## **SIEMENS**

## **Data sheet**



RONIS key-operated switch, 22 mm, round, plastic, lock number 455, with 2 keys, 2 switch positions O-I, latching, actuating angle  $90^\circ$ , 10:30h/13:30h, key removal O+I, with laser labeling, upper case

product designation design of the product period design of the product period designation product type designation product line manufacturer's article number of included key assurate principle of operation of the actuating element product extension optional light source color of the actuating element material of the actuating element shape of the actuating element shape of the actuating element marking of the actuating element marking of the actuating element marking of the actuating element Any inscription, text in upper case number of switching positions 2 switch position for key distraction actuating angle clockwise lock make RONIS  key number  Front ring  product component front ring design of the front ring design of the front ring for the front ring glastic color of the front ring degree of protection NEMA rating shock resistance according to IEC 60068-2-7 of re railway applications according to EN 61373 Category 1, Class B operating frequency maximum mechanical service life (switching cycles) typical reference code according to IEC 61346-2 S	product brand name	SIRIUS ACT
product type designation product line Plastic, black, 22 mm manufacturer's article number of included key  Actuator  principle of operation of the actuating element product extension optional light source color of the actuating element material of the actuating element shape of the actuating element marking of the actuating element marking of the actuating element marking of the actuating plement marking of the actuating plement marking of the actuating positions which position for key distraction actuating angle clockwise lock make key number  Approact component front ring design of the front ring glastic color of the front ring product component front ring design of the front ring plastic color of the front ring plastic color of the front ring degree of protection NEMA rating shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 Vibration resistance according for IEC 60068-2-27 for railway applications according to EN 61373 Category 1. Class B coperalite (switching cycles) typical prochanced service life (switching cycles) typical	product designation	Key-operated switches
product line manufacturer's article number of included key 3SU1950-0FC80-0AA0  Actuator principle of operation of the actuating element product extension optional light source oolor of the actuating element silver material of the actuating element shape of the actuating element shape of the actuating element shape of the actuating element Any inscription, text in upper case unurber of switching positions switch position for key distraction actuating angle clockwise olock make RONIS key number 455  Front ing product component front ring design of the front ring material of the front ring design of the front ring plastic black  protection class IP of the Leminal degree of protection NEMA rating shock resistance according to IEC 60068-2-27 of or railway applications according to EN 61373 Category 1, Class B over class IP operating frequency maximum over class IP according to IEC 60068-2-6 of or railway applications according to EN 61373 Category 1, Class B over characteristics III clock one category 1, Class B category 1, Class B over category 1, Class B over category 1, Class B over category 2, Class B over category 1, Class B over category 1, Class B over category 2, Class B over category 3, Class B over category 4, Class B over category 2, Class B over category 1, Class B over category 2, Class B over category 3, Class B over category 4, Class B over category 2, Class B over category 3, Class B over category 4, Class B over category 4, Class B	design of the product	Actuating/signaling element
manufacturer's article number of included key Actuator  principle of operation of the actuating element product extension optional light source color of the actuating element silver material of the actuating element shape of the actuating element Any inscription, text in upper case number of switching positions 2 switch position for key distraction actuating angle clock make RONIS key number  Jest Salver  Best Salve	product type designation	3SU1
Actuator  principle of operation of the actuating element product extension optional light source of the actuating element material of the actuating element shape of the actuating element shape of the actuating element shape of the actuating element wouter diameter of the actuating element marking of the actuating element marking of the actuating element Any inscription, text in upper case number of switching positions 2 switch position for key distraction other actuating angle clockwise go lock make RONIS Rey number 455  Front ring product component front ring design of the front ring design of the front ring color of the front ring standard material of the front ring design of the front ring for the terminal protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-7 of or railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical	product line	Plastic, black, 22 mm
principle of operation of the actuating element product extension optional light source  color  of the actuating element silver  material of the actuating element shape of the actuating element marking of the actuating element marking of the actuating element Any inscription, text in upper case number of switching positions switch position for key distraction actuating angle clockwise lock make RONIS key number front ring product component front ring design of the front ring material of the front ring standard material of the front ring protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-27 of rarialway applications according to EN 61373 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical	manufacturer's article number of included key	3SU1950-0FC80-0AA0
product extension optional light source color	Actuator	
color	principle of operation of the actuating element	latching, 90° (10:30 h/13:30 h)
• of the actuating element material of the actuating element shape of the actuating element couter diameter of the actuating element marking of the actuating element Any inscription, text in upper case number of switching positions 2 switch position for key distraction actuating angle • clockwise 90° lock make RONIS key number  Front ring product component front ring design of the front ring material of the front ring material of the front ring protection class IP • of the terminal degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373  operating frequency maximum  mechanical service life (switching cycles) typical  syntam in the state of the service in the sum of the service in the sum of the service in the service i	product extension optional light source	No
material of the actuating element shape of the actuating element worder diameter of the actuating element marking of the actuating pelment marking of the actuating pelment number of switching positions 2 switch position for key distraction actuating angle oclockwise 90° lock make RONIS key number 455  Front ring product component front ring design of the front ring material of the front ring material of the front ring protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-27 of or railway applications according to EN 61373 operating frequency maximum  nechanical service life (switching cycles) typical  mechanical service life (switching cycles) typical	color	
shape of the actuating element outer diameter of the actuating element marking of the actuating element number of switching positions 2 switch position for key distraction actuating angle oclockwise 90° lock make RONIS key number 455  Front ring product component front ring design of the front ring material of the front ring color of the front ring protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-6 for railway applications according to EN 61373 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical	<ul> <li>of the actuating element</li> </ul>	silver
outer diameter of the actuating element marking of the actuating element number of switching positions 2 switch position for key distraction otch actuating angle clockwise goo lock make RONIS key number Ass  Front ring  product component front ring design of the front ring material of the front ring color of the front ring black  General technical data  protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-6 for railway applications according to EN 61373  operating frequency maximum  nechanical service life (switching cycles) typical  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription  Any inscription,	material of the actuating element	metal
marking of the actuating element number of switching positions 2 switch position for key distraction actuating angle • clockwise 90° lock make RONIS key number 455  Front ring product component front ring design of the front ring material of the front ring color of the front ring protection class IP of the terminal protection class IP of the terminal lP20 degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373  operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	shape of the actuating element	Key
number of switching positions  switch position for key distraction  actuating angle  • clockwise  lock make  RONIS  key number  ### A55    Front ring  product component front ring  design of the front ring  material of the front ring  color of the front ring  protection class IP  • of the terminal  degree of protection NEMA rating  shock resistance  • according to IEC 60068-2-27  • for railway applications according to EN 61373  operating frequency maximum  poel on the service life (switching cycles) typical    O+I  RONIS  RONIS    Standard    Pes   Standard   plastic   plack   Peroperation   plastic   plast	outer diameter of the actuating element	29.5 mm
switch position for key distraction  actuating angle  • clockwise  90°  lock make  RONIS  key number  455  Front ring  product component front ring	marking of the actuating element	Any inscription, text in upper case
actuating angle	number of switching positions	2
e clockwise 90° lock make RONIS key number 455  Front ring product component front ring Yes design of the front ring Standard material of the front ring plastic color of the front ring black  General technical data  protection class IP IP66, IP67, IP69(IP69K) e of the terminal IP20 degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13  shock resistance e according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms e for railway applications according to EN 61373 Category 1, Class B  vibration resistance e according to IEC 60068-2-6 10 500 Hz: 5g for railway applications according to EN 61373 Category 1, Class B  operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	switch position for key distraction	O+I
lock make RONIS key number 455  Front ring  product component front ring Yes design of the front ring Standard material of the front ring plastic color of the front ring black  General technical data  protection class IP IP66, IP67, IP69(IP69K) of the terminal IP20  degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13  shock resistance o according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of or railway applications according to EN 61373 Category 1, Class B  vibration resistance o according to IEC 60068-2-6 10 500 Hz: 5g of railway applications according to EN 61373 Category 1, Class B  operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	actuating angle	
key number  Front ring  product component front ring  design of the front ring  material of the front ring  color of the front ring  plastic  black  General technical data  protection class IP  of the terminal  degree of protection NEMA rating  shock resistance  according to IEC 60068-2-27  for railway applications according to EN 61373  vibration resistance  according to IEC 60068-2-6  for railway applications according to EN 61373  category 1, Class B  vibration resistance  according to IEC 60068-2-6  for railway applications according to EN 61373  category 1, Class B  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical  1 000 000	<ul><li>clockwise</li></ul>	90°
product component front ring  design of the front ring  material of the front ring  color of the front ring  plastic  color of the front ring  Black  General technical data  protection class IP  of the terminal  degree of protection NEMA rating  shock resistance  according to IEC 60068-2-27  of railway applications according to EN 61373  vibration resistance  according to IEC 60068-2-6  of railway applications according to EN 61373  category 1, Class B  vibration resistance  for railway applications according to EN 61373  category 1, Class B  operating frequency maximum  for solution resistance  according to IEC 60068-2-6  of or railway applications according to EN 61373  category 1, Class B  operating frequency maximum  for solution resistance  according to IEC 60068-2-6  of or railway applications according to EN 61373  category 1, Class B  operating frequency maximum  for solution resistance  according to IEC 60068-2-6  of or railway applications according to EN 61373  operating frequency maximum  for solution resistance  according to IEC 60068-2-6  according to IEC 60068-2-6  of or railway applications according to EN 61373  operating frequency maximum  for solution resistance  according to IEC 60068-2-6  according to IEC 60068-2-6  of or railway applications according to EN 61373  operating frequency maximum  for solution resistance  according to IEC 60068-2-6  according to	lock make	RONIS
product component front ring design of the front ring material of the front ring plastic color of the front ring black  General technical data  protection class IP of the terminal egree of protection NEMA rating shock resistance of according to IEC 60068-2-27 of railway applications according to EN 61373  vibration resistance of according to IEC 60068-2-6 of railway applications according to EN 61373  category 1, Class B  vibration resistance of railway applications according to EN 61373 category 1, Class B  operating frequency maximum 1800 1/h mechanical service life (switching cycles) typical  1 000 000	key number	455
design of the front ring material of the front ring plastic color of the front ring black  General technical data  protection class IP of the terminal equation of the terminal lP20  degree of protection NEMA rating shock resistance of according to IEC 60068-2-27 of railway applications according to EN 61373 vibration resistance of according to IEC 60068-2-6 of railway applications according to EN 61373 category 1, Class B  vibration resistance of according to IEC 60068-2-6 of railway applications according to EN 61373 category 1, Class B  vibration resistance of according to IEC 60068-2-6 of railway applications according to EN 61373 category 1, Class B  operating frequency maximum 1800 1/h mechanical service life (switching cycles) typical	Front ring	
material of the front ring plastic  color of the front ring black  General technical data  protection class IP	product component front ring	Yes
color of the front ring  General technical data  protection class IP  of the terminal  degree of protection NEMA rating  shock resistance  according to IEC 60068-2-27  for railway applications according to EN 61373  vibration resistance  according to IEC 60068-2-6  for railway applications according to EN 61373  category 1, Class B  vibration resistance  for railway applications according to EN 61373  category 1, Class B  category 1, Class B  vibration resistance  according to IEC 60068-2-6  for railway applications according to EN 61373  category 1, Class B  category 1, Class B  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical	design of the front ring	Standard
protection class IP	material of the front ring	plastic
protection class IP of the terminal lP20 degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13  shock resistance of according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of or railway applications according to EN 61373  vibration resistance of according to IEC 60068-2-6 of or railway applications according to EN 61373  category 1, Class B  vibration resistance of according to IEC 60068-2-6 of or railway applications according to EN 61373  category 1, Class B  operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	color of the front ring	black
● of the terminal  degree of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13  shock resistance  ● according to IEC 60068-2-27  ● for railway applications according to EN 61373  vibration resistance  ● according to IEC 60068-2-6  ● for railway applications according to EN 61373  Category 1, Class B  vibration resistance  ● according to IEC 60068-2-6  ● for railway applications according to EN 61373  Category 1, Class B  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical  1 000 000	General technical data	
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 1 800 1/h  mechanical service life (switching cycles) typical 1 000 000	protection class IP	IP66, IP67, IP69(IP69K)
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 1 800 1/h  mechanical service life (switching cycles) typical 1 000 000	of the terminal	IP20
<ul> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>operating frequency maximum</li> <li>1 800 1/h</li> <li>mechanical service life (switching cycles) typical</li> <li>1 000 000</li> </ul>	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
for railway applications according to EN 61373      category 1, Class B      vibration resistance	shock resistance	
vibration resistance	<ul><li>according to IEC 60068-2-27</li></ul>	sinusoidal half-wave 15g / 11 ms
<ul> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>operating frequency maximum</li> <li>mechanical service life (switching cycles) typical</li> <li>1 000 000</li> </ul>	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
<ul> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>operating frequency maximum</li> <li>1 800 1/h</li> <li>mechanical service life (switching cycles) typical</li> <li>1 000 000</li> </ul>	vibration resistance	
operating frequency maximum     1 800 1/h       mechanical service life (switching cycles) typical     1 000 000	<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g
mechanical service life (switching cycles) typical 1 000 000	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
	operating frequency maximum	1 800 1/h
reference code according to IEC 81346-2	mechanical service life (switching cycles) typical	1 000 000
	reference code according to IEC 81346-2	S

Substance Prohibitance (Date)	10/01/2014
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +70 °C
during storage	-40 +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%)
Installation/ mounting/ dimensions	
height	29.5 mm
width	29.5 mm
shape of the installation opening	round
mounting diameter	22.3 mm
positive tolerance of installation diameter	0.4 mm
mounting height	49.4 mm
installation width	29.5 mm
installation depth	25.4 mm
Certificates/ approvals	
Further information	

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1000-4CF11-0AA0-Z Y11">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1000-4CF11-0AA0-Z Y11</a>

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-4CF11-0AA0-Z Y11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-4CF11-0AA0-Z Y11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1000-4CF11-0AA0-Z Y11&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1000-4CF11-0AA0-Z Y11&lang=en</a>

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