



CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 80A, D=70MM

General technical data:		
<b>Mounting type</b>		Standard mounting rail and screw fixing
<b>mounting position</b>		any
<b>Installation depth</b>	mm	70
<b>Height</b>	mm	90
<b>Width</b>	mm	27
<b>Depth</b>	mm	76
<b>Current / with AC / Rated value</b>	A	80
<b>Tripping characteristic class</b>		C
<b>Type of voltage</b>		AC/DC
<b>Number of width units</b>		1.5
<b>Product property / sealable</b>		Yes
<b>Degree of pollution</b>		3
<b>Supply voltage</b>		
• with AC / Rated value	V	400
• with single-phase operation / with AC / Rated value	V	230
• with multi-phase operation / with AC / Rated value	V	400
<b>Number of poles</b>		1
<b>Number of poles / Note</b>		1P
<b>Switching capacity current</b>		

<ul style="list-style-type: none"> <li>• acc. to IEC 60947-2 / Rated value</li> </ul>	kA	10
<ul style="list-style-type: none"> <li>• for DC / acc. to IEC 60947-2 / Rated value</li> </ul>	kA	15
<ul style="list-style-type: none"> <li>• acc. to EN 60898 / Rated value</li> </ul>	kA	10
<b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>		
<ul style="list-style-type: none"> <li>• for DC / acc. to EN 60898-2</li> </ul>	kA	10
<ul style="list-style-type: none"> <li>• with AC / acc. to UL 1077 and CSA C22.2 No.235</li> </ul>	kA	5
<b>Ambient temperature</b>	°C	-25 ... +55
<b>Influence of the surrounding temperature</b>		max. 95% humidity
<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	°C	-40 ... +75
<b>Position / of power supply cord</b>		Any
<b>Product property / Properties for main switches in accordance with EN 60204-1</b>		Yes
<b>Mechanical service life (switching cycles) / typical</b>		20,000
<b>Vibration resistance / acc. to IEC 60068-2-6</b>		50m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
<b>Overvoltage category</b>		3
<b>Product feature / Touch protection</b>		Yes
<b>Shock resistance / acc. to IEC 60068-2-27</b>		150m/s <sup>2</sup> at 11ms half-sine
<b>Insulation voltage</b>		
<ul style="list-style-type: none"> <li>• with AC / Rated value</li> </ul>	V	440
<b>AWG number</b>		
<ul style="list-style-type: none"> <li>• as coded connectable conductor cross section</li> </ul>		14 ... 2
<b>Connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>• solid</li> </ul>	mm <sup>2</sup>	4 ... 50
<ul style="list-style-type: none"> <li>• stranded</li> </ul>	mm <sup>2</sup>	4 ... 50
<ul style="list-style-type: none"> <li>• finely stranded</li> </ul>		
<ul style="list-style-type: none"> <li>• with core end processing</li> </ul>	mm <sup>2</sup>	1.5 ... 35
<b>Product component</b>		
<ul style="list-style-type: none"> <li>• Tunnel terminals top</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• Tunnel terminals bottom</li> </ul>		Yes
<b>Tightening torque</b>		
<ul style="list-style-type: none"> <li>• with screw-type terminals</li> </ul>	N·m	2.5 ... 3.5
<b>Tightening torque (lbf·in)</b>		
<ul style="list-style-type: none"> <li>• with screw-type terminals</li> </ul>	lbf·in	22 ... 31
<b>Product property</b>		
<ul style="list-style-type: none"> <li>• silicon-free</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• halogen-free</li> </ul>		Yes
<b>Number of test cycles / for environmental testing / acc. to IEC 60068-2-30</b>		6
<b>Reference code</b>		

**Certificates/approvals:**

**General Product Approval**

**Declaration of Conformity**



**Test Certificates**

**Shipping Approval**

**other**

[Special Test Certificate](#)



[other](#)

**Further information:**

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SP4180-7>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/5SP4180-7/all>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

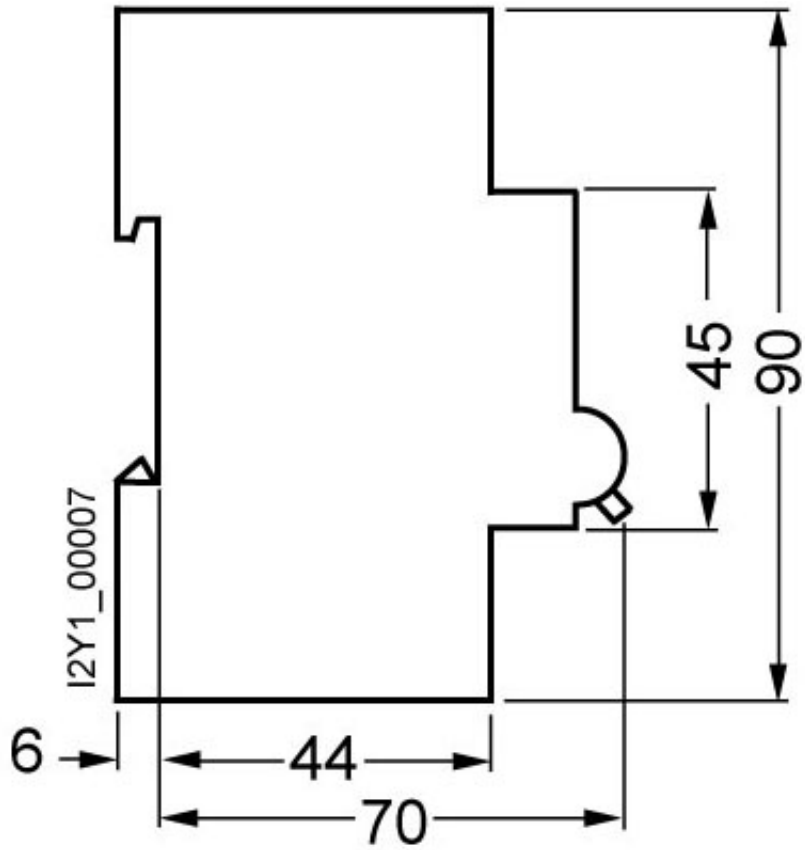
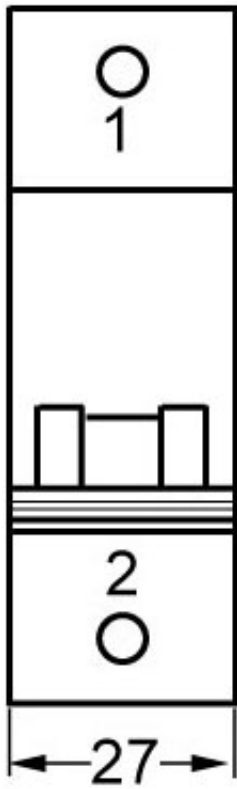
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP4180-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4180-7)

**CAX-Online-Generator**

<http://www.siemens.com/cax>

**Tender specifications**

[Datanorm GAEB81](#) [GAEB83](#) [RTF](#) [TXT](#)



last change:

Sep 29, 2014