



CA50

Type Size: S1

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

Sample image

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107

Rated insulation voltage U_i							
			Voltage (V)	AC / DC			
			690	AC			
Rated impulse withstand voltage U_{imp}							
Voltage (kV)		Overvoltage category	Pollution degree	Supply system		Function	
6		III	3	Valid for lines with grounded common neutral termination		switch	
Rated uninterrupted current I_u/I_{th}							
Current (A)	Ambient temperature (°C)		Peak temperature (°C)	additional requirements			
50	55		60	Ambient temperature +55°C during 24 hours with peaks up to +60°C			
Conventional enclosed thermal current I_{the}							
Current (A)	Ambient temperature (°C)	Peak temperature (°C)	Additional requirements		No. of stages (from - to)	Mounting	Mounting size
50	35	40	Ambient temperature +35°C during 24 hours with peaks up to +40°C		--	--	--
Rated operational current I_e							
Utilization category				Voltage (V)		Current (A)	
AC-15				220 - 240		16	
AC-15				380 - 440		7	
AC-20A				690		50	
AC-21A				20 - 690		50	
AC-22A				20 - 690		50	
Rated operational power							
Utilization category			Voltage (V)	No. of phases	No. of poles	Power (kW)	
AC-2			220 - 240	3	3	11	
AC-2			380 - 440	3	3	22	
AC-2			500 - 500	3	3	30	
AC-2			660 - 690	3	3	30	
AC-3			220 - 240	3	3	11	
AC-3			380 - 440	3	3	18,50	
AC-3			500 - 500	3	3	18,50	
AC-3			660 - 690	3	3	18,50	
AC-3			110 - 120	1	2	3	
AC-3			220 - 240	1	2	6	
AC-3			380 - 440	1	2	11	
AC-3			500 - 500	1	2	15	
AC-3			660 - 690	1	2	11	
AC-4			220 - 240	3	3	4	
AC-4			380 - 440	3	3	7	
AC-4			500 - 500	3	3	7	
AC-4			660 - 690	3	3	7,50	
AC-4			110 - 120	1	2	1,20	
AC-4			220 - 240	1	2	2,40	
AC-4			380 - 440	1	2	4	
AC-23A			220 - 240	3	3	11	

Rated operational power				
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-23A	380 - 440	3	3	22
AC-23A	500 - 500	3	3	22
AC-23A	660 - 690	3	3	22
AC-23A	110 - 120	1	2	2,50
AC-23A	220 - 240	1	2	5,50
AC-23A	380 - 440	1	2	11
AC-23A	500 - 500	1	2	15
AC-23A	660 - 690	1	2	10
Max Fuse Rating IEC				
Fuse characteristic	No. of Fuses			Current (A)
gG	1			63

UL60947-4-1, UL508

Rated insulation voltage Ui			
		Voltage (V)	AC / DC
		600	AC
Rated thermal current			
		Current (A)	Ambient temperature (°C) Additional Text
		55	0 - 40 --

GENERAL TECHNICAL INFORMATION

Tightening torque of screws				
			tightening torque (Nm)	tightening torque (lb-in)
			1,80	16
Rated short-time withstand current Icw				
			Time (s)	Current (A)
			1	950
Size of conductor				
composition of conductor	Min. / Max. value	No. of conductor per terminal	Cross section (mm²) or (AWG/kcmil)	Material of the wire
solid wire	Min.	2	0.75mm²	Copper
solid wire	Min.	1	1.5mm²	Copper
flexible wire	Max.	1	AWG 6	Copper
flexible wire	Min.	1	2.5mm²	Copper
flexible wire	Max.	1	10mm²	Copper
flexible wire	Min.	2	1.5mm²	Copper
Single-core or stranded wire	Max.	1	AWG 6	Copper
Single-core or stranded wire	Max.	1	16mm²	Copper
flexible wire with ferrule according to DIN 46228	Min.	2	0.75mm²	Copper
flexible wire with ferrule according to DIN 46228	Max.	1	10mm²	Copper
flexible wire with ferrule according to DIN 46228	Min.	1	1.5mm²	Copper

Approbations	
Specification	Marking
EAC	
CE marking	
UK Directives	
IEC 60947-3; EN 60947-3; VDE 0660 Teil107	IEC 60947-3 EN 60947-3
UL 60947-4-1; CSA C22.2 No. 60947-4-1	

Power loss per pole			
			Power (W)
			1,80
Conditions during transport and storing			
		Minimum temperature (°C)	Maximum temperature (°C) additional requirements
		-40	85 In case of temperatures below -5°C no shock load permissible
Shock / Vibration			
Type of oscillation	Values		
Resistance to shock	min. 5g, 30ms		

Shock / Vibration		
Type of oscillation	Values	
Resistance to vibration	IEC 61373 (1999) Category 1, Class B	
General Information		
Text		
- Do not lubricate or treat contacts. - Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology. - Use copper wire only. Do not coat the wire end with tin. - Terminals with factory fitted jumper links are tightened during production. Take care during installation to ensure factory fitted links are not lost by undoing both sides of linked terminals. After wiring, all terminal screws must be tightened to recommended torque specifications. - After installation of the switches the spacings between the terminals must be sufficient to fulfill the requirement of the applicable standards.		
Operating temperature		
	Min. Temperature [°C]	Max. Temperature [°C]
	-25	60