

new

# cam-st series

AC3 10kA  
GUARANTEED

Top performance is  
always worthwhile.



FPB  
**Palazzoli**

2004 edition



## wall-mounting isolator switches 16 Amp to 100 Amp rating AC23/AC3



### 4 designed to never let you down

Isolator switches and their enclosures offer tough robust operation throughout the years.

### 4 complete

A carefully studied and complete line ranging from 16A to 100A with emergency control versions. They are also equipped with auxiliary contacts for remote indication of main contacts position.

### 4 multi-purpose

Due to its modular dimensions with TER Series interlocked industrial socket-outlets, they can also be installed in multipurpose assemblies, or singularly wall-mounted or machine-mounted.



## applications

SERVICE INDUSTRY

LIGHT INDUSTRY

16÷100A

Rated current

690V

Rated insulation voltage

IP65

Protection rated

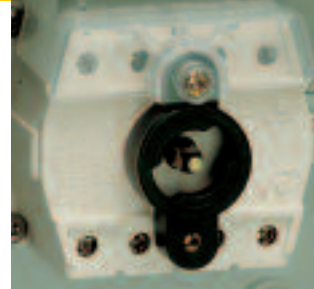
# the new frontier of controls

the results you  
have always  
wanted



## UNBEATABLE

An **AC23A – AC3** installation class, conditional short circuit current **10,000A** and guaranteed isolation are but a few of the 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 installation's yield.



## NO DOWNGRADING

In addition to making wiring easier, the **spacious interior ensures maximum** thermal dissipation thereby eliminating downgrading and premature ageing. As a consequence provides ample cabling and glanding space.



## MULTIPURPOSE

**May be integrated with TER Series distribution boards** which allow multipurpose batteries to be created for direct control of each service or as a battery main switch.



## MODERN

With the **knob inserted** in the front panel, the packaging meets the most demanding aesthetic needs and **reduces the ingress of grime and dirt**. This makes the product ideal for areas subject to inspection. The ergonomic knob makes operating with work gloves easy.







# cam-st

## PRODUCT SPECIFICATIONS

**In compliance with standards:** CEI EN 60947-3 IEC 947-3 CEI 17-11  
 CEI EN 60947-5-1 IEC 947-5-1 CEI 17-45  
 CEI EN 60947-4-1 IEC 60947-4-1 CEI 17-50

**Protection rating:** IP65

**Glow wire test:**

**Self-extinguishing grade:**

	GWT	Self-ext.
Rotary control switch	960°C	V0
Box	650°C	HB

**Impact resistance:** > IK 08

**Temperature resistance:** -30°C ÷ +70°C

**operating temperature:** -25°C ÷ +55°C

**Advantages:** Maximum efficiency ensures continuous service, eliminating costly machine shutdowns with a subsequent increase in the installation's yield.

Family LB

Wall-mounting isolator switches with black knob and grey plate in insulated box - IP65



Rated current (A)	Poles	CAM layout	Palazzoli Code	Pack Q.ty
16	2	1	209162	1
	3	2	209163	1
	4	3	209164	1
32	2	1	209322	1
	3	2	209323	1
	4	3	209324	1
63	2	1	209632	1
	3	2	209633	1
	4	3	209634	1
100	3	2	209103	1
	4	3	209104	1

**Characteristics:** knob can be locked; you can install 2 auxiliary contacts per side for In>32A devices.

**Equipment:** No. 4 screwcaps. Terminal caps on cable entry side.

Family LB

Wall-mounting emergency isolator switches with red knob and yellow plate in insulated enclosure - IP65



Rated current (A)	Poles	CAM layout	Palazzoli Code	Pack Q.ty
16	2	1	208162	1
	3	2	208163	1
	4	3	208164	1
32	2	1	208322	1
	3	2	208323	1
	4	3	208324	1
63	2	1	208632	1
	3	2	208633	1
	4	3	208634	1
100	3	2	208103	1
	4	3	208104	1

Family LB


Auxiliary contacts for isolator switches with In>32A







Rated current (A)	Contact type	Palazzoli Code	Pack Q.ty
16	1NA+1NC	200016	20

# cam: the most complete range

Family LA




Watertight wall-mounting switches in enclosures made of thermosetting material - IP67




Rated current (A)	Poles	CAM layout type	External dims. b x h (mm)	Holes	Palazzoli Code	Pack Q.ty
16	2	1	92x125		292101	5
	3	2			292102	5
	4	3			292103	5
25	2	1			292201	5
	3	2			292202	5
	4	3			292203	5
40	2	1	125x185		292301	1
	3	2			292302	1
	4	3			292303	1
63	2	1			292411	1
	3	2			292412	1
	4	3			292413	1

Equipment: earth terminal inside the box.

Family LA




Watertight wall-mounting switches in window enclosure made of thermosetting material IP65

Rated current (A)	Poles	CAM layout type	External dims. b x h (mm)	Windows	Palazzoli Code	Pack Q.ty
100	4	3	185x250		292503	1
	4	3			292603	1
200	4	3	250x250		292623	1
400	4	3	370x500		292703	1
600	4	3			292733	1

Equipment: earth terminal inside the box. Heads with free windows equipped with gaskets and screws. Flanges not supplied.


Family GA










Flat blind flanges for watertight enclosures - IP67

For windows type	Flange height (mm)	Palazzoli Code	Pack Q.ty
a	15	538110	20
b		538210	20
c		538310	10

Family LA



Watertight wall-mounting switches in aluminium alloy enclosure with windows IP67


Rated current (A)	Poles	CAM layout type	External dims. b x h (mm)	Windows	Palazzoli Code	Pack Q.ty		
16	2	1	92x92		272141	6		
	3	2			272142	6		
	4	3			272143	6		
	25	6	3.1	92x125		272144	1	
2		1	92x92	272241		1		
3		2		272242		6		
4		3		272243		6		
40		6	3.1	92x125			272244	1
		2	1	125x125			272301	1
	3	2	272302		1			
4	3	272303	1					
63	6	3.1	125x185		272304	1		
	3	2	125x185		282402	1		
	4	3			282403	1		
100	6	3.1		125x185		282404	1	
	3	2	272502			1		
200	4	3	185x252		272503	1		
	4	3	220x315		282603	1		
400	4	3	315x315		282703	1		

Equipment: earth terminal inside and outside the box.

**Characteristics:**

- n upper and lower flange with 1/2" cable gland.
  - o Upper and lower flange with 3/4" cable gland.
  - Devices with capacities ≥ 100A with lockable knob.
- From 100A or higher: IP55

Family LA



Raised aluminium alloy closing flanges with cable gland for enclosures with window walls - IP67

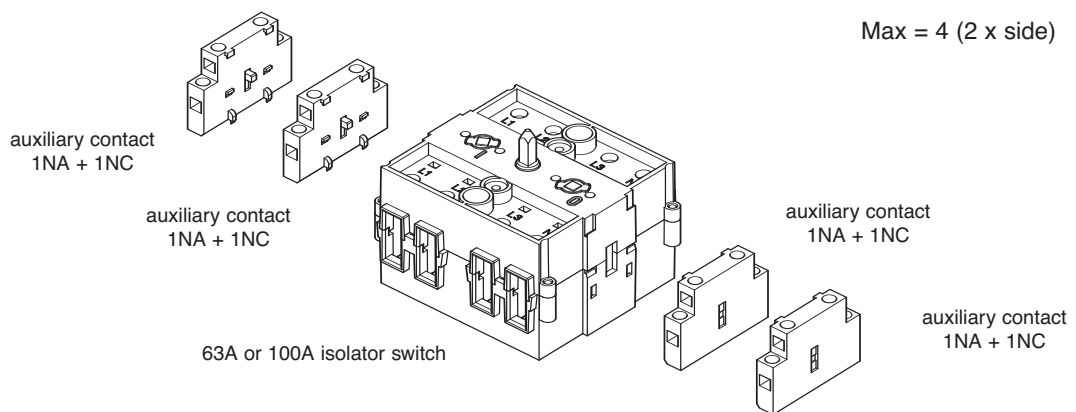
For windows type	Diameter shade ring	Diameter gasket		Threading	Palazzoli code	Pack Q.ty
		min.	max			
F1	25,5	16	22	1"	540151	8
	36	25	26	1" 1/4	540141	8
F3	41,5	34	35	1" 1/2	540153	8
F5	50	33	44	2"	540145	1

Order the specialist catalogue for the complete selection: "DISTRIBUTION BOARD COMPONENTS" or the website [www.palazzoliuk.com](http://www.palazzoliuk.com)

## TECHNICAL DATA AND PERFORMANCE OF SWITCHES

	CAM-ST 16A	CAM-ST 32A	CAM-ST 63A	CAM-ST 100A
<b>RATED INSULATION VOLTAGE (max. operating voltage)</b> $U_i=U_e$	690V	690V	690V	690V
<b>THERMAL AND UNINTERRUPTED RATED CURRENT</b> $I_{th} = I_{the} = I_u$	16A	32A	63A	100A
<b>RATED MAKING CAPACITY</b>	160A	320A	630A	1000A
<b>RATED BREAKING CAPACITY</b>	128A	256A	504A	800A
<b>RATED SHORT TIME CURRENT (1 second)</b>	240A	480A	950A	1500A
<b>CONDITIONAL SHORT-CIRCUIT CURRENT</b>	10kA	10kA	15kA	15kA
<b>RATED IMPULSE WITHSTAND VOLTAGE</b>	4kV	4kV	4kV	4kV
<b>MAX CURRENT OF PROTECTION FUSES</b> $I_{oaM}$	16A	32A	63A	100A
<b>UTILIZATION CATEGORY AND RATED CURRENT «Ei» IN ALTERNATED CURRENT</b>				
AC 20A NO LOAD OPERATIONS $I_e$	16A	32A	63A	100A
AC21A RESISTIVE LOADS INCLUDING MODERATE OVERLOADS				
AC22A MIXED RESISTIVE-INDUCTIVE LOADS INCLUDING MODERATE OVERLOADS $I_e$	16A	32A	63A	100A
AC23A MOTORS OR OTHER HIGHLY INDUCTIVE LOADS				
AC3 STARTING AND SWITCHING OFF OF SQUIRREL-CAGE MOTOR DURING RUNNING RATED POWER OF THREE-PHASE MOTORS at 380V ac kW	3,5	10	18	-
AC4 STARTING AND PLUGGING, INCHING OF SQUIRREL-CAGE MOTORS RATED POWER OF THREE-PHASE MOTORS at 380V ac kW	1,7	3	7,5	-
<b>MAX FREQUENCY OF OPERATIONS AT RATED CURRENT</b> operations/hour	120	120	120	120
<b>CONNECTION TERMINALS</b>				
RIGID CABLE SECTION				
max mm <sup>2</sup>	10	10	35	35
min mm <sup>2</sup>	1,5	1,5	2,5	2,5
FLEXIBLE CABLE SECTION				
max mm <sup>2</sup>	6	6	35	35
min mm <sup>2</sup>	1,5	1,5	1,5	1,5

## AUXILIARY SWITCH FASTENING DIAGRAM



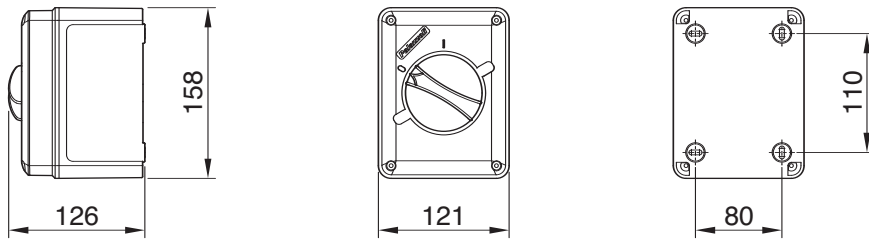
# technical data-dimensions

Switch	Two-pole CAM 1	Three-pole CAM 2	Four-pole CAM 3	Six-pole CAM 3.1

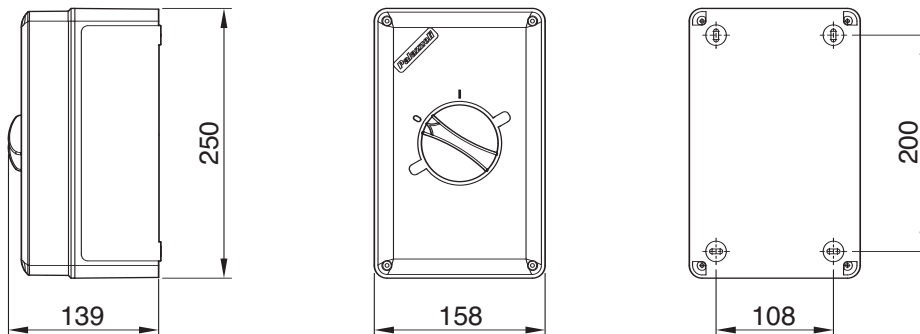
Resistance to chemical and atmospheric agents

ENCLOSURE MATERIAL	CHEMICAL AND ATMOSPHERIC AGENTS								
	Water	Saline atmosphere	UV Rays	Hydrocarbons	Mineral oils	Alcoholic substances	Weak acids	Weak bases	
Thermoplastic	Excellent	Excellent	Good	Poor	Good	Poor	Fair	Fair	

## DIMENSIONAL



16A and 32A isolator switch



63A and 100A isolator switch

# the system

## camseries

**heavy  
industry  
heavy-duty  
use**

from 16A to 600A - IP67 /IP65  
in thermosetting isolating  
enclosures



## camseries

from 16A to 600A - IP67 /IP55  
in aluminium alloy enclosure



**for wall-  
mounting  
installations**

## cam-stseries

**service  
industry  
light  
industry**

from 16A to 100A - IP65  
in thermosetting  
isolating enclosures



**for wall-  
mounting  
installations**

**THE BEST  
SOLUTION  
FOR EVERY  
CONTROL  
DEMAND**

[sales@palazzoliuk.com](mailto:sales@palazzoliuk.com)  
[www.palazzoliuk.com](http://www.palazzoliuk.com)

from 16 to 100A - IP65  
rear panel, hole fastening or in cabinets



**for  
distribution  
board  
installations**

**Palazzoli**



**Palazzoli UK Ltd**  
Atlantic House, Imperial Way  
Reading-RG2 0TD  
ph. 0118 903 6021 fax 0118 903 6204