## **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, with laser labeling, upper case

product designation design of the product ye designation product type designation product line 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 metal 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 which 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 color of the front ring plastic color of the front ring degree of protection NEMA rating shock resistance according to IEC 60068-2-87 for railway applications according to EN 61373 category 1, Class B operating frequency maximum prechanical service life (switching cycles) typical references code according to IEC 81346-2 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 plasment Any inscription, text in upper case number of switching positions switch position for key distraction actuating angle clock make key number    Color of the front ring   Standard   Marking of the front ring   Diastic   Color of the front ring   Standard   Marking of the front ring   Diastic   Color of the front ring   Of the terminal   P20   Of the terminal   Of the front resistance   According to IEC 60068-2-27   Of the railway applications according to EN 61373   Vibration resistance   According to IEC 60068-2-27   Of the railway applications according to EN 61373   Ocalegory 1, Class B	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 color	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	product type designation	3SU1	
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 shape of the actuating element wouter 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 octuating angle • clockwise lock make RONIS key number  Product component front ring fedsign of the front ring glastic color of the front ring color of the front ring design of the front ring for the front ring for the terminal degree of protection NEMA rating shock resistance • according to IEC 60068-2-7 • for 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	manufacturer's article number of included key	3SU1950-0FC80-0AA0	
product extension optional light source  color  • of the actuating element  material of the actuating element  shape of the actuating element  Mey  outer diameter of the actuating element  marking of the actuating positions  2 switching positions  2 switch position for key distraction  O actuating angle  • clockwise  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  plastic  color of the front ring  degree of protection NEMA rating  shock resistance  • according to IEC 60068-2-7  • for rallway applications according to EN 61373  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical	Actuator		
color  • of the actuating element material of the actuating element shape of the actuating element well shape of the actuating element wouter diameter of the actuating element marking of the actuating element number of switching positions 2 switch position for key distraction ocatuating angle clockwise lock make RONIS key number Front ring product component front ring design of the front ring material of the front ring plastic 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  1 29.5 mm metal silver sin unper case metal silver sin unper case metal silver silve	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 marking of the actuating element number of switching positions 2 switch position for key distraction actuating angle elockwise 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 color of the front ring element element element protection class IP of the terminal elegee of protection NEMA rating shock resistance according to IEC 60068-2-27 elock of railway applications according to EN 61373 operating frequency maximum 1800 100 000  sylver  metal sky you 29.5 mm Any inscription, text in upper case noy in scription, text in upper case 19.6 y 19.0 mm lock in upper case 19.1 mm lock in upper case 19.5 mm lock in upper case 19.0 mm lock in u	product extension optional light source	No	
material of the actuating element shape of the actuating element shape of the actuating element well actuating element pure diameter of the actuating element number of switching positions 2 switch position for key distraction octuating angle octockwise lock make RONIS key number 455  Front ring product component front ring design of the front ring material 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 1 800 1/h mechanical service life (switching cycles) typical  Any inscription, text in upper case 29.5 mm memanization, text in upper case 29.5 mm methal day in upper case 29.5 mm m	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 octuating angle ● clockwise  ● clockwise  Iok make  RONIS  key number  ##55  Front ring  product component front ring design of the front ring material of the front ring color of the front ring material of the front ring protection class IP ● of the terminal  ##56  ##66, IP67, IP69(IP69K)  ##60, I	<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 O actuating angle • clockwise 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 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  1 800 1/h mechanical service life (switching cycles) typical	material of the actuating element	metal	
marking of the actuating element number of switching positions 2 switch position for key distraction actuating angle • clockwise 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 60068-2-27 • for railway applications according to EN 61373 operating frequency maximum mechanical service life (switching cycles) typical  Any inscription, text in upper case  Any inscription, text in upper case  2 Any inscription, text in upper case  9 Charles in upper case  90°  Color of the general protection string Yes design of the front ring Standard plastic	shape of the actuating element	Key	
number of switching positions  switch position for key distraction  actuating angle  • clockwise  lock make  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 60068-2-27  • for railway applications according to EN 61373  operating frequency maximum  mechanical service life (switching cycles) typical  0  0  RONIS  RONIS  Yes  455  Front ring  Pyes  Standard  plastic  plastic  plastic  plastic  plastic  plastic  plastic  plack  General technical data  protection class IP  • of the terminal  IP20  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  Category 1, Class B  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical	outer diameter of the actuating element	29.5 mm	
switch position for key distraction  actuating angle  • clockwise  lock make  key number  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  mechanical service life (switching cycles) typical  po o  po	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	0	
lock make key number 455  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 lP20 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 of railway applications according to EN 61373 category 1, Class B  operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical  residuacy applications according to IPC 600000 1 000000000000000000000000000000	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  of or railway applications according to EN 61373  vibration resistance  according to IEC 60068-2-6  of or railway applications according to EN 61373  category 1, Class B  vibration resistance  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	• clockwise	90°	
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 60068-2-27  of or railway applications according to EN 61373  vibration resistance  according to IEC 60068-2-6  of or railway applications according to EN 61373  category 1, Class B  vibration resistance  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	lock make	RONIS	
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 of the front ring	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 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 60068-2-27  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  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	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  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical  1 000 000	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 Category 1, Class B vibration resistance of 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 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 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	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 sinusoidal half-wave 15g / 11 ms</li> <li>for railway applications according to EN 61373 Category 1, Class B</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6 10 500 Hz: 5g</li> <li>for railway applications according to EN 61373 Category 1, Class B</li> <li>operating frequency maximum 1 800 1/h</li> <li>mechanical service life (switching cycles) typical 1 000 000</li> </ul>	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13	
<ul> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>vibration resistance         <ul> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> </ul> </li> <li>operating frequency maximum         <ul> <li>1 800 1/h</li> <li>mechanical service life (switching cycles) typical</li> <li>1 000 000</li> </ul> </li> </ul>	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=3SU1000-4CF01-0AA0-Z Y11">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1000-4CF01-0AA0-Z Y11</a>

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-4CF01-0AA0-Z Y11

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-4CF01-0AA0-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=3SU1000-4CF01-0AA0-Z Y11&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1000-4CF01-0AA0-Z Y11&lang=en</a>

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