## **SIEMENS**

## **Data sheet**



RONIS key-operated switch, 22 mm, round, plastic, lock number 455, with 2 keys, 3 switch positions I-O-II, latching, actuating angle  $2x45^{\circ}$ , 10:30h/12h/13:30h, Key removal I+O+II, with laser labeling, lower case

product designation design of the product product type designation product extension option of the actuating element product extension optional light source color  • of the actuating element shape of the actuating element shape of the actuating element shape of the actuating element product element of the actuating element shape of the actuating element Any inscription, text in lower case number of switching positions switch position for key distraction actuating angle clock make anticlockwise anticlockwise shape of the front ring design of the front ring product component front ring design of the front ring plastic color of the front ring degree of protection NEMA rating shock resistance a according to IEC 60068-2-87 for railway applications according to EN 61373 peparting frequency maximum  rechanical service If (seikhing cycles) typical	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 of the actuating element material of the actuating element shape of the actuating element material of the actuating element material of the actuating element marking of the actuating element mumber of switching positions switch position for key distraction actuating angle clockwise disckwise disckwise disckwise disclockwise disclockwise disclockwise disclockwise disclockwise disclockwise disclock make key number front ring product component front ring design of the front ring plastic color of the front ring design of the front ring design of the front ring design of the front ring plastic color of the front ring degree of protection NEMA rating flow according to IEC 60068-2-7 for railway applications according to EN 61373 vibration resistance eccording to IEC 60068-2-6 for railway applications according to EN 61373 operating frequency maximum  assuring SSUADA  SSUADA  Bastic, black, 22 mm  attaching, 2x45° (10:30 h/12 h/13:30 h) black  1atching, 2x45° (10:30 h/13:30 h/13:30 h/13:30 h	product designation	Key-operated switches
product line manufacturer's article number of included key Actuator  principle of operation of the actuating element product extension optional light source 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 marking of the actuating element Any inscription, text in lower case number of switching positions switch position for key distraction actuating angle olockwise anticlockwise anticlockwise anticlockwise anticlockwise front ring product component front ring design of the front ring material of the front ring color of the front ring design of the front ring design of the front ring degree of protection NEMA rating shock resistance according to IEC 60068-2-6 or ratiway applications according to EN 61373 operating frequency maximum  1 800 1/h  latching, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  Asturation, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  Atching, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  Atching, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/12 h/13:30 h) sulfabso-0FC80-0AA0  No  1 4cthing, 2x45° (10:30 h/	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 material 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 lower case number of switching positions switch position for key distraction actuating angle electockwise anticlockwise shape of the actuating element Any inscription, text in lower case number of switching positions switch position for key distraction O+I+II actuating angle electockwise A5° anticlockwise A5° anticlockwise A5° anticlockwise A5° front ring product component front ring design of the front ring design of the front ring color of the front ring color of the front ring black  General technical data protection class IP of the terminal liP20 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 rarilway applications according to EN 61373 category 1, Class B operating frequency maximum  1 800 1/h	product type designation	3SU1
Actuator  principle of operation of the actuating element product extension optional light source color  of the actuating element silver material of the actuating element metal shape of the actuating element selement metal shape of the actuating element Metal shape of the actuating element Marking of the actuating element Any inscription, text in lower case number of switching positions 3 switch position for key distraction O+H+II actuating angle clockwise 45°  outer diameter of the actuating element Any inscription, text in lower case number of switching positions 3 switch position for key distraction O+H+II actuating angle clockwise 45°  lock make RONIS RO	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 lower case number of switching positions switch position for key distraction actuating angle clockwise silver marking of the actuating element Any inscription, text in lower case number of switching positions switch position for key distraction actuating angle clockwise 45° anticlockwise 45° anticlockwise 45° front ring product component front ring design of the front ring for the front ring material of the front ring black  General technical data protection class IP of the terminal lP20 degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance according to IEC 60088-2-6 of or railway applications according to EN 61373 Category 1, Class B  operating frequency maximum 1800 1/h  latching, 2x45° (10:30 h/12 h/13:30 h) No  Category 1, Class B  operating frequency maximum 1800 1/h	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 shape of the actuating element shape of the actuating element Mey outer diameter of the actuating element Any inscription, text in lower case number of switching positions 3 switch position for key distraction actuating angle olockwise olockwise anticlockwise Afs° 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 60068-2-6 of ror railway applications according to EN 61373 operating frequency maximum  silver metal silver metal splay s	Actuator	
color  • of the actuating element material of the actuating element shape of the actuating element shape of the actuating element warking of the actuating element arking of the actuating element arking of the actuating element Any inscription, text in lower case number of switching positions 3 switch position for key distraction actuating angle • clockwise • anticlockwise • anticlockwise • A5° lock make RONIS key number  Front ring product component front ring 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  silver  metal silver  metal silver  metal selve sey  dey  dey  dey  dey  dey  dey  actuating element key  Any inscription, text in lower case  metal selve sey  dey  dey  dey  dey  dey  dey  dey	principle of operation of the actuating element	latching, 2x45° (10:30 h/12 h/13:30 h)
of the actuating element     material of the actuating element     shape of the actuating element     voter diameter of the actuating element     arriving of the actuating element     Any inscription, text in lower case     number of switching positions     switch position for key distraction     actuating angle     clockwise     actuating angle     clockwise     anticlockwise     Afso     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     design of the terminal     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     selvent in the selvent inumber of selvent in the selvent in the selvent in the selvent in	product extension optional light source	No
material of the actuating element shape of the actuating element very outer diameter of the actuating element marking of the actuating element number of switching positions switch position for key distraction actuating angle oclockwise anticlockwise anticlockwise anticlockwise Afs lock make RONIS key number Afs  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 of railway applications according to EN 61373 operating frequency maximum  emetal  key sep Afs Avy inscription, text in lower case  Any inscription, text in lower case  Any inscription, text in lower case  Afs  Salandar  Apsience  Afs  Ves  45°  45°  45°  Afs  NONIS  Assandard  Bronis  Assandard  Broadard  Broa	color	
shape of the actuating element  outer diameter of the actuating element  marking of the actuating element  number of switching positions  switch position for key distraction  actuating angle  • clockwise  • anticlockwise  • anticlockwise  • anticlockwise  front ring  product component front ring  design of the front ring  color 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  Key  Any inscription, text in lower case  Aproaccion and caterion.  Aproaccion and caterion and	<ul> <li>of the actuating element</li> </ul>	silver
outer diameter of the actuating element     29.5 mm       marking of the actuating element     Any inscription, text in lower case       number of switching positions     3       switch position for key distraction     O+I+II       actuating angle     45°       e clockwise     45°       e anticlockwise     45°       lock make     RONIS       key number     455       Front ring       product component front ring     Standard       design 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     sinusoidal half-wave 15g / 11 ms       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       e for railway applications according to EN 61373     Category 1, Class B       operating frequency maximum     1 800 1/h	material of the actuating element	metal
marking of the actuating element number of switching positions switch position for key distraction actuating angle clockwise anticlockwise anticlockwise 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  A59  Any inscription, text in lower case  April 10	shape of the actuating element	Key
number of switching positions  switch position for key distraction  actuating angle  • clockwise  • anticlockwise  • anticlockwise  lock make  key number  front ring  product component 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  operating frequency maximum  o 45°  A5°  A5°  A5°  A5°  A5°  A5°  A5°	outer diameter of the actuating element	29.5 mm
switch position for key distraction  actuating angle  • clockwise  • anticlockwise  45°  lock make  RONIS  key number  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  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  operating frequency maximum  0+I+II  45°  45°  45°  45°  45°  45°  45°  4	marking of the actuating element	Any inscription, text in lower case
actuating angle  • clockwise • anticlockwise  • anticlockwise  lock make  RONIS  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 60068-2-7 • of or railway applications according to EN 61373  operating frequency maximum  1 800 1/h  45°  45°  45°  45°  45°  45°  45°  45	number of switching positions	3
octor clockwise     octor make     clock make	switch position for key distraction	O+I+II
o anticlockwise  lock make RONIS  key number  455  Front ring  product component front ring Question of the front ring material of the front ring plastic color of the front ring protection class IP of the terminal lP20  degree of protection NEMA rating shock resistance o according to IEC 60068-2-27 of railway applications according to EN 61373  operating frequency maximum  45° RONIS PRONIS PRONIS RONIS PRONIS PRONIC PRO	actuating angle	
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 plastic 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 sinusoidal half-wave 15g / 11 ms 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  operating frequency maximum 1800 1/h	• clockwise	45°
key number  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  black  General technical data  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  vibration resistance  according to IEC 60068-2-6  of railway applications according to EN 61373  category 1, Class B  operating frequency maximum  455  Yes  Ves  HP66, IP67, IP69(IP69K)  IP20  1, 2, 3, 3R, 4, 4X, 12, 13  sinusoidal half-wave 15g / 11 ms  Category 1, Class B  Category 1, Class B	anticlockwise	45°
product component front ring product component front ring design of the front ring material of the front ring plastic color of the front ring plastic general technical data protection class IP of the terminal lP20 degree of protection NEMA rating shock resistance 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 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	lock make	RONIS
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  lP20  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  operating frequency maximum  yes  Yes  Standard  Plastic  Standard  Plastic  Plastic  IP66, IP67, IP69(IP69K)  IP20  IP20  Sinusoidal half-wave 15g / 11 ms  Category 1, Class B  Ocategory 1, Class B	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 lP20 degree of protection NEMA rating shock resistance of according to IEC 60068-2-27 of trailway 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  operating frequency maximum  Standard plastic Standard plastic Standard Sta	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  in 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  operating frequency maximum  1 800 1/h	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  oaccording to IEC 60068-2-27  for railway applications according to EN 61373  vibration resistance  oaccording 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	design of the front ring	Standard
protection class IP	material of the front ring	plastic
protection class IP  of the terminal  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  category 1, Class B  operating frequency maximum  1 800 1/h	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  ● according to IEC 60068-2-6  ● for railway applications according to EN 61373  Category 1, Class B  operating frequency maximum  1 800 1/h	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	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	<ul> <li>of the terminal</li> </ul>	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> </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  • according to IEC 60068-2-6  • for railway applications according to EN 61373  operating frequency maximum  1 800 1/h	<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>operating frequency maximum</li> <li>10 500 Hz: 5g</li> <li>Category 1, Class B</li> <li>1 800 1/h</li> </ul>	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
● for railway applications according to EN 61373 Category 1, Class B  operating frequency maximum 1 800 1/h	vibration resistance	
operating frequency maximum 1 800 1/h	<ul> <li>according to IEC 60068-2-6</li> </ul>	10 500 Hz: 5g
	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
mechanical service life (switching cycles) typical 1 000 000	operating frequency maximum	1 800 1/h
	mechanical service life (switching cycles) typical	1 000 000

reference code according to IEC 81346-2	\$
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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1000-4CL11-0AA0-Z Y12

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-4CL11-0AA0-Z Y12

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-4CL11-0AA0-Z Y12

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1000-4CL11-0AA0-Z Y12&lang=en

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