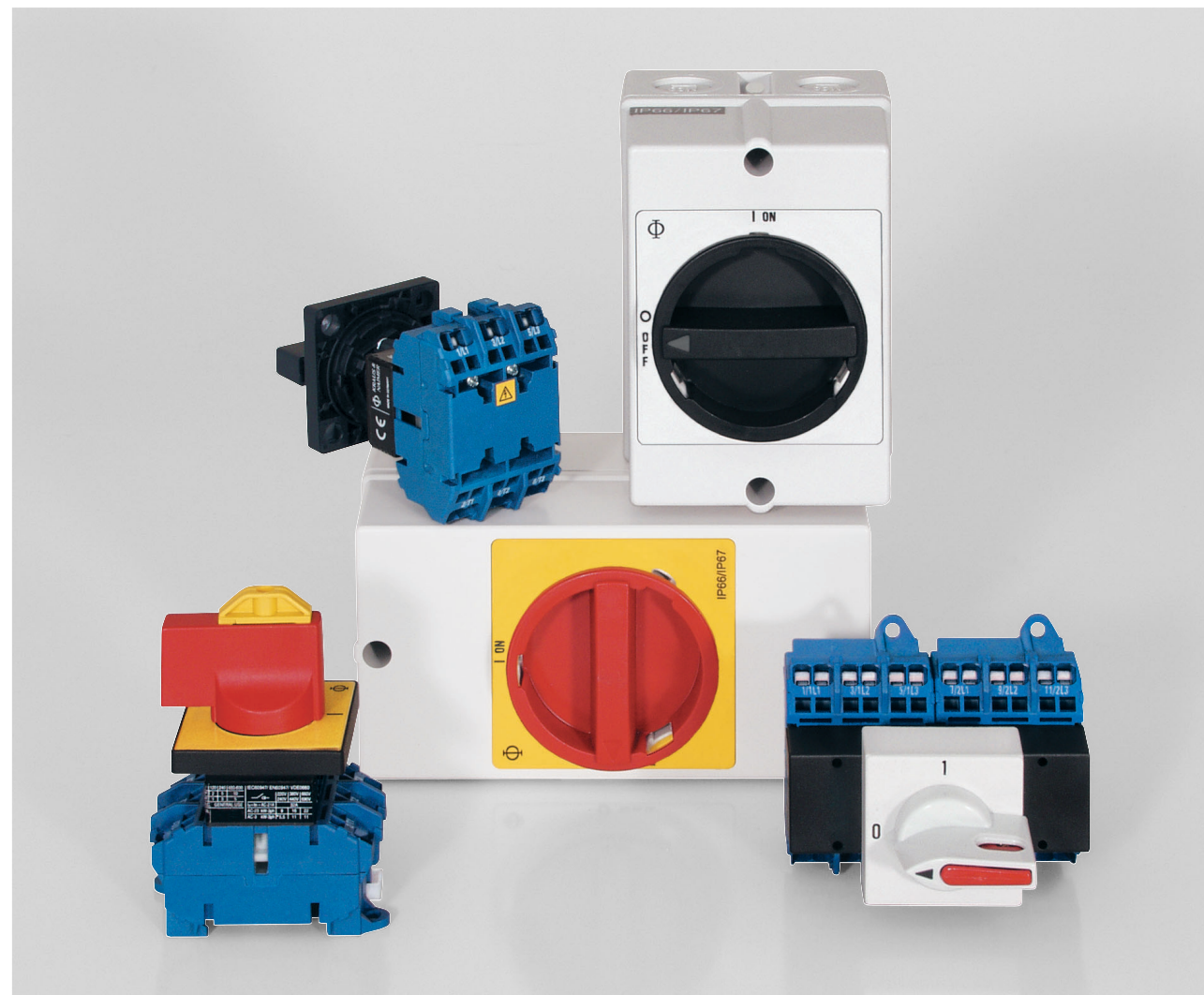


Main Switches and Switch Disconnectors

KC Switch Series 16 A-32 A

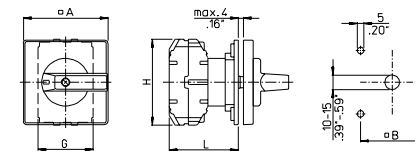


- with new spring clamp terminals
- suitable for 2 conductors per terminal
- secure connections even during vibration and temperature variations
- terminals, finger-proof according to EN 50274, VDE 0660 part 514 and BGV A3 and accessible while the switch is installed
- positive contact movement during making and breaking

mm
Dimensions inch

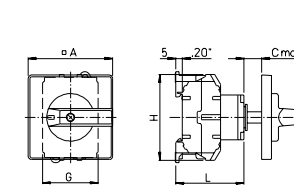
Switch Disconnectors

Front mounting, four hole panel mounting

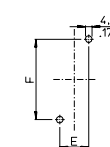


	A	B	G	H	L
KC16-32	48	36	42	65	52,4
	1.89	1.42	1.65	2.56	2.06

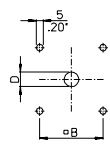
Base mounting



Mounting dimensions
for the VE plate

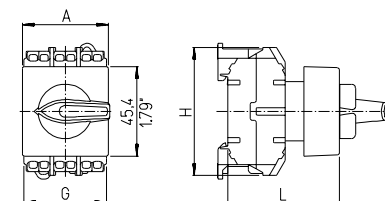


Drilling plan for
panel mounting



	A	B	C	D	E	F	G	H	L
KC16-32	48	36	12	8-15	22	60	42	65	50
	1.89	1.42	.47	.31-.59	.87	2.36	1.65	2.56	1.97

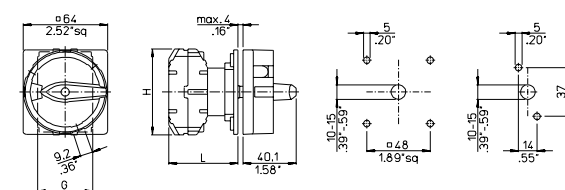
Base mounting with padlock device



	A	G	H	L
KC16-32	43,7	42	65	56,5
	1.72	1.65	2.56	2.22

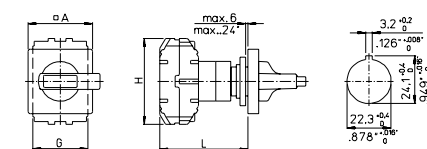
Main Switches and Main Switches with Emergency Function

Front mounting, four hole panel mounting



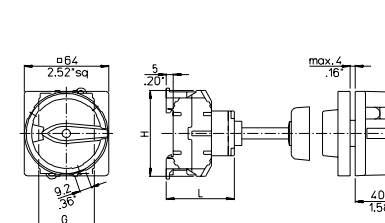
	G	H	L
KC16B-32B	42	65	52,4
	1.65	2.56	2.06

Front mounting, single hole mounting Ø 22 mm

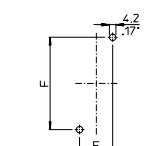


	A	G	H	L
KC16-32	48	42	65	66,9
	1.89	1.65	2.56	2.63

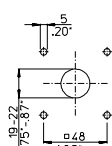
Base mounting with door clutch



Mounting dimensions
for the VE plate



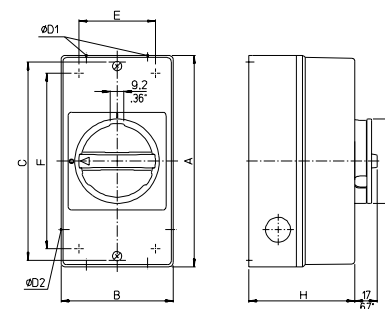
Drilling plan for
panel mounting



	E	F	G	H	L
KC16B-32B	22	60	42	65	50
	.87	2.36	1.65	2.56	1.97

Maintenance and Safety Switches

in plastic enclosure



Enclosure	A	B	C	D1	D2	E	F	H
KS51V	120	85	110	20	20	—	—	90
	4.72	3.35	4.33	.79	.79	—	—	3.54
KL51V	160	85	150	20	20	—	—	82
	6.30	3.35	5.91	.79	.79	—	—	3.23

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Construction Data

The switches described in this data sheet exceed the requirements of IEC 60947-3, EN 60947-3, VDE 0660 part 107, IEC 60204, EN 60204 and VDE 0113, and meet the standard on disconnectors, switch disconnectors, main switches and maintenance switches.

The switches of the KC series are supplied with spring clamp terminals instead of the typical screw clamp terminals, which greatly reduces installation time. Two conductors can be independently connected to or removed from each terminal.

These terminals are rust and acid resistant, and the secure connections require no retightening over the life of assembly. The reliability of the connection is ensured even during vibration or temperature variations.

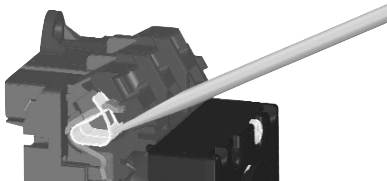
The safety level of the KC series in numerous areas surpasses the requirements of many international standards: Positive contact movement during making and breaking. Greater air and creepage distances for 690 V. Finger-proof terminals according to EN 50274, VDE 0660 part 514 and BGV A3 with additional protection IP 20.

Excellent AC-23A making and breaking capabilities provide an additional safety advantage.

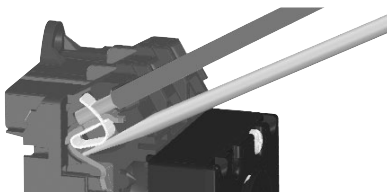
All base mounted switches feature a two hole mounting as well as a “quick mount” designed for standard DIN rails according to EN 50022.

A large range of optional extras, such as shaft extensions, door clutches, padlock devices and plastic enclosures, enhances the flexibility of this versatile switch line.

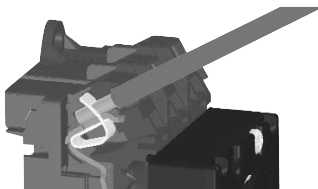
1. In order to open the tension spring insert the screwdriver to the stop.



2. Insert the bare wire conductor with or without sleeve into the open clamping unit.



3. After removing the screwdriver the spring clamp securely holds the conductor against the terminal surface.



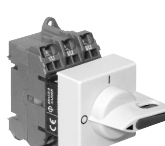
Technical Data according to IEC 60947-3, EN 60947-3 and VDE 0660 part 107

Switch Types						KC16	KC20	KC25	KC32
Rated Insulation Voltage U _i ¹					V	690	690	690	690
Rated Operational Voltage U _e ¹					V	690	690	690	690
Rated Impulse Withstand Voltage U _{imp} ¹					kV	6	6	6	6
Rated Thermal Current I _u /I _{th}					A	16	20	25	32
Rated Operational Current I _e AC-21A=AC-22A					690 V A	16	20	25	32
Rated Breaking Capacity									
220 V-240 V					A	140	160	210	260
380 V-440 V					A	140	160	210	260
660 V-690 V					A	125	145	165	200
Disconnection Property					up to ¹	V	690	690	690
Rated Utilization Category									
AC-3	Direct-on-line starting	3 phase	220 V-240 V	kW	3	3,5	4	5,5	
		3 pole	380 V-440 V	kW	5,5	6,5	7,5	11	
			500 V	kW	5,5	6,5	7,5	11	
			660 V-690 V	kW	5,5	5,5	7,5	11	
AC-23A	Frequent switching of motors or other high inductive loads (criterion for main switches)	3 phase	220 V-240 V	kW	4,5	5,5	7	9	
		3 pole	380 V-440 V	kW	7,5	10	12	16	
			500 V	kW	10	12	15	20	
			660 V-690 V	kW	13	15	17	22	
Short Circuit Protection									
Max. fuse size (gL/gG-characteristic)					A	25	35	35	35
Rated short-time withstand current (1s-current)					A	350	350	350	350
Max. Permissible Wire Gage									
Possible cross sections		single-core and stranded wire	mm ²				0,5 – 6		
			AWG				20 – 10		
		flexible wire without sleeve	mm ²				0,5 – 4		
			AWG				26 – 10		
		flexible wire with sleeving in acc. with DIN 46228	mm ²				0,5 – 2,5		
Ambient Temperature					open at 100 % I _u /I _{th} enclosed at 100 % I _{the}	50 °C during 24 hours with peaks up to 55 °C 35 °C during 24 hours with peaks up to 40 °C			

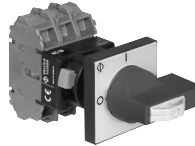
Technical Data according to the Requirements of North America

Switch Types					KC16	KC20	KC25	KC32
Insulation Voltage		V			600	600	600	600
Max. Nominal Voltage		3 phase	V		600	600	600	600
Thermal Current			A		16	20	25	30
Ampere Rating			A		16	20	25	30
Heavy Pilot Duty		Rating Code			A600	A600	A600	A600
Motor Switching Capacity (DOL-Rating)								
Standard motor-load		3 phase	110 V-120 V	HP	1	1	1,5	2
				HP	2	2	3	5
		3 pole	220 V-240 V	HP	5	5	7,5	10
			440 V-480 V	HP	5	5	7,5	10
			550 V-600 V	HP				

Switch Disconnectors

 IP 66	Front mounting, four hole panel mounting		
	KC16	T303	E
	KC20	T303	E
	KC25	T303	E
 IP 40	Base mounting		
	KC16	T303	VE
	KC20	T303	VE
	KC25	T303	VE
 IP 40	Base mounting with padlock device		
	KC16	T303/58	VE2
	KC20	T303/58	VE2
	KC25	T303/58	VE2
	KC32	T303/58	VE2

Main Switches and Main Switches with Emergency Function

 IP 66	Front mounting, four hole panel mounting		
	Main switches		Main switches with emergency function
	KC16B	T103/01 E	KC16B T203/01 E
	KC20B	T103/01 E	KC20B T203/01 E
 IP 66	Front mounting, single hole mounting Ø 22 mm		
	Main switches		Main switches with emergency function
	KC16	T103/04 FT2	KC16 T203/04 FT2
	KC20	T103/04 FT2	KC20 T203/04 FT2
 IP 66	Base mounting with door clutch		
	Main switches		Main switches with emergency function
	KC16B	T103/09 VE	KC16B T203/09 VE
	KC20B	T103/09 VE	KC20B T203/09 VE
 IP 66/67	in plastic enclosure		
	Main switches		Main switches with emergency function
	KC16	T103/33 KS51V	KC16 T203/33 KS51V
	KC20	T103/33 KS51V	KC20 T203/33 KS51V
 IP 66/67			
	KC25	T103/33 KS51V	KC25 T203/33 KS51V
	KC32	T103/33 KL51V	KC32 T203/33 KL51V

Maintenance and Safety Switches

 IP 66/67	in plastic enclosure		
	Main switches		Main switches with emergency function
	KC16	T103/33 KS51V	KC16 T203/33 KS51V
	KC20	T103/33 KS51V	KC20 T203/33 KS51V
 IP 66/67			
	KC25	T103/33 KS51V	KC25 T203/33 KS51V
	KC32	T103/33 KL51V	KC32 T203/33 KL51V

¹Valid for lines with grounded common neutral termination, overvoltage category III, pollution degree 3. Values for other supply systems on request.