



Sample image

## KH80

**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	AC

**Rated impulse withstand voltage Uimp**

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

**Rated uninterrupted current Iu/Ith**

Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additional requirements
80	50	55	Ambient temperature +50°C during 24 hours with peaks up to +55°C

**Conventional enclosed thermal current Ithe**

Current (A)	Ambient temperature (°C)	Peak temperature (°C)	Additional requirements	No. of stages (from - to)	Mounting	Mounting size
80	35	40	Ambient temperature +35°C during 24 hours with peaks up to +40°C	--	--	--

**Rated operational current Ie**

Utilization category	Voltage (V)	Current (A)
AC-20A	1000	80
AC-21A	20 - 690	80
AC-22A	20 - 690	80

**Rated operational power**

Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-3	220 - 240	3	3	15
AC-3	380 - 440	3	3	30
AC-3	500 - 500	3	3	37
AC-3	660 - 690	3	3	22
AC-3	110 - 120	1	2	4
AC-3	220 - 240	1	2	10
AC-3	380 - 440	1	2	15
AC-3	500 - 500	1	2	18,50
AC-3	660 - 690	1	2	18,50
AC-23A	220 - 240	3	3	23
AC-23A	380 - 440	3	3	40
AC-23A	500 - 500	3	3	55
AC-23A	660 - 690	3	3	37
AC-23A	110 - 120	1	2	4,50
AC-23A	220 - 240	1	2	11
AC-23A	380 - 440	1	2	18,50
AC-23A	500 - 500	1	2	22
AC-23A	660 - 690	1	2	22

**Max. Fuse rating IEC**

Fuse characteristic	No. of Fuses	Current (A)
gG	1	100

### UL60947-4-1, UL508

**Rated insulation voltage Ui**

Voltage (V)	AC / DC
600	AC

**Rated thermal current**

Current (A)	Ambient temperature (°C)	Additional Text
80	0 - 40	--

**General Information**

**Text**

- The operating handle and position indicating means to be used with these manual motor controllers should be provided from the manufacturer, or the operating handle and position indicating means to be used should have been previously evaluated in combination with the manual motor controllers.

**GENERAL TECHNICAL INFORMATION**

Tightening torque of screws	
<i>tightening torque (Nm)</i>	<i>tightening torque (lb-in)</i>
3	27


Rated short-time withstand current Icw	
<i>Time (s)</i>	<i>Current (A)</i>
1	1600

Size of conductor				
<i>composition of conductor</i>	<i>Min. / Max. value</i>	<i>No. of conductor per terminal</i>	<i>Cross section (mm<sup>2</sup>) or (AWG/kcmil)</i>	<i>Material of the wire</i>
Solid wire	Min.	1	2.5mm <sup>2</sup>	Copper
Flexible wire	Min.	1	4mm <sup>2</sup>	Copper
Flexible wire	Max.	1	AWG 4	Copper
Flexible wire	Max.	1	25mm <sup>2</sup>	Copper
Single-core or stranded wire	Max.	1	35mm <sup>2</sup>	Copper
Single-core or stranded wire	Max.	1	AWG 2	Copper
Flexible wire with sleeve	Max.	1	25mm <sup>2</sup>	Copper
Flexible wire with ferrule according to DIN 46228	Min.	1	2.5mm <sup>2</sup>	Copper

**Approbations**

<i>Specification</i>	<i>Marking</i>
CE marking	

UK Directives	
IEC 60947-3; EN 60947-3; VDE 0660 Teil107	<b>IEC 60947-3 EN 60947-3</b>

UL 60947-4-1; CSA C22.2 No. 60947-4-1	
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Power loss per pole	
<i>Power (W)</i>	
2,70	

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.

Operating temperature	
<i>Min. Temperature [°C]</i>	<i>Max. Temperature [°C]</i>
-5	55