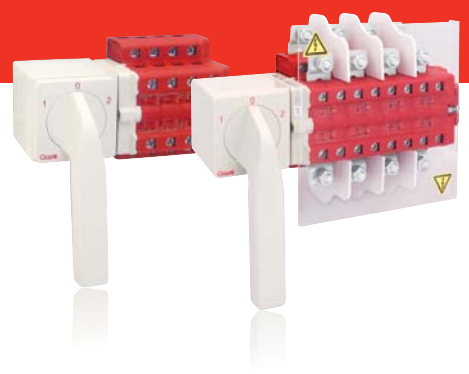




LD Changeover Switches



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Company

Gawe Electro is an international manufacturer of electrical control products and solutions with an extensive professional record since it was founded in 1944. It has developed technical capabilities on the low voltage breaking, control and protection fields acquiring strong reputation on its control equipment solutions.

Innovation

Innovative thinking is our philosophy. We create better more effective products and processes applying new ideas that benefit from our longstanding experience. A dedicated engineering team boosting your competitiveness.



*Specialist in electrical
control technology*

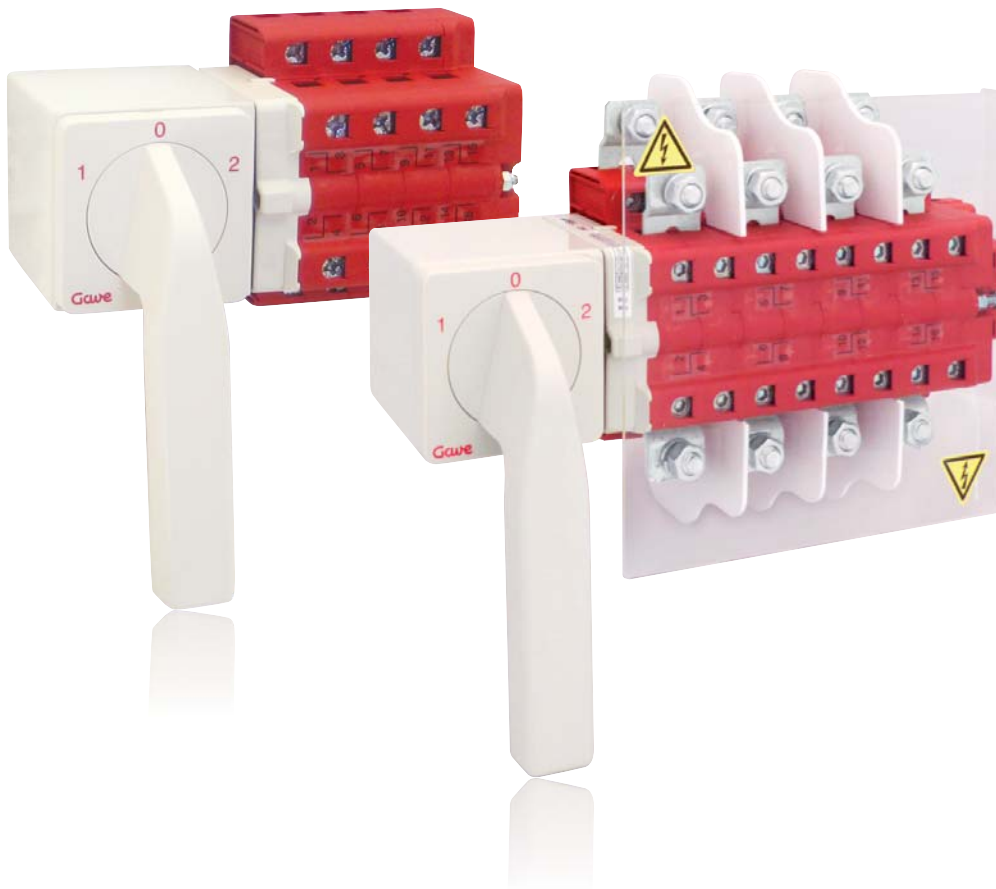
Quality & Service Commitment

Gave Electro follows a total quality management (TQM) system as an integrative philosophy of management for continuously improving the quality of products and processes. This system functions on the premise that the quality of products and processes is the responsibility of everyone who is involved with the creation or consumption of the products and involves management, workforce, suppliers, and even customers, in order to meet or exceed customer expectations.

Constant rigorous product testing is undertaken during all production process in order to guarantee product reliability and repeatability. Testing capabilities include:

- Electrical and mechanical endurance
- Ingress protection (IP) testing
- EMC reinforced testing
- Optical and thermal parts analysis
- Dielectric testing
- Flammability and ignitability (glow wire test)

We commit to service our customer by providing support in planning, installation, training, trouble shooting, maintenance, upgrading, and disposal of a product.



LD Changeover Switches

The **LD Changeover** product range are on load changeover switches equipped with front manual operation.

They provide transfer of sources or changeover of two low voltage circuits on load as well as safety disconnect isolation.

General characteristics

- Easy and quick DIN rail mounting.
- Compact integrated size.
- Integrated internal common link.
- Protected cable clamp connection IP20 (63 to 125A).
- Terminals with screen protection cover (160 to 250A).

- Auxiliary contacts directly shaft operated.
- Range of accessories.
- Electrical scheme flexibility.

According to standards

- IEC 60947-1
- IEC 60947-3









Enclosed changeover switches



General characteristics

- Bespoke for industrial environments with mechanical risk and dust hazard.
- Protection degree: IP65 / IK10.
- Polyester-epoxy powder coating colour grey 7032 textured.
- Locking system 3mm double-bar key.
- Metal hinges with quick release pins.
- Bottom removable gland plate with neoprene joint finished to match the enclosure.
- Two earthing points M6 x 15.

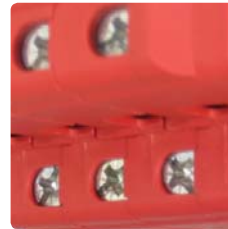
Technical data

Description			63A	100A	125A	160A	200A	250A
Thermal rating	Ith A		70	100	125	160	200	250
Max. fuse protection (gG-aM)	In (A)		80	125	125	160	200	250
Impulse voltage	Uimp KV		4	4	4	4	4	4
Conditional shortcircuit current	Icc KA		8	8	8	-	-	-
Operating voltage	Ue V~		690	690	690	690	690	690
Insulating voltage	V~		690	690	690	690	690	690
Insulating voltage	V...		600	600	600	600	600	600
Operational rating	Ie A		63	100	125	160	200	250
Wire section	Stranded	mm ²	16 - 50	16 - 50	16 - 50	70	95	120
		mm ²	16 - 50	16 - 50	16 - 50	70	95	120
	Flexible	mm ²	16 - 50	16 - 50	16 - 50	70	95	120
		AWG	6 - 1	6 - 1	6 - 1	-	-	-
Torque	Nm		3,5	3,5	3,5	-	-	-
Connection screws			M8	M8	M8	M8	M8	M8
Terminal								
AC 21	kW	3 x 230V	22	37	37	45	55	75
	Dummy kW	3 x 400V	37	55	75	90	110	132
	cosØ >0,95	3 x 500V	45	75	90	110	132	160
AC 22	kW	3 x 230V	22	30	30	37	45	55
	Mixed load kW	3 x 400V	30	45	55	75	90	110
	0,65 <cosØ <0,95	3 x 500V	37	55	75	90	110	132
AC 23	kW	3 x 230V	15	18,5	18,5	30	38	-
	Motor load kW	3 x 400V	22	30	37	52	65	-
	0,45 <cosØ <0,65	3 x 500V	30	37	45	65	80	-

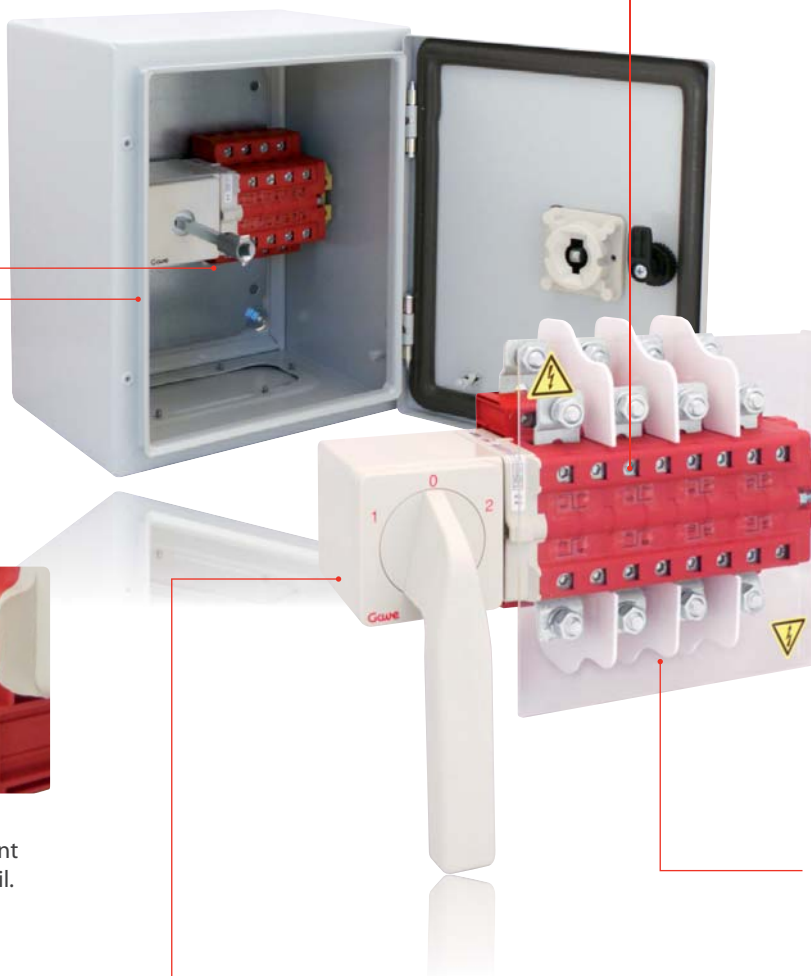
General characteristics



Integrated link
Common link internally integrated saving installation time and avoiding missconnection.



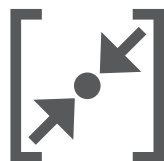
IP20 Protection
Complete range offers IP20 protection. Protected cable clamps on 63-125A and screen protection cover on 160-250A.



Installation
Designed to mount directly on DIN rail.



Auxiliary Contacts
Power contacts and auxiliary signalling contacts are all directly operated on the same shaft. No risk of false indication.



Compact Size
Integrating two circuits on each cell permits an extra compact size. Up to 40% space saving to conventional switches.



Easy connection
Easy to wire with two levels of connection that prove specially smart on maintenance operations.

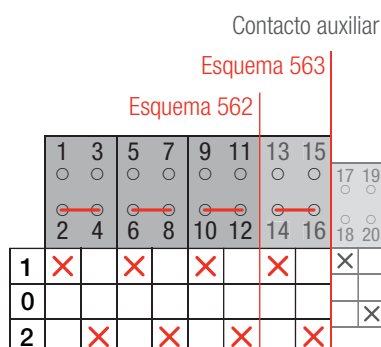
Electrical Schemes

Electrical Scheme Flexibility

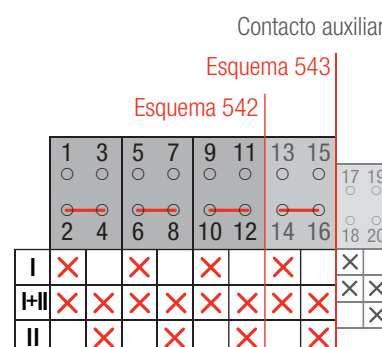
Technology based on cells offers great flexibility on electrical schemes.

We are able to build up on demand switches on typical applications such as **by-pass**, or **motor switches**,...

56x Changeover 1-0-2

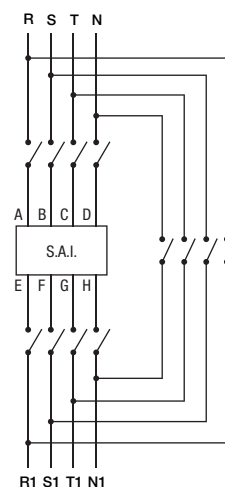
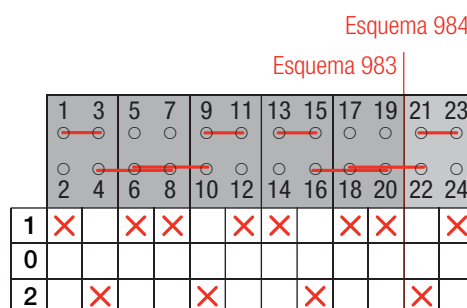


54x Changeover with overlapping I - I+II - II



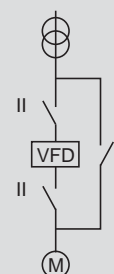
98x Changeover with by-pass

Uninterruptible power systems have become a widespread requirement when designing industrial and services facilities. Maintenance of these facilities is a real problem since they must operate 24/7 and can not risk non-service associated costs. Gawe LD series offer an ideal solution with bypass switches that isolate the UPS while guaranteeing supply continuity. LD bypass switches are characterized by their extremely compact size and easy wiring since all connecting bridges are integrated from origin. A stable OFF position assures all circuits safe disconnection.



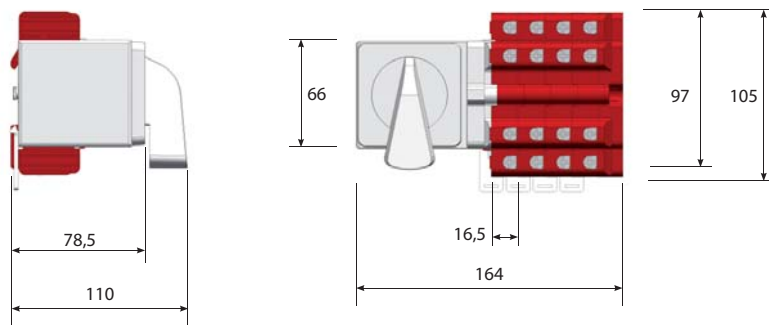
AC 23 On load switching

Modern production processes extensively use drive inverters for motor operation, these drives require maintenance processes that may involve production line downtimes. LD changeover switches are able to perform connect/disconnect operations under AC23 loads, therefore we can use LD bypass switches during inverter maintenance operations to isolate the inverter while guaranteeing energy supply to the production line.

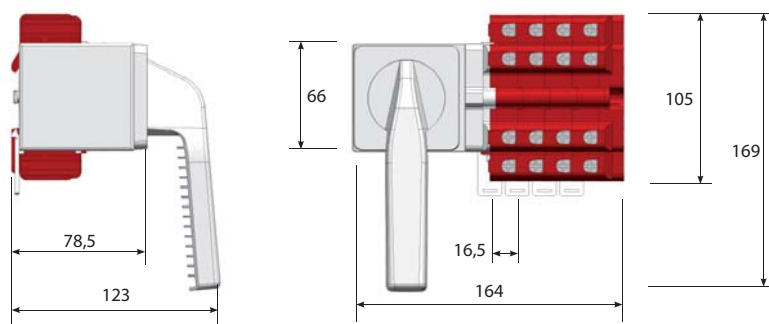


Dimensions

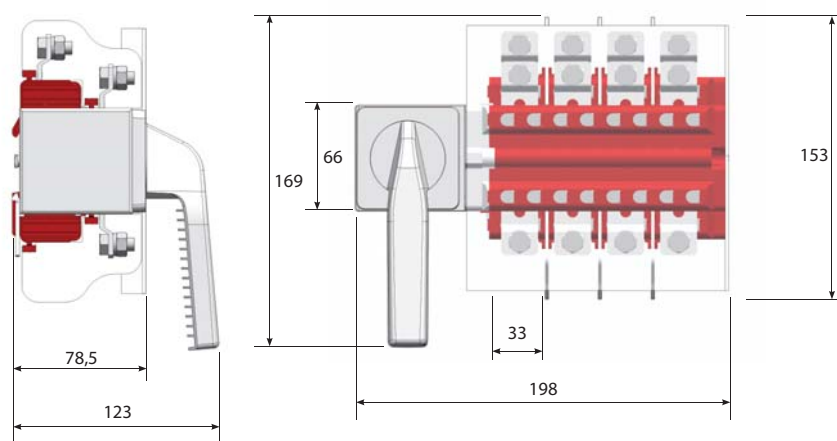
63A



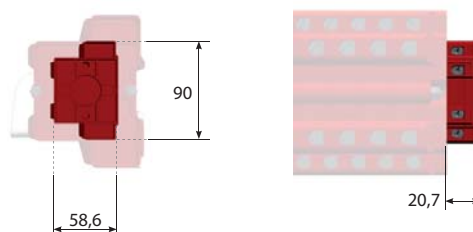
100A-125A



160A-200A-250A

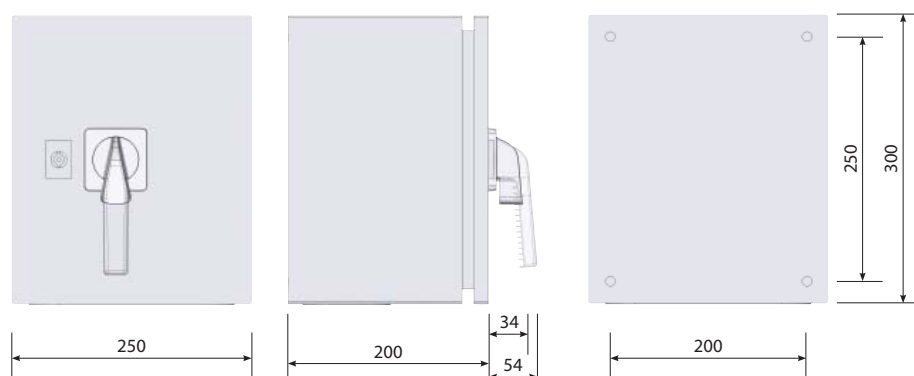


Auxiliary contacts

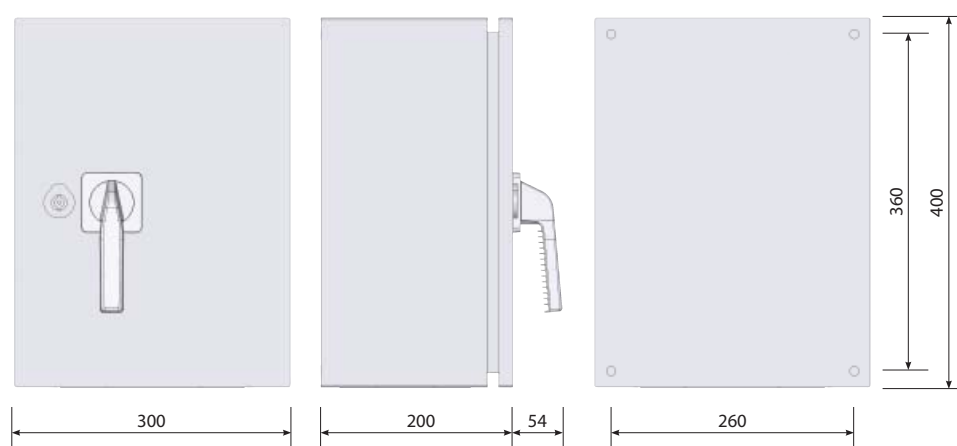


Enclosed changeover switches

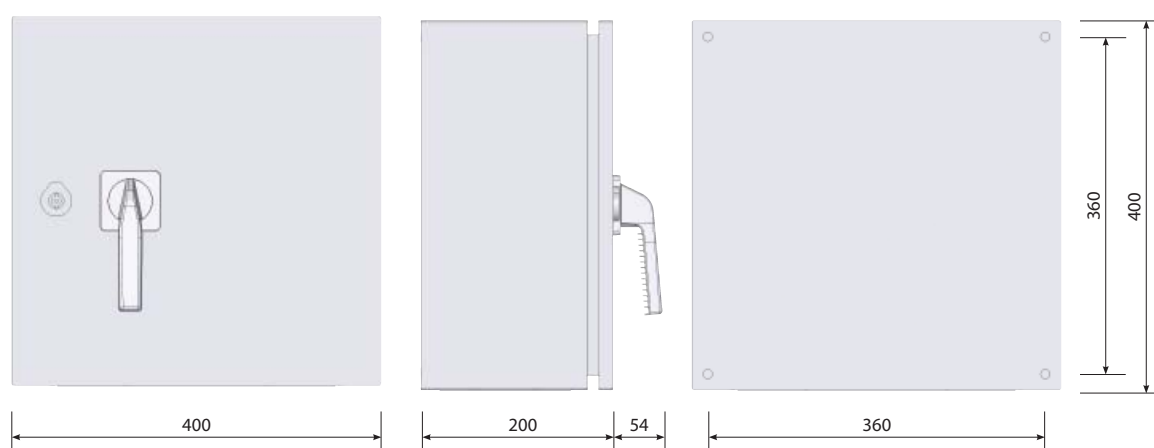
BOX E2



BOX E3



BOX E4



References



Changeover switches 1-0-2

Poles	A.C.	Scheme	63 A	100 A	125 A
3		562	LD5626100	LD5627100	LD5629100
3	●	562	LDA626100	LDA627100	LDA629100
4		563	LD5636100	LD5637100	LD5639100
4	●	563	LDA636100	LDA637100	LDA639100

Poles	A.C.	Scheme	160A	200A	250A
3		562	LD562A100	LD562B100	LD562C100
3	●	562	LDA62A100	LDA62B100	LDA62C100
4		563	LD563A100	LD563B100	LD563C100
4	●	563	LDA63A100	LDA63B100	LDA63C100

Changeover switches with overlapping I - I+II - II

Poles	A.C.	Scheme	63 A	100 A	125 A
3		542	LD5426100	LD5427100	LD5429100
3	●	542	LDA426100	LDA427100	LDA429100
4		543	LD5436100	LD5437100	LD5439100
4	●	543	LDA436100	LDA437100	LDA439100

Poles	A.C.	Scheme	160A	200A	250A
3		542	LD542A100	LD542B100	LD542C100
3	●	542	LDA42A100	LDA42B100	LDA42C100
4		543	LD543A100	LD543B100	LD543C100
4	●	543	LDA43A100	LDA43B100	LDA43C100

Changeover switches 1-0-2 with by-pass

Poles	A.C.	Scheme	63 A	100 A	125 A
3 + 6		983	LD9836100	LD9837100	LD9839100
3 + 6	●	983	LDA836100	LDA837100	LDA839100
4 + 8		984	LD9846100	LD9847100	LD9849100
4 + 8	●	984	LDA846100	LDA847100	LDA849100

Poles	A.C.	Scheme	160A	200A	250A
3 + 6		983	LD983A100	LD983B100	LD983C100
3 + 6	●	983	LDA83A100	LDA83B100	LDA83C100
4 + 8		984	LD984A100	LD984B100	LD984C100
4 + 8	●	984	LDA84A100	LDA84B100	LDA84C100



Enclosed 1-0-2 Changeover switches

Poles	A.C.	Boc	Scheme	63 A	100 A	125 A
3	●	E2	562	LDA626107	LDA627107	LDA629107
4	●	E3	563	LDA636107	LDA637107	LDA639107

Poles	A.C.	Box	Scheme	160A	200A	250A
3	●	E3	562	LDA62A107	LDA62B107	LDA62C107
4	●	E4	563	LDA63A107	LDA63B107	LDA63C107

Changeover switches with overlapping I - I+II - II

Poles	A.C.	Box	Scheme	63 A	100 A	125 A
3	●	E2	542	LDA426107	LDA427107	LDA429107
4	●	E3	543	LDA436107	LDA437107	LDA439107

Poles	A.C.	Box	Scheme	160A	200A	250A
3	●	E3	542	LDA42A107	LDA42B107	LDA42C107
4	●	E4	543	LDA43A107	LDA43B107	LDA43C107

Changeover switches 1-0-2 with by-pass

Poles	A.C.	Box	Scheme	63 A	100 A	125 A
3 + 6	●	E2	983	LDA836107	LDA837107	LDA839107
4 + 8	●	E3	984	LDA846107	LDA847107	LDA849107

Poles	A.C.	Box	Scheme	160A	200A	250A
3 + 6	●	E4	983	LDA83A107	LDA83B107	LDA83C107
4 + 8	●	E4	984	LDA84A107	LDA84B107	LDA84C107





Accessories

● Standard ● Optional

	Accessories compatibility table								
									
63 A	●	●	●	●	●	●	●	●	
100 A		●			●	●	●	●	
125 A		●			●	●	●	●	
160 A		●			●	●	●	●	●
200 A		●			●	●	●	●	●
250 A		●			●	●	●	●	●



Padlockable Handles

References	Colour	Handle
AK1200526	 red/yellow	Short
AK1200528	 red/yellow	Lever
AK1200146	 black/grey	Short
AK1200148	 black/grey	Lever



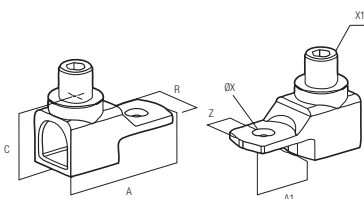
Protection Gasket IP65

Reference	Description
AK2240006	IP65 gasket protection 8mm.



Mounting kits

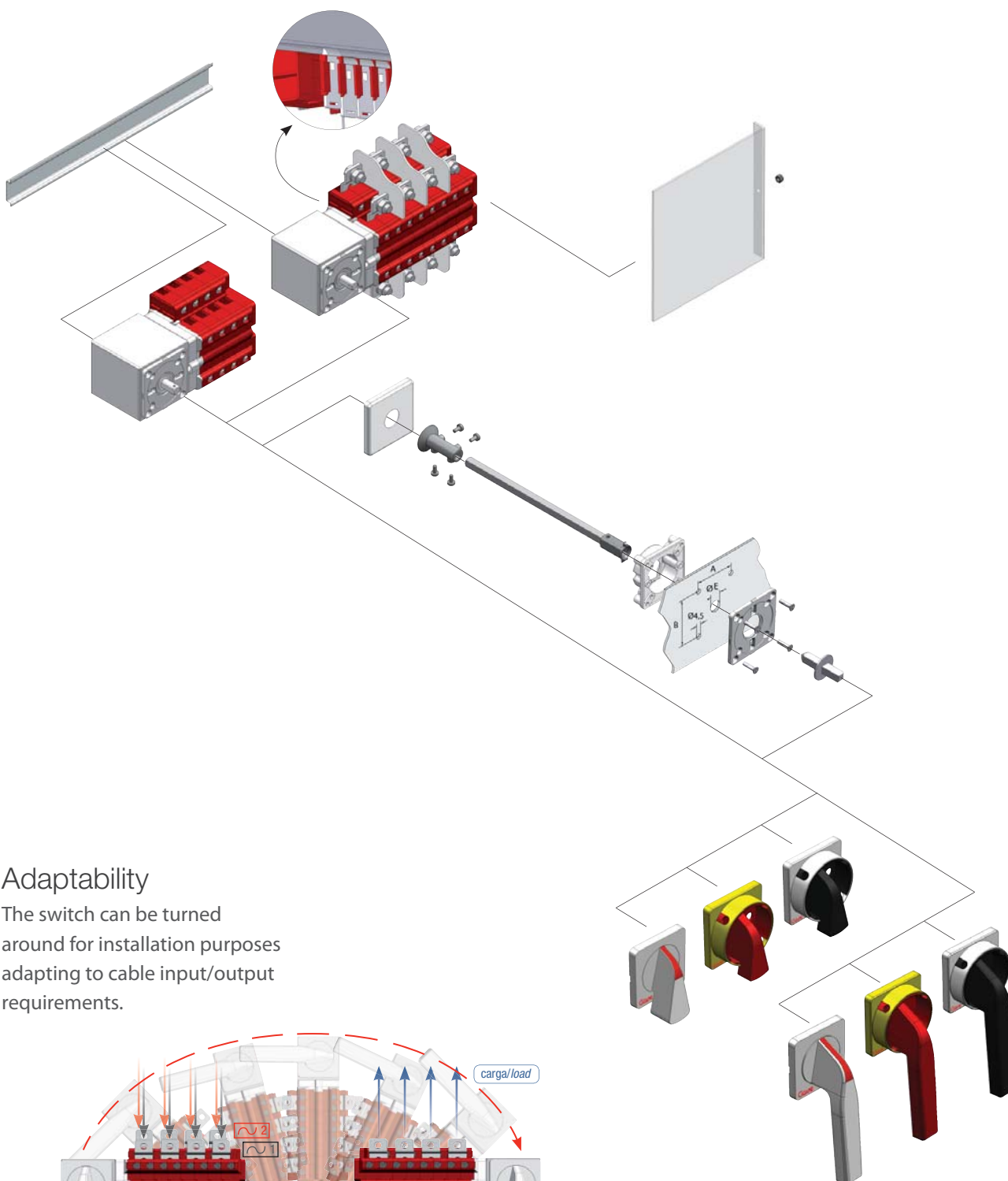
References	Description
LK0800006	Shaft 200 mm
LK1720006	External handle with interlock



Cage terminals

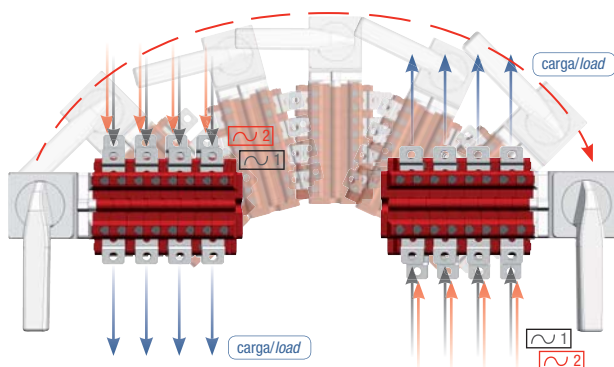
References	Rating	A	A1	C	R	ØX	X1	Z	Poles
5400 3016	160	47,5	22,5	25	20	8,5	M12	10	3 P
5400 4016	160	47,5	22,5	25	20	8,5	M12	10	4 P
5400 3025	200...250	62	31,5	31,5	25	10,5	M16	15	3 P
5400 4025	200...250	62	31,5	31,5	25	10,5	M16	15	4 P

Mounting Scheme



Adaptability

The switch can be turned around for installation purposes adapting to cable input/output requirements.



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