



Switching solutions for industry

Market leading range of switches and
switching solutions

With close to 80 years of experience in designing and manufacturing, Katko are market leaders in the field of industrial switching. APS Industrial are proud to bring a complete range of enclosed isolating switches, PV isolating switches and cable glands to the local Australian market.



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KATKO LOAD BREAK SWITCHING SOLUTIONS

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KATKO IN INDUSTRY

KATKO is a specialised manufacturer of load break switches, switch fuses, safety switches, motor protection switches and a range of complementary accessories. With close to 80 years of experience in designing and manufacturing load break switches, isolators and switch fuses, from their inception, Katko have been focused on product innovation and customer service.

Based in Finland and with manufacturing facilities both there and in Poland, APS Industrial are proud national distributors of the Katko range in Australia. The product portfolio covers a full range of enclosed switches in polycarbonate, ABS, aluminium, stainless steel and sheet steel to match all specifications in a broad spectrum of applications and industries



FOOD INDUSTRY

FOOD PROCESSING, DAIRY, MEAT PACKING & PROCESSING, BEVERAGE-MAKING.

KATKO is a solution provider for the global dairy industry, leading the way in both food hygiene and work safety. KATKO products can be tailored in collaboration with the customer to suit their specific hygiene and performance needs: endurance of both cold and warm jet water sprays, moisture, chemicals and detergents.



HEAVY INDUSTRY

WATER AND WASTE-WATER, POWER GENERATION, METAL MANUFACTURING, TIMBER, PULP AND PAPER.

KATKO solutions cover all fields of heavy industry. They have served pulp and paper companies for decades and have grown to be an essential part of the value chain for the widest spectrum of industries all around the world – ranging from metal manufacturing to water purification to strip mills.



HAZARDOUS AND DEMANDING AREAS

MINING AND PROCESSING, OIL AND GAS, FIRE AND MARINE.

Even the world's most demanding and hostile environments need to be switched on and off. KATKO delivers stainless steel casings and extra-strong handles for the mining industry in both the northern and southern hemispheres. Their ATEX products serve high-risk areas and their RINA-certified marine product range was chosen for the world's largest passenger vessel.



RENEWABLE ENERGY

PHOTOVOLTAIC, WIND POWER AND RECYCLING.

KATKO continuously works on new solutions for renewable energy – today's fastest growing area of energy production. The Nordic operational environment is the perfect laboratory setting for product development both because of the region's high-standard of research facilities and also because of its harsh and intensely varied climate.

- Polycarbonate (IP66) or ABS (IP65) enclosure.
- Good resistance against UV and many chemicals. Available in grey/black or yellow/red.



- Retained handle, you don't need to unscrew to remove the cover.

- 5 cable entries:
- M20 & M25 mm as standard on the top and bottom and M20 on the base.
- Knock-out glands are easy to open.
- Neutral & earth terminals fitted on 3 pole switch.
- Only earth on 4 pole switch.
- Large cable terminals
- 1,5 - 16 mm² up to 40A
- 2,5 - 35 mm² up to 80A
- Door interlock with defeat mechanism
- Self-extinguishing material and excellent insulating properties
- Padlocking in OFF position prevents access to the actuator.
- Reliable position indication
- Fully rated Load Break Switch. Breaking capacity of 8xAC23 rating. Back up fuse rating to match motor manufacturers recommendation.
- Enclosure mounting screws (4,5 mm in diameter) isolated from the inside housing keeping the integrity of the IP65/IP66 rating.
- Removable Contact Block.
- Enables unplugging the switch for easy cabling

CHOOSING THE CORRECT SWITCH FOR BEST ELECTRICAL PERFORMANCE, AND MECHANICAL ENDURANCE

Electrical Performance:

Utilisation Categories for Alternating Current (AC)

AC-20 Connecting and disconnecting under no-load

AC-21 Switching of resistive loads, including moderate overloads

AC-22 Switching of mixed loads, inductive and resistive loads including moderate overloads
(applicable when used as a main switch of a switchboard)

AC-23 Switching of motor loads or other highly inductive loads
(applicable when used as an isolator for a machine or a motor)

Utilisation Categories for Direct Current (DC)

DC-21B Switching of resistive loads, including moderate overloads

DC-PV1 Connecting and disconnecting single PV string(s) where reverse currents and significant overcurrent cannot occur.

DC-PV2 Connecting and disconnecting PV circuits where significant over currents may prevail and where current flow can be in both directions; for example, where several strings are connected in parallel and to the same inverter, or, one or more strings with a battery.

The Utilization category defines the products current ratings in the table (1.1 or 1.2). In the "Selection Table" you will find the utilization categories AC-22 and AC-23 for 415V, as these are the most commonly used categories. However, the 500V and the 690V ratings can be found in the KATKO product catalogue. Why 690V ratings? Heavy industrial sites are typically using higher voltages to minimize sizing of cables in high power applications. Most of the competitors offer products with only AC-20 and AC-21 ratings, which are then mathematically derated for other utilization categories. Important note is that an electrical motor takes 6-8 times the nominal current when its starting.

Protection against overvoltage: IEC 60364-4-44 defines four categories for impulse withstand, the highest one of which is 8 kV (equipment placed at the head of an installation). Most KATKO products are rated 8 kV – refer to the product catalogue.



Mechanical Endurance – Protection of the Switch:

Multiple options for enclosures are offered in order to maximise the longevity of the switch without compromising its electrical performance. When determining the correct enclosure material for the installation environment should be considered.

For example, KATKO polycarbonate enclosures are manufactured from the highest grade polycarbonate that incorporates, UV, and chemical resistance improving and flame retardant additives, and are IP66 protection class. However, in certain indoor and outdoor installations Aluminum enclosures out-run the Polycarbonate in longevity by a mile.

Customer can be reminded that “saving money in the short-term” doesn’t necessarily mean saving money. Having to later replace the lower price point isolator and discontinuing operations for the duration of installation, the overall costs associated with the lower price point isolator far exceed the difference in price of the appropriate solution for the application. This view point can be highlighted with sustainable values; buying 1 product instead of buying 2 products. Furthermore, the recycling properties of Aluminum are better than those of Plastic’s.

P54	Protected against dust – limited ingress permitted (no deposit) Protected against water sprayed from all directions – limited ingress permitted
IP55	IP55 Protected against dust – limited ingress permitted (no deposit) Protected against low pressure jets of water from all directions – limited ingress permitted
IP65	Totally protected against dust Protected against low pressure jets of water from all directions – limited ingress permitted
IP66	Totally protected against dust Protected against strong jets of water e.g. for use on shipdecks – limited ingress permitted
IP66NW	Totally protected against dust Protected against strong jets of water – no ingress permitted
IP67	Totally protected against dust Protected against the effects of immersion between 15 cm and 1m
IP69K	Totally protected against dust Protected against close-range high pressure, high temperature spray downs of up to 80°C



KEM POLYCARBONATE ENCLOSED ISOLATING SWITCHES 10-630 A



- | P66; Enclosure types M2, M3, M4
- | IP65; Enclosure types MF11, MF03, MF04
- | Self-extinguishing material
- | Wide operating temperature range
- | Padlockable
- | Door interlock with defeat mechanism
- | Excellent insulating properties
- | Good UV resistance
- | Good resistance against many chemicals
- | Available up to 630 A
- | For M2 and M3, Y/R is yellow cover with red handle
- | For large enclosure sizes Y/R is grey enclosure with yellow/red handle
- | Cable gland knock out entries provided for enclosure types M1, M2, M3, MF11
- | Gland plate entries provided for enclosure types MF01, MF02, MF03, MF04

1 POLE

PART NUMBER		IE A AC-23 (400/415V)	KW AC-23 (240V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEM110 M2	KEM110YR M2	10/10	2	M2	IP66
KEM116 M2	KEM116YR M2	16/16	3	M2	IP66
KEM125 M3	KEM125YR M3	25/25	4	M3	IP66

3 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEM310 M2	KEM310YR M2	10/10	5.5/7.5	M2	IP66
KEM316 M2	KEM316YR M2	16/16	7.5/11	M2	IP66
KEM325 M2	KEM325YR M2	25/25	11/22	M2	IP66
KEM325 M3	KEM325YR M3	25/25	11/22	M3	IP66
KEM340 M2	KEM340YR M2	40/32	22/30	M2	IP66
KEM340 M3	KEM340YR M3	40/32	22/30	M3	IP66
KEM363 M3	KEM363YR M3	40/40	22/37	M3	IP66
KEM380 M3	KEM380YR M3	63/40	30/37	M3	IP66
KEM3125 M4	KEM3125YR M4	125/80	55/75	M4	IP66
KEM3160 MF11	KEM3160YR MF11	160/100	90/90	MF11	IP65
KEM3200 MF03	KEM3200YR MF03	200/200	110/160	MF03	IP65
KEM3250 MF03	KEM3250YR MF03	250/250	132/250	MF03	IP65
KEM3250C MF11	KEM3250CYRMF11	250*	132*	MF11	IP65
KEM3400 MF03	KEM3400YR MF03	400/400	200/355	MF03	IP65
KEM3630 MF04	KEM3630YR MF04	630/500	355/500	MF04	IP65

* 400/415V only



4 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEM416 M2	KEM416YR M2	16/16	7.5/11	M2	IP66
KEM425 M2	KEM425YR M2	25/25	11/22	M2	IP66
KEM425 M3	KEM425YR M3	25/25	11/22	M3	IP66
KEM440 M2	KEM440YR M2	40/32	22/30	M2	IP66
KEM440 M3	KEM440YR M3	40/32	22/30	M3	IP66
KEM463 M3	KEM463YR M3	40/40	22/37	M3	IP66
KEM480 M3	KEM480YR M3	63/40	30/37	M3	IP66
KEM4125 M4	KEM4125YR M4	125/80	55/75	M4	IP66
KEM4160 MF11	KEM4160YR MF11	160/100	90/90	MF11	IP65
KEM4200 MF03	KEM4200YR MF03	200/200	110/160	MF03	IP65
KEM4250 MF03	KEM4250YR MF03	250/250	132/250	MF03	IP65
KEM4250C MF11	KEM4250CYRMF11	250*	132*	MF11	IP65
KEM4400 MF03	KEM4400YR MF03	400/400	200/355	MF03	IP65
KEM4630 MF04	KEM4630YR MF04	630/500	355/500	MF04	IP65

* 400/415V only

6 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEM616U	KEM616YR M3	16/16	7.5/11	M3	IP66
KEM625U	KEM625YR M3	25/25	11/22	M3	IP66
KEM640U	KEM640YR M3	40/32	22/30	M3	IP66
KEM663U	KEM663YR M3	40/40	22/37	M3	IP66
KEM680U	KEM680YR M3	63/40	30/37	M3	IP66
KEM6125	KEM6125YR MF11	125/80	55/75	MF11	IP66
KEM6160	KEM6160YR MF11	160/100	90/90	MF11	IP65

8 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEM825U	KEM825YR M3	25/25	11/22	M3	IP66



KEA ALUMINIUM ENCLOSED ISOLATING SWITCHES 16-250 A



- | IP66; Enclosure types A2, A4
- | IP65; Enclosure types A5, A6
- | IK08; A2, A4 (Degree of mechanical impact)
- | IK10; A5, A6
- | Wide operating temperature range
- | Good resistance against many chemicals
- | Good UV resistance
- | Excellent for hard weather conditions
- | Padlockable
- | Door interlock with defeat mechanism
- | Available up to 250 A
- | For A2 and A4, Y/R is yellow cover with red handle
- | For large enclosure sizes Y/R is grey enclosure with yellow/red handle
- | Cable gland entries provided for enclosure types A2
- | Gland plate entries provided for enclosures types A5, A6

3 POLE

PART NUMBER		IEA AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEA316 A2	KEA316YR A2	16/16	7.5/11	A2	IP66
KEA316 A4	KEA316YR A4	16/16	7.5/11	A4	IP66
KEA325 A2	KEA325YR A2	25/25	11/22	A2	IP66
KEA325 A4	KEA325YR A4	25/25	11/22	A4	IP66
KEA340 A2	KEA340YR A2	40/32	22/30	A2	IP66
KEA340 A4	KEA340YR A4	40/32	22/30	A4	IP66
KEA363 A4	KEA363YR A4	40/40	22/37	A4	IP66
KEA380 A4	KEA380YR A4	63/40	30/37	A4	IP66
KEA3125 A4	KEA3125YR A4	125/80	55/75	A4	IP66
KEA3160 A4	KEA3160YR A4	160/100	90/90	A4	IP66
KEA3200 A6	KEA3200YR A6	200/200	110/160	A6	IP65
KEA3200C A5	KEA3200CYR A5	200*	110*	A5	IP65
KEA3250 A6	KEA3250YR A6	200/200	110/160	A6	IP65

* 400/415V only

4 POLE

PART NUMBER		IEA AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEA416 A2	KEA416YR A2	16/16	7.5/11	A2	IP66
KEA425 A2	KEA425YR A2	25/25	11/22	A2	IP66
KEA440 A2	KEA440YR A2	40/32	22/30	A2	IP66
KEA463 A4	KEA463YR A4	40/40	22/37	A4	IP66
KEA480 A4	KEA480YR A4	63/40	30/37	A4	IP66
KEA4125 A4	KEA4125YR A4	125/80	55/75	A4	IP66
KEA4160 A4	KEA4160YR A4	160/100	90/90	A4	IP66
KEA4200C A5	KEA4200CYR A5	200*	110*	A5	IP65
KEA4250C A5	KEA4250CYR A5	250*	132*	A5	IP65

* 400/415V only

6 POLE

PART NUMBER		IEA AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEA616 A4	KEA616YR A4	16/16	7.5/11	A4	IP66
KEA625 A4	KEA625YR A4	25/25	11/22	A4	IP66
KEA640 A4	KEA640YR A4	40/32	22/30	A4	IP66
KEA663 A4	KEA663YR A4	40/40	22/37	A4	IP66
KEA680 A4	KEA680YR A4	63/40	30/37	A4	IP66
KEA6125 A5	KEA6125YR A5	125/80	55/75	A5	IP65
KEA6160 A5	KEA6160YR A5	160/100	90/90	A5	IP65

KER STAINLESS STEEL ENCLOSED HYGIENIC ISOLATING SWITCHES 16-1600 A



- | IP66; Enclosure types RA2, RA4, RA5
- | (AISI 316, acid proof)
- | IP65; Enclosure types R6, R7, R8, R10, R11
- | (AISI 304 as standard, AISI 316 on request)
- | Where hygiene and good protection against corrosion are required
- | Padlockable
- | Door interlock with defeat mechanism
- | Available up to 1600 A
- | Cable gland entries provided for enclosure RA2, RA4

3 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
BLACK HANDLE	YELLOW/RED HANDLE				
KER316 RA2	KER316YR RA2	16/16	7.5/11	RA2	IP66
KER325 RA2	KER325YR RA2	25/25	11/22	RA2	IP66
KER340 RA2	KER340YR RA2	40/32	22/30	RA2	IP66
KER363 RA4	KER363YR RA4	40/40	22/37	RA4	IP66
KER380 RA4	KER380YR RA4	63/40	30/37	RA4	IP66
KER3125 RA4	KER3125YR RA4	125/80	55/75	RA4	IP66
KER3160 RA5	KER3160YR RA5	160/100	90/90	RA5	IP66
KER3200 R6	KER3200YR R6	200/200	110/160	R6	IP65
KER3200C RA5	KER3200CYR RA5	200*	110*	RA5	IP65
KER3250 R6	KER3250YR R6	250/250	132/250	R6	IP65
KER3400 R6	KER3400YR R6	400/400	200/355	R6	IP65

4 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
BLACK HANDLE	YELLOW/RED HANDLE				
KER416 RA2	KER416YR RA2	16/16	7.5/11	RA2	IP66
KER425 RA2	KER425YR RA2	25/25	11/22	RA2	IP66
KER440 RA2	KER440YR RA2	40/32	22/30	RA2	IP66
KER463 RA4	KER463YR RA4	40/40	22/37	RA4	IP66
KER480 RA4	KER480YR RA4	63/40	30/37	RA4	IP66
KER4125 RA4	KER4125YR RA4	125/80	55/75	RA4	IP66
KER4160 RA5	KER4160YR RA5	160/100	90/90	RA5	IP66
KER4200 R6	KER4200YR R6	200/200	110/160	R6	IP65
KER4250 R6	KER4250YR R6	250/250	132/250	R6	IP65
KER4630 R7	KER4630YR R7	630/500	355/500	R7	IP65

6 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
BLACK HANDLE	YELLOW/RED HANDLE				
KER616 RA4	KER616YR RA4	16/16	7.5/11	RA4	IP66
KER625 RA4	KER625YR RA4	25/25	11/22	RA4	IP66
KER640 RA4	KER640YR RA4	40/32	22/30	RA4	IP66
KER680 RA4	KER680YR RA4	63/40	30/37	RA4	IP66
KER6100 RA5	KER6100YR RA5	80/63	45/55	RA5	IP66
KER6160 RA5	KER6160YR RA5	160/100	90/90	RA5	IP66

KER_R STAINLESS STEEL ENCLOSED ISOLATING SWITCHES 16-160 A



- | Designed for hygienic and heavy environments
 - | Easy to install and to keep clean
 - | IP66, stainless steel enclosure
 - | Acid proof, AISI 316
 - | Rainhood protection with angled top
 - | Padlockable stainless steel handle
 - | Available up to 160 A
- | Cable gland entries provided for enclosure types RA2R, RA2S, RA4R, RA4RS

3 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
FLAT ROOF	ANGLED ROOF				
KER316RA2R		16/16	7.5/11	RA2R	IP66
	KER316RA2RS	16/16	7.5/11	RA2RS	IP66
KER325RA2R		25/25	11/22	RA2R	IP66
KER340RA2R		40/32	22/30	RA2R	IP66
	KER340RA2RS	40/32	22/30	RA2RS	IP66
KER363RA4R		40/40	22/37	RA4R	IP66
KER380RA4R		63/40	30/37	RA4R	IP66
	KER3125RA5RS	125/80	55/75	RA5RS	IP66
	KER3160RA5RS	160/100	90/90	RA5RS	IP66

4 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
FLAT ROOF	ANGLED ROOF				
KER416RA2R		16/16	7.5/11	RA2R	IP66
	KER416RA2RS	16/16	7.5/11	RA2RS	IP66
KER425RA2R		25/25	11/22	RA2R	IP66
KER440RA2R		40/32	22/30	RA2R	IP66
KER480RA4R		63/40	30/37	RA4R	IP66
	KER480RA4RS	63/40	30/37	RA4RS	IP66

6 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
FLAT ROOF	ANGLED ROOF				
KER625RA4R		25/25	11/22	RA4R	IP66



KER_R STAINLESS STEEL ENCLOSED VISUAL ISOLATING SWITCHES 250 - 800 A



- | 316 stainless steel enclosed
- | Chemical and impact resistant, Acid proof, AISI 316
- | IP66 rated enclosure
- | Rainhood protection with angled top
- | Enclosure types, RA6AVS, RA7AVS, RA7BVS, RA10VS
- | Single rotary handle on door with 3-point locking mechanism
- | Padlockable in OFF. Padlock ON option
- | Isolation rated to IEC 60947.3 and AS/NZS 60947.3
- | Visual status indication window in enclosure
- | KU250-800 switches include visual status window on front of switch body
- | Available in ampere ratings 250 - 800 A
- | Rated to 415 VAC and 690 VAC
- | Earth terminals
- | Wall fixing / lifting hooks

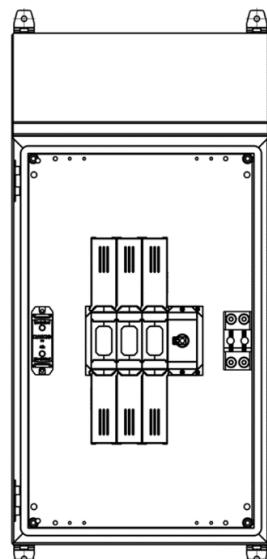
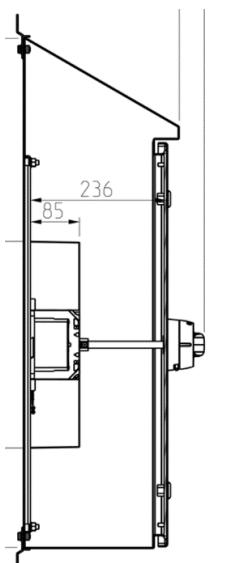
3 POLE

PART NUMBER	IE A (415/690V) AC-21A AC-22A AC-23A	KW (415/690V) AC-23	ENCLOSURE TYPE	ENCLOSURE SIZE	IP RATING
KER3250 RA6 AVS	250/250	132/250	RA6 AVS	345 x 657 x 200	IP66
KER3400 RA7 AVS	400/400	200/355	RA7 AVS	445 x 886 x 250	IP66
KER3630 RA7 BVS	630/630	355/630	RA7 BVS	575 x 1046 x 250	IP66
KER3800 RA10 VS	800/800	400/800	RA10 VS	800 x 1415 x 300	IP66

4 POLE

PART NUMBER	IE A (415/690V) AC-21A AC-22A AC-23A	KW (415/690V) AC-23	ENCLOSURE TYPE	ENCLOSURE SIZE	IP RATING
KER4250 RA6 AVS	250/250	132/250	RA6 AVS	345 x 657 x 200	IP66
KER4400 RA7 AVS	400/400	200/355	RA7 AVS	445 x 886 x 250	IP66
KER4630 RA7 BVS	630/630	355/630	RA7 BVS	575 x 1046 x 250	IP66
KER4800 RA10 VS	800/800	400/800	RA10 VS	800 x 1415 x 300	IP66

CONSTRUCTION REPRESENTATION



**NEW KER
250-800A
SWITCHES**

KER_IP69K STAINLESS STEEL ENCLOSED ISOLATING SWITCHES IP69K



- | 316 stainless steel enclosed
- | Enclosure types, RA2, RA4 rated to IP69K
- | IP69K safety switches protect against close range high pressure and high temperature spraydowns
- | Available in 2 different enclosure sizes and larger sizes on request
- | 3 and 4 pole up to 125A, larger sizes available.
- | Padlockable in OFF as standard
- | Door interlock with defeat mechanism
- | Black handle or red/yellow safety handle versions
- | Cable gland entries provided for enclosures RA2, RA4

3 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
BLACK HANDLE	YELLOW/RED HANDLE				
KER316IP69K RA2	KER316YRIP69K RA2	16/16	7.5/11	RA2	IP69K
KER325IP69K RA2	KER325YRIP69K RA2	25/25	11/22	RA2	IP69K
KER340IP69K RA2	KER340YRIP69K RA2	40/32	22/30	RA2	IP69K
KER3100IP69K RA2	KER3100YRIP69K RA4	80/63	45/55	RA4	IP69K
KEAR3125IP69K RA2	KER3125YRIP69K RA4	125/80	55/75	RA4	IP69K

4 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
BLACK HANDLE	YELLOW/RED HANDLE				
KER416IP69K RA2	KER416YRIP69K RA2	16/16	7.5/11	RA2	IP69K
KER425IP69K RA2	KER425YRIP69K RA2	25/25	11/22	RA2	IP69K
KER463IP69K RA4	KER463YRIP69K RA4	40/40	22/37	RA4	IP69K
KER4125IP69K RA4	KER4125YRIP69K RA4	125/80	55/75	RA4	IP69K



KER_IP65K STAINLESS STEEL ENCLOSED SAFETY SWITCHES / ISOLATORS IP69K RAINHOOD PROTECTION 16-125A



- | IP69K rating
- | LK11 handle (black or yellow/red)
- | Sloped roof for extra protection
- | Where hygiene and good protection against corrosion are required
- | Padlockable
- | Door interlock with defeat mechanism
- | Cable gland entries provided for enclosure type RA2S, RA4S

3 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
BLACK HANDLE	YELLOW/RED HANDLE				
KER316IP69K RA2S	KER316YRIP69K RA2S	16/16	7.5/11	RA2S	IP69K
KER325IP69K RA2S	KER325YRIP65K RA2S	25/25	11/22	RA2S	IP69K
KER340IP69K RA2S	KER340YRIP65K RA2S	40/32	22/30	RA2S	IP69K
KER3100IP69K RA4S	KER3100YRIP65K RA4S	80/63	45/55	RA4S	IP69K
KER3125IP69K RA4S	KER3125YRIP65K RA4S	125/80	55/75	RA4S	IP69K

4 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
BLACK HANDLE	YELLOW/RED HANDLE				
KER416IP69K RA2S	KER416YRIP69K RA2S	16/16	7.5/11	RA2S	IP69K
KER425IP69K RA2S	KER425YRIP65K RA2S	25/25	11/22	RA2S	IP69K
KER463IP69K RA4S	KER463YRIP65K RA4S	40/40	22/37	RA4S	IP69K
KER4125IP69K RA4S	KER4125YRIP65K RA4S	125/80	55/75	RA4S	IP69K

KET STEEL ENCLOSED ISOLATING SWITCHES 40 - 800 A



- | IP65
- | High corrosion resistance
- | Wide operating temperature range
- | Padlockable
- | Door interlock with defeat mechanism
- | Sloping roof, front window, sheet steel and stainless steel types refer APS
- | Enclosure sizes T3 and T4. Larger box size options
- | Excellent Insulating properties
- | High UV resistance
- | High resistance against many chemicals
- | Available in 16A - 1600A on request
- | Cable gland knock provided for enclosure T3
- | Gland plate entries provided for enclosures T7, T8, T10A, T10

3 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
BLACK HANDLE	YELLOW/RED HANDLE				
KET340 T3	KET340YR T3	40/32	22/30	T3	IP65
KET363 T3	KET363YR T3	63/40	30/37	T3	IP65
KET380 T3	KET380YR T3	63/40	30/37	T3	IP65
KET3100 T4	KET3100YR T4	100/63	55/55	T4	IP65
KET3125 T4	KET3125 YR T4	125/80	55/75	T4	IP65
KET3160 T5	KET3160 YR T5	160/100	90/90	T5	IP65
KET3200 T6	KET3200 YR T6	200/200	110/160	T6	IP65
KET3250 T6	KET3250 YR T6	250/250	132/250	T6	IP65
KET3315 T6	KET3315 YR T6	315/315	160/315	T6	IP65
KET3400 T6	KET3400 YR T6	400/400	200/355	T6	IP65
KET3630 T7	KET3630 YR T7	630/630	355/630	T7	IP65
KET3800 T10A	KET3800 YR T10A	800/800	400/800	T10A	IP65

4 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
BLACK HANDLE	YELLOW/RED HANDLE				
KET440 T3	KET440YR T3	40/32	22/30	T3	IP65
KET463 T3	KET463YR T3	63/40	30/37	T3	IP65
KET480 T3	KET480YR T3	63/40	30/37	T3	IP65
KET4100 T4	KET4100YR T4	100/63	55/55	T4	IP65
KET4125 T4	KET4125 YR T4	125/80	55/75	T4	IP65
KET4160 T5	KET4160 YR T5	160/100	90/90	T5	IP65
KET4200 T6	KET4200 YR T6	200/200	110/160	T6	IP65
KET4250 T6	KET4250 YR T6	250/250	132/250	T6	IP65
KET4315 T6	KET4315 YR T6	315/315	160/315	T6	IP65
KET4400 T6	KET4400 YR T6	400/400	200/355	T6	IP65
KET4630 T7	KET4630 YR T7	630/630	355/630	T7	IP65
KET4800 T10A	KET4800 YR T10A	800/800	400/800	T10A	IP65

6 POLE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
BLACK HANDLE	YELLOW/RED HANDLE				
KET640 T3	KET640YR T3	40/32	22/30	T3	IP65
KET680 T3	KET680YR T3	63/40	30/37	T3	IP65

KEM EMC PROTECTED ENCLOSED ISOLATING SWITCHES 16-125 A



- | Electromagnetic compatibility ensures safe operation in environments with electromagnetic disturbance
- | Tested according to EN 55011 with EMC glands shielded power cable
- | IP66; Enclosure types M2, M3, M3, M4, A2, A3
- | Available in polycarbonate up to 80 A, aluminium up to 125 A and sheet steel up to 630 A
- | Also available in T5, T6 and T7 enclosure types (sheet steel IP65 types)
- | Padlockable
- | Door interlock with defeat mechanism
- | EMC cable glands included
- | For M2 and M3, Y/R is a yellow cover with a red handle
- | For large enclosure sizes Y/R is grey enclosure with yellow/red handle
- | Cable gland knock out entries provided for enclosure types M2, M3, A2, A4

3 POLE - POLYCARBONATE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEM316 M2EMC	KEM316YR M2EMC	16/16	7.5/11	M2	IP66
KEM325 M2EMC	KEM325YR M2EMC	25/25	11/22	M2	IP66
KEM340 M2EMC	KEM340YR M2EMC	40/32	22/30	M2	IP66
KEM363 M3EMC	KEM363YR M3EMC	40/40	22/37	M3	IP66
KEM380 M3EMC	KEM380YR M3EMC	63/40	30/37	M3	IP66
KEM3125 M4EMC	KEM3125YR M4EMC	125/80	55/75	M4	IP65

4 POLE - POLYCARBONATE

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEM425 M2EMC	KEM425YR M2EMC	25/25	11/22	M2	IP66
KEM463 M3EMC	KEM463YR M3EMC	40/40	22/37	M3	IP66
KEM480 M3EMC	KEM480YR M3EMC	63/40	30/37	M4	IP65

3 POLE - ALUMINUM

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE				
KEA316 A2EMC	KEA316YR A2EMC	16/16	7.5/11	A2	IP66
KEA325 A2EMC	KEA325YR A2EMC	25/25	11/22	A2	IP66
KEA340 A2EMC	KEA340YR A2EMC	40/32	22/30	A2	IP66
KEA363 A4EMC	KEA363YR A4EMC	40/40	22/37	A4	IP66
KEA380 A4EMC	KEA380YR A4EMC	63/40	30/37	A4	IP66
KEA3125 A4EMC	KEA3125YR A4EMC	125/80	55/75	A4	IP65

KSM SIDE OPERATED POLYCARBONATE ENCLOSED ISOLATING SWITCHES 16-25A



- | IP67 without cable glands, IP65 with cable glands
- | Fully rated Load Break Switch
- | Resistant against UV and many chemicals
- | Membrane gasket cable entries with strain relief as standard, 2 x 20mm on top, 2 x 20mm on bottom and 2 x 15mm on base
- | Wall mounting with membrane gaskets
- | Wall mounting dimensions: 90x62mm position
- | Large 1,5 - 16 mm² cable terminals
- | Padlockable handle to off-position
- | Handle sealable to on-position
- | Enclosure can be sealed in and position
- | Available 2, 3, 4P and with auxiliary contact (S)
- | Large 1,5 - 16 mm² Neutral and earth terminals on 3P switch, earth on 2P and 4P switches
- | Door interlock

3 POLE

PART NUMBER GREY ENCLOSURE BLACK HANDLE	IE A AC-23 (400V)	KW AC-23 (400V)	POLES
KSM225 M1	25	11	2P
KSM325 M1	25	11	3P
KSM425 M1	25	11	4P

KEA FIRE RATED ALUMINIUM ENCLOSED ISOLATING SWITCHES 16-200A



- | F200 3H (FR) / F300 2H (FR3)
- | IP66 rating in enclosures A2 and A4
- | IP65 rating in enclosures A5 and A6
- | Available up to 200 A
- | Door interlock with defeat mechanism
- | Padlockable, OFF locking as standard

- | ON-locking option ¹⁾
- | High corrosion and UV resistance
- | Excellent for hard weather conditions
- | Available up to 200 A
- | Cable gland entries provided for enclosure type A2

F200 3H

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
RED ENCLOSURE BLACK HANDLE	NO. POLES				
KEA325FR A2	3	25/25	11/22	A2	IP66
KEA340FR A2	3	40/32	22/30	A2	IP66
KEA380FR A3	3	63/40	30/37	A3	IP66
KEA440FR A2	4	40/32	22/30	A2	IP66
KEA480FR A4	4	63/40	30/37	A4	IP66
KEA640FR A4	6	40/32	22/30	A4	IP66
KEA680FR A4	6	63/40	30/37	A4	IP66

F200 3H = 200°C for 3 hours

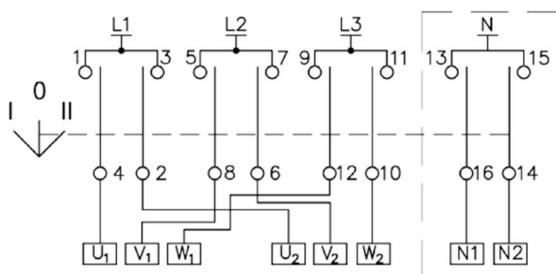
F300 2H

PART NUMBER		IE A AC-23 (415/690V)	KW AC-23 (415/690V)	ENCLOSURE SIZE	IP RATING
RED ENCLOSURE BLACK HANDLE	NO. POLES				
KEA340FR3 A2	3	40/32	22/30	A2	IP66
KEA380FR3 A3	3	63/40	30/37	A3	IP66
KEA440FR3 A3	4	40/32	22/30	A3	IP66
KEA480FR3 A4	4	63/40	30/37	A4	IP66
KEA640FR3 A4	6	40/32	22/30	A4	IP66
KEA680FR3 A4	6	63/40	30/37	A4	IP66

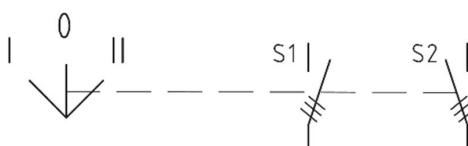
F300 2H = 300°C for 2 hours

Note

For Lock ON, insert "LON" before the letter "A". Example: KEA325FR LON A2. The Lock ON option allows lock ON only – there is no lock OFF.



TK VV circuit diagram



KEM/KEA VV circuit diagram

TKM, KEM, KEA CHANGEOVER SWITCHES



- | Polycarbonate (TKM, KEM) or aluminium (KEA) enclosures
- | TKM-models with cam switch 25 to 40 A, other types to 160A
- | KEM and KEA models consist of two KU or VKA switches interlocked, from 40A to 160A
- | 3 and 4 pole types
- | IP66; enclosure types M2, M3
- | IP65; enclosure type MF11
- | Self-extinguishing material
- | Excellent insulating properties
- | Wide operating temperature range
- | High resistance against many chemicals
- | High UV resistance
- | Padlockable in OFF
- | Door interlock with defeat mechanism
- | IEC 60947-3, AS/NZS 60947-3
- | Cable gland knock out entries provided for enclosure types M2, M3, MF11

CHANGEOVER SWITCHES, 3 POLE, POLYCARBONATE

PART NUMBER		IE A, AC-23 (415 V)	KW, AC-23 (415 V)	IE A, AC-23 (690 V)	KW, AC-23 (690 V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE						
TKM 325VV M2 3XM25P	TKM 325VV YR M2 3XM25P	25	11	-	-	M2	IP66NW
TKM 340VV M2 3XM32P	TKM 340VV YR M2 3XM32P	40	18.5	-	-	M2	IP66NW
KEM325VV M3	KEM325VV YR M3	25	11	25	22	M3	IP66
KEM340VV M3	KEM340VV YR M3	40	22	32	30	M3	IP66
KEM363VV M3	KEM363VV YR M3	40	22	40	37	M3	IP66
KEM380VV M3	KEM380VV YR M3	63	30	40	37	M3	IP66
KEM3125 CO MF11	KEM3125 CO YR MF11	125	55	80	75	MF11	IP65
KEM3160 CO MF11	KEM3160 CO YR MF11	160	90	100	90	MF11	IP65

CHANGEOVER SWITCHES, 4 POLE, POLYCARBONATE

PART NUMBER		IE A, AC-23 (415 V)	KW, AC-23 (415 V)	IE A, AC-23 (690 V)	KW, AC-23 (690 V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE						
Part Number		(415 V)		(690 V)			
TKM 425VV M2 3XM25P	TKM 425VV YR M2 3XM25P	25	11	-	-	M2	IP66NW
TKM 440VV M2 3XM32P	TKM 440VV YR M2 3XM32P	40	18.5	-	-	M2	IP66NW
KEM425VV M3	KEM425VV YR M3	25	11	25	22	M3	IP66
KEM440VV M3	KEM440VV YR M3	40	22	32	30	M3	IP66
KEM463VV M3	KEM463VV YR M3	40	22	40	37	M3	IP66
KEM480VV M3	KEM480VV YR M3	63	30	40	37	M3	IP66
KEM4125VV CO MF11	KEM4125VV CO YR MF11	125	55	80	75	MF11	IP65
KEM4160VV CO MF11	KEM4160VV CO YR MF11	160	90	100	90	MF11	IP65

CHANGEOVER SWITCHES, 4 POLE, ALUMINIUM

PART NUMBER		IE A, AC-23 (415 V)	KW, AC-23 (415 V)	IE A, AC-23 (690 V)	KW, AC-23 (690 V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE						
KEA325VV A4	KEA325VV YR A4	25	11	25	22	A4	IP66
KEA340VV A4	KEA340VV YR A4	40	22	32	30	A4	IP66
KEA363VV A4	KEA363VV YR A4	40	22	40	37	A4	IP66
KEA380VV A4	KEA380VV YR A4	63	30	40	37	A4	IP66

CHANGEOVER SWITCHES, 4 POLE, ALUMINIUM

PART NUMBER		IE A, AC-23 (415 V)	KW, AC-23 (415 V)	IE A, AC-23 (690 V)	KW, AC-23 (690 V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE						
KEA325VV A4	KEA325VV YR A4	25	11	25	22	A4	IP66
KEA340VV A4	KEA340VV YR A4	40	22	32	30	A4	IP66
KEA363VV A4	KEA363VV YR A4	40	22	40	37	A4	IP66
KEA380VV A4	KEA380VV YR A4	63	30	40	37	A4	IP66

TKM / KEM REVERSING SWITCHES

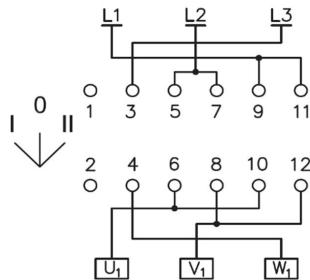


- | Cam switch based switching
- | Polycarbonate enclosure
- | IP66NW (AS/NZS 60947-3: 2018)
- | Rated thermal current I_{th}: 25 - 40 A
- | Padlockable in OFF
- | Door interlock with defeat mechanism
- | IEC 60947-3, AS/NZS 60947-3
- | Star Delta reversing switches available
- | Terminals: Cu 1.5 - 16 mm²
- | Max. terminal torque: 1.8 Nm
- | Cable gland knock out entries provided for enclosure type M2

REVERSING SWITCHES, 3 POLE, POLYCARBONATE

PART NUMBER		IE A, AC-23 (415 V)	KW, AC-23 (415 V)	IE A, AC-23 (690 V)	KW, AC-23 (690 V)	ENCLOSURE SIZE	IP RATING
GREY ENCLOSURE BLACK HANDLE	YELLOW/RED HANDLE						
TKM325SK M2 3XM25P	TKM425SK YR M2 3XM25P	25	11	-	-	M2	IP66
TKM340SK M2 2XM32P	TKM440SK YR M2 2XM32P	40	18.5	-	-	M2	IP66

Connection diagrams:
TKM 325U SK



LOAD BREAK SWITCHES

16-40A ROTARY SWITCHES LOADSAFE KU and RT SERIES



- | Compact size, DIN-rail or screw mounting
- | 3 pole and 4 pole versions
- | Switch technology by means of silver contacts ensures safe and durable operation
- | Compatible with handles LKX50 and LK10
- | RT version is suitable for door mounting and will be delivered with 42 mm shaft and LKX50 (black) or LKX50YR (yellow/red) handle
- | KU 3 and 4 pole will be delivered with black direct handle
- | Shafts L=100/200/300 AD11 and AD11/VT



KU PANEL MOUNT TYPE



RT DOOR MOUNT TYPE

SWITCHES: KU AND RT

PART NUMBER	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	AC-23A 690 V (A)	AC-23A 690 V (kW)	SWITCH TYPE	NUMBER OF POLES
KU 316	16	7,5	16	11	Load Break Switch	3
KU 325	25	11	25	22	Load Break Switch	3
KU 340	40	22	25	22	Load Break Switch	3
KU 416	16	7,5	16	11	Load Break Switch	4
KU 425	25	11	25	22	Load Break Switch	4
KU 440	40	22	25	22	Load Break Switch	4
RT 316 L42LKX50	16	7,5	16	11	Door mounting LBS	3
RT 325 L42LKX50	25	11	25	22	Door mounting LBS	3
RT 340 L42LKX50	40	22	25	22	Door mounting LBS	3
RT 316 L42LKX50YR	16	7,5	16	11	Door mounting LBS	3
RT 325 L42LKX50YR	25	11	25	22	Door mounting LBS	3
RT 340 L42LKX50YR	40	22	25	22	Door mounting LBS	3



KU AND RT RELATED ACCESSORIES

PART NUMBER	ACCESSORY	DESCRIPTION	FOR
LKX50	Handle	Black	All configurations
LKX50YR	Handle	Yellow/red	All configurations
L42	Shaft	Length 42 mm, aluminium	RT
L42AD11	Shaft	Length 42 mm, aluminium	KU
LK10	Handle	Black	All configurations
LK10YR	Handle	Yellow/red	All configurations
L200AD11	Shaft	Length 200 mm, aluminium	All configurations
L300AD11	Shaft	Length 300 mm, aluminium	All configurations
L100AD11VT	Shaft	Length 100 mm, steel, slanted	All configurations
L300AD11VT	Shaft	Length 300 mm, steel, slanted	All configurations

ROTARY LOAD BREAK SWITCHES

KU SERIES - COMPACT, 16-125A, RED HANDLE



- | Compact size, DIN-rail mounting
- | 6-pole and 8-pole versions consist of two 3-pole or 4-pole KU-switches connected by a parallel kit
- | Switch technology by means of silver contacts ensures safe and durable operation
- | 4-pole versions with early-make and late-break neutral pole
- | Compatible with handles LK10 and LK11
- | Shafts L=100/200/300 AD11 and AD11/VT

3 POLE

PART NUMBER	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
KU316N		
KU325N		
KU340N	32/32	15/30
KU363N		
KU380N	63/40	30/37

4 POLE

PART NUMBER	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
KU416N		
KU425N	25/25	11/22
KU440N	32/32	15/30
KU463N		
KU480N	63/40	30/37

KU N SERIES ACCESSORIES

PART NUMBER	ACCESSORY	DESCRIPTION	FOR
LK10	Handle	Black	3 & 4 pole, lock OFF
LK10YR	Handle	Yellow/red	3 & 4 pole, lock OFF
LK10YRON	Handle	Yellow/red	3 & 4 pole, lock ON
LK11	Handle	Black	3 & 4 pole, lock OFF, with lever
LK11YR	Handle	Yellow/red	3 & 4 pole, lock OFF, with lever
LK11IP69K	Handle	Black	3 & 4 pole, lock OFF, with lever
LK11YRIP69K	Handle	Yellow/red	3 & 4 pole, lock OFF, with lever
LK11YRON	Handle	Yellow/red	3 & 4 pole, lock ON, with lever
L200AD11	Shaft	Length 200 mm, Aluminium	With LK10 and LK11 handles
L300AD11	Shaft	Length 300 mm, Aluminium	With LK10 and LK11 handles
L100AD11VT	Shaft	Length 100 mm, steel, slanted	With LK10 and LK11 handles
L300AD11VT	Shaft	Length 300 mm, steel, slanted	With LK10 and LK11 handles
KKU3P	Front plate	Grey plate, black direct handle	3-pole
KKU4P	Front plate	Grey plate, black direct handle	4-pole
KKU3PYR	Front plate	Yellow plate, red direct handle	3-pole
KKU4PYR	Front plate	Yellow plate, red direct handle	4-pole
KU1V	Auxiliary contact	1NO/1NC, fit max. 1	For all configurations 3-8 pole
KU2V	Auxiliary contact	2NO/2NC, fit max. 1	For all configurations 3-8 pole
RV66	Parallel kit	Length 66 mm, center shaft	2 x 3-pole
RV66S	Parallel kit	Length 66 mm, side shaft	2 x 3-pole
RV80	Parallel kit	Length 80 mm, center shaft	2 x 4-pole
RV80S	Parallel kit	Length 80 mm, side shaft	2 x 4-pole
LK11CO102	Handle	Black	Change-over
LK11CO102YR	Handle	Yellow/red	Change-over
KUVV	Change-over kit	Positions 1, 0, 2, black handle	3 or 4-pole
KUVVYR	Change-over kit	Positions 1, 0, 2, red handle	3 or 4-pole

KU SERIES - MODULAR, 100-160A, BLACK HANDLE



- | Modular design DIN-rail mounting 6 pole and 8 pole switches consist of two 3 pole or 4 pole switches and a parallel operation kit
- | Silver contacts increase the degree of safety and overall reliability of switching
- | Compatible with handles LK10, LK11(3 pole and 4 poles) and LK12 (6 and 8 poles and change-over switch)
- | Shafts: L=100/200/300 AD11 and AD11/VT (3 and 4 poles), L=100/200/300 AD12/T (6 and 8 poles and change-over switch)

3 POLE

PART NUMBER	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
KU3100	100/63	55/55
KU3125	125/80	55/75
KU3160	160/100	90/90
KU3160CO	160/100	90/90

4 POLE

PART NUMBER	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
KU4100	100/63	55/55
KU4125	125/80	55/75
KU4160	160/100	90/90
KU4100CO	100/63	55/55
KU4125CO	125/80	55/75
KU4160CO	160/100	90/90

6 POLE

PART NUMBER	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
KU6100	100/63	55/55
KU6125	125/80	55/75
KU6160	160/100	90/90

KU SERIES ACCESSORIES

PART NUMBER	ACCESSORY	DESCRIPTION	FOR
LK10	Handle	Black	3 & 4 pole
LK10YR	Handle	Yellow/red	3 & 4 pole
LK11	Handle	Black	3 & 4 pole
LK11YR	Handle	Yellow/red	3 & 4 pole
LK11IP69K	Handle	Black	3 & 4 pole
LK11YRIP69K	Handle	Yellow/red	3 & 4 pole
L100AD11VT	Shaft	Length 100 mm, steel, slanted	With LK10 and LK11 handles
L300AD11VT	Shaft	Length 300 mm, steel, slanted	With LK10 and LK11 handles
PK160KU	Parallel Kit	Clip on kit	For 2 x 3 or 4 pole switches
CO160KU	Changeover Kit	CO kit for 3 pole changeover switches	3 Pole switches 100 A to 160 A
1V160KU	Auxiliary contact	1NO/1NC	For all configurations
2V160KU	Auxiliary contact	2NO/2NC	For all configurations
LS160	Cover	Terminal cover for 3 poles	For KU_100 – KU_160. Covers 3 poles
LSN160	Cover	Terminal cover for N-pole	4 & 8 pole and 4 pole change-over
LK12	Handle	Black	6 & 8 pole switches
LK12YR	Handle	Yellow/red	6 & 8 pole switches
LK12CO102	Handle	Black	Changeover switch
LK12CO102YR	Handle	Yellow/red	Changeover switch
L100AD12T	Shaft	Length 100 mm, steel, slanted	With LK12 handle
L300AD12T	Shaft	Length 300 mm, steel, slanted	With LK12 handle

VKA SERIES 125-250A, BLACK HANDLE & SHAFT INCLUDED



- | 3 pole and 4 pole VKA switches as standard
- | Switch technology by means of silver contacts ensures safe and durable operation
- | 4 pole versions with early-make and late-break neutral pole
- | Handle LK12 and shaft L228AD12T6 shaft included for 250A version only
- | Suitable for 250 mm deep panel boards
- | VKA_125 and VKA_160 have terminals housed within the moulding of the switch
- | VKA_125 and VKA_160 switch handles and shafts must be ordered separately as required
- | VKA_250 has external terminal bars. LS/VKAC terminal covers, and VS/VKAC phase barriers included
- | VKA_250 includes a handle LK12 and shaft L228AD12T6 as standard

3 POLE

PART NUMBER	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
VKA3125N	80/80	45/55
VKA3160N	135/125	75/90
VKA3250S+HLSVS	250*	132*

* 400/415V ONLY

4 POLE

PART NUMBER	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
VKA4160N	135/125	75/90

VKA SERIES ACCESSORIES

PART NUMBER	ACCESSORY	DESCRIPTION	FOR
VKAC1V	Auxiliary contact	1NO/1NC	For VKA 3 and 4 pole, max. 2
VKAC2V	Auxiliary contact	2NO/2NC	For VKA 3 and 4 pole, max. 2
LSVKAC	Terminal Cover	Transparent blue plastic	For VKA 3 and 4 pole, Qty 1
VSVKAC	Phase barrier	Transparent white plastic	For VKA 3 and 3 pole, Qty 1
LK12	Handle	Black	For VKA 3 and 4 pole
LK12YR	Handle	Yellow/red	For VKA 3 and 4 pole
L228AD12T6	Shaft	Length 228 mm, steel, slanted	Use with LK12 or LK12YR handles

VISUAL LOAD BREAK SWITCHES

KU 200-800A Series - extension handle or direct mount handle types



- | Reliable switch for demanding industrial applications
- | Made of 100% recyclable thermoplastic material
- | The modular structure enables the drive mechanism position to be varied
- | Easy to install auxiliary contacts
- | Available with terminal covers and phase barriers
- | Available with direct handle or handle (LXK 150) and shaft (LVK228, 228mm shaft)
- | Available with yellow/red handle (LXK 150 Y/R) and different length shaft when ordered separately
- | 6 and 8 pole load break and changeover switches available

Extension Shaft Handle types

LOAD BREAK SWITCHES, 3 AND 4 POLE, C/W WITH SHAFT AND HANDLE

PART NUMBER 3 POLE	PART NUMBER 4 POLE	IE A AC-23 (415V/690V)	IE (A) AC-23 (1000V)	KW AC-23 (415V/690V)
KU3200WL200AD12T6LKX	KU4200WL200AD12T6LKX	200/200	-	110/160
KU3250WL250AD12T6LKX	KU4250WL200AD12T6LKX	250/250	135	132/250
KU3315LVK228LKX150	KU4315LVK228LKX150	315/315	-	160/315
KU3400LVK228LKX150	KU4400LVK228LKX150	400/400	200	200/355
KU3630LVK228LKX150	KU4630LVK228LKX150	630/630	-	355/630
KU3800LVK228LKX150	KU4800LVK228LKX150	800/800	400	400/800



CHANGEOVER LOAD BREAK SWITCHES, 3 AND 4 POLE, C/W WITH SHAFT AND HANDLE

PART NUMBER 3 POLE	PART NUMBER 4 POLE	IE A AC-23 (415V/690V)	IE (A) AC-23 (1000V)	KW AC-23 (415V/690V)
KU3200WCO	KU4200WCO	200/200	-	110/160
KU3250WCO	KU4250WCO	250/250	135	132/250
KU3315CO	KU4315CO	315/315	-	160/315
KU3400CO	KU4400CO	400/400	200	200/355
KU3630CO	KU4630CO	630/630	-	355/630
KU3800CO	KU4800CO	800/800	400	400/800



Direct Mount Handle types

LOAD BREAK SWITCHES, 3 AND 4 POLE, DIRECT MOUNT HANDLE

PART NUMBER 3 POLE	PART NUMBER 4 POLE	IE A AC-23 (415V/690V)	IE (A) AC-23 (1000V)	KW AC-23 (415V/690V)
KU3200WSV	KU4200WSV	200/200	-	110/160
KU3250WSV	KU4250WSV	250/250	135	132/250
KU3315SV	KU4315SV	315/315	-	160/315
KU3400SV	KU4400SV	400/400	200	200/355
KU3630SV	KU4630SV	630/630	-	355/630
KU3800SV	KU4800SV	800/800	400	400/800



CHANGEOVER LOAD BREAK SWITCHES, 3 AND 4 POLE, C/W DIRECT MOUNT HANDLE

PART NUMBER 3 POLE	PART NUMBER 4 POLE	IE A AC-23 (415V/690V)	IE (A) AC-23 (1000V)	KW AC-23 (415V/690V)
KU3200WCOSV	KU4200WCOSV	200/200	-	110/160
KU3250WCOSV	KU4250WCOSV	250/250	135	132/250
KU3315COSV	KU4315COSV	315/315	-	160/315
KU3400COSV	KU4400COSV	400/400	200	200/355
KU3630COSV	KU4630COSV	630/630	-	355/630
KU3800COSV	KU4800COSV	800/800	400	400/800



KU 200 – 800 SERIES ACCESSORIES

Load Break and Changeover Switches

AUXILIARY CONTACTS

- Suits KU load break and changeover switches, 200A – 800A
- Snap action, Spade terminal, (lugs supplied), Side mount. Max. 3 auxiliaries each side of switch
- Rated 16A - 250V (AC12), 4A - 250 VAC (AC13-15, DC12). Early break, late make

PART NUMBER	DESCRIPTION
1V160KU	Side mount auxiliary contact (1NO+1NC), KU200-800
2V160KU	Side mount auxiliary contact (2NO+2NC), KU200-800



TERMINAL COVERS

- Suits KU load break and changeover switches, 200A – 800A.
- Suits 1 pole only. Order (x 3) or (x 4) as needed for 3 or 4 pole switches.

PART NUMBER	DESCRIPTION
LS250F	Terminal Cover flush, suits 1 pole (Order as needed for 3 or 4 poles), KU200-250
LS400F	Terminal Cover flush, suits 1 pole (Order as needed for 3 or 4 poles), KU315-400
LS800F	Terminal Cover flush, suits 1 pole (Order as needed for 3 or 4 poles), KU630-800



PHASE BARRIERS

- Suits KU load break and changeover switches, 200A – 800A. Flexible rubber. Qty 1. Order qty required

PART NUMBER	DESCRIPTION
VS250	Phase Barrier (1 piece), KU200-250
VS400	Phase Barrier (1 piece), KU315-630
VS800	Phase Barrier (1 piece), KU630-800



HANDLE OPERATORS (LOAD BREAK SWITCHES)

- Suits KU load break switches, 200A – 800A, Padlockable OFF, can be field changed for lock ON.
- Door interlock in ON, Door defeat in ON

PART NUMBER	DESCRIPTION
LKX100	Black External Handle (extension shaft operated), KU200-250
LKX100 YR	Yellow/Red External Handle (extension shaft operated), KU200-250
LKX150	Black External Handle (extension shaft operated) KU315-800
LKX150 YR	Yellow/Red External Handle (extension shaft operated) KU315-800



HANDLE OPERATORS (CHANGEOVER SWITCHES)

- Suits KU Changeover switches, 200A – 800A Padlockable in 0 (OFF), field change for 1-0-2 locking.
- Door interlock in positions 1 or 2

PART NUMBER	DESCRIPTION
LKX100CO102	Black External Handle (extension shaft operated), KU200-250
LKX100CO102YR	Yellow/Red External Handle (extension shaft operated), KU200-250
LKX150CO102	Black External Handle, positions 1-0-2 (extension shaft operated), KU315-800
LKX150CO102YR	Yellow/Red External Handle, positions 1-0-2 (extension shaft operated), KU315-800



EXTENSION SHAFTS

- Suits KU load break and changeover switches, 200A – 800A

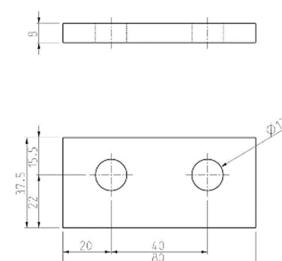
PART NUMBER	DESCRIPTION
L200AD12T6	Steel Shaft, length 200 mm, 6 mm sq, suits LKX100 (KU200-250)
L400AD12T6	Steel Shaft, length 400 mm, 6 mm sq, suits LKX100 (KU200-250)
LVK320	Steel Shaft, length 320 mm, 12.1 mm sq, suits LKX150 (KU315 - 800)
LVK500	Steel Shaft, length 500 mm, 12.1 mm sq, suits LKX150 (KU315 - 800)



SPREADER BARS

- Suits KU load break and changeover switches, 800A. Quantity 1. Order as required for 3 or 4 poles

PART NUMBER	DESCRIPTION
ALK800C	Spreader Bar, 2 hole, 3 Pole, Qty 1, KU630-800
ALK800	Spreader Bar, 4 hole, 3P or 4P, Qty 1, KU630-800



TOGGLE LOAD BREAK SWITCHES

EVA Series 160-250A



- | Compact size, panel mounting or DIN rail mount - either mounting option is standard
- | Switch technology using silver contacts ensures a long life expectancy and safe use in demanding conditions
- | 160/250 A, 3 pole and 4 pole switches are supplied with 2 terminal covers and phase barriers
- | Padlockable in OFF
- | Rated to AS/NZS 60947.3 and IEC 60947.3
- | $I_{cw} = 6.5 \text{ kA}$ for 1 second (415 VAC), $I_{cm} = 11.4 \text{ kA}$ (415 VAC), other ratings refer chart rear of this section
- | The ratings of the white and red toggle types are the same
- | EVA toggle switches are supplied with DB ECO, Essential and Ultimate as panel board main switches
- | EVA toggle switches have been tested in Australia to AS/NZS 61439.2 for use in APS DB Panel Boards
- | Other types of EVA toggle switches are available on request

3 POLE

PART NUMBER	DESCRIPTION	IE A AC-21/22 A/B (415V)	IE A AC-23 (415V)	KW AC-23 (415V)
EVA3160H	Red Toggle	160	160	75
EVA3250H	Red Toggle	250	200	90
EVA3250 2XLS4XVS	White Toggle	250	200	90

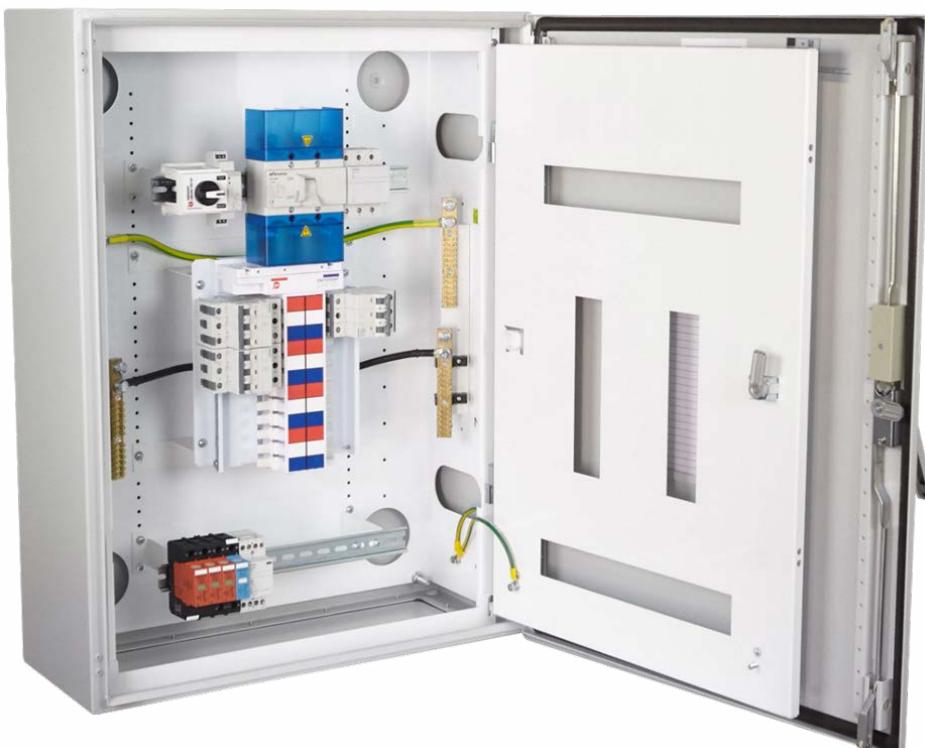
4 POLE

PART NUMBER	DESCRIPTION	IE A AC-21/22 A/B (415V)	IE A AC-23 (415V)	KW AC-23 (415V)
EVA4250H	Red Toggle	250	200	90
EVA4250 2XLS6XVS	White Toggle	250	200	90

ACCESSORIES

PART NUMBER	DESCRIPTION
EVA LS2VS	3 pole terminal cover, quantity 1
EVA LS3VS	4 pole terminal cover, quantity 1

DB Ultimate Panel Board shown below when used with an EVA3250 2XLS 4XVS main switch fitted



FUSE SWITCHES

KVKE Series



KVKE 63-160 A



KVKE 630 A



KVKE 200-250 A

- | DIN & BS Fuse versions
- | Four breaking points per phase
- | Connecting silver rivets have a silver alloy 350 um thick, thus ensuring a long life expectancy and safe use in demanding conditions
- | Compact size saves space
- | Modular structure enables position of drive mechanism to be varied
- | Available as 1, 2, 3 and 4 pole (200-630 A also 6 pole)
- | Black or yellow/red handle (add Y/R to description)
- | Auxiliary contacts are easy to install
- | Fuse covers included. Terminal covers are to be ordered separately
- | 63-160 A includes handle LK12 and shaft L220
- | 200-630 A includes handle LK14 and shaft LVK228

KVKE Series 63-160A

LK12 Handle, L=220mm shaft, fuse covers included

3 POLE

- with and without detachable neutral poles (NL type see below)

PART NUMBER	DESCRIPTION	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
KVKE3160	160 A, 3P, DIN	125/125	55/110
KVKE3160BS	160 A, 3P, BS88	125/125	55/110
KVKE3160NL	160 A, 3P + DN, DIN	125/125	55/110
KVKE3160NLBS	160 A, 3P + DN, BS88	125/125	55/110

4 POLE

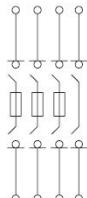
PART NUMBER	DESCRIPTION	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
KVKE4160	160 A, 4P, DIN	125/125	55/110
KVKE4160BS	160 A, 4P, BS88	125/125	55/110

Neutral pole options for 4 pole Switch Fuses

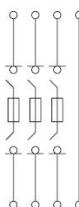


KVKE3160NLBS BS fuse type with detachable Neutral pole option

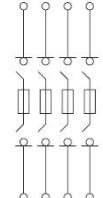
Switched neutral (all standard 4P switch fuses)



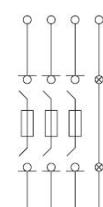
Solid neutral, NT
Uninsulated solid neutral, NU



Fused switched neutral, F



Detachable neutral, NL



KVKE Series

200-630A, LK14 Handle, LVK=228mm shaft, fuse covers included

3 POLE

PART NUMBER	DESCRIPTION	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
KVKE3250	250 A, 3P, DIN	250/250	132/250
KVKE3250BS	250 A, 3P, BS88	250/250	132/250
KVKE3250NL	250 A, 3P + DN, DIN	250/250	132/250
KVKE3250NLBS	250 A, 3P + DN, BS88	250/250	132/250
KVKE3400	400 A, 3P, DIN	400/400	200/355
KVKE3400BS	400 A, 3P, BS88	400/400	200/355
KVKE3400NL	400 A, 3P + DN, DIN	400/400	200/355
KVKE3400NLBS	400 A, 3P + DN, BS88	400/400	200/355
KVKE3630	630 A, 3P, DIN	630/500	355/500
KVKE3630BS	630 A, 3P, BS88	630/500	355/500
KVKE3630NL	630 A, 3P + DN, DIN	630/500	355/500
KVKE3630NLBS	630 A, 3P + DN, BS88	630/500	355/500

4 POLE

PART NUMBER	DESCRIPTION	IE A AC-23 (415/690V)	KW AC-23 (415/690V)
KVKE4250	250 A, 4P, DIN	250/250	132/250
KVKE4250BS	250 A, 4P, BS88	250/250	132/250
KVKE4400	400 A, 4P, DIN	400/400	200/355
KVKE4400BS	400 A, 4P, BS88	400/400	200/355
KVKE4630	630 A, 4P, DIN	630/500	355/500
KVKE4630BS	630 A, 4P, BS88	630/500	355/500

KVKE SERIES ACCESSORIES

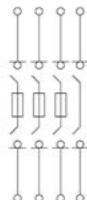
PART NUMBER	DESCRIPTION
LS250	Terminal Covers for KVKE/VKE 200-250A
LS400	Terminal Covers for KVKE/VKE 400A
LS630	Terminal Covers for KVKE/VKE 630A

Neutral pole options for 4 pole Switch Fuses

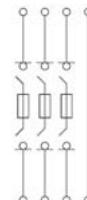


KVKE3160NLBS BS fuse type with detachable Neutral pole option

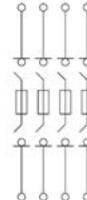
Switched neutral (all standard 4P switch fuses)



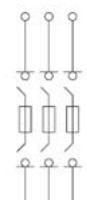
Solid neutral, NT
Uninsulated solid neutral, NU



Fused switched neutral, F



Detachable neutral, NL



ACCESSORIES FOR ISOLATING SWITCHES

Handles



PART NUMBER	DESCRIPTION	
LK10	Black Handle for Isolators	For KU 16-160A Switches
LK10YR	Yellow-Red Handle for Isolators	
LK11	Black Overlap Handle for Isolators	
LK11YR	Yellow-Red Overlap Handle for Isolators	
LK12	Black Handle for Isolators	For KU 100-160A, KVKE/VKE 125-160A, VKA 200-250 A Switches
LK12YR	Yellow-Red Handle for Isolators	
LK13	Black Overlap Handle for Isolators	For KVKE/VKE 200-400A Switches
LK13YR	Yellow-Red Overlap Handle for Isolators	
LK14	Black Overlap Handle for Isolators	For KVKE/VKE 200-630A Switches
LK14YR	Yellow-Red Overlap Handle for Isolators	

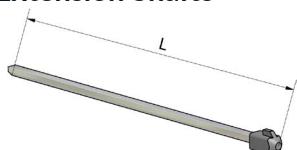
Door Mounting Kit



PART NUMBER	DESCRIPTION	SUITABILITY
OKA/KU/LK10	Dr Mnt. Kit, Black for 3P KU c/w LK10 HL	For KU Compact Series (KU.....N)
OKA/KU/LK10YR	Dr Mnt. Kit, Y-R for 3P KU c/w LK10 HL	
OKA/KU4P/LK10	Dr Mnt. Kit, Black for 4P KU c/w LK10 HL	

*** Select pole and Amp

Extension Shafts



PART NUMBER	DESCRIPTION	SUITABILITY
L200AD11	200 mm Ext Aluminium Shaft	KU/VKA, LK10 & LK11
L300AD11	300 mm Ext Aluminium Shaft	
L300AD11VT	300 mm Ext Steel Slanted Shaft	
L228AD12T6	Ext Steel Shaft	VKA3250/LS/VS
L300AD12T	300 mm Ext Steel Shaft	KVKE 63-160A, KU100 - 160 A, LK12
LVK320	320 mm Ext Steel Slanted Shaft	KVKE 200-630 A, LK13 & LK14

Auxilliary Contacts



PART NUMBER	DESCRIPTION	SUITABILITY
KU1V	Aux. Contact 1NO/1NC	For KU 16 - 80 A LBS
KU2V	Aux. Contact 2NO/2NC	
1V160KU	Aux. Contact, Side mount	For KU 100-160 A LBS
2V160KU	2 x Aux. Contact, Side mount	
VKA1V	Aux. Contact 1NO/1NC	For VKA 125-160 A LBS
VKA2V	Aux. Contact 2NO/2NC	
VKAC1V	Aux. Contact 1NO/1NC	For VKA 200-250 A LBS
VKAC2V	Aux. Contact 2NO/2NC	
KVKE1V	Aux. Contact 1NO/1NC	For VKE 125-630 A LBS and KVKE 63-630 A Fuse Switch
KVKE2V	Aux. Contact 2NO/2NC	

Terminal & Fuse Covers & Phase Barriers



PART NUMBER	DESCRIPTION	SUITABILITY
LS125	Terminal Covers	For KVKE 63-160A / VKE 125-160A
LS250	Terminal Covers	For KVKE/VKE 200-250A
LS400	Terminal Covers	For KVKE 400A
LS630	Terminal Covers	For KVKE 630A

METRIC CABLE GLANDS (PLASTIC)



- | KPKM_P cable glands
- | Material: Polyamide
- | Colour: Grey, RAL 7035
- | IP68



- | KVMM_P plastic locknuts
- | KVM
- | Material: Polyamide
- | Colour: Grey, RAL 7035

CABLE GLANDS WITH STRAIN RELIEF

PART NUMBER	DESCRIPTION	CABLE Ø MM	THREAD MM	WIDTH MM
KPKM12P	Cable Gland,Poly,Gry,IP68,M12	3...6	8	15
KPKM16P	Cable Gland,Poly,Gry,IP68,M16	5...10	8	20
KPKM20P	Cable Gland,Poly,Gry,IP68,M20	8...13	8	24
KPKM25P	Cable Gland,Poly,Gry,IP68,M25	11...17	8	29
KPKM32P	Cable Gland,Poly,Gry,IP68,M32	15...21	10	36
KPKM40P	Cable Gland,Poly,Gry,IP68,M40	19...28	10	46
KPKM50P	Cable Gland,Poly,Gry,IP68,M50	27...35	12	55
KPKM63P	Cable Gland,Poly,Gry,IP68,M63	32...42	12	68

PLASTIC LOCKNUTS

PART NUMBER	DESCRIPTION	WIDTH MM	HEIGHT MM
KVMM12P	Cable Gland Locknut,Poly,Grey,M12	17	5
KVMM16P	Cable Gland Locknut,Poly,Grey,M16	22	5
KVMM20P	Cable Gland Locknut,Poly,Grey,M20	27	6
KVMM25P	Cable Gland Locknut,Poly,Grey,M25	32	6
KVMM32P	Cable Gland Locknut,Poly,Grey,M32	41	7
KVMM40P	Cable Gland Locknut,Poly,Grey,M40	50	7
KVMM50P	Cable Gland Locknut,Poly,Grey,M50	60	8
KVMM63P	Cable Gland Locknut,Poly,Grey,M63	75	8

METRIC CABLE GLANDS (METAL)



- | KPKM_M cable glands
- | Material: Nickel
- | Coated Brass
- | IP68



- | KVMM_M metal locknuts
- | Material: Nickel Coated Brass

CABLE GLANDS WITH STRAIN RELIEF

PART NUMBER	DESCRIPTION	CABLE Ø MM	THREAD MM	WIDTH MM
KPKM12M	Cable Gland,NP Brass,IP68,M12	3...6	5	14
KPKM16M	Cable Gland,NP Brass,IP68,M16	5...9	5	17
KPKM20M	Cable Gland,NP Brass,IP68,M20	9...13	6	22
KPKM25M	Cable Gland,NPBrass,IP68,M25	11...16	7	27
KPKM32M	Cable Gland,NPBrass,IP68,M32	14...21	8	34
KPKM40M	Cable Gland,NPBrass,IP68,M40	19...27	8	43
KPKM50M	Cable Gland,NPBrass,IP68,M50	24...35	9	55
KPKM63M	Cable Gland,NPBrass,IP68,M63	32...42	10	65

METAL LOCKNUTS

PART NUMBER	DESCRIPTION	WIDTH MM	HEIGHT MM
KVMM12M	Cable Gland Locknut,NP Brass,M12	15	2.8
KVMM16M	Cable Gland Locknut,NP Brass,M16	19	2.8
KVMM20M	Cable Gland Locknut,NP Brass,M20	24	3
KVMM25M	Cable Gland Locknut,NP Brass,M25	30	3.5
KVMM32M	Cable Gland Locknut,NP Brass,M32	36	4
KVMM40M	Cable Gland Locknut,NP Brass,M40	46	5
KVMM50M	Cable Gland Locknut,NP Brass,M50	60	5
KVMM63M	Cable Gland Locknut,NP Brass,M63	70	6

METRIC CABLE GLANDS (STAINLESS STEEL)



- | KPKM_MA cable glands SS
- | Material: Acid proof steel according to AISI 316
- | IP68
- | Hexagon locknuts included

CABLE GLANDS WITH STRAIN RELIEF

PART NUMBER	DESCRIPTION	CABLE Ø MM	THREAD MM	WIDTH MM
KPKM20MA	Cable Gland c/w Locknut,SS316,M20	8...15	6	24
KPKM25MA	Cable Gland c/w Locknut,SS316,M25	13...20	7.5	32
KPKM32MA	Cable Gland c/w Locknut,SS316,M32	18...25.5	8	38

ENCLOSED SWITCH PART NUMBER CROSS-REFERENCE TOOL

SAFETY SWITCHES/ISOLATORS

POLYCARBONATE 16-630A

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBsolete
KEM310 M2	KEM310U	M2	U2	ISO 316PG
KEM316 M2	KEM316U	M2	U2	ISO 325PG
KEM416 M2	KEM416U	M2	U2	ISO 425PG
KEM616 M3	KEM616U	M3	U3	ISO 625PG
KEM816 M3	KEM816U	M3	U3	ISO 825PG
KEM325 M2	KEM325U	M2	U2	ISO 340PG
KEM425 M2	KEM425U	M2	U2	ISO 440PG
KEM625 M3	KEM625U	M3	U3	ISO 640PG
KEM825 M3	KEM825U	M3	U3	ISO 840PG
KEM340 M2	KEM340U	M2	U2	ISO 363PG
KEM440 M2	KEM440U	M2	U2	ISO 463PG
KEM640 M3	KEM640U	M3	U3	ISO 663PG
KEM840 M3	KEM840U	M3	U3	ISO 863PG
KEM363 M3	KEM363U	M3	U3	ISO 380PG
KEM463 M3	KEM463U	M3	U3	ISO 480PG
KEM663 M3	KEM663U	M3	U3	ISO 680PG
KEM863 M3	KEM863U	M3	U3	ISO 880PG
KEM380 M3	KEM380U	M3	U3	ISO 3100PG
KEM480 M3	KEM480U	M3	U3	ISO 4100PG
KEM680 M3	KEM680U	M3	U3	ISO 6100PG
KEM880 M3	KEM880U	M3	U3	ISO 8100PG
KEM3125 M4	KEM3125U	M4	U4	ISO 3160PG
KEM4125 M4	KEM4125U	M4	U4	ISO 4160PG
KEM6125 MF01	KEM6125	MF01	MF01	ISO 6160PG
KEM8125 MF01	KEM8125	MF01	MF01	ISO 8160PG
KEM3160 MF01	KEM3160	MF01	MF01	ISO 3200PG
KEM4160 MF01	KEM4160	MF01	MF01	ISO 4200PG
KEM6160 MF01	KEM6160	MF01	MF01	ISO 6200PG
KEM8160 MF01	KEM8160	MF01	MF01	ISO 8200PG
KEM3250C MF01	KEM3250C	MFO1	MFO1	ISO 3250PG
KEM4250C MF01	KEM4250C	MFO1	MFO1	ISO 4250PG
KEM3315 MF03	KEM3315	MF03	MF03	ISO 3315PG
KEM3400 MF03	KEM3400	MF03	MF03	ISO 3400PG
KEM3630 MF04	KEM3630	MF04	MF04	ISO 3630PG
KEM310 YR M2	KEM310UY/R	M2	U2	ISO 316PYS
KEM316 YR M2	KEM316UY/R	M2	U2	ISO 325PYS
KEM416 YR M2	KEM416UY/R	M2	U2	ISO 425PYS
KEM616 YR M3	KEM616UY/R	M3	U3	ISO 625PY
KEM816 YR M3	KEM816UY/R	M3	U3	ISO 825PY
KEM325 YR M2	KEM325UY/R	M2	U2	ISO 340PY
KEM425 YR M2	KEM425UY/R	M2	U2	ISO 440PY
KEM625 YR M3	KEM625UY/R	M3	U3	ISO 640PY
KEM825 YR M3	KEM825UY/R	M3	U3	ISO 840PY
KEM340 YR M2	KEM340UY/R	M2	U2	ISO 363PY
KEM440 YR M2	KEM440UY/R	M2	U2	ISO 463PY
KEM640 YR M3	KEM640UY/R	M3	U3	ISO 663PY
KEM840 YR M3	KEM840UY/R	M3	U3	ISO 863PY
KEM363 YR M3	KEM363UY/R	M3	U3	ISO 380PY
KEM463 YR M3	KEM463UY/R	M3	U3	ISO 480PY
KEM663 YR M3	KEM663UY/R	M3	U3	ISO 680PY
KEM863 YR M3	KEM863UY/R	M3	U3	ISO 880PY
KEM380 YR M3	KEM380UY/R	M3	U3	ISO 3100PY
KEM480 YR M3	KEM480UY/R	M3	U3	ISO 4100PY
KEM680 YR M3	KEM680UY/R	M3	U3	ISO 6100PY
KEM880 YR M3	KEM880UY/R	M3	U3	ISO 8100PY
KEM3125 YR M4	KEM3125UY/R	M4	U4	ISO 3160PY
KEM4125 YR M4	KEM4125UY/R	M4	U4	ISO 4160PY
KEM6125 YR MF01	KEM6125Y/R	MF01	MF01	ISO 6160PY
KEM8125 YR MF01	KEM8125Y/R	MF01	MF01	ISO 8160PY
KEM3160 YR MF01	KEM3160Y/R	MF01	MF01	ISO 3200PY
KEM4160 YR MF01	KEM4160Y/R	MF01	MF01	ISO 4200PY

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KEM310 M2



KEM825 M3



KEM3125 M4



KEM3315 MF03



KEM880 YR M3

POLYCARBONATE 16-630A

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBsolete
KEM6160 YR MF01	KEM6160Y/R	MF01	MF01	ISO 6200PY
KEM8160 YR MF01	KEM8160Y/R	MF01	MF01	ISO 8200PY
KEM3250 YR MF03	KEM3250Y/R	MF03	MF03	ISO 3250PY
KEM3315 YR MF03	KEM3315Y/R	MF03	MF03	ISO 3315PY
KEM3400 YR MF03	KEM3400Y/R	MF03	MF03	ISO 3400PY
KEM3630 YR MF04	KEM3630Y/R	MF04	MF04	ISO 3630PY



KEM425 M3

POLYCARBONATE LARGER BOX VERSIONS 25 - 40A

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBsolete
KEM325 M3	KEM325/U3	M3	U3	ISO 340 PGLE
KEM340 M3	KEM340/U3	M3	U3	ISO 363 PGLE
KEM425 M3	KEM425/U3	M3	U3	ISO 440 PGLE
KEM440 M3	KEM440/U3	M3	U3	ISO 463 PGLE
KEM325 YR M3	KEM325/U3Y/R	M3	U3	ISO 340 PYLE
KEM340 YR M3	KEM340/U3Y/R	M3	U3	ISO 363 PYLE
KEM425 YR M3	KEM425/U3Y/R	M3	U3	ISO 440 PYLE
KEM440 YR M3	KEM440/U3Y/R	M3	U3	ISO 463 PYLE



KEM340 YR M3

EMC POLYCARBONATE 16-125A

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBsolete
KEM316 M2 EMC	KEM316U/EMC	M2	U2	ISO325PGEMC
KEM325 M2 EMC	KEM325U/EMC	M2	U2	ISO340PGEMC
KEM340 M2 EMC	KEM340U/EMC	M2	U2	ISO363PGEMC
KEM363 M3 EMC	KEM363U/EMC	M3	U3	ISO380PGEMC
KEM380 M3 EMC	KEM380U/EMC	M3	U3	ISO3100PGEMC
KEM3125 M4 EMC	KEM3125U/EMC	M4	U4	ISO3160PGEMC
KEM316 M2 EMC YR	KEM316U/EMCY/R	M2	U2	ISO325PYEMC
KEM325 M2 EMC YR	KEM325U/EMCY/R	M2	U2	ISO340PYEMC
KEM340 M2 EMC YR	KEM340U/EMCY/R	M2	U2	ISO363PYEMC
KEM363 M3 EMC YR	KEM363U/EMCY/R	M3	U3	ISO380PYEMC
KEM380 M3 EMC YR	KEM380U/EMCY/R	M3	U3	ISO3100PYEMC
KEM3125 M4 EMC YR	KEM3125U/EMCY/R	M4	U4	ISO3160PYEMC



KEA380 A4 EMC

EMC ALUMINUM

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBsolete
KEA316 A2 EMC	KEA316U/EMC	A2	A2	ISO325MGEMC
KEA325 A2 EMC	KEA325U/EMC	A2	A2	ISO340MGEMC
KEA340 A2 EMC	KEA340U/EMC	A2	A2	ISO363MGEMC
KEA363 A4 EMC	KEA363/EMC	A4	A3	ISO380MGEMC
KEA380 A4 EMC	KEA380/EMC	A4	A3	ISO3100MGEMC
KEA3125 A4 EMC	KEA3125/EMC	A4	A3	ISO3160MGEMC
KEA316 A2 EMC YR	KEA316U/EMCY/R	A2	A2	ISO325MYEMC
KEA325 A2 EMC YR	KEA325U/EMCY/R	A2	A2	ISO340MYEMC
KEA340 A2 EMC YR	KEA340U/EMCY/R	A2	A2	ISO363MYEMC
KEA363 A4 EMC YR	KEA363/EMCY/R	A4	A3	ISO380MYEMC
KEA380 A4 EMC YR	KEA380/EMCY/R	A4	A3	ISO3100MYEMC
KEA3125 A4 EMC YR	KEA3125/EMCY/R	A4	A3	ISO3160MYEMC



KEA 363/EMC

EMC STAINLESS STEEL

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBsolete
KER316 YR RA2 EMC	KER316/EMCY/R	RA2	H23	ISO325SSYEMC
KER325 YR RA2 EMC	KER325/EMCY/R	RA2	H23	ISO340SSYEMC
KER340 YR RA2 EMC	KER340/EMCY/R	RA2	H23	ISO363SSYEMC
KER363 YR RA4 EMC	KER363/EMCY/R	RA4	H32	ISO380SSYEMC
KER380 YR RA4 EMC	KER380/EMCY/R	RA4	H32	ISO3100SSYEMC
KER3125 YR RA5 EMC	KER3125/EMCY/R	RA5	H02	ISO3160SSYEMC
KER3160 YR RA5 EMC	KER3160/EMCY/R	RA5	H02	ISO 3200SSYEMC
KER3200 YR R6 EMC	KER3200/EMCY/R	R6	H03	ISO 3250SSYEMC
KER3250 YR R6 EMC	KER3250/EMCY/R	R6	H03	ISO 3315SSYEMC
KER3315 YR R6 EMC	KER3315/EMCY/R	R6	H03	ISO 3400SSYEMC
KER3400 YR R6 EMC	KER3400/EMCY/R	R6	H03	ISO 3630SSYEMC
KER3630 YR R6 EMC	KER3630/EMCY/R	R7	H04	ISO 3800SSYEMC



KER363 YR RA4 EMC

Note: EMC cable glands are included for EMC protected product.

ALUMINIUM

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBsolete
KEA416 A2	KEA416	A2	A2	ISO 425MG
KEA325 A2	KEA325	A2	A2	ISO 340MG
KEA425 A2	KEA425	A2	A2	ISO 440MG
KEA340 A2	KEA340	A2	A2	ISO 363MG
KEA440 A2	KEA440	A2	A2	ISO 463MG
KEA616 A2	KEA616	A2	A2	ISO 625MG
KEA816 A4	KEA816	A4	A3	ISO 825MG
KEA625 A4	KEA625	A4	A3	ISO 640MG
KEA825 A4	KEA825	A4	A3	ISO 840MG
KEA640 A4	KEA640	A4	A3	ISO 663MG
KEA840 A4	KEA840	A4	A3	ISO 863MG
KEA363 A4	KEA363	A4	A3	ISO 380MG
KEA463 A4	KEA463	A4	A3	ISO 480MG
KEA663 A4	KEA663	A4	A3	ISO 680MG
KEA863 A4	KEA863	A4	A3	ISO 880MG
KEA380 A4	KEA380	A4	A3	ISO 3100MG
KEA480 A4	KEA480	A4	A3	ISO 4100MG
KEA680 A4	KEA680	A4	A3	ISO 6100MG
KEA880 A4	KEA880	A4	A3	ISO 8100MG
KEA3125 A4	KEA3125	A4	A3	ISO 3160MG
KEA4125 A4	KEA4125	A4	A3	ISO 4160MG
KEA6125 A4	KEA6125	A4	A3	ISO 6160MG
KEA8125 A5	KEA8125	A5	A4	ISO 8160MG
KEA3160 A5	KEA3160	A5	A4	ISO 3200MG
KEA3200 A6	KEA3200	A6	A5	ISO 3250MG
KEA3200C A5	KEA3200C	A5	A4	ISO 3250MG
KEA3250 A6	KEA3250	A6	A5	ISO 3250MG
KEA4200C A5	KEA4200C	A5	A4	ISO 3250MG
KEA4250C A5	KEA4250C	A5	A4	ISO 3250MG
KEA4160 A4	KEA4160	A4	A3	ISO 4200MG
KEA6160 A4	KEA6160	A4	A3	ISO 6200MG
KEA8160 A4	KEA8160	A4	A4	ISO 8200MG
KEA316 YR A2	KEA316Y/R	A2	A2	ISO 325MY
KEA416 YR A2	KEA416Y/R	A2	A2	ISO 425MY
KEA325 YR A2	KEA325Y/R	A2	A2	ISO 340MY
KEA425 YR A2	KEA425Y/R	A2	A2	ISO 440MY
KEA340 YR A2	KEA340Y/R	A2	A2	ISO 363MY
KEA440 YR A2	KEA440Y/R	A2	A2	ISO 463MY
KEA616 YR A2	KEA616Y/R	A2	A2	ISO 625MY
KEA816 YR A4	KEA816Y/R	A4	A3	ISO 825MY
KEA625 YR A4	KEA625Y/R	A4	A3	ISO 640MY
KEA825 YR A4	KEA825Y/R	A4	A3	ISO 840MY
KEA640 YR A4	KEA640Y/R	A4	A3	ISO 663MY
KEA840 YR A4	KEA840Y/R	A4	A3	ISO 863MY
KEA363 YR A4	KEA363Y/R	A4	A3	ISO 380MY
KEA463 YR A4	KEA463Y/R	A4	A3	ISO 480MY
KEA663 YR A4	KEA663Y/R	A4	A3	ISO 680MY
KEA863 YR A4	KEA863Y/R	A4	A3	ISO 880MY
KEA380 YR A4	KEA380Y/R	A4	A3	ISO 3100MY
KEA480 YR A4	KEA480Y/R	A4	A3	ISO 4100MY
KEA680 YR A4	KEA680Y/R	A4	A3	ISO 6100MY
KEA880 YR A4	KEA880Y/R	A4	A3	ISO 8100MY
KEA3125 YR A4	KEA3125Y/R	A4	A3	ISO 3160MY
KEA4125 YR A4	KEA4125Y/R	A4	A3	ISO 4160MY
KEA6125 YR A4	KEA6125Y/R	A4	A3	ISO 6160MY
KEA8125 YR A5	KEA8125Y/R	A5	A4	ISO 8160MY
KEA3160 YR A5	KEA3160Y/R	A5	A4	ISO 3200MY
KEA4160 YR A4	KEA4160Y/R	A4	A3	ISO 4200MY
KEA6160 YR A4	KEA6160Y/R	A4	A3	ISO 6200MY
KEA8160 YR A5	KEA8160Y/R	A5	A4	ISO 8200MY
KEA3200 YR A6	KEA3200 Y/R	A6	A5	ISO 3250MY
KEA3200C YR A5	KEA3200C Y/R	A5	A4	ISO 3250MY
KEA3250 YR A6	KEA3250 Y/R	A6	A5	ISO 3250MY
KEA4200C YR A5	KEA4200C Y/R	A5	A4	ISO 4250MY
KEA4250C YR A5	KEA4250C Y/R	A5	A4	ISO 4200MY
KEA325 A4	KEA325/A3	A4	A3	ISO 340 MGLE

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KEA 6125



KEA 340 Y/R



KEA 880 Y/R



KEA 425/A3

ALUMINIUM

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBsolete
KEA340 A4	KEA340/A3	A4	A3	ISO 363 MGLE
KEA425 A4	KEA425/A3	A4	A3	ISO 440 MGLE
KEA440 A5	KEA440/A4	A5	A4	ISO 463 MGLE
KEA325 YR A4	KEA325/A3Y/R	A4	A3	ISO 340 MYLE
KEA340 YR A4	KEA340/A3Y/R	A4	A3	ISO 363 MYLE
KEA425 YR A4	KEA425/A3Y/R	A4	A3	ISO 440 MYLE
KEA440 YR A5	KEA440/A4Y/R	A5	A4	ISO 463 MYLE

STAINLESS STEEL 16 - 200A

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBsolete
KER316 RA2	KER316	RA2	H23	ISO 325SS
KER325 RA2	KER325	RA2	H23	ISO 340SS
KER340 RA2	KER340	RA2	H23	ISO 363SS
KER363 RA4	KER363	RA4	H32	ISO 380SS
KER380 RA4	KER380	RA4	H32	ISO 3100SS
KER316 YR RA2	KER316Y/R	RA2	H23	ISO 325SS Y/R
KER325 YR RA2	KER325Y/R	RA2	H23	ISO 340SS Y/R
KER340 YR RA2	KER340Y/R	RA2	H23	ISO 363SS Y/R
KER363 YR RA4	KER363Y/R	RA4	H32	ISO 380SS Y/R
KER380 YR RA4	KER380Y/R	RA4	H32	ISO 3100SS Y/R
KER616 YR RA4	KER616Y/R	RA4	H32	ISO 625 SSY
KER625 YR RA4	KER625Y/R	RA4	H32	ISO 640 SSY
KER640 YR RA4	KER640Y/R	RA4	H32	ISO 663 SSY
KER663 YR RA4	KER663Y/R	RA4	H32	ISO 680 SSY
KER680 YR RA4	KER680Y/R	RA4	H32	ISO 6100 SSY
KER6125 YR RA5	KER6125Y/R	RA5	H02	ISO 6160 SSY
KER6160 YR RA5	KER6160Y/R	RA5	H02	ISO 6200 SSY
KER3200 YR RA5	KER3200Y/R	RA5	H02	ISO 3250SSY



KER 316 Y/R



KER 425R

STAINLESS STEEL 16-80A SS HANDLE / FLAT ROOF OR SLOPED ROOF

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBsolete
KER316 RA2R	KER316R	RA2R	H23T	ISO 325SST
KER325 RA2R	KER325R	RA2R	H23T	ISO 340SST
KER340 RA2R	KER340R	RA2R	H23T	ISO 363SST
KER363 RA2R	KER363R	RA4R	H32T	ISO 380SST
KER380 RA2R	KER380R	RA4R	H32T	ISO 3100SST
KER416 RA2R	KER416R	RA2R	H23T	ISO 425SST
KER425 RA2R	KER425R	RA2R	H23T	ISO 440SST
KER440 RA2R	KER440R	RA2R	H23T	ISO 463SST
KER463 RA4R	KER463R	RA4R	H32T	ISO 480SST
KER480 RA4R	KER480R	RA4R	H32T	ISO 4100SST
KER616 RA4R	KER616R	RA4R	H32T	ISO 625SST
KER625 RA4R	KER625R	RA4R	H32T	ISO 640SST
KER640 RA4R	KER640R	RA4R	H32T	ISO 663SST
KER663 RA4R	KER663R	RA4R	H32T	ISO 680SST
KER680 RA4R	KER680R	RA4R	H32T	ISO 6100SST
KER316 RA2RS	KER316RS	RA2RS	H24T	ISO 325SSTS
KER325 RA2RS	KER325RS	RA2RS	H24T	ISO 340SSTS
KER340 RA2RS	KER340RS	RA2RS	H24T	ISO 363SSTS
KER416 RA2RS	KER416RS	RA2RS	H24T	ISO 425SSTS
KER425 RA2RS	KER425RS	RA2RS	H24T	ISO 440SSTS
KER440 RA2RS	KER440RS	RA2RS	H24T	ISO 463SSTS
KER363 RA4RS	KER363RS	RA4RS	H34T	ISO 380SSTS
KER380 RA4RS	KER380RS	RA4RS	H34T	ISO 3100SSTS
KER463 RA4RS	KER463RS	RA4RS	H34T	ISO 480SSTS
KER480 RA4RS	KER480RS	RA4RS	H34T	ISO 4100SSTS



KER 340RS



KEM 340 VV

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CHANGEOVER SWITCHES 16-160A (POLYCARBONATE)

NEW KATKO PART NO.	PREVIOUS KATKO PART NO	NEW BOX TYPE	PREVIOUS BOX TYPE	OBSOLETE
KEM340VV M3	KEM340VV	M3	U3	ISO 363VV
KEM363VV M3	KEM363VV	M3	U3	ISO 380VV
KEM380VV M3	KEM380VV	M3	U3	ISO 3100VV
KEM440VV M3	KEM440VV	M3	U3	ISO 463VV
KEM463VV M3	KEM463VV	M3	U3	ISO 480VV
KEM480VV M3	KEM480VV	M3	U3	ISO 4100VV



KU 340 N

LOAD BREAK SWITCHES 16-630A

ROTARY SWITCHES

APS CODE	OBSOLETE
KU 316 N	ISO 325
KU 325 N	ISO 340
KU 340 N	ISO 363
KU 363 N	ISO 380
KU 380 N	ISO 3100
KU 416 N	ISO 425
KU 425 N	ISO 440
KU 440 N	ISO 463
KU 463 N	ISO 480
KU 480 N	ISO 4100
KU 316 + K/KU.3P	ISO 325R
KU 316 + K/KU.3P Y/R	ISO 325RY
KU 325 + K/KU.3P	ISO 340R
KU 325 + K/KU.3P Y/R	ISO 340RY
KU 340 + K/KU.3P	ISO 363R
KU 340 + K/KU.3P Y/R	ISO 363RY
KU 363 + K/KU.3P	ISO 380R
KU 363 + K/KU.3P Y/R	ISO 380RY
KU 380 + K/KU.3P	ISO 3100R
KU 380 + K/KU.3P Y/R	ISO 3100RY
KU 416 + K/KU.4P	ISO 425R
KU 416 + K/KU.4P Y/R	ISO 425RY
KU 425 + K/KU.4P	ISO 440R
KU 425 + K/KU.4P Y/R	ISO 440RY
KU 440 + K/KU.4P	ISO 463R
KU 440 + K/KU.4P Y/R	ISO 463RY
KU 463 + K/KU.4P	ISO 480R
KU 463 + K/KU.4P Y/R	ISO 480RY
KU 480 + K/KU.4P	ISO 4100R
KU 480 + K/KU.4P Y/R	ISO 4100RY
VKA 3125 N	ISO 3160
VKA 3160 N	ISO 3200
VKA 4125 N	ISO 4125
VKA 4160 N	ISO 4160
VKA 3125 + K/VKA	ISO 3160R
VKA 3125 + K/VKA Y/R	ISO 3160RY
VKA 3160 + K/VKA+ALK	ISO 3200R
VKA 3160 + K/VKA Y/R+ALK	ISO 3200RY
VKA 4125 + K/VKA	ISO 4160R
VKA 4125 + K/VKA Y/R	ISO 4160RY
VKA 4160 + K/VKA+ALK	ISO 4200R
VKA 4160 + K/VKA Y/R+ALK	ISO 4200RY



EVA 4250 LS/VS



EVA 3125+K/EVA

Engineering Disclaimer

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TOGGLE SWITCHES

APS CODE	OBSOLETE
KUE 316R+K/KUE(Y)+R/KUE(Y)	ISO 325T
KUE 325R+K/KUE(Y)+R/KUE(Y)	ISO 340T
KUE 340R+K/KUE(Y)+R/KUE(Y)	ISO 363T
KUE 363R+K/KUE(Y)+R/KUE(Y)	ISO 380T
KUE 380R+K/KUE(Y)+R/KUE(Y)	ISO 3100T
EVA 3125KEVA	ISO 3125T
EVA 3160KEVA	ISO 3200T
EVA 3250 2XLS 4XVS	EVA 3250 LS/VS
EVA 4250 2XLS 6XVS	EVA 4250 LS/VS
EVA 3250H (red toggle)	EVA 3250H
EVA 4250H (red toggle)	EVA 4250H
EVA 3160H (red toggle)	EVA 3160H



LK 10 Y/R

ACCESSORIES

HANDLES

APS CODE	OBSOLETE
LK10	ISOLK10DIHGB
LK10 YR	ISOLK10DIHYR
LK11	ISOLK11DIHGB
LK11 YR	ISOLK11DIHYR

L 300

SHAFTS

APS CODE	OBSOLETE
L100 AD11	ISOLK11ES100
L200 AD11	ISOLK11ES200
L300 AD11	ISOLK11ES300



VKA 2.V

AUXILIARY CONTACTS

APS CODE	OBSOLETE
KU1V	ISOAUX1
KU2V	ISOAUX2
VKA1V	ISOAUX3
VKA2V	ISOAUX4

SPREADERS

APS CODE	OBSOLETE
ALK 3160	ISOLTK



ALK 3160

Engineering Disclaimer

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KU LOAD BREAK SWITCH RATINGS

LOAD BREAK SWITCHES		KU ROTARY LBS																			
		16A	25A	40A	16A (N)	25A (N)	40A (N)	63A (N)	80A (N)	100A (N)	125A (N)	125A	160A	160A (P)	200A	250A	315A	400A	630A	800A	
Rated insulation voltage, U _i (V)		800	800	800	800	800	800	800	800	800	125	125	160	200	200	250	315	315	400	630	800
Rated thermal current, I _{th} (A)		25	40	63	25	40	63	80	100												
Nominal values with cable size (mm ²)		4	10	16	4	10	16	25	35	70	50	70	95	95	95	120	185	240	2x185	2x240	
Rated operational current, I _e (A)																					
AC-21A	400/415V	16	25	40	25	40	63	80	100	125	125	160	160	160	200	250	315	400	630	800	
	500V	16	25	40	25	40	63	80	100	125	125	160	160	160	200	250	315	400	630	800	
	690V	16	25	40	25	40	63	80	100	125	125	160	160	160	200	250	315	400	630	800	
AC-22A	400/415V	16	25	40	16	25	40	63	80	100	125	125	160	160	200	250	315	400	630	800	
	500V	16	25	40	16	25	40	63	80	100	80	125	160	160	200	250	315	400	630	800	
	690V	16	25	40	16	25	40	63	80	100	80	125	160	160	200	250	315	400	630	800	
AC-23A	400/415V	16	25	40	16	25	40	40	63	100	63	125	160	160	200	250	315	400	630	800	
	500V	16	25	25	16	25	32	40	40	63	40	80	100	160	200	250	315	400	630	800	
	690V	16	25	25	16	25	32	40	40	63	40	80	100	160	200	250	315	400	630	800	
	1000V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135	-	200	-	400
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)																					
AC-23A	400/415V	7.5	11	22	7.5	11	22	22	30	55	30	55	90	90	110	132	160	200	355	400	
	500V	7.5	15	15	7.5	15	22	30	30	37	30	55	55	110	132	160	200	250	400	560	
	690V	11	22	22	11	22	30	37	37	55	37	75	90	132	160	250	315	355	630	800	
Rated fused short circuit current																					
Back-up fuse (A)		25	25	40	40	40	40	80	80	160	125	160	160	250	250	250	400	400	630	800	
R.M.S. value, I _k (kA)		50	50	25	50	50	50	50	50	65	30	65	65	100***	100***	100***	100	100	100	100	
Peak value (kA)		3.8	3.8	4.5	6.0	6.0	6.0	8.7	8.7	15	10	15	15	26	26	26	42	42	76	76	
Impulse withstand voltage, U _{imp} (kV)		8	8	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	
Rated short circuit making capacity, I _{cm} (kA)																					
AC-23A	690V	1	1	1	2.5	2.5	2.5	3.1**	3.1**	8	3.1**	8	8	14	14	14	27,5	27,5	60	60	
Rated short time withstand current (1 s), I _{cw} (kA)																					
690V	0,7	0,7	0,7	1,7	1,7	1,7	2,0	2,0	5	2,0	5	5	8***	8***	13,5***	13,5***	28***	28***			
Rated breaking capacity, I _{cn} (A)																					
AC-23A	400/415V	128	200	320	128	200	320	320	504	800	504	1000	1280	1280	1600	2000	2520	3200	5040	6400	
	500V	128	200	200	128	200	256	320	320	504	320	640	800	1280	1600	2000	2520	3200	5040	6400	
	690V	128	200	200	128	200	256	320	320	504	320	640	800	1280	1600	2000	2520	3200	5040	6400	
Electrical endurance (number of operations)		3000	3000	3000	3000	3000	3000	3000	3000	2000	3000	2000	2000	2000	2000	2000	2000	2000	2000		
Mechanical endurance (number of operations)		50000	50000	50000	50000	50000	50000	50000	50000	16000	50000	16000	16000	16000	16000	16000	16000	10000	10000	10000	
Terminals / Bolt size Cu (mm ²)		1.5-16	1.5-16	1.5-16	1.5-16	1.5-16	1.5-16	2.5-35	2.5-35	6-70	2.5-35	6-70	6-70	M8	M8	M8	M10	M10	M12	M12	
Max terminal torque (Nm)		1,8	1,8	1,8	1,8	1,8	1,8	2,5	2,5	6	2,5	6	6	15-22	15-22	15-22	30-44	30-44	50-75	50-75	

KUE, EVA, VKA LOAD BREAK SWITCH

KUE TOGGLE LBS							EVA TOGGLE LBS				VKA ROTARY LBS		LOAD BREAK SWITCHES			
16A	25A	40A	63A	80A	125A	125A	160A	200A	250A	200A	250A					
800	800	800	800	800	690	690	690	690	690	1000	1000	Rated insulation voltage, U_i (V)				
25	40	63	80	100	125	160	200	200	250	200	250	Rated thermal current, I_{th} (A)				
4	10	16	25	35	50	70	95	95	120	95	120	Nominal values with cable size (mm ²)				
												Rated operational current, I_e (A)				
25	40	63	80	100	125	160	200	200	250	200	250	400/415V	AC-21A	AC-21A		
25	40	63	80	100	125	-	-	-	-	200	250	500V				
25	40	63	80	100	125	-	-	-	-	200	250	690V				
16	25	40	63	80	125	125	160	200	250	200	250	400/415V	AC-22A	AC-22A		
16	25	40	63	80	80	-	-	-	-	-	-	500V				
16	25	40	63	80	80	-	-	-	-	-	-	690V				
16	25	25	40	63	63	80	125	160	200	200	250	400/415V	AC-23A	AC-23A		
16	20	20	32	32	32	-	-	-	-	-	-	500V				
16	20	20	32	32	32	-	-	-	-	-	-	690V				
-	-	-	-	-	-	-	-	-	-	-	-	1000V				
												Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)				
7.5	11	11	22	30	30	45	75	75	90	110	132	400/415V	AC-23A	AC-23A		
7.5	11	11	22	22	22	55	75	-	-	-	-	500V				
11	15	15	30	30	30	55	90	-	-	-	-	690V				
												Rated fused short circuit current				
63	63	63	80	80	125	160	160	250	250	250	250	Back-up fuse (A)				
50	50	50	50	50	30	50	50	50	50	50	50	R.M.S. value, I_k (kA)				
7.2	7.2	7.2	8.7	8.7	10	15	15	21	21	22	22	Peak value (kA)				
8	8	8	8	8	8	8/6	8/6	6	6	8	8	Impulse withstand voltage, U_{imp} (kV)				
2.5	2.5	2.5	3.1..	3.1..	3.3	5.1	5.1	11.4..	11.4..	11.4..	11.4..	690V	Rated short circuit making capacity, I_{cm} (kA)			
1.7	1.7	1.7	2.0	2.0	2.3	3.5	3.5	6.5..	6.5..	6.5..	6.5..	690V	Rated short time withstand current (1 s), I_{sw} (kA)			
1.7	1.7	1.7	2.0	2.0	2.3	3.5	3.5	6.5..	6.5..	6.5..	6.5..	690V	Rated breaking capacity, I_{cb} (A)			
128	200	200	320	504	504	800	840	1600	1600	1600	2000	400/415V	AC-23A	AC-23A		
128	160	160	256	256	320	640	1000	-	-	-	-	500V				
128	160	160	256	256	320	640	1000	-	-	-	-	690V				
3000	3000	3000	3000	3000	3000	2000	2000	2000	2000	2000	2000	Electrical endurance (number of operations)				
50000	50000	50000	50000	50000	50000	16000	16000	16000	16000	16000	16000	Mechanical endurance (number of operations)				
1.5-16	1.5-16	1.5-16	2.5-35	2.5-35	2.5-50	6-70	6-70	M8	M8	M8	M8	Terminals / Bolt size Cu (mm ²)				
1.8	1.8	1.8	2.5	2.5	2.5	6	6	15-22	15-22	15-22	15-22	Max terminal torque (Nm)				
												· 415 V				
												.. 2.5kA when CCC marked				
												... 1000V				
											 50kA with 315A fuse				

THE IP RATINGS SYSTEM

The International Protection degree for enclosures is given in the form of an IP (Ingress Protection) rating classification. The standards covering this are IEC 60529 and AS / NZS 60529 – 2004 and reconfirmed in 2018. A common example of an IP rating is IP65, the first number (6) represents protection against solid objects.

The second number (5) represents protection against liquids. IP65 means the enclosure is protected against dust, and from low pressure jets of water from all directions. A small amount of water entry is permissible. IP56 in contrast, is a typical outdoors rating for equipment, or even better; IP66. ISO Katko enclosed switches are IP66 when installed correctly.

To easily identify the IP rating of our Katko enclosed switches, refer to the features / technical data information for each enclosed Katko type. Below is a table outlining how IP ratings are determined.

First digit (protection against solid particles and foreign object)		Second digit (protection against water and moisture)	
X	Not tested or rated for protection of this type	X	Not tested or rated for protection of this type
0	No protection against solid particles or foreign bodies	0	No protection against water or moisture
1	Protection against contact by hand, or large solid foreign bodies with a diameter greater than 50mm	1	Protection against damage from vertically-dripping water, including condensation
2	Protection against contact by fingers, or any foreign bodies with a diameter greater than 12mm	2	Protection against damage from vertically-dripping water, when the enclosure is tilted up to 15° off its standard vertical orientation
3	Protection against tools, wires or similar thin solid objects with a diameter greater than 2.5mm	3	Protection against damage from direct diagonal water sprays, when the enclosure is tilted up to 60° off its standard vertical orientation
4	Protection against fine tools, nails, screws, large insects or other solid objects with a diameter greater than 1mm	4	Protection against damage from splashing water from any direction
5	Full protection against all contact, and partial protection against damage from any amount of dust	5	Protection against damage from low-pressure jets of water, from a nozzle size of up to 6.3mm, from any direction
6	Complete vacuum-sealed protection against dust or any other solid particles	6	Protection against damage from powerful jets of water, from a nozzle size of up to 12.5mm, from any direction, and against water penetration in temporary flooding conditions
		7	Protection against damage when temporarily immersed in water for up to 30 minutes, at depths of between 15cm and 1m
		8	Protection against damage from long-term immersion in water under high pressure, with parameters specified by the manufacturer
		9K*	Protection against damage from high-pressure, high-temperature jet sprays, wash-downs or steam-cleaning processes

UTILISATION CATEGORIES:

SWITCHES, DISCONNECTORS, SWITCH-DISCONNECTORS AND FUSE-COMBINATION UNITS

Type of Current	Utilisation Category	Typical applications
	Frequent operation	Occasional operation
AC		AC 20A AC 20B Making and breaking without load AC 21A AC 21B Switching resistive loads including low overloads AC 22A AC 22B Switching mixed resistive and inductive loads, including low overloads AC 23A AC 23B Switching motors and other highly inductive loads
DC		DC 20A DC 20B Making and breaking without load DC 21A DC 21B Switching resistive loads including low overloads DC 22A DC 22B Switching mixed resistive/inductive loads, or low overloads (ex: shunt motors) DC 23A DC 23B Switching highly inductive loads (e. g. series motors)

Category AC 23 includes occasional switching of individual motors. The utilisation categories in the above table do not apply to equipment normally used to start, accelerate and/or stop individual motors. The utilisation categories for such an equipment are dealt with the following table:

Type of Current	Utilisation Category	Typical applications
AC	AC 2	Slip-ring motors: starting, plugging1), switching off
	AC 3	Squirrel-cage motors: starting, switching off running motors
	AC 4	Squirrel-cage motors: starting, plugging1), inching 2)
DC	DC 3	Shunt motors: starting, plugging1), inching 2), dynamic breaking of DC motors
	DC 4	Series motors: starting, plugging1), inching 2), dynamic breaking of DC motors

1. Plugging is understood to mean stopping or reversing the motor rapidly by reversing motor primary connections while the motor is running. Inching (jogging) is understood to mean energising a motor once or repeatedly for short periods to obtain small movements of the driven mechanism.
2. Note: The switching of rotor circuits, capacitors or tungsten filament lamps shall be subject to special agreements between manufacturer and user.

ENCLOSED SWITCH DATA AND CABLE SIZES

KATKO SWITCH ENCLOSURE TYPES

- Enclosures:

Polycarbonate	IP66, IP65
ABS	IP65
Sheet Steel	IP65
Aluminium	IP66, IP65
Stainless steel	IP69, IP66, IP65
- Tested according to IEC 60 947-3 and UL 60947-4-1A
- Complies with ISO 9001 and ISO 14001
- AC-23, 690V ratings
- R.M.S values 50 kA
- Multiple break with silver rivets
- Airgap 12,5 mm
- Door interlock
- Lockable handle
- Reliable position indication
- Standard grey/black and yellow/red series
 grey cover, black handle
 yellow cover, red handle
- Standard models 3P, 4P, 6P and 8P (1P and 2P available)



KATKO SWITCH SWITCHES FOR HEAVY DUTY APPLICATIONS

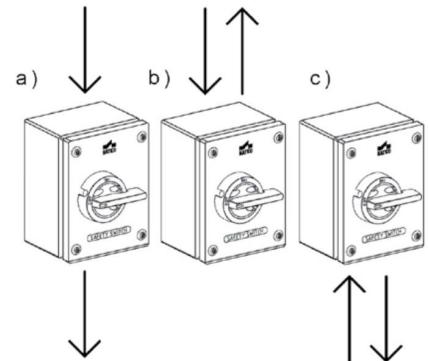
- Superior life span even in most demanding environments such as papermills, chemical plants, steel works and food processing plants.

EASY TO INSTALL

- Retrofit snap - on auxiliary contacts
- Flexible installation. Examples:
 - In from the top, out from the bottom of the enclosure
 - In and outgoing cables from the top of the enclosure
 - In and outgoing cables from the bottom of the enclosure

Note:

When ordering switches with ampere rating 200A or higher, consider the intended cabling directions if other than shown in a) due to cable size.



RECOMMENDED ENCLOSURES FOR DIFFERENT SIZE CABLES

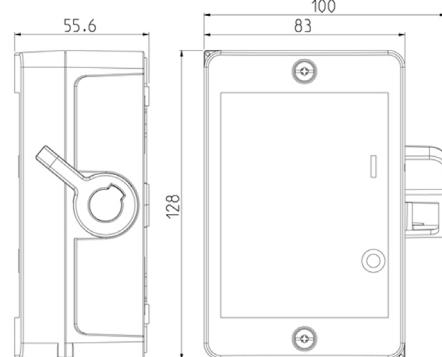
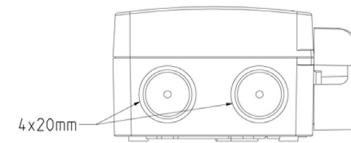
The various enclosure types used with KATKO SWITCH switches will limit the size of cable that can be terminated into a switch. The terminal capacity of the switches may be larger than the maximum size cable that can be used in an enclosure. If the application is for an AC23 load, cable sizes less than the switch maximum terminal capacity can be used.

POLYCARBONATE ENCLOSURES	CABLE SIZE MM2	SHEET STEEL ENCLOSURES	CABLE SIZE MM2	ALUMINIUM ENCLOSURES	CABLE SIZE MM2	STAINLESS STEEL ENCLOSURES
M1, M2	3x2,5+2,5	T3	3x2,5+2,5	A2	3x2,5+2,5	RA2
M1, M2	3x6+6	T3	3x6+6	A2	3x6+6	RA2
M3	3x10+10	T3	3x10+10	A4	3x10+10	RA4
M3	3x16+16	T3	3x16+16	A4	3x16+16	RA4
M4	3x35+16	T4	3x35+16	A4	3x35+16	RA5
M4	3x50+25	T5	3x50+25	A5	3x50+25	RA5
MF01	3x70+35	T5	3x70+35	A5	3x70+35	RA5
MF03, MF04	3x95+50	T6	3x95+50	A6	3x95+50	R6
MF03, MF04	3x120+70	T6	3x120+70	A6	3x120+70	R6
MF03, MF04	3x185+95	T6	3x185+95	A6	3x185+95	R6
MF03, MF04	3x240+120	T7/T10A	3x240+120	A6	3x240+120	R7-R10

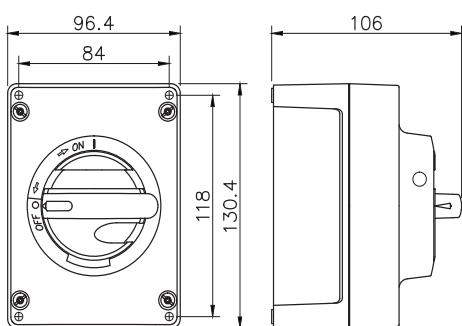
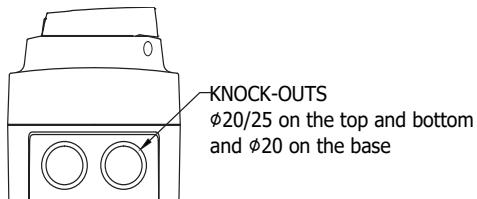
DIMENSIONAL DRAWINGS OF POLYCARBONATE ENCLOSURES



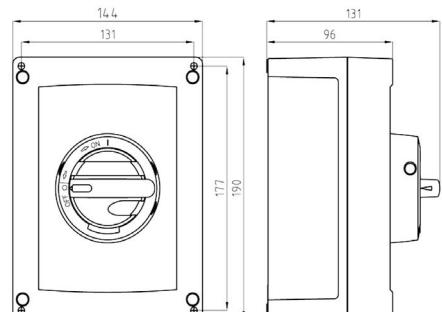
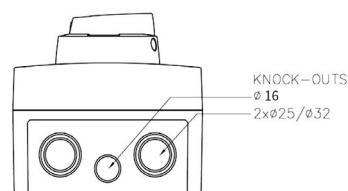
POLYCARBONATE ENCLOSURES



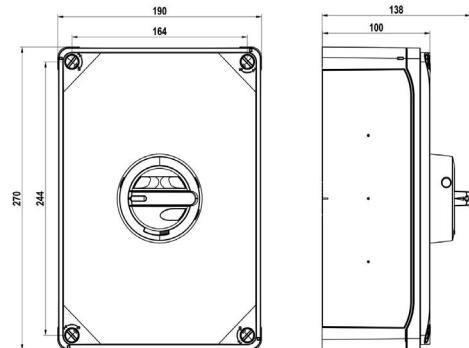
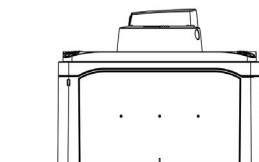
M1



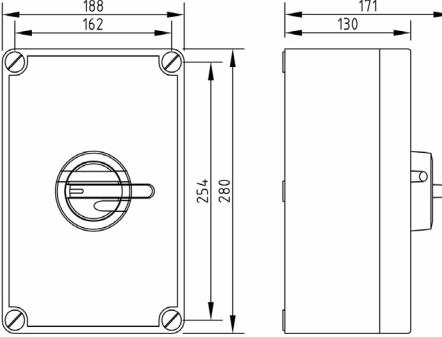
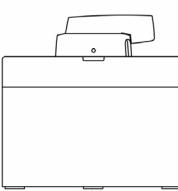
M2



M3

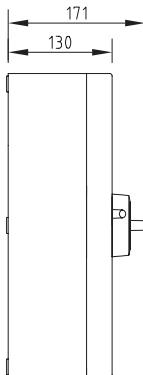
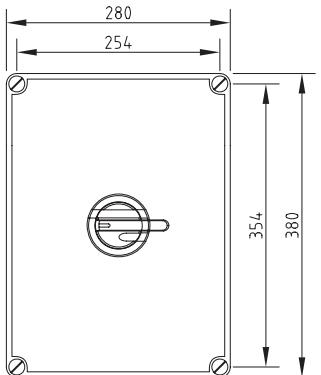
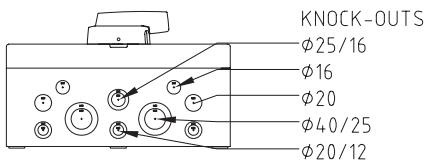


M4

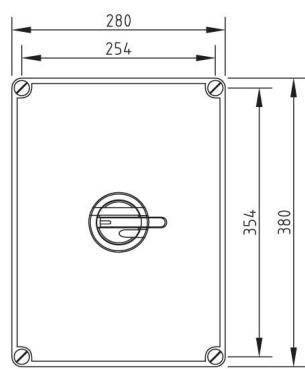
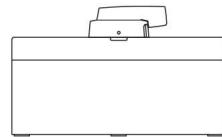


MF10

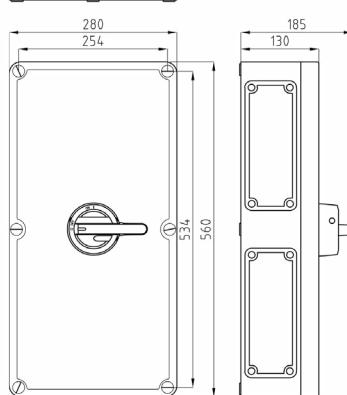
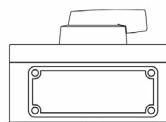
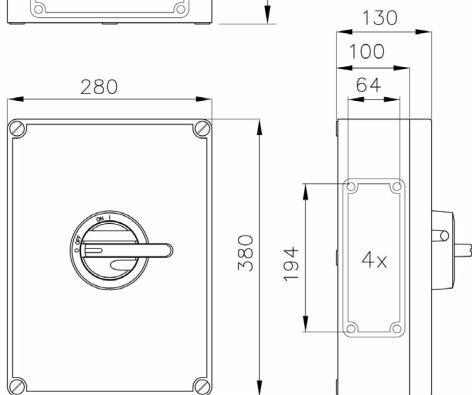
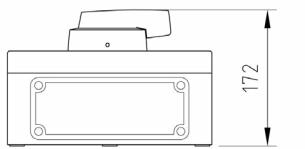
DIMENSIONAL DRAWINGS OF POLYCARBONATE ENCLOSURES



MF11

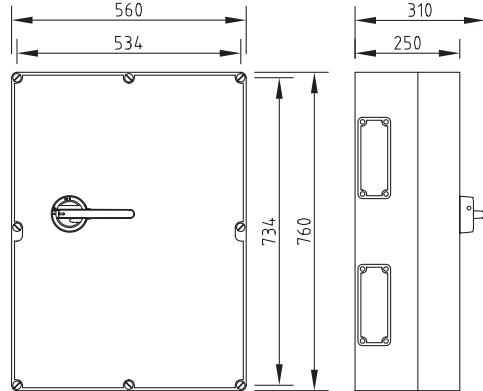
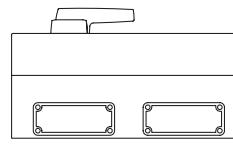
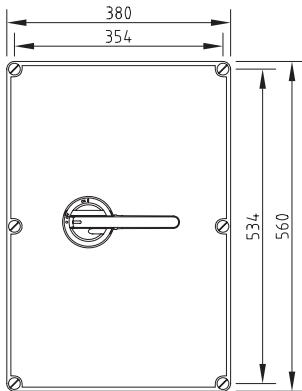
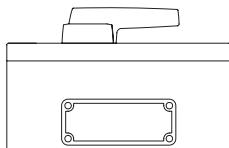


MF11UL



MF01

MF02



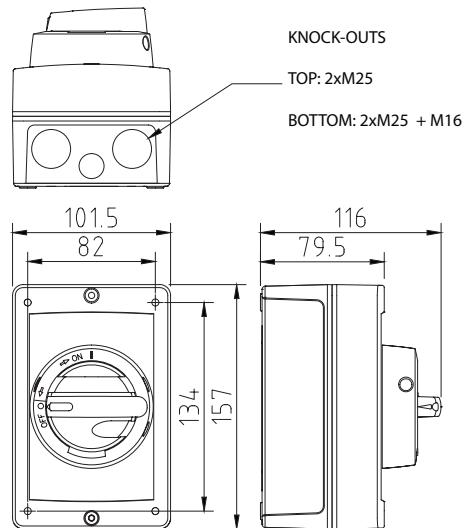
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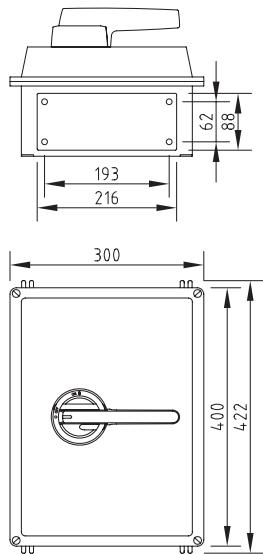
DIMENSIONAL DRAWINGS OF ALUMINIUM ENCLOSURES



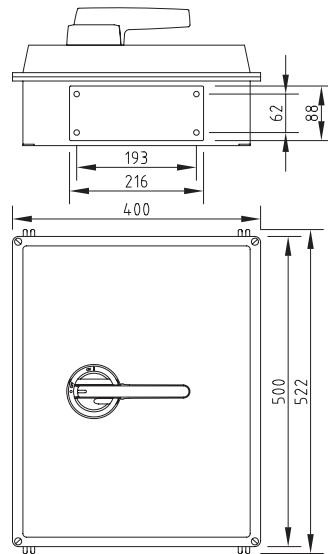
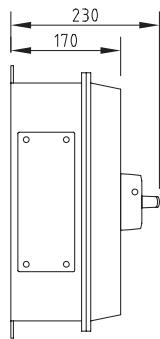
ALUMINIUM ENCLOSURES



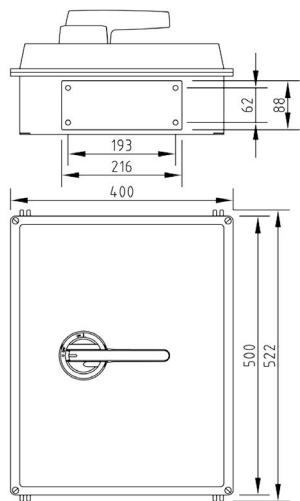
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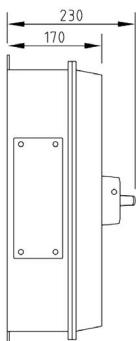
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A5



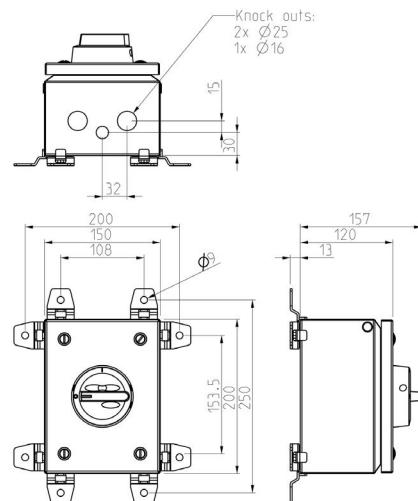
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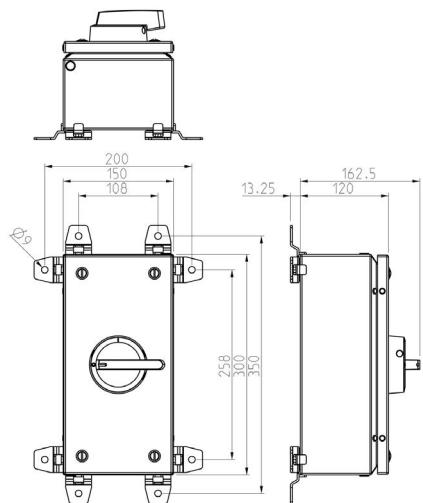
DIMENSIONAL DRAWINGS OF SHEET STEEL ENCLOSURES



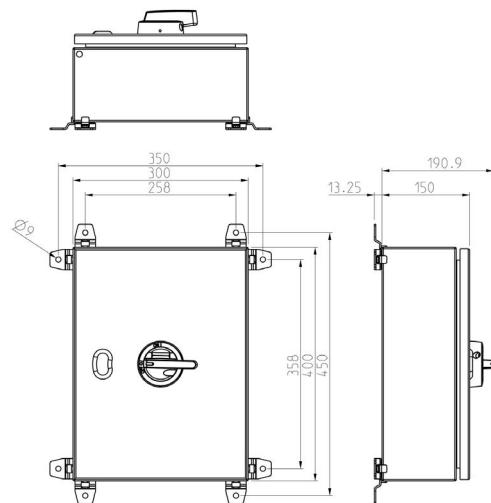
SHEET STEEL ENCLOSURES



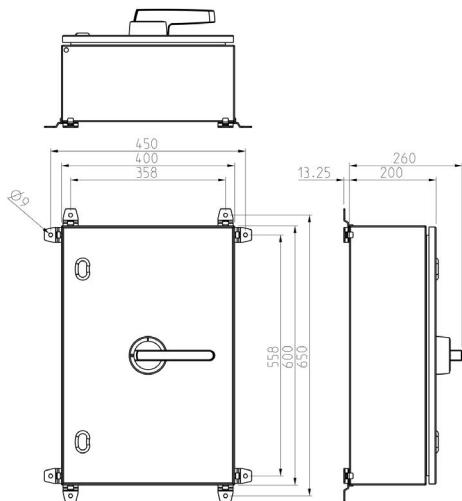
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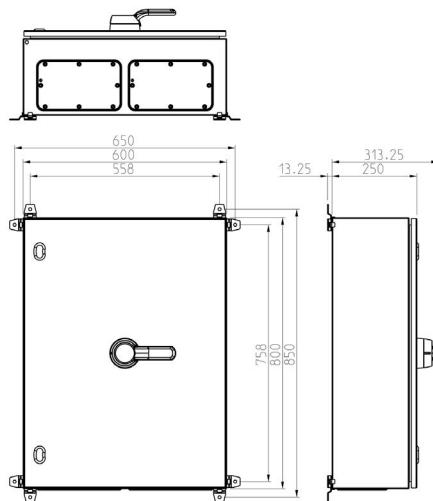
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T5

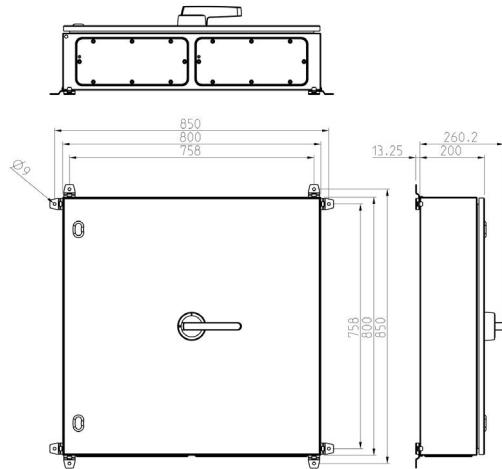


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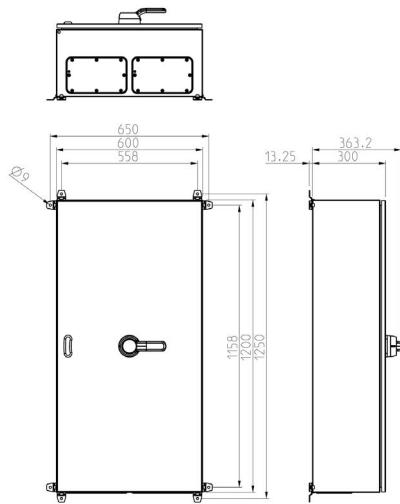


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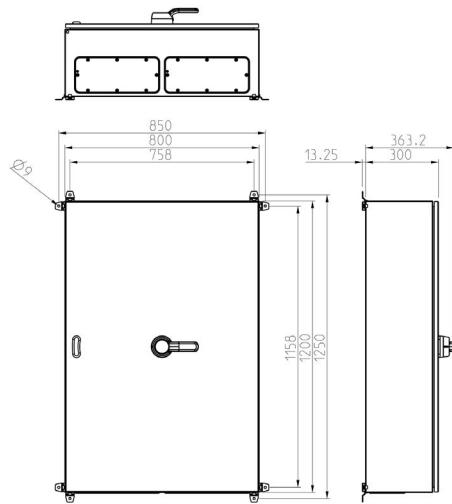
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T8



T10A

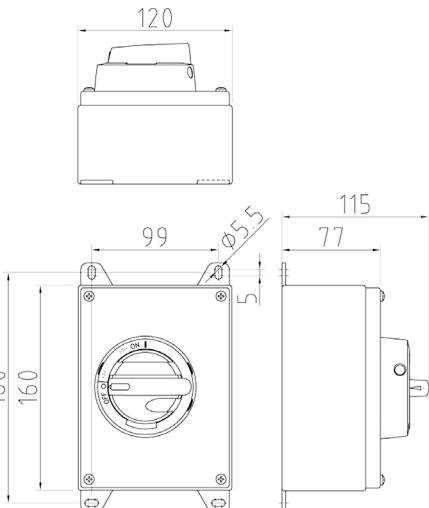


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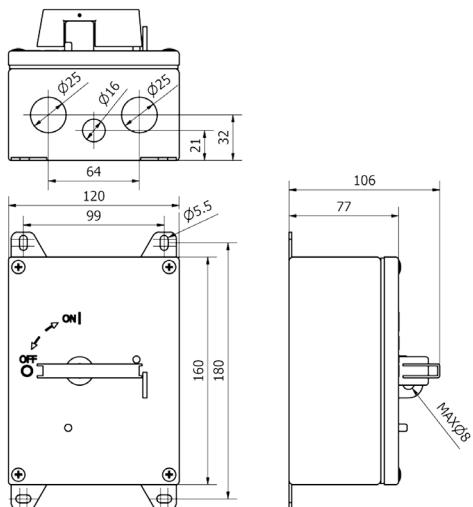
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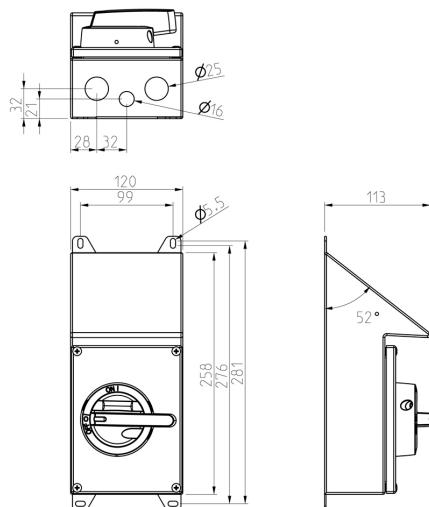
STAINLESS STEEL ENCLOSURES



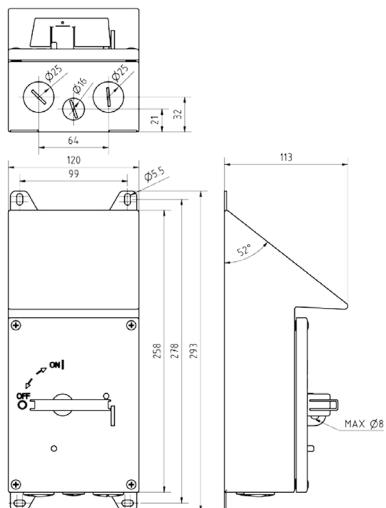
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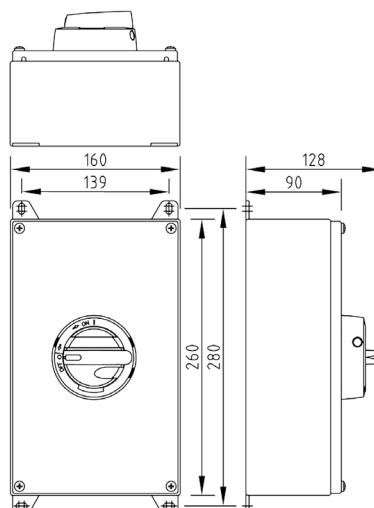
RA2R



RA2S

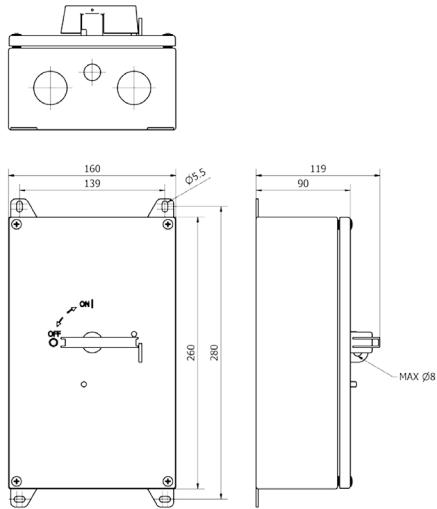


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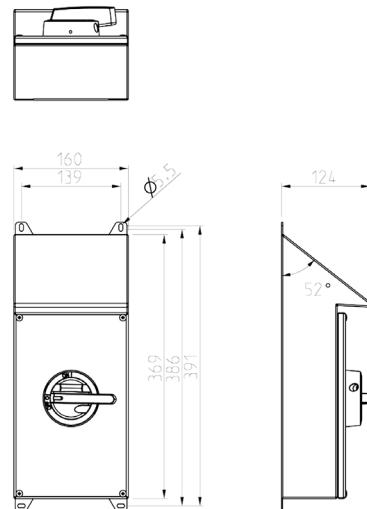


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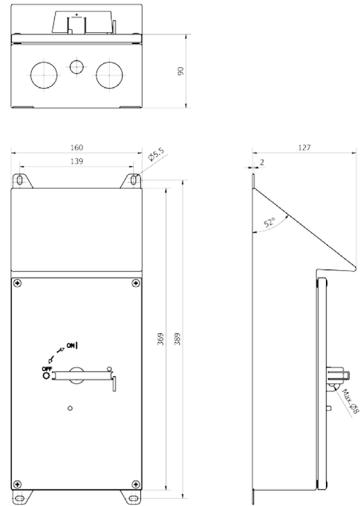
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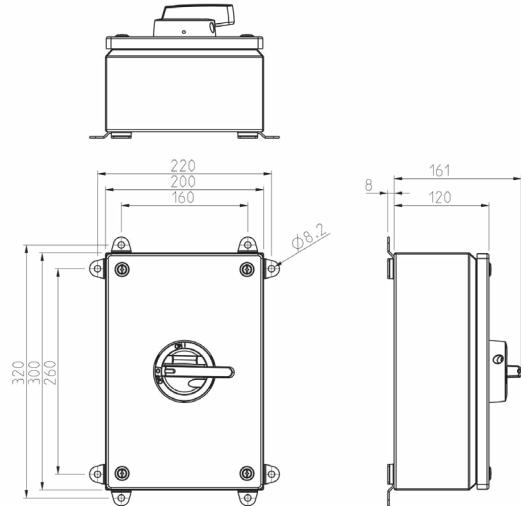
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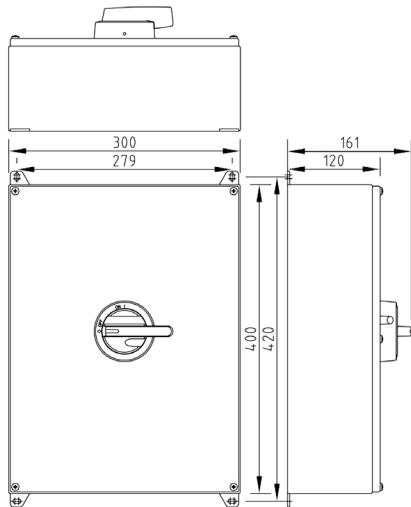
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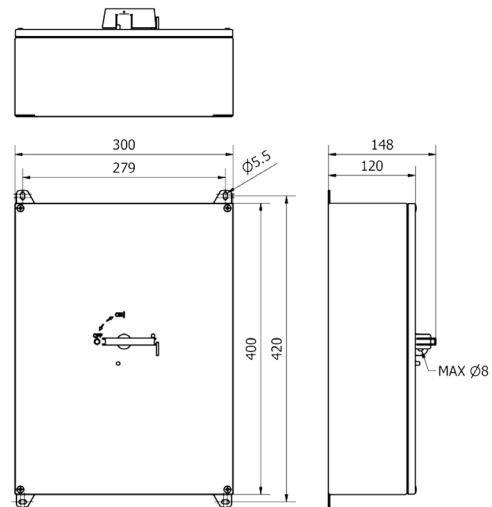
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RA4B

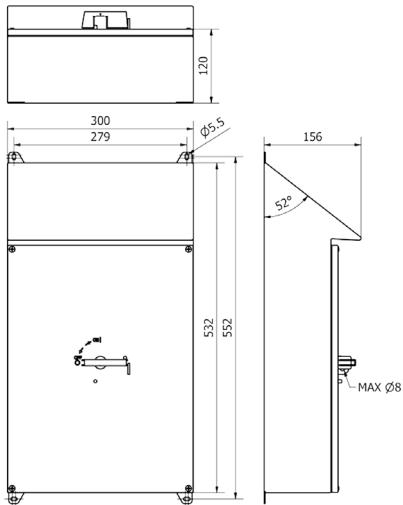


RA5

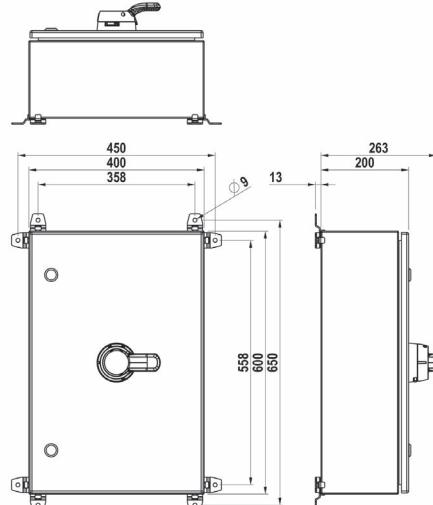


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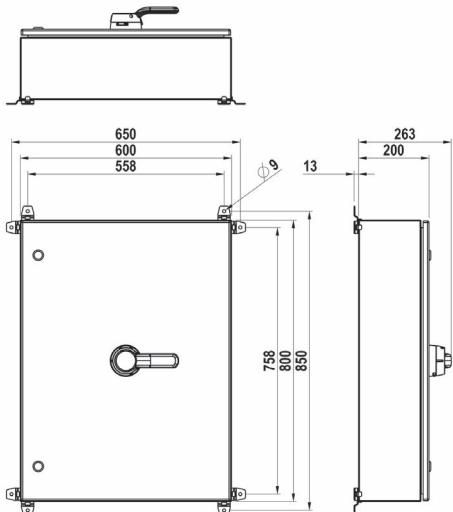
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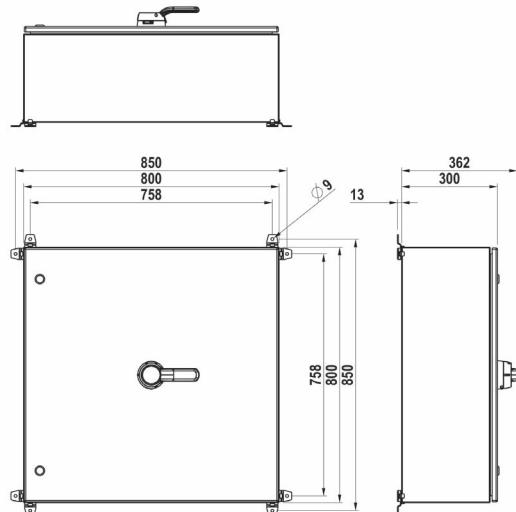
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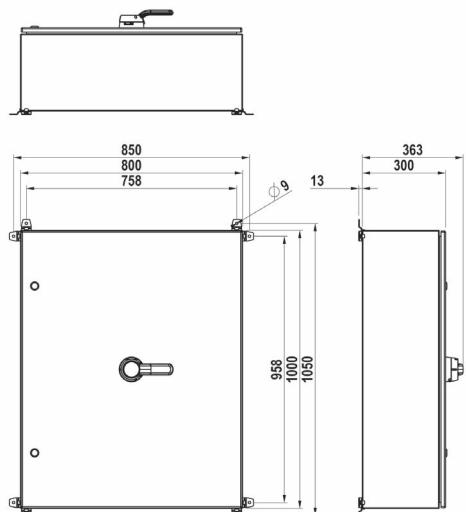
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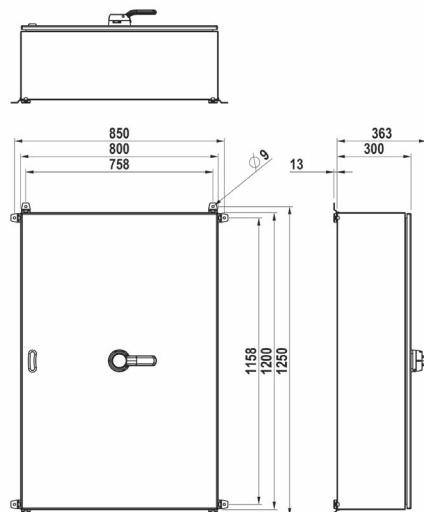
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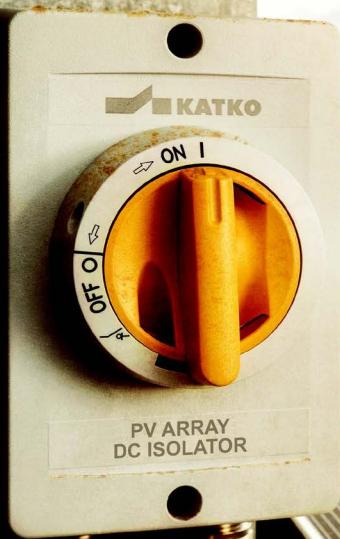
R8



R9



R10





OUR LOCATIONS

National footprint with strategic local stockholdings.

APS Industrial is headquartered in Melbourne and in addition has a national network of offices in Adelaide, Perth, Sydney, Brisbane and Tasmania supported by strategic local stockholdings and expert technical and application knowledge.

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