



Sample image

G20

Type Size: S0

Classification Contact: Knife contact

Classification Contact Mat: Silver plated

Classification Terminal: Screw terminal

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

Rated insulation voltage U_i

Voltage (V)	AC / DC
690	AC
500	DC

Rated impulse withstand voltage U_{imp}

Voltage (kV)	Overvoltage category	Pollution degree	Supply system	Function
8	III	3	Valid for lines with grounded common neutral termination	Switch
6	III	3	Valid for lines with grounded common neutral termination	Switch disconnecter

Rated uninterrupted current I_u /Ith

Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additional requirements
20	55	60	Ambient temperature +55°C during 24 hours with peaks up to +60°C

Rated operational current I_e

Utilization category	Voltage (V)	Current (A)
AC-21A	1 - 690	20
AC-22A	1 - 690	20

Rated operational power

Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-3	220 - 240	3	3	1,50
AC-3	380 - 440	3	3	2,20
AC-3	500 - 500	3	3	2,20
AC-3	660 - 690	3	3	2,20
AC-3	110 - 120	1	2	0,30
AC-3	220 - 240	1	2	0,55
AC-3	380 - 440	1	2	0,75
AC-3	500 - 500	1	2	0,75
AC-3	660 - 690	1	2	0,75
AC-23A	220 - 240	3	3	1,80
AC-23A	380 - 440	3	3	3
AC-23A	500 - 500	3	3	3
AC-23A	660 - 690	3	3	3
AC-23A	110 - 120	1	2	0,37
AC-23A	220 - 240	1	2	0,75
AC-23A	380 - 440	1	2	1,10
AC-23A	500 - 500	1	2	1,10
AC-23A	660 - 690	1	2	1,10

Max. Fuse rating IEC

Fuse characteristic	No. of Fuses	Current (A)
gG	1	25
gPV	1	20

UL60947-4-1 , UL508

Rated insulation voltage U_i

Voltage (V)	AC / DC
300	AC

Rated thermal current

Current (A)	Ambient temperature (°C)	Additional Text
20	0 - 40	-

CCC GB/T14048.3

Rated operational current I_e

Utilization category	Voltage (V)	Current (A)
AC-21A	690	20

GENERAL TECHNICAL INFORMATION
Tightening torque of screws

<i>tightening torque (Nm)</i>	<i>tightening torque (lb-in)</i>
0,60	5

Rated short-time withstand current Icw

<i>Time (s)</i>	<i>Current (A)</i>
1	250

Size of conductor

<i>composition of conductor</i>	<i>Min. / Max. value</i>	<i>No. of conductor per terminal</i>	<i>Cross section (mm²) or (AWG/kcmil)</i>	<i>Material of the wire</i>
Solid wire	Min.	1	0.5mm ²	Copper
Solid wire	Min.	2	0.5mm ²	Copper
Flexible wire	Min.	1	0.75mm ²	Copper
Flexible wire	Min.	2	0.75mm ²	Copper
Flexible wire	Max.	2	AWG 12	Copper
Flexible wire	Max.	2	2.5mm ²	Copper
Single-core or stranded wire	Max.	2	AWG 12	Copper
Single-core or stranded wire	Max.	2	2.5mm ²	Copper
Flexible wire with ferrule according to DIN 46228	Min.	1	0.5mm ²	Copper
Flexible wire with ferrule according to DIN 46228	Max.	2	2.5mm ²	Copper
Flexible wire with ferrule according to DIN 46228	Min.	2	0.5mm ²	Copper

Approbations
Specification
Marking

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

<i>Power (W)</i>
0,50

Conditions during transport and storing

<i>Minimum temperature (°C)</i>	<i>Maximum temperature (°C)</i>	<i>additional requirements</i>
-40	85	In case of temperatures below -5°C no shock load permissible

General Information
Text

- Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed.
- Terminals with factory fitted jumper links are tightened during production for loss prevention. When opening the terminal clamps, make sure that no factory fitted links get lost and that all wire connections are properly seated.
- After wiring, ALL terminal screws must be tightened to the specified torque values.
- The protection class of the selected mounting type may vary if optional extras are used.
- 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.
- After installation of the switches the spacings between the terminals must be sufficient to fulfill the requirement of the applicable standards.
- Changeover switches without "0"-position may not be used for switching different supplies on-load.
- DC switching capacity applies only to switches with contact pieces without extensions and for 90° switching angle. Values for other configurations on request.

Operating temperature

<i>Min. Temperature [°C]</i>	<i>Max. Temperature [°C]</i>
-25	60