ST series
Single-pole 4-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishings	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	3	79	243121	1
16	48x48	1	3	79	243161	1
20	48x48	1	3	79	243201	1
25	48x48	1	3	79	243251	1
12	67x67	1	3	79	244121	1
16	67x67	1	3	79	244161	1
20	67x67	1	3	79	244201	1
25	67x67	1	3	79	244251	1

Complementary items:
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Multi-way selector switches



CAM-ST series
Two-pole 4-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishings	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	2	4	56	243122	1
16	48x48	2	4	56	243162	1
20	48x48	2	4	56	243202	1
25	48x48	2	4	56	243252	1
12	67x67	2	4	56	244122	1
16	67x67	2	4	56	244162	1
20	67x67	2	4	56	244202	1
25	67x67	2	4	56	244252	1

Complementary items:
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CAM-ST series
Three-pole 4-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishings	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	6	57	243123	1
16	48x48	3	6	57	243163	1
20	48x48	3	6	57	243203	1
25	48x48	3	6	57	243253	1
12	67x67	3	6	57	244123	1
16	67x67	3	6	57	244163	1
20	67x67	3	6	57	244203	1
25	67x67	3	6	57	244253	1

Complementary items:
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Multi-way selector switches



CAM-ST series
Single-pole 5-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	3	58	370121	1
16	48x48	1	3	58	370161	1
20	48x48	1	3	58	370201	1
25	48x48	1	3	58	370251	1
12	67x67	1	3	58	371121	1
16	67x67	1	3	58	371161	1
20	67x67	1	3	58	371201	1
25	67x67	1	3	58	371251	1

Complementary items:
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CAM-ST series
Two-pole 5-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	2	5	59	370122	1
16	48x48	2	5	59	370162	1
20	48x48	2	5	59	370202	1
25	48x48	2	5	59	370252	1
12	67x67	2	5	59	371122	1
16	67x67	2	5	59	371162	1
20	67x67	2	5	59	371202	1
25	67x67	2	5	59	371252	1

Complementary items:
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Multi-way selector switches



CAM-ST series
Three-pole 5-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	3	8	60	370123	1
16	48x48	3	8	60	370163	1
20	48x48	3	8	60	370203	1
25	48x48	3	8	60	370253	1
12	67x67	3	8	60	371123	1
16	67x67	3	8	60	371163	1
20	67x67	3	8	60	371203	1
25	67x67	3	8	60	371253	1

Complementary items:
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CAM-ST series
Two-pole 6-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	3	61	372121	1
16	48x48	1	3	61	372161	1
20	48x48	1	3	61	372201	1
25	48x48	1	3	61	372251	1
12	67x67	1	3	61	373121	1
16	67x67	1	3	61	373161	1
20	67x67	1	3	61	373201	1
25	67x67	1	3	61	373251	1

Complementary items:
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Multi-way selector switches



CAM-ST series
Two-pole 6-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	2	6	62	372122	1
16	48x48	2	6	62	372162	1
20	48x48	2	6	62	372202	1
25	48x48	2	6	62	372252	1
12	67x67	2	6	62	373122	1
16	67x67	2	6	62	373162	1
20	67x67	2	6	62	373202	1
25	67x67	2	6	62	373252	1

Complementary items:
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Multi-way selector switches



CAM-ST series
Single-pole 7-way + 0 selector switches
black knob **and** grey rear **front**
panel finish IP65
terminals IP20



Rated current (A)	Finishes	Poles	No. disks	Scheme CAM	Palazzoli code	Pack Q.ty
12	48x48	1	4	63	374121	1
16	48x48	1	4	63	374161	1
20	48x48	1	4	63	374201	1
25	48x48	1	4	63	374251	1
12	67x67	1	4	63	375121	1
16	67x67	1	4	63	375161	1
20	67x67	1	4	63	375201	1
25	67x67	1	4	63	375251	1

Complementary items:
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TECHNICAL ACCESSORIES



CAM-ST series
Base panel mounting adaptor
and DIN rail page

For control devices type	Palazzoli code	Pack Q.ty
CAM-ST rear panel screw fixing 12-25A	270236	1
CAM-ST rear panel screw fixing 32-63A	270243	1

Complementary items:
the adaptor is applied after the wiring on the selector switch device.



CAM-ST series
Extension shaft for rear panel
devices screw fixing

For control devices type	Lenght (mm)	Manufacture material	Palazzoli code	Pack Q.ty
CAM-ST 12-25A	225	ANTICORODAL	271225	1
	350	ANTICORODAL	271350	1
	500	ANTICORODAL	271500	1
CAM-ST 32-63A	225	ANTICORODAL	274225	1
	350	ANTICORODAL	274350	1
	500	ANTICORODAL	274500	1



CAM-ST series
Wall-mounted enclosure with
provision for front panel control of
a rear panel device screw fixing
IP65

External dimensions (mm)	Max no. of installable disks	Palazzoli code	Pack Q.ty
121x158x107	6 from 12÷25A 3 from 32÷40A	270247	1



CAM-ST series
Blind wall-mounted enclosure
suitable for fitting
a maximum of 2 rear panel devices
screw or hole fixing
IP65

External dimensions (mm)	Max no. of installable disks	Palazzoli code	Pack Q.ty
121x158x107	6 from 12÷25A 3 from 32÷40A	270248	1



CAM-ST series
Adaptor for mounting devices from
12A to 25A with screw fixing on a
22 mm Ø hole

Front-plate dimensions (mm)	Colour	Palazzoli code	Pack Q.ty
48x48	● black	270237	1
67x67	● black	270239	1
	● yellow ● red	270240	1



RoHS
Compliant

AC3 10kA
GUARANTEED

**Highly
inductive
loads**

CAM-SZ Series

Section the System Multiply Safety

Disconnecting control
devices and for
emergencies

TECHNIQUE

The CAM-SZ is designed and built for the operator who has to section the industrial electrical systems for safety and functional reasons. CAM-SZ ensures the powering down of the entire or partial system, dividing it safely from any electrical power supply. CAM-SZ is category AC23A – AC3 is suitable even for highly inductive loads. It is the only one applicable to cage motors (best known as rotary motors, widely used for Industrial and Automation systems) for their start or stop during the rotation. CAM-SZ has IP65 watertight front panel, rated current up to 100A and with maximum operating voltage of $U_n=690V_{ca}$. The contact holding disk is made of totally

self-extinguishing technopolymers, with the Glow-Wire Test at $960^{\circ}C$ (UL94 – V0) and resistance to creeping currents higher than 600V.

Trademarks, symbols, awards

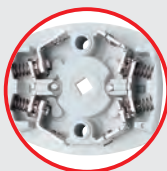


THE ADVANTAGES



UNBEATABLE

An AC23A – AC3 utilisation category, conditional short circuit current 10,000A and guaranteed isolation are some of the few superbly performing features of the isolator switches. At the maximum level of what the market offers today. They allow direct control of even highly inductive loads (such as pumps, exhaust fans, mills, compressors, etc.) and eliminate costly machine shutdowns with a subsequent increase in the system's production.



HIGH ELECTRICAL PERFORMANCES

The contacts in silver alloy are double-break. Each "disk" holds two complete contacts with high connecting and disconnecting power. It does not lose any ampere even years later.



DIVIDES THE SYSTEM AND MULTIPLIES SAFETY

CAM-SZ is suitable for highly inductive loads. It is the only one applicable to cage motors (best known as rotary motors, widely used for Industrial and Automation systems) for their start or stop during the rotation.



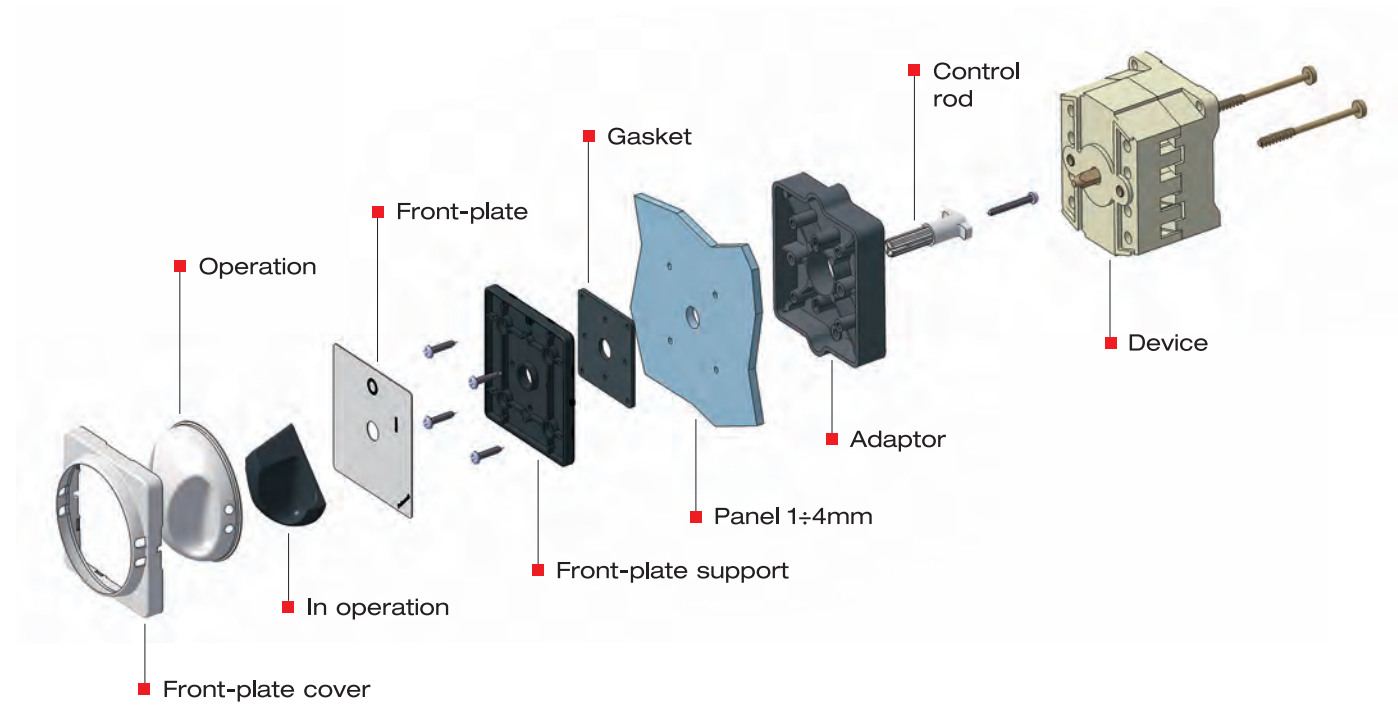


CAM-ST SERIES ISOLATOR SWITCHES
TECHNICAL SPECIFICATIONS

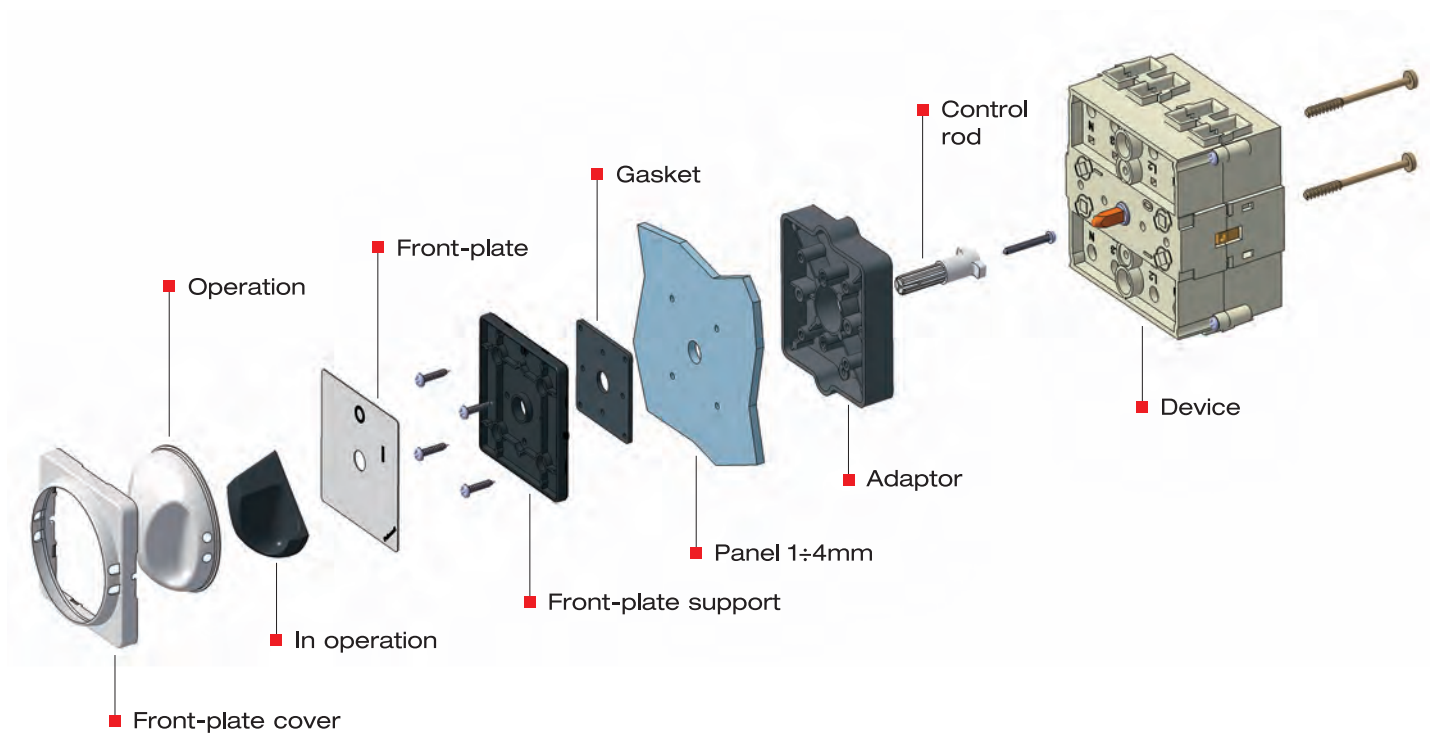
CAM-SZ Isolator-switch			CAM-SZ 16	CAM-SZ 25	CAM-SZ 32	CAM-SZ 40	CAM-SZ 63	CAM-SZ 100	
Rated insulation voltage Ui			V	500	500	500	690	690	690
Rated impulse seal voltage Uimp			kV	4	4	4	4	4	4
Rated closing capacity			A	160	250	320	880	1380	2200
Rated breaking capacity			A	125	200	256	690	1100	1750
Protection against short-circuits									
Rated short time current (1 sec.)			A	240	375	480	4800	7500	1200
Conditional short-circuit current			kA	10	10	10	10	10	10
Max current of protection fuses (gl or aM)			A	16	25	32	40	63	100
Thermal and uninterrupted rated current Ith = Iu			A	16	25	32	40	63	100
Rated operating current Ie									
AC20	230V	A	16	25	32	50	80	100	
	400V	A	16	25	32	40	63	100	
	500V	A	16	25	32	40	63	100	
AC21A	230V	A	16	25	32	50	80	100	
	400V	A	16	25	32	40	63	100	
	500V	A	16	25	32	40	63	100	
AC22A	230V	A	16	25	32	50	80	100	
	400V	A	16	25	32	40	63	100	
	500V	A	16	25	32	40	63	100	
AC23A 3F	230V	A	16	25	32	40	50	63	
	400V	A	16	25	32	40	50	63	
	500V	A	16	25	32	40	50	63	
	690V	A	-	-	-	40	50	63	
AC23A 3F	230V	kW	4	6,5	8,5	10	12	20	
	400V	kW	7,5	11,5	15	16	21	34	
	500V	kW	8,5	13	17	18	28	44	
	690V	kW	-	-	-	20	32	50	
AC3	3F230V	kW	4	6,5	8,5	9	10	16	
	400V	kW	7,5	11,5	15	16	17	28	
	500V	kW	8,5	13	17	18	22	36	
	690V	kW	-	-	-	20	25	40	
AC4	230V	kW	3	4,5	6	-	-	-	
	400V	kW	5	7,5	10	-	-	-	
	500V	kW	6,5	10	13	-	-	-	
Use in direct current									
DC21A	Rated operating current Ie	A	16	25	32	40	63	100	
	Max voltage for each pole in series	V	60	60	60	60	60	60	
DC21A	Rated operating current Ie	A	16	25	32	32	40	63	
	Max voltage for each pole in series	V	48	48	48	60	60	60	
DC21A	Rated operating current Ie	A	16	25	32	32	37	40	
	Max voltage for each pole in series	V	30	30	30	30	30	30	
Mechanical duration		N.oper.	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	
Frequency of the operations at rated current		oper. /hour	120	120	120	120	120	120	
Rigid wire section		(mm²)	1-6	1-6	1-6	10-35	10-35	10-35	
Flexible cable section		(mm²)	1-10	1-10	1-10	10-35	10-35	10-35	
Tightening torque		No	2	2	2	3	3	3	



CAM-SZ REAR PANEL ISOLATOR SWITCHES 16÷32A SCREW FIXING

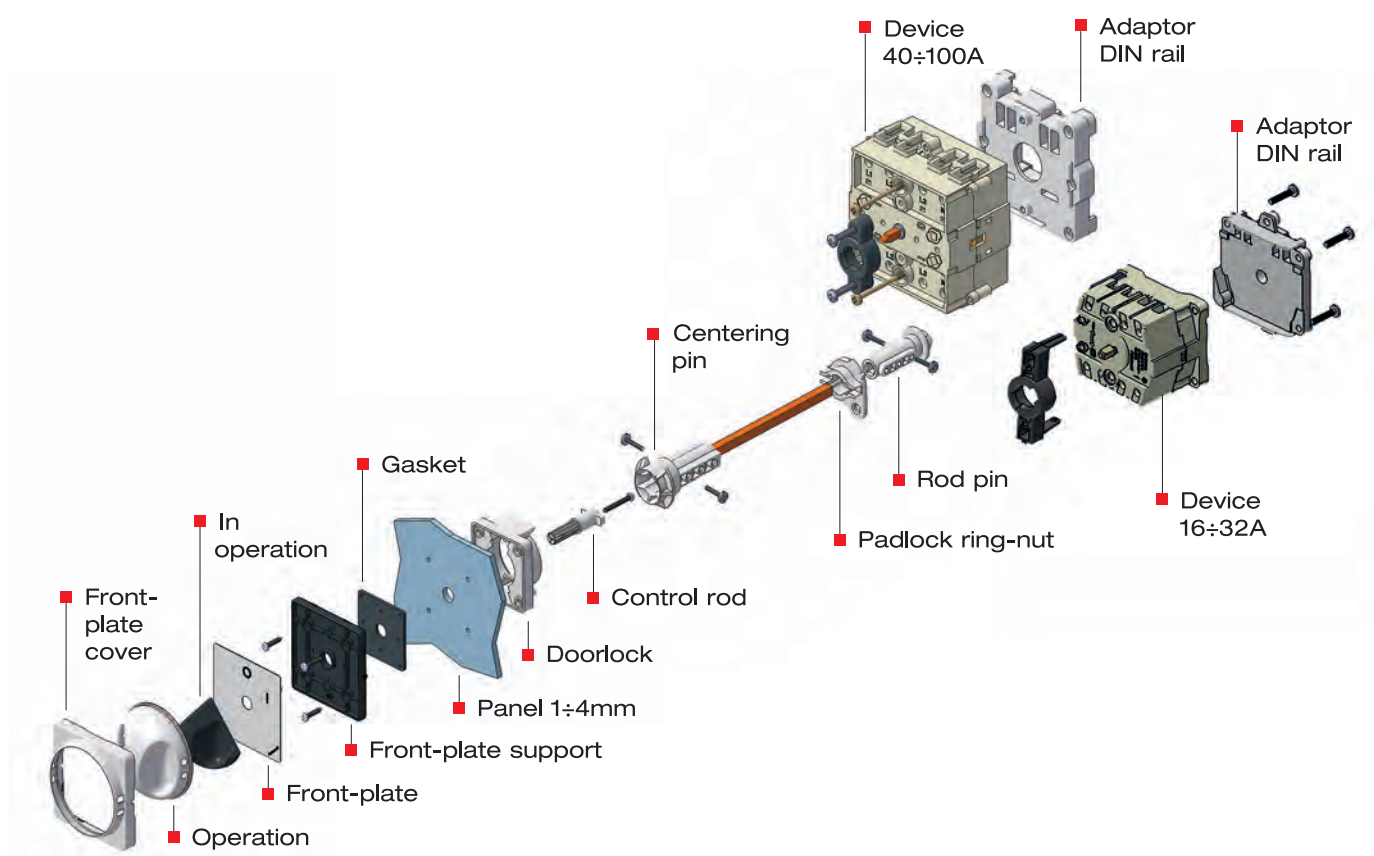


CAM-SZ REAR PANEL ISOLATOR SWITCHES 40÷100A SCREW FIXING

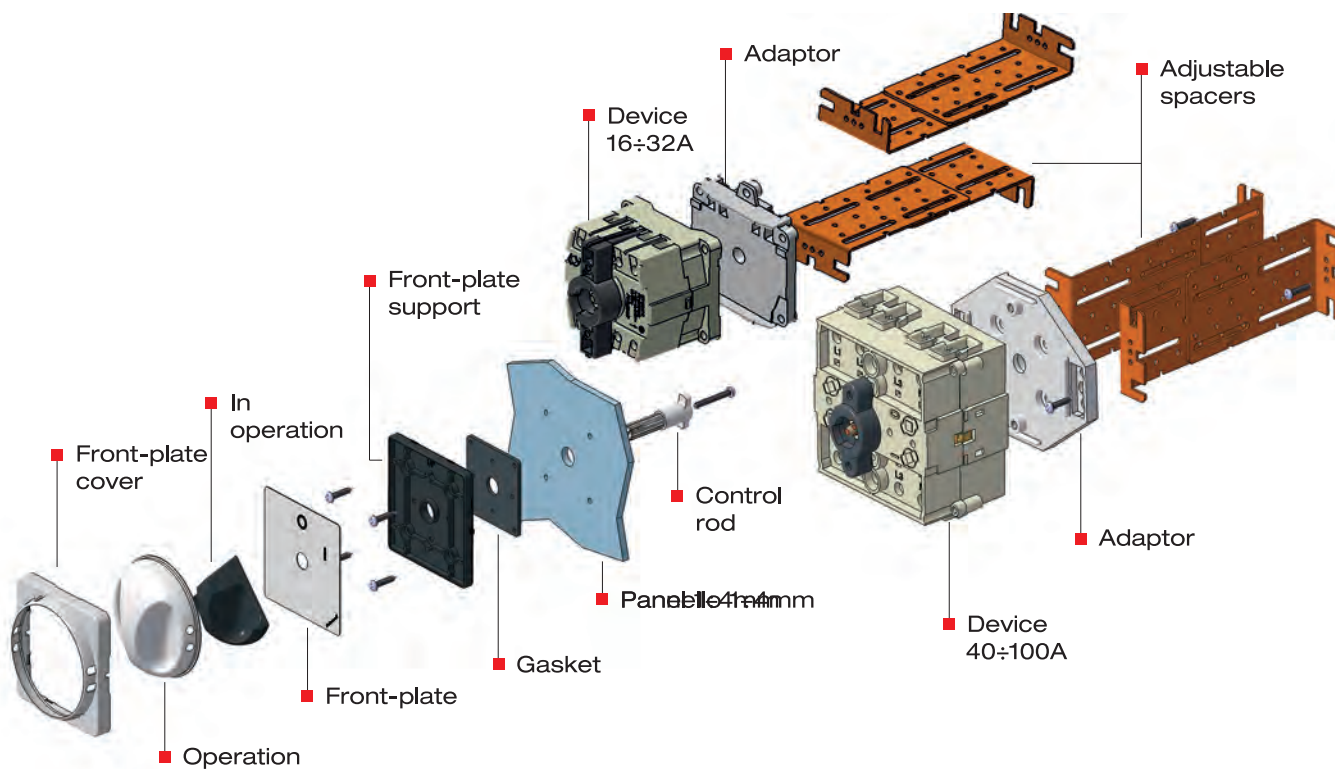




CAM-SZ REAR PANEL ISOLATOR SWITCHES 16÷32A / 40÷100A WITH ROD KIT

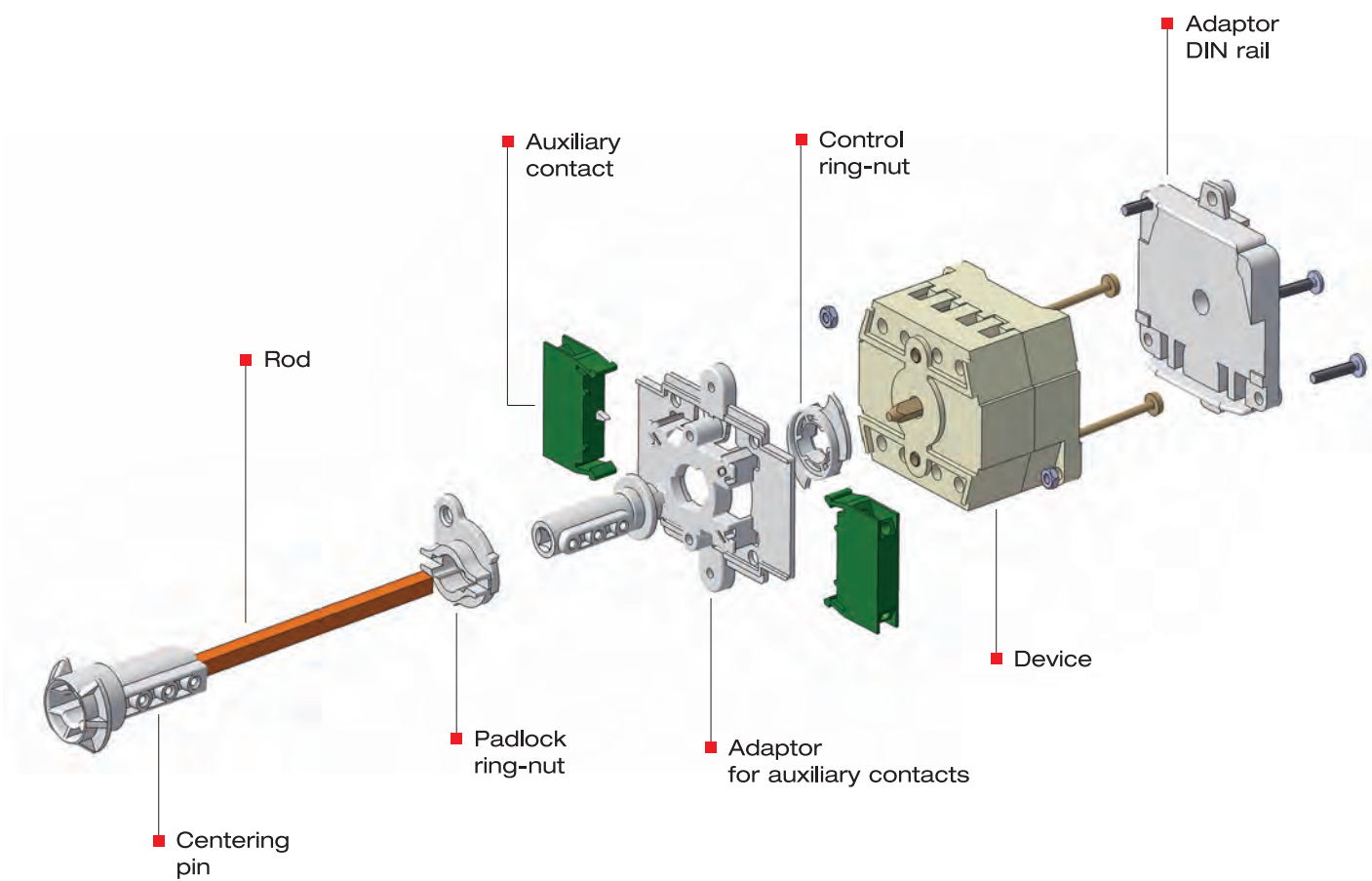


CAM-SZ REAR PANEL ISOLATOR SWITCHES 16÷32A / 40÷100A WITH SPACER

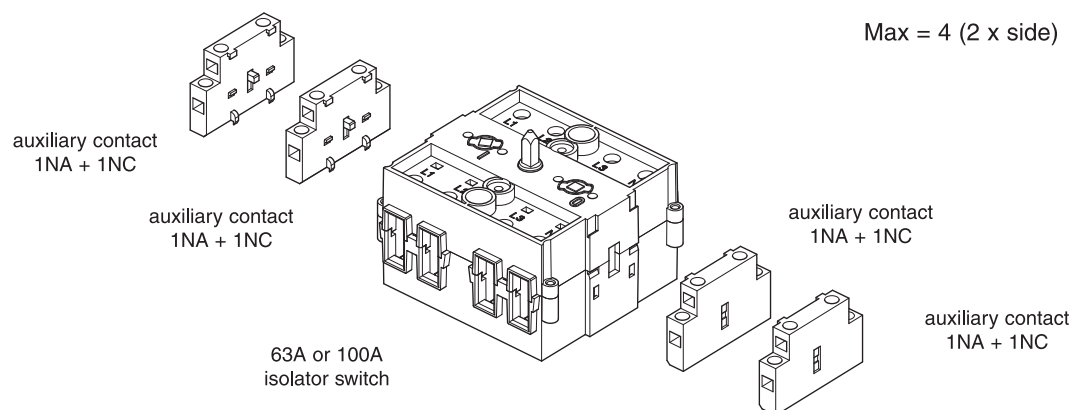




CAM-SZ WALL-MOUNTED AND REAR PANEL ISOLATOR SWITCHES 16÷32A MOUNTING AUXILIARIES



Auxiliary contact fixing layout





CAM-SZ series

PRODUCT SPECIFICATIONS

Conformity to standards:	CEI EN 60947-3	IEC 60947-3
	CEI EN 60529	IEC 60529
Operation category:	see table on page. 341	
Protection rating:	IP65 finishes	IP20 cores
Impact resistance:	> IK 08	
Glow wire test:	960°C	
Self-Extinguishing:	V0	
Temperature resistance:	Operating:	-25°C - +60°C
	Storage:	-40°C - +80°C
Homologations:	CE, IMQ, UL	
	RoHS compliant	



CAM-SZ Series
Rear panel emergency isolator switches with **red knob and yellow plate**. Rear panel finish 67x67 IP65



Rated current (A)	Poles	Scheme CAM	Palazzoli code	Pack Q.ty
16	2	1	267162	1
	3	2	267163	1
	4	3	267164	1
25	3	2	267253	1
	4	3	267254	1
32	2	1	267322	1
	3	2	267323	1
	4	3	267324	1
40	3	2	267403	1
	4	3	267404	1
63	2	1	267632	1
	3	2	267633	1
	4	3	267634	1
100	3	2	267103	1
	4	3	267104	1

Characteristics

IP20 clamps for cable fastening without having to prepare wires in advance or use terminals.

Complementary items

auxiliary contacts on page 347
adapter for mounting auxiliary contacts page 347
extension shafts page 347
terminal cover cap page 347
Spacer kit page 347



CAM-SZ Series
Rear panel isolator switches with **black knob and grey plate**. Rear panel finish 67x67 IP65

Rated current (A)	Poles	Scheme CAM	Palazzoli code	Pack Q.ty
16	2	1	268162	1
	3	2	268163	1
	4	3	268164	1
25	3	2	268253	1
	4	3	268254	1
32	2	1	268322	1
	3	2	268323	1
	4	3	268324	1
40	3	2	268403	1
	4	3	268404	1
63	2	1	268632	1
	3	2	268633	1
	4	3	268634	1
100	3	2	268103	1
	4	3	268104	1

Characteristics

IP20 clamps for cable fastening without having to prepare wires in advance or use terminals.

Complementary items

auxiliary contacts on page 347
adapter for mounting auxiliary contacts page 347
extension shafts page 347
terminal cover cap page 347
Spacer kit page 347

REAR, BASE PANEL AND
WALL-MOUNTED ISOLATOR SWITCHES



CAM-SZ Series
Base panel isolator switches
with emergency doorlock
with red **knob** and yellow **plate**.
Rear panel finish 67x67
IP65



Rated current (A)	Poles	Scheme CAM	Palazzoli code	Pack Q.ty
16	2	1	265162	1
	3	2	265163	1
	4	3	265164	1
25	3	2	265253	1
	4	3	265254	1
32	2	1	265322	1
	3	2	265323	1
	4	3	265324	1
40	3	2	265403	1
	4	3	265404	1
63	2	1	265632	1
	3	2	265633	1
	4	3	265634	1
100	3	2	265103	1
	4	3	265104	1

Characteristics
IP20 clamps for cable fastening without having to prepare wires in advance or use terminals.

Uses
Direct mounting on plate using screws or on EN50022 rail.

Complementary items
auxiliary contacts on page 347
adapter for mounting auxiliary contacts page 347
extension shafts page 347
terminal cover cap page 347
spacer kit page 347



CAM-SZ Series
Base panel isolator switches
with doorlock with black **knob**
and grey **plate**.
Rear panel finish 67x67
IP65



Rated current (A)	Poles	Scheme CAM	Palazzoli code	Pack Q.ty
16	2	1	266162	1
	3	2	266163	1
	4	3	266164	1
32	2	1	266322	1
	3	2	266323	1
	4	3	266324	1
63	2	1	266632	1
	3	2	266633	1
	4	3	266634	1
100	3	2	266103	1
	4	3	266104	1

Characteristics
IP20 clamps for cable fastening without having to prepare wires in advance or use terminals.

Uses
Direct mounting on plate using screws or on EN50022 rail.

Complementary items
auxiliary contacts on page 347
adapter for mounting auxiliary contacts page 347
extension shafts page 347
terminal cover cap page 347
spacer kit page 347

CAM SZ ISOLATOR SWITCHES



CAM-SZ Series
Auxiliary contacts for base panel
isolator switches with doorlock
and for walls

Rated current (A)	For control devices tipo	Contact type	Palazzoli code	Pack Q.ty
16	isolator switches 16-32A	1 NC retarded	270226	1
	isolator switches 16-32A	1 NA anticipated	270227	1
	isolator switches 16-32A	1 NC	270230	1
	isolator switches 16-32A	1 NA	270231	1
	isolator switches 16-32A	1NA+1NC	270232	1
	isolator switches 40-100A	1NA+1NC	200016	1

Characteristics
adaptor kit code 270235 is needed for mounting auxiliary contacts from 16A to 32A. 270235. The code 200016 can also be used for rear panel applications from 40A to 100A.

Uses
you can reposition the main contacts from a distance.



CAM-SZ Series
Adaptor for mounting auxiliary
contacts to the base panel 16A
and 32A isolator switches with
doorlock and for walls

For control devices type	Palazzoli code	Pack Q.ty
isolator switches 16-32A	270235	1



CAM-SZ Series
Extension shaft for mounting base
panel isolator switches with
doorlock from 16A to 100A

Lenght (mm)	Manufacture material	Palazzoli code	Pack Q.ty
225	ANTICORODAL	270225	1
350	ANTICORODAL	270350	1
500	ANTICORODAL	270500	1



CAM-SZ Series
Terminal cover cap for isolator
switches

For control devices type	Palazzoli code	Pack Q.ty
isolator switches 16-32A	270241	1
isolator switches 40-100A	270242	1



CAM-SZ Series
Adjustable spacer support kit for
fixing base panel control devices
with doorlock in tropicalised
galvanised steel

Min. lenght (mm)	Max. lenght (mm)	Palazzoli code	Pack Q.ty
96,5	168,5	270900	10

Characteristics
it is composed of 4 equal squares in zinc-plated steel with self-threading screws and washers.

Uses
it is used for fixing devices in the right position and height for correct coupling with the control applied to the hatch.

Rear panel and inset devices screw fixing



CAM 351
Switches In up to 1200A - IP65



CAM 351
Line selector switches
In up to 63A - IP65



CAM 352
Motor selector switches
In up to 200A - IP65



CAM 355
Instrument selector switches
In 16A - IP65



CAM 356
Multi-ways with and without pos. 0
In up to 25A IP65



CAM 358
Two-way switches In 16A - IP65



CAM 358
Technical accessories



CAM 359
Knobs for rear panel devices



CAM 359
Knobs for inset devices



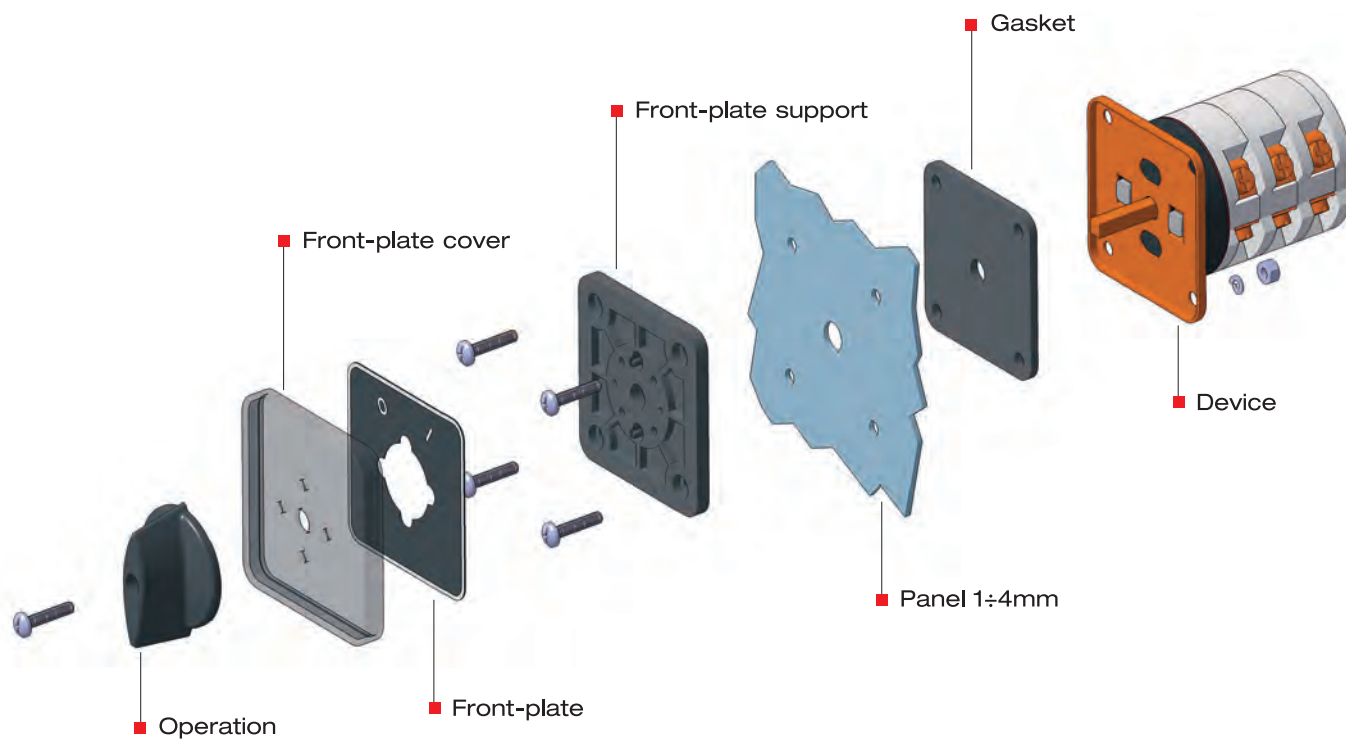
CAM SERIES SWITCHES
TECHNICAL SPECIFICATIONS

CAM heavy duty switch		CAM 16	CAM 25	CAM 40	CAM 63	CAM 100	CAM 125	CAM 200	CAM 400	CAM 600	CAM 800	CAM 1200
Rated insulation voltage Ui	V	500	500	500	500	500	500	500	500	500	500	500
Rated impulse seal voltage Uimp	kV	4	4	4	4	4	4	4	4	4	4	4
Rated closing capacity	A	160	250	400	630	1000	1250	1250	1250	1250	1250	1250
Rated breaking capacity	A	128	200	320	504	800	1000	1000	1000	1000	1000	1000
Protection against short-circuits												
Rated short time current (1 sec.)	A	240	380	600	950	1500	2000	3000	3000	3000	3000	3000
Conditional short-circuit current	kA	10	10	10	15	15	15	15	15	15	15	15
Max current of protection fuses (gl or aM)	A	16	25	40	63	100	125	200	400	600	800	1200
Thermal and uninterrupted rated current Ith = Iu	A	16	25	40	63	100	125	200	400	600	800	1200
Rated operating current Ie												
AC23A	415V	A	16	25	40	63	100	125	200	-	-	-
	500V	A	16	25	40	63	100	125	200	-	-	-
	690V	A	16	25	40	63	100	125	200	-	-	-
AC22A	415V	A	16	25	40	63	100	125	200	-	-	-
	500V	A	16	25	40	63	100	125	200	-	-	-
	690V	A	16	25	40	63	100	125	200	-	-	-
AC23A	230V	A	16	25	40	63	100	125	200	-	-	-
	400V	A	16	25	40	63	100	125	200	-	-	-
	500V	A	16	25	40	63	100	125	200	-	-	-
AC23A	230V	kW	4,5	7	11	20	26	30	30	-	-	-
	400V	kW	7,5	12	19	34	45	52	52	-	-	-
	500V	kW	10	14	23	44	56	64	64	-	-	-
AC3A	230V	kW	4,5	7	11	18	26	30	30	-	-	-
	400V	kW	7,5	12	19	31	45	52	52	-	-	-
	500V	kW	10	14	23	40	56	64	64	-	-	-
AC4	230V	kW	3,5	5	8	13	14	14	14	-	-	-
	400V	kW	6	8	13	21	27	27	27	-	-	-
	500V	kW	7,5	10	16	24	28	28	28	-	-	-
Use in direct current												
DC20 Rated operating current Ie	A	16	25	40	63	100	125	200	-	-	-	-
DC21 Rated operating current Ie	A	16	25	40	50	100	125	200	-	-	-	-
Max voltage for each pole in series	V	60	60	60	50	42	42	42	-	-	-	-
DC22 Rated operating current Ie	A	16	25	40	40	100	125	200	-	-	-	-
Max voltage for each pole in series	V	48	48	42	42	30	30	30	-	-	-	-
DC23 Rated operating current Ie	A	16	25	40	40	100	125	200	-	-	-	-
Max voltage for each pole in series	V	30	30	30	30	30	30	30	-	-	-	-
Mechanical duration	N. oper.	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶
Frequency of the operations at rated current	oper. /hour	120	120	120	120	120	120	120	60	60	60	60
Rigid wire section	(mm ²)	1-4	2,5-6	6-10	10-25	10-35	-	-	-	-	-	-
Flexible cable section	mm ²	1-4	1,5-6	4-10	6-16	10-25	16-70*	16-70*	-	-	-	-
Cable lug terminal	-	-	-	-	-	-	M10	M10	M12	M16	M16	2xM16
Tightening torque	Nm	1,5	1,5	2	2	3	3	3	-	-	-	-

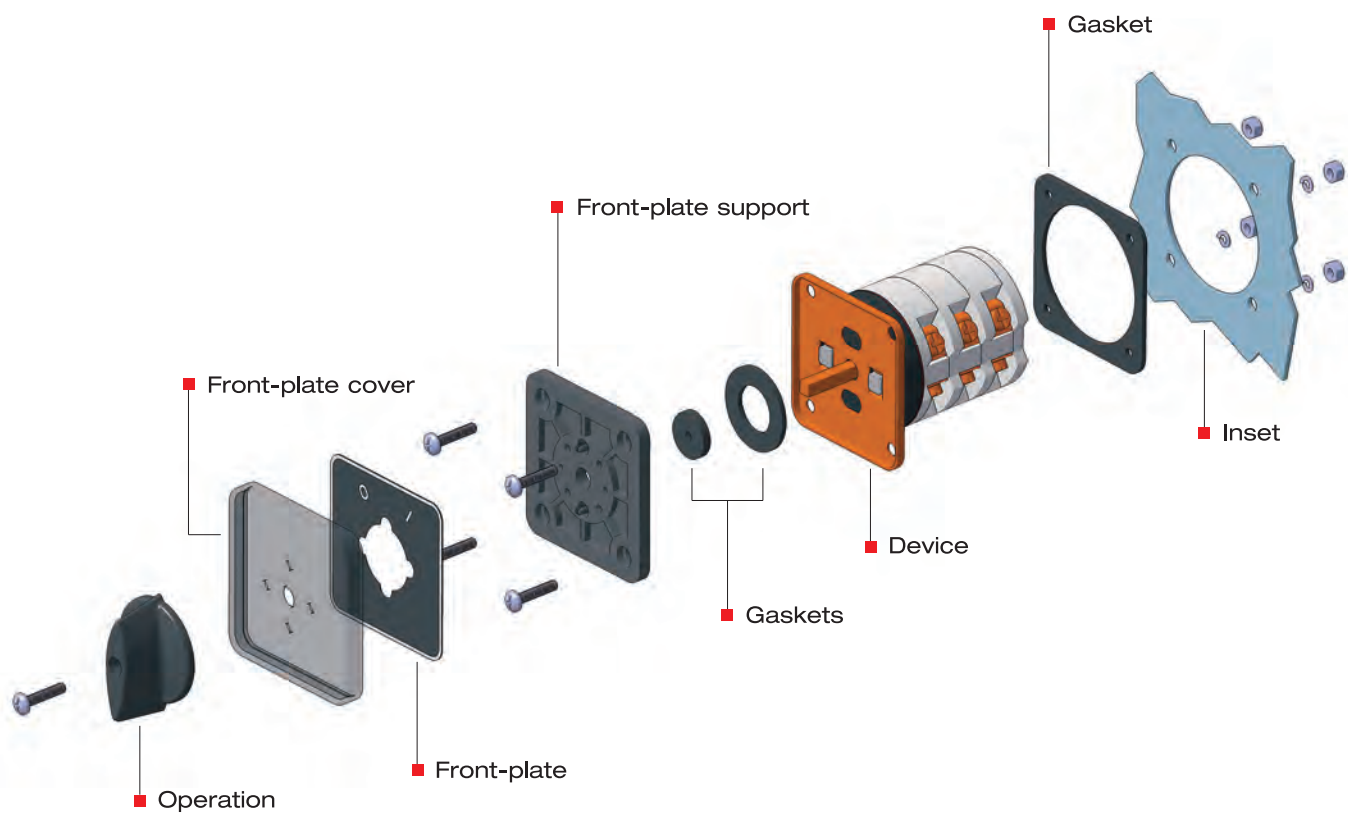
* With bolted clamp for terminals



CAM REAR PANEL CONTROL DEVICES 16÷63A SCREW FIXING



CAM INSET CONTROL DEVICES 16÷63A SCREW FIXING





CAM HEAVY DUTY USE CAM
CONTROL DEVICES



CAM series		
PRODUCT SPECIFICATIONS		
Conformity to standards:	CEI EN 60947-3 CEI EN 60529	IEC 60947-3 IEC 60529
Operation category:	see table on page. 349	
Protection rating:	IP65 /IP64 finishes	IP00 cores
Impact resistance:	> IK 08	
Glow wire test:	960°C	
Self-Extinguishing:	V0	
Temperature resistance:	Operating:	-25°C - +60°C
	Storage:	-40°C - +80°C



CAM SERIES
High performance
watertight switches
for distribution board
and flush-mounting
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	1	0	52	276600	1
	2	1	52	276601	5
	3	2	67	276602	5
	4	3	67	276603	5
25	2	1	52	276701	1
	3	2	68	276702	5
	4	3	68	276703	5
40	2	1	74	276801	1
	3	2	92	276802	1
	4	3	92	276803	5
63	3	2	108	286902	1
	4	3	108	286903	5

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358
distribution board knobs on page 359
flush-mounted knobs on page 359



CAM SERIES
High performance
watertight switches
for distribution boards with knob
and front-plate front panel
Front panel IP65
Terminals IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
100	4	3	133	276503	1
200	4	3	145	286603	1
400	4	3	221	286703	1
600	3	2	259	286732	1
800	3	2	297	286762	1
1200	3	2	411	286782	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).



CAM SERIES
Line selector switches
watertight switches
for distribution board
and flush-mounting
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	1	4	52	276604	1
	2	5	67	276605	5
	3	6	83	276606	5
	4	7	98	276607	5
25	2	5	68	276705	1
	3	6	84	276706	5
	4	7	100	276707	5
40	2	5	92	276805	1
	3	6	110	276806	1
	4	7	128	276807	5
63	3	6	134	286906	1
	4	7	159	286907	5

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358
distribution board knobs on page 359
flush-mounted knobs on page 359

Spare parts
page 376

Assembly diagrams
page 350

Contacts layouts
page 316

Dimensions
page 436



REAR PANEL INSET DEVICES SCREW FIXING



CAM SERIES
Line selector switches
watertight switches
for distribution board and
flush-mounting with knob,
front-plate front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
100	4	7	197	276507	1
200	4	7	221	286607	1
400	4	7	373	286707	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).



CAM SERIES
Reversing switches for three-phase motors
watertight switches
for distribution board
and flush-mounting
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	3	12	83	276612	5
25	3	12	84	276712	5
40	3	12	110	276812	1
63	3	12	134	286912	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358
distribution board knobs on page 359
flush-mounted knobs on page 359



CAM SERIES
Reversing switches for three-phase motors
watertight switches with knob,
front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	631	96	276289	1
40	631	110	276389	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
Pole reversing switches
for magnetic watertight planes
with knob, front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	572	95	276185	1
	575	79	276186	1

Characteristics:
art. 276186 supplied without signalling contact.

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358

Spare parts page 376
Assembly diagrams page 350
Contacts layouts page 316-317
Dimensions page 436





CAM SERIES
Star/triangle starters
watertight planes
for distribution board
and flush-mounting
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	3	13	98	276613	1
25	3	13	100	276713	1
40	3	13	128	276813	1
63	3	13	159	286913	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358
distribution board knobs on page 359
flush-mounted knobs on page 359



CAM SERIES
Star/triangle starters
run reversing watertight planes
for distribution boards with knob
front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	14	116	276214	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
Star/triangle starters
watertight planes
for distribution boards with knob
front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
100	13	197	276513	1
200	13	221	286613	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars). Article 286613 supplied with handwheel.



CAM SERIES
Pole changing switches
watertight planes
for distribution board
and flush-mounting
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	3	15	98	276615	1
25	3	15	100	276715	1
40	3	15	128	276815	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358
distribution board knobs on page 359
flush-mounted knobs on page 359



REAR PANEL AND INSET DEVICES
SCREW FIXING



CAM SERIES
Pole changing switches
watertight planes
for distribution boards with front-
plate knob 0-I-II and front plate
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	16	100	276216	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).
Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
Heat control high performance
watertight switches with knob,
front-plate 0-1-2-3 front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	2	32	67	276132	1
25	2	34	68	276234	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).
Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
Pole changing switches run reversing
high performance watertight for
distribution boards with knob and
front-plate 2-1-0-2 front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	17	148	276217	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).
Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
Watertight
high performance control
for distribution boards with knob
front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	36	52	276136	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).
Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358

Assembly diagrams
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Contacts layouts
page 316

Dimensions
page 436



CAM HEAVY DUTY USE CAM
CONTROL DEVICES



CAM SERIES
Voltmeter selector switch
high performance watertight for
distribution boards with knob
and front-plate 0-RS-RT-ST
and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	18	67	276118	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty
steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
Voltmeter selector switch
high performance watertight for
distribution boards with knob and
front-plate RT-ST-RS-0-RN-SN-TN
front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	35	83	276135	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty
steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
Voltmeter selector switch
high performance watertight for
distribution boards with knob
and front-plate 0-RN-ST-TN
and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	19	67	276119	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty
steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
**Ammeter selector switch on 3
watertight** high performance
reduction units with knob,
front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	22	98	276122	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty
steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358

Assembly diagrams
page 350

Contacts layouts
page 316

Dimensions
page 436-437



REAR PANEL AND INSET DEVICES
SCREW FIXING



CAM SERIES
Ammeter selector switch on 4 watertight high performance reduction units with knob, front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	23	98	276123	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
4-way selector switch high performance reduction units with knob, front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	1	25	68	276225	1
	2	25	100	276245	1
	3	25	132	276255	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
3-way selector switch high performance reduction units with knob, front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	1	24	68	276224	1
	2	24	84	276244	1
	3	24	116	276254	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
5-way watertight high performance selector switch with knob, front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	1	26	84	276226	1
	2	26	116	276246	1
	3	26	164	276256	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358

Assembly diagrams
page 350

Contacts layouts
page 316

Dimensions
page 437



CAM HEAVY DUTY USE CAM
CONTROL DEVICES



CAM SERIES
6-way watertight high performance selector switch with knob, front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	1	27	84	276227	1
	2	27	132	276247	1
	3	27	180	276257	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
4-way + 0 watertight high performance selector switch with knob, front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	1	29	68	276229	1
	2	29	100	276249	1
	3	29	132	276259	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
3-way + 0 watertight high performance selector switch with knob, front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	1	28	68	276228	1
	2	28	84	276248	1
	3	28	116	276258	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
5-way + 0 watertight high performance selector switch with knob, front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	1	30	84	276230	1
	2	30	132	276250	1
	3	30	180	276260	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358

Spare parts
page 376

Assembly diagrams
page 350

Contacts layouts
page 316

Dimensions
page 436-437

REAR PANEL AND INSET DEVICES
SCREW FIXING



CAM SERIES
6-way + 0 watertight high performance selector switch with knob, front-plate and front panel
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
25	1	31	100	276231	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).
Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358



CAM SERIES
Two-Way watertight high performance selector switch for distribution board and flush-mounting
Front panel IP65
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	1	8	52	276608	1
	2	9	67	276609	1
	3	10	83	276610	1
	4	11	98	276611	1

Uses:
they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).
Complementary items:
protruding terminal blocks page 358
terminal cover caps page 358
distribution board knobs on page 359
flush-mounted knobs on page 359



CAM SERIES
Projecting terminals for control devices

Rated current (A)	Terminal block description	Palazzoli code	Pack Q.ty
16	Right	270810	20
	Left	270811	20
25	Right	270820	20
	Left	270821	20

Uses:
they are used for easily connecting wires to the terminals even if the device is installed in an awkward position.



CAM SERIES
Rear protection caps for distribution boards in transparent thermoplastic material
IP54

For devices with depth (mm)	Palazzoli code	Pack Q.ty
52/67/68	276910	1
74/82/92	276930	1
79/83/84/95/96/98/100	276911	1
108/110/128/134	276931	1
114/116/130/132	276912	1
145/148/160/164	276913	1
159	276932	1

Uses:
they have connections with stepped gland in non-ageing elastomer. They ensure rear protection IP54.



CAM SERIES
Rear protection caps for flush-mounting in transparent thermoplastic material
IP54

For devices with depth (mm)	Palazzoli code	Pack Q.ty
52/67/68	278920	1
74/82/92	278940	1
83/84/96/98/100	278921	1
108/110/128/134	278941	1
159	278942	1

Characteristics:
they have connections with stepped gland in non-ageing elastomer. They ensure rear protection IP54.



CAM HEAVY DUTY USE CAM
CONTROL DEVICES



CAM SERIES
Black knobs **for distribution boards** with front-plate in anodized aluminium and polycarbonate transparent protection IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches 16/25A	67x67	292115	10
Switches 40/63A	99x99	292315	1
Selector switches, reversing switches, pole changing switches 16/25A	67x67	292135	10
Selector switches, reversing switches, pole changing switches 40/63A	99x99	292335	1
Two-way switches 16A	67x67	292145	1
Star/triangle starters 16/25A	67x67	292155	1
Star/triangle starters 40/63A	99x99	292355	1



CAM SERIES
Black knobs **for distribution boards** with front-plate in anodized aluminium and polycarbonate transparent protection IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches 16/25A	67x67	292116	1
Switches 40/63A	99x99	292316	1
Switches, selector switches, reversing switches, pole changing switches 16/25A	67x67	292136	1
Switches, selector switches, reversing switches, pole changing switches 40/63A	99x99	292336	1
Two-way switches 16A	67x67	292146	1
Star/triangle starters 16/25A	67x67	292156	1
Star/triangle starters 40/63A	99x99	292356	1



CAM SERIES
Grey lockable knobs **for distribution boards**, with blue thermoplastic flange IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches, selector switches, reversing switches, pole changing switches 16/25A	67x67	292125	10
Switches, selector switches, reversing switches, pole changing switches 40/63A	99x99	292325	1

Characteristics:
for lockable main switches in position "I" or "O".



CAM SERIES
Grey lockable **flush-mounted** knobs, with blue thermoplastic flange IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches, selector switches, reversing switches, pole changing switches 16/25A	67x67	292126	1
Switches, selector switches, reversing switches, pole changing switches 40/63A	99x99	292326	1

Characteristics:
for lockable main switches in position "I" or "O".



CAM SERIES
Red lockable emergency knobs **for distribution boards**, with yellow thermoplastic flange IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches, selector switches, reversing switches, pole changing switches 16/25A	67x67	292105	10
Switches, selector switches, reversing switches, pole changing switches 40/63A	99x99	292305	1

Characteristics:
for lockable main switches in position "I" or "O".

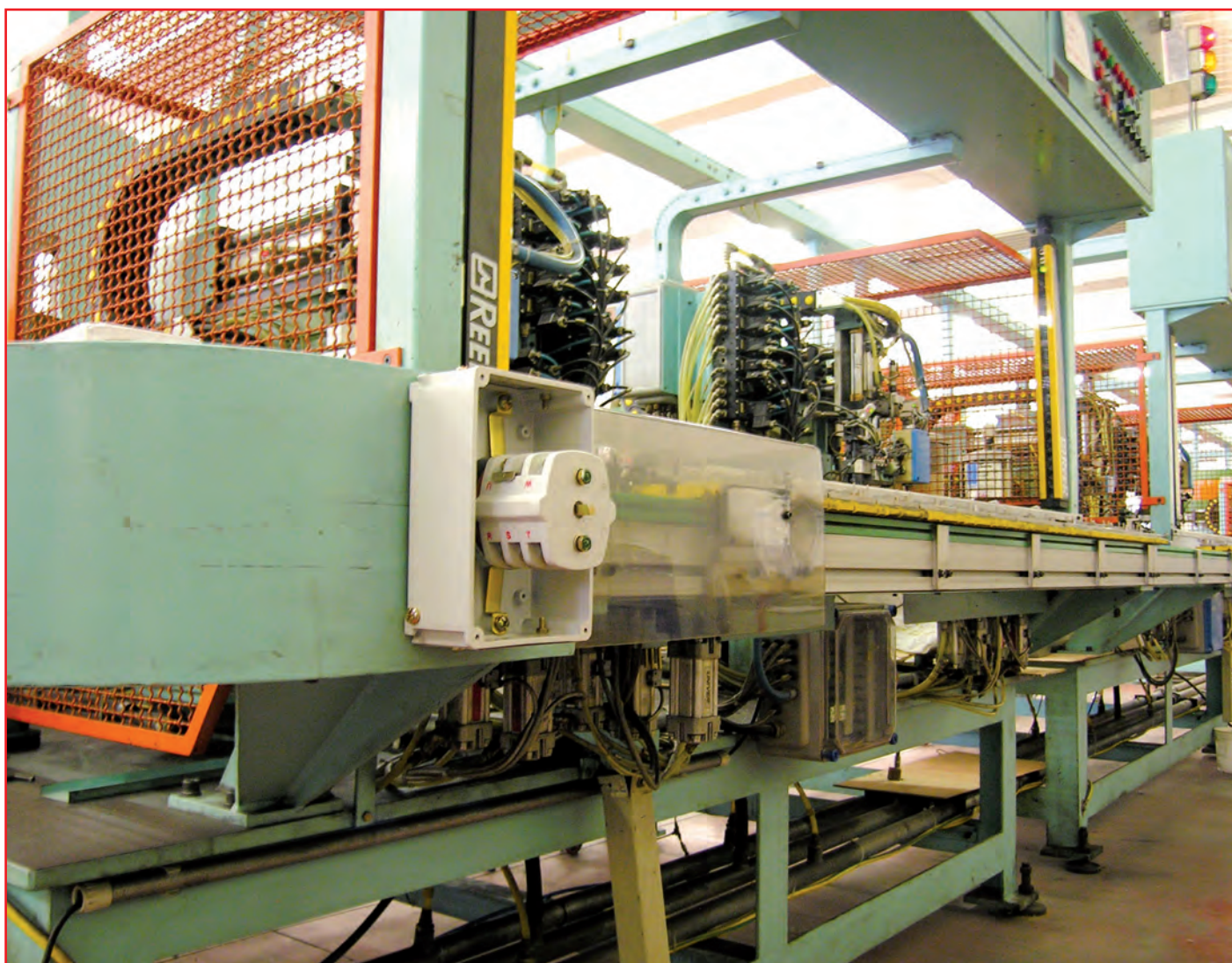


CAM SERIES
Red lockable flush-mounted **emergency knobs** with yellow thermoplastic flange IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches, selector switches, reversing switches, pole changing switches 16/25A	67x67	292106	1
Switches, selector switches, reversing switches, pole changing switches 40/63A	99x99	292306	1

Characteristics:
for lockable main switches in position "I" or "O".

Rear panel devices with doorlock



CAM 362
Switches with doorlock
In up to 400A



CAM 362
Line selector switches with doorlock
In up to 200A



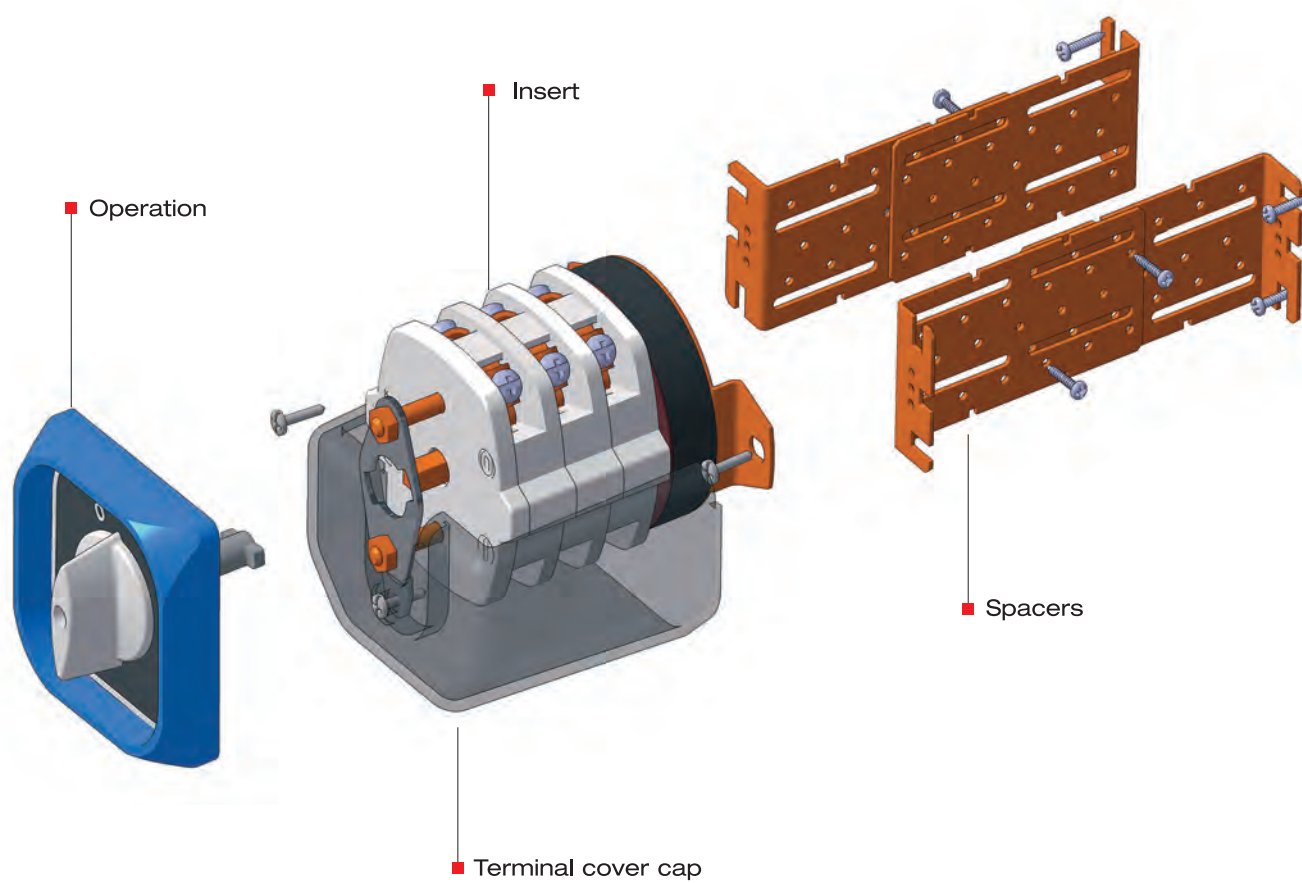
CAM 363
Technical accessories



CAM 364-365
Knobs for CAM with doorlock





**CAM BASE PANEL CONTROL DEVICES 16÷63A
SCREW FIXING**



REAR PANEL DEVICES WITH DOORLOCK



CAM series		
PRODUCT SPECIFICATIONS		
Conformity to standards:	CEI EN 60947-3	IEC 60947-3
	CEI EN 60529	IEC 60529
Operation category:	AC3 - AC23A	
Protection rating:	IP65 /IP64 finishes	IP00 cores
Impact resistance:	> IK 08	
Glow wire test:	960°C	
Self-Extinguishing:	V0	
Temperature resistance:	Operating:	-25°C - +60°C
	Storage:	-40°C - +80°C

		CAM SERIES A32 switches with doorlock for cabinets, with protective cap on high capacity input Terminal blocks IP00		
				
Rated current (A)	Poles	Depth (mm)	Palazzoli code	Pack Q.ty
32	2	102	275232	1
	3	102	275332	1
	4	102	275432	1



Characteristics:
clamps suitable for locking cables without preparing wires in advance and without using terminals.

Uses:
for snaplocking the device on EN50022 rail or directly fastening it onto the plate using screws.

Complementary items:
cabinet knobs page 364÷365

		CAM SERIES Switches with doorlock for cabinets, with protective cap on high capacity input Terminal blocks IP00			
					
Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	3	2	96	275112	10
	4	3	96	275113	10
25	3	2	97	275212	10
	4	3	97	275213	10
40	3	2	123	275312	5
	4	3	123	275313	5
63	3	2	140	285412	5
	4	3	140	285413	5

Complementary items:
protruding terminals page 363
Spacer kit page 363
cabinet knobs page 364÷365

		CAM SERIES Switches with doorlock for cabinets, with protective cap on high capacity input terminals Terminal blocks IP00			
					
Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
100	3	2	183	270512	1
100	4	3	183	270513	1
200	3	2	195	280612	1
200	4	3	195	280613	1
400	3	2	233	280712	1
400	4	3	271	280713	1

Complementary items:
cabinet knobs page 364÷365

Assembly diagrams
page 361

Contacts layouts
page 316

Dimensions
page 438



CAM SERIES
Selector switches
with doorlock for cabinets,
with protective cap on high
capacity input
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
16	3	6	112	275116	1
	4	7	128	275117	1
25	3	6	113	275216	1
	4	7	129	275217	1
40	3	6	141	275316	1
	4	7	159	275317	1
63	3	6	166	285416	1
	4	7	191	285417	1

Complementary items:
protruding terminals page 363
Spacer kit page 363
cabinet knobs page 364÷365



CAM SERIES
Selector switches
with doorlock for cabinets,
with protective cap on high
capacity input
Terminal blocks IP00



Rated current (A)	Poles	Scheme CAM	Depth (mm)	Palazzoli code	Pack Q.ty
100	4	7	247	270517	1
200	4	7	271	280617	1

Complementary items:
cabinet knobs page 364÷365



CAM SERIES
Projecting terminals
for control devices

Rated current (A)	Terminal block description	Palazzoli code	Pack Q.ty
16	Right	270810	20
	Left	270811	20
25	Right	270820	20
	Left	270821	20

Uses:
they are used for easily connecting wires to the terminals even if the device is installed in an awkward position.



CAM SERIES
Adjustable spacer support kit
for attaching control devices for
tropicalized steel cabinet with
doorlock.

Min. lenght (mm)	Max. lenght (mm)	Palazzoli code	Pack Q.ty
96,5	168,5	270900	10

Characteristics
suitable for loads from 16A to 63A Composed of 4 equal brackets in zinc-plated steel with self-threading screws and washers.
Uses
it is used for fixing devices in the right position and height for correct coupling with the control applied to the hatch.

Assembly diagrams
page 361

Contacts layouts
page 316

Dimensions
page 436÷437



REAR PANEL DEVICES WITH DOORLOCK



CAM SERIES
Black knobs with doorlock for cabinets, with anodised aluminium front-plate and transparent polycarbonate protection IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches 16/25/32A	67x67	295117	10
Switches 40/63A	99x99	295157	5
Selector switches 16/25A	67x67	295137	1
Selector switches 40/63A	99x99	295177	1



CAM SERIES
Grey lockable knobs with doorlock for cabinets, with blue thermoplastic flange IP65

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches 16/25/32A	83x83	295108	10
Switches 40/63A	105x105	295308	5
Selector switches 16/25A	83x83	295118	1
Selector switches 40/63A	105x105	295318	1

Characteristics:
lockable in any position. Codes 295308 and 295318 have a projecting lever knob.



CAM SERIES
Grey lockable knobs with doorlock for cabinets, with blue thermoplastic flange IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches, selector switches 16/25/32A	67x67	295127	1
Switches, selector switches 40/63A	99x99	295167	1

Characteristics:
lockable in any position.



CAM SERIES
Red lockable emergency knobs with doorlock for cabinets, with yellow thermoplastic flange IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches, selector switches 16/25/32A	67x67	295107	10
Switches, selector switches 40/63A	99x99	295147	5

Characteristics:
lockable in any position.





CAM SERIES
Red lockable emergency knobs
with doorlock for cabinets, with
yellow thermoplastic flange
IP65

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches 16/25/32A	83x83	295128	10
Switches 40/63A	105x105	295328	5
Selector switches 16/25A	83x83	295138	1
Selector switches 40/63A	105x105	295338	1

Characteristics:
lockable in any position. Codes 295328 and 295338 have a projecting lever knob.



CAM SERIES
Black knobs with doorlock for
cabinets, with anodised aluminium
front-plate
IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches 100A ~	134x134	270528	1
Switches 200A ~	134x134	270628	2
Selector switches 100A	134x134	270538	1
Selector switches 200A	134x134	270638	1



CAM SERIES
Black handwheel with doorlock for
cabinets, with anodised aluminium
front-plate
IP54

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches 400A	134x134	270728	1



CAM SERIES
Grey lockable knobs with
doorlock for cabinets, with
blue thermoplastic flange
IP65

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches 100/200A	105x105	292508	1
Switches 400A ~	72x83	292708	1
Selector switches 100/200A	105x105	292518	1

Characteristics:
lockable in any position. Code 292708 has a projecting lever knob.



CAM SERIES
Red lockable emergency knobs
with doorlock for cabinets, with
yellow thermoplastic flange
IP65

For control devices type	Flange dimensions (mm)	Palazzoli code	Pack Q.ty
Switches 100/200A	105x105	292528	2
Switches 400A ~	72x83	292728	1
Selector switches 100/200A	105x105	292538	1

Characteristics:
lockable in any position. Code 292728 has a projecting lever knob.