Kraus & Naimer

Datasheet

KG20B

Type Size: S1

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

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

Rated insulation voltage Ui

Voltage (V)	*AC / DC*
1000	DC with 3 or 4 contacts/pole in series

Rated impulse withstand voltage Uimp

Voltage (kV)	*Overvoltage category*	*Pollution degree*	*Supply system*	*Function*
8	III	3	--	Switch disconnector

Rated uninterrupted current Iu/Ith

Current (A)	*Ambient temperature (°C)*	*Peak temperature (°C)*	*additional requirements*
25	50	55	Ambient temperature +50°C during 24 hours with peaks up to +55°C

UL60947-4-1 , UL508

Size of conductor

composition of conductor	*Min. / Max. value*	*No. of conductor per terminal*	*Cross section (mm²) or (AWG/kcmil)*	*Material of the wire*
Single-core or stranded wire	Max.	1	AWG 10	Copper
Single-core or stranded wire	Min.	1	AWG 14	Copper

General Information

Text

- When intended for use as switch in photovoltaic applications, the devices shall be provided with a method of being locked in the OFF-position.

GENERAL TECHNICAL INFORMATION

Tightening torque of screws

tightening torque (Nm)	*tightening torque (lb-in)*
1,25	11

Rated short-time withstand current Icw

Time (s)	*Current (A)*
1	430

Size of conductor

composition of conductor	*Min. / Max. value*	*No. of conductor per terminal*	*Cross section (mm²) or (AWG/kcmil)*	*Material of the wire*
Flexible wire	Max.	1	AWG 10	Copper
Flexible wire	Max.	1	4mm²	Copper
Single-core or stranded wire	Max.	1	6mm²	Copper
Single-core or stranded wire	Max.	1	AWG 10	Copper
Flexible wire with sleeve	Max.	1	4mm²	Copper

Approbations

Specification	*Marking*
CE marking	CE
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	c UL us

Power loss per pole

Power (W)
0,70

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

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.

Operating temperature	
Min. Temperature [°C]	*Max. Temperature [°C]*
-5	55