

KATKO'S EASY TO USE RANGE OF ENCLOSED SWITCHES

Polycarbonate (IP66) or ABS (IP65) enclosure.

Good resistance against UV and many chemicals. Available in grey/black or yellow/red.

stainless steel screw fixing



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

Provision for 3 padlocks

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.

Retrofit 'snap on' auxiliary contacts.

No need to touch existing cabling.

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.

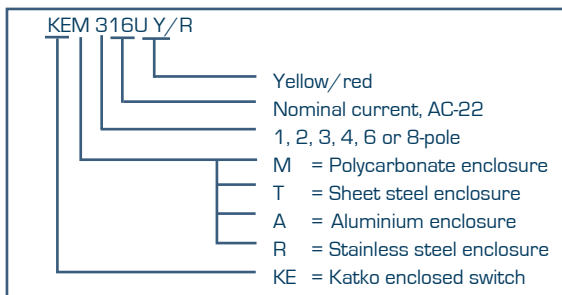
'Plug in' switch. Enables unplugging the switch for easy cabling

SAFETY SWITCHES / ISOLATORS 10 - 630 A

• Enclosures:

Polycarbonate (KEM)	IP66/IP65
ABS (KEM)	IP65
Sheet steel (KET)	IP65
Aluminium (KEA)	IP66/IP65
Stainless steel (KER)	IP66/IP65

- Tested according to IEC 60 947-3 and UL 60947-4-1A
- CB certificates
- Comply 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/black= grey cover, black handle
yellow/red= yellow cover, red handle
- Standard models 3P, 4P, 6P and 8P
- 1P and 2P available



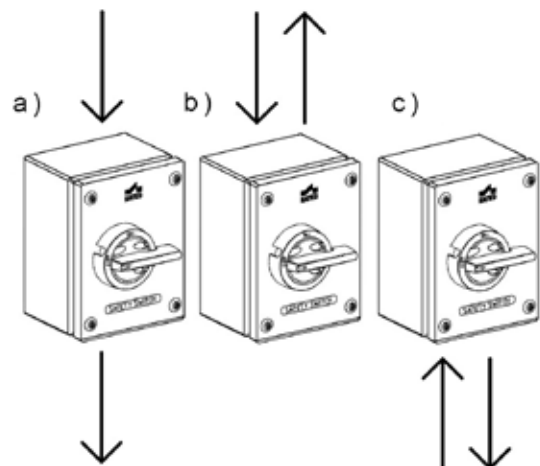
NOTE: When ordering the grey/black series no abbreviation is needed.

KATKO SWITCHES - FOR HEAVY DUTY

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

EASY TO INSTALL

- Retrofit snap-on auxilliary contacts
- Flexible installation, incoming and outgoing cables for example:
 - a) KEM 3400: In from the top, out from the bottom of the enclosure
 - b) KEM 3400 Y: in- and outgoing cables from the top of the enclosure
 - c) KEM 3400 A: in- and outgoing cables from the bottom of the enclosure



NOTE: When ordering switches with ampere rating 200A or higher, please mention the intended cabling directions if other than shown in a).

RECOMMENDED ENCLOSURE FOR DIFFERENT CABLE SIZES

Polycarbonate Enclosures	Cable size mm ²	Sheet Steel Enclosures	Cable size mm ²	Aluminium Enclosures	Cable size mm ²	Stainless Steel Enclosures
U1, U2	3x2,5+2,5	TE005/TRO07	3x2,5+2,5	A2	3x2,5+2,5	H23
U1, U2	3x6+6	TE005/TRO07	3x6+6	A2	3x6+6	H23
U3	3x10+10	TE005/TRO07	3x10+10	A3	3x10+10	H32
U3	3x16+16	TE005/TRO07	3x16+16	A3	3x16+16	H32
U4	3x35+16	TRO1	3x35+16	A3	3x35+16	H02
U4	3x50+25	TRO2	3x50+25	A4	3x50+25	H02
MF01	3x70+35	TRO2	3x70+35	A4	3x70+35	H02
MF03, MF04	3x95+50	TRO3	3x95+50	A5	3x95+50	H03
MF03, MF04	3x120+70	TRO3	3x120+70	A5	3x120+70	H03
MF03, MF04	3x185+95	TRO3	3x185+95	A5	3x185+95	H03
MF03, MF04	3x240+120	TRO4/TRO5	3x240+120	A5	3x240+120	H04-H08

ALWAYS CHOOSE THE RIGHT SWITCH FOR THE RIGHT PURPOSE!

SAFETY SWITCHES / ISOLATORS 10-630 A TECHNICAL DATA



SAFETY SWITCHES / ISOLATORS		10 A	16 A	25 A	40 A	63 A	80 A	100 A	125 A
Rated insulation voltage, U_i [V]		800	800	800	800	800	800	800	800
Rated thermal current, I_m [A]		20	25	40	63	80	100	125	160
Rated thermal current, I_{mnc} [A]		20	2	4	63	80	100	125	160
Nominal values with cable size (mm ²)		2.5	4	10	16	25	35	70	70
Rated operational current, I_p [A]									
AC-21	400/415V	20	25	40	63	80	100	125	160
	500V	20	25	40	63	80	100	125	160
	690V	20	25	40	63	80	100	125	160
AC-22	400/415V	10	16	25	40	63	80	100	125
	500V	10	16	25	40	63	80	100	125
	690V	10	16	25	40	63	80	100	125
AC-23	400/415V	10	16	25	40	40	63	100	125
	500V	10	16	25	32	40	40	63	80
	690V	10	16	25	32	40	40	63	80
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors [kW]									
AC-23	400/415V	5.5	7.5	11	22	22	30	55	55
	500V	5.5	7.5	15	22	30	30	37	55
	690V	7.5	11	22	30	37	37	55	75
Rated fused short circuit current									
Back-up fuse [A]		63	63	63	63	80	80	160	160
R.M.S. value, I_s [kA]		50	50	50	50	50	50	65	65
Peak value [kA]		7.2	7.2	7.2	7.2	8.7	8.7	15	15
Impulse withstand voltage, U_{imp} [kV]		8	8	8	8	8	8	8	8
Rated short circuit making capacity, I_{cm} [kA]									
	690V	2.5	2.5	2.5	2.5	3.1	3.1	8	8
Rated short time withstand current (1 s), I_{sc} [kA]									
	690V	1.7	1.7	1.7	1.7	2.0	2.0	5	5
Rated breaking capacity, I_{cn} [A]									
AC-23	400/415V	80	128	200	320	320	504	640	1000
	500V	80	128	200	256	320	320	504	640
	690V	80	128	200	256	320	320	504	640
Electrical endurance (operations)		3000	3000	3000	3000	3000	3000	2000	2000
Mechanical endurance (operations)		50000	50000	50000	50000	50000	50000	16000	16000
Terminals / Bolt size Cu (mm ²)		1.5-16	1.5-16	1.5-16	1.5-16	2.5-35	2.5-35	6-70	6-70
Max terminal torque [Nm]		1.8	1.8	1.8	1.8	2.5	2.5	6	6
1) KEEx x200 - KEEx x250 2) KEEx x200C - KEEx x250C									

SAFETY SWITCHES / ISOLATORS 10-630 A TECHNICAL DATA



Safety switches / Isolators								Safety switches / Isolators	
160 A	200 A ¹⁾	200 A ²⁾	250 A ¹⁾	250 A ²⁾	315 A	400 A	630 A	Rated insulation voltage, U _i [V]	
800	1000	1000	1000	1000	1000	1000	1000	Rated thermal current, I _{th} [A]	
200	200	200	250	250	315	400	630	Rated thermal current, I _{the} [A]	
200	200	200	250	250	315	400	630	Nominal values with cable size [mm ²]	
95	95	95	120	120	185	240	2x185	Rated operational current	
160	200	200	250	250	315	400	630	400/415V	AC-21
160	200	200	250	250	315	400	630	500V	
160	200	200	250	250	315	400	630	690V	
160	200	200	250	250	315	400	630	400/415V	AC-22
160	200	-	250	-	315	400	630	500V	
160	200	-	250	-	315	400	630	690V	
160	200	200	250	250	315	400	630	400/415V	AC-23
100	200	-	250	-	315	400	500	500V	
100	200	-	250	-	315	400	500	690V	
								Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors [kW]	
90	110	110	132	132	160	200	355	400/415V	AC-23
55	132	-	160	-	200	250	355	500V	
90	160	-	250	-	315	355	500	690V	
								Rated fused short circuit current	
160	250	250	250	250	400	400	630	Back-up fuse [A]	
65	50	50	50	50	50	50	50	R.M.S. value, I _k [kA]	
15	18	22	18	22	26	26	32	Peak value [kA]	
8	8	8	8	8	8	8	8	Impulse withstand voltage, U _{imp} [kV]	
8	11.4	7	11.4	7	12	12	17	690V	Rated short circuit making capacity, I _{cm} [kA]
5	6.5	6	6.5	6	7	7	10	690V	Rated short time withstand current (1 s), I _{sw} [kA]
								Rated breaking capacity, I _{cn} [A]	
1280	1600	1600	2000	2000	2520	3200	5040	400/415V	AC-23
800	1600	-	2000	-	2520	3200	4000	500V	
800	1600	-	2000	-	2520	3200	4000	690V	
2000	2000	2000	2000	2000	2000	2000	2000	Electrical endurance (operations)	
16000	16000	16000	16000	16000	10000	10000	10000	Mechanical endurance (operations)	
6-70	M10	M8	M10	M8	M10	M10	M12	Terminals / Bolt size Cu [mm ²]	
6	30-44	15-22	30-44	15-22	30-44	30-44	50-75	Max terminal torque [Nm]	