

Siemens  
EcoTech



EMERGENCY-OFF mushroom pushbutton, 22 mm, round, plastic, red, 40 mm, with Siemens lock, C, special lock, positive latching, according to DIN EN ISO 13850, key-operated release

product brand name	SIRIUS ACT
product designation	EMERGENCY STOP mushroom pushbuttons
design of the product	Actuating/signaling element
product type designation	3SU1
product line	Plastic, black, 22 mm
<b>Enclosure</b>	
number of command points	1
<b>Actuator</b>	
design of the actuating element	positive latching
principle of operation of the actuating element	latching
product extension optional	
• light source	No
• contact module	Yes
color	
• of the actuating element	red
material of the actuating element	plastic
shape of the actuating element	round
outer diameter of the actuating element	40 mm
type of unlocking device	Unlocking
number of switching positions	2
switch position for key distraction	O
lock make	Siemens, C
<b>Front ring</b>	
product component front ring	No
<b>General technical data</b>	
product function	
• positive opening	Yes
• EMERGENCY OFF function	Yes
• EMERGENCY STOP function	Yes
protection class IP	IP66, IP67, IP69(IP69K)
degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
shock resistance	
• according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
• for railway applications according to EN 61373	Category 1, Class B
vibration resistance	
• according to IEC 60068-2-6	10 ... 500 Hz: 5g
• for railway applications according to EN 61373	Category 1, Class B
operating frequency maximum	600 1/h
mechanical service life (operating cycles) typical	300 000
reference code according to IEC 81346-2	S
Substance Prohibition (Date)	10/01/2014
Net Weight	0.098 kg
<b>Safety related data</b>	
product function suitable for safety function	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	

<ul style="list-style-type: none"> <li>with low demand rate according to SN 31920</li> </ul>	20 %
<ul style="list-style-type: none"> <li>with high demand rate per NC contact according to SN 31920</li> </ul>	20 %
<ul style="list-style-type: none"> <li>with high demand rate per NO contact according to SN 31920</li> </ul>	50 %
<b>B10 value with high demand rate according to SN 31920</b>	100 000
<b>failure rate [FIT] with low demand rate per NC contact according to SN 31920</b>	100 FIT
<b>ISO 13849</b>	
<b>device type according to ISO 13849-1</b>	3
<b>IEC 61508</b>	
<b>safety device type according to IEC 61508-2</b>	Type A
T1 value for proof test interval or service life according to IEC 61508	20 a

<b>Ambient conditions</b>	
<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-25 ... +70 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%)

<b>Environmental footprint</b>	
Environmental Product Declaration (EPD)	Yes
global warming potential [CO2 eq] total	0.787 kg
global warming potential [CO2 eq] during manufacturing	0.566 kg
global warming potential [CO2 eq] during operation	0.235 kg
global warming potential [CO2 eq] after end of life	-0.015 kg
Siemens Eco Profile (SEP)	Siemens EcoTech

<b>Installation/ mounting/ dimensions</b>	
<b>shape of the installation opening</b>	round
<b>mounting diameter</b>	22.3 mm
<b>positive tolerance of installation diameter</b>	0.4 mm
<b>mounting height</b>	84.5 mm
<b>installation width</b>	40 mm
<b>installation depth</b>	26.3 mm

<b>Approvals Certificates</b>	
<b>General Product Approval</b>	<b>Test Certificates</b>



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

<b>Maritime application</b>	<b>other</b>
-----------------------------	--------------



[Confirmation](#)



<b>Environment</b>
--------------------



Siemens EcoTech



[Environmental Confirmations](#)

<b>Further information</b>
----------------------------

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1000-1HR20-0AA0-Z Y01>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-1HR20-0AA0-Z Y01>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-1HR20-0AA0-Z Y01>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1000-1HR20-0AA0-Z Y01&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1000-1HR20-0AA0-Z Y01&lang=en)

---

last modified:

9/30/2025 