



Sample image

## C80

Type Size: S2

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
690	AC / DC

**Rated impulse withstand voltage Uimp**

Voltage (kV)	Oversvoltage category	Pollution degree	Supply system	Function
6	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
115	55	60	Ambient temperature +55°C during 24 hours with peaks up to +60°C

**Conventional enclosed thermal current Ithe**

Current (A)	Ambient temperature (°C)	Peak temperature (°C)	Additional requirements	No. of stages (from - to)	Mounting	Mounting size
115	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-13	230	50
AC-20A	690	115
AC-21A	20 - 690	100
AC-22A	220 - 500	100
AC-22A	660 - 690	100

**Rated operational power**

Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-2	220 - 240	3	3	30
AC-2	380 - 440	3	3	45
AC-2	500 - 500	3	3	55
AC-2	660 - 690	3	3	55
AC-3	220 - 240	3	3	15
AC-3	380 - 440	3	3	30
AC-3	500 - 500	3	3	30
AC-3	660 - 690	3	3	30
AC-3	110 - 120	1	2	3,70
AC-3	220 - 240	1	2	7,50
AC-3	380 - 440	1	2	13
AC-4	220 - 240	3	3	6
AC-4	380 - 440	3	3	11
AC-4	500 - 500	3	3	11
AC-4	660 - 690	3	3	11
AC-4	110 - 120	1	2	1,50
AC-4	220 - 240	1	2	3
AC-4	380 - 440	1	2	5,50
AC-23A	220 - 240	3	3	30
AC-23A	380 - 440	3	3	45
AC-23A	500 - 500	3	3	55
AC-23A	660 - 690	3	3	45
AC-23A	110 - 120	1	2	5,50
AC-23A	220 - 240	1	2	15

Rated operational power				
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-23A	380 - 440	1	2	22
Max. Fuse rating IEC				
Fuse characteristic	No. of Fuses			Current (A)
gG	1			125

**UL60947-4-1, UL508**

Rated insulation voltage Ui			
Voltage (V)		AC / DC	
600		AC	
Rated thermal current			
Current (A)	Ambient temperature (°C)	Additional Text	
100	0 - 40	-	

**General Information**
**Text**

- Listed terminal lug's type RE717 manufactured by Thomas & Betts have to be used for field wiring with single screw terminals, or equivalent.

**CSA**

Rated insulation voltage Ui			
Voltage (V)		AC / DC	
600		AC	
Rated thermal current			
Current (A)	Ambient temperature (°C)	Additional Text	
100	0 - 40	-	

**GENERAL TECHNICAL INFORMATION**

Tightening torque of screws		
tightening torque (Nm)		tightening torque (lb-in)
4		35

Rated short-time withstand current Icw		
Time (s)	Current (A)	
1	1300	

Size of conductor				
composition of conductor	Min. / Max. value	No. of conductor per terminal	Cross section (mm <sup>2</sup> ) or (AWG/kcmil)	Material of the wire
Solid wire	Min.	1	2.5mm <sup>2</sup>	Copper
Solid wire	Min.	2	2.5mm <sup>2</sup>	Copper
Flexible wire	Min.	1	6mm <sup>2</sup>	Copper
Flexible wire	Max.	1	AWG 3	Copper
Flexible wire	Max.	1	25mm <sup>2</sup>	Copper
Flexible wire	Min.	2	6mm <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 ferrule according to DIN 46228	Min.	1	4mm <sup>2</sup>	Copper
Flexible wire with ferrule according to DIN 46228	Max.	1	25mm <sup>2</sup>	Copper
Flexible wire with ferrule according to DIN 46228	Min.	2	4mm <sup>2</sup>	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



CSA C.22.2 No.14



GB/T14048.3



Power loss per pole		
		<i>Power (W)</i>
		5,80
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
Shock / Vibration		
	<i>Type of oscillation</i>	<i>Values</i>
	Resistance to shock	min. 5g, 30ms
	Resistance to vibration	IEC 61373 (1999) Category 1, Class B
General Information		
<i>Text</i>		
<ul style="list-style-type: none"> <li>- Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed.</li> <li>- DC switching capacity applies to ON/OFF switches.</li> <li>- 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.</li> <li>- After wiring, ALL terminal screws must be tightened to the specified torque values.</li> <li>- The protection class of the selected mounting type may vary if optional extras are used.</li> <li>- Do not lubricate or treat contacts.</li> <li>- Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.</li> <li>- Use only fully insulated cable lugs resp. FASTON receptacles.</li> <li>- After installation of the switches the spacings between the terminals must be sufficient to fulfill the requirement of the applicable standards.</li> </ul>		
Operating temperature		
	<i>Min. Temperature [°C]</i>	<i>Max. Temperature [°C]</i>
	-25	60