SIEMENS

Data sheet



RONIS key-operated switch, 22 mm, round, plastic, lock number 455, with 2 keys, 2 switch positions O<I, momentary contact type, Actuating angle 45°, 10:30h/12h, Key removal O

product brand name design of the product design of the product product type designation product line product line manufacturer's article number of included key product line manufacturer's article number of included key principle of operation of the actuating element product extension optional light source of the actuating element product extension optional light source solver in a ctuating element material of the actuating element material of the actuating element shape of the actuating element shape of the actuating element number of switching positions gwitch position for key distraction actuating angle clockwise clockwise dockwise dock make Rey number 455 Front ring product component front ring design of the front ring product component front ring design of the front ring color of the front ring design of the front ring front ring product component front ring design of the front ring design of the front ring design of the front ring liack Ceneral technical data protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 8068-2-27 of or railway applications according to EN 61373 category 1, Class B operating frequency maximum nechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Abbint conditions ambient temperature during operation during storage design of Ceneral technical during operation during storage design of Ceneral technical during operation during storage design of Ceneral technical design of the front ring during storage design of Ceneral technical design of the front ring during storage design of Ceneral technical design of the front ring design of the front ring document temperature during operation design of Ceneral technical design of the front ring during storage design of the front ring during storage during storage during storage during storage during storage during storage during stor		
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product type designation product line product line product line product line product component front ring design of the front ring design of the front ring design of the front ring product component front ring design of the front ring design of the front ring design of the front ring product component front ring design of the front ring product component front ring design of the front ring des	product designation	Key-operated switches
product line Plastic, black, 22 mm manufacturer's article number of included key 3SU1950-DFC80-QAAQ Actuator principle of operation of the actuating element momentary contact, 45" (10:30 h/12 h), return from center to left product extension optional light source No octor of the actuating element silver material of the actuating element Metal shape of the actuating element Metal	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 of the actuating element material of the actuating element shape of the shape with shape of the	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 silver material of the actuating element shape of the actuating element very element outer diameter of the actuating element number of switching positions 2 switch position for key distraction oCoactuating angle olockwise lock make RONIS key number 455 Front ring product component front ring design of the front ring design of the front ring color of the front ring black Ceneral technical data protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-27 operating frequency maximum shock resistance according to IEC 60068-2-27 operating frequency maximum 1 800 1/h mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature of during operation value (10.30 h/12 h), return from center to left No	product line	Plastic, black, 22 mm
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 shape of the actuating element youter diameter of the actuating element product product on the securating element public product product on the securating element product p	manufacturer's article number of included key	3SU1950-0FC80-0AA0
product extension optional light source color • of the actuating element silver material of the actuating element metal shape of switching positions 2 switch position for key distraction O actuating angle • clockwise lock make RONIS key number M55 Front ring product component front ring Standard material of the front ring plastic color of the front ring plastic color of the front ring black General technical data protection class IP • of the terminal P26, IP67, IP69(IP69K) • of the terminal P20 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 operating frequency maximum 1 800 10h mechanical service life (operating cycles) typical reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature • during operation - 25 +70 °C	Actuator	
color • of the actuating element silver material of the actuating element Metal shape of the actuating element Key outer diameter of the actuating element 29.5 mm number of switching positions 2 switch position for key distraction O actuating angle • clockwise 45° lock make RONIS key number 455 Front ring product component front ring Yes design of the front ring plastic color of the front ring plastic color of the front ring black General technical data protection class IP • of the terminal P20 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 operating frequency maximum 1800 1/h mechanical service life (operating cycles) typical 1000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature • during operation	principle of operation of the actuating element	momentary contact, 45° (10:30 h/12 h), return from center to left
• of the actuating element metal material of the actuating element Key outer diameter of the actuating element 29.5 mm number of switching positions 2 switch position for key distraction O actuating all and actuating all and actuating angle • clockwise 45° lock make RONIS key number 455 Front ring product component front ring Yes design of the front ring plastic color of the terminal protection NEMA rating IP20 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 operating frequency maximum 1800 1/h mechanical service life (operating cycles) typical reference code according to IEC 81346-2 S Substance Prohibitance (Date) • during operation -25 +70 °C	product extension optional light source	No
material of the actuating element	color	
shape of the actuating element outer diameter of the actuating element number of switching positions 2 switch position for key distraction o actuating angle • clockwise • clockwise • clockwise • clock 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 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) author is well-according to IEC 81346-2 Substance Prohibitance (Date) author is well-according to IEC 81346-2 Substance Prohibitance (Date) author is well-according to IEC 81346-2 Substance Prohibitance (Date) author is well-according to IEC 81346-2 substance Prohibitance (Date) -25 +70 °C	 of the actuating element 	silver
outer diameter 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 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 1 800 1/h mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) ambient temperature • during operation	material of the actuating element	metal
number of switching positions 2 switch position for key distraction O actuating angle	shape of the actuating element	Key
switch position for key distraction actuating angle • clockwise 10ck make RONIS key number 455 Front ring product component front ring design of the front ring color of the front ring color of the front ring plastic color of the front ring color of the terminal 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 reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation	outer diameter of the actuating element	29.5 mm
actuating angle	number of switching positions	2
e clockwise lock make RONIS key number 455 Front ring product component front ring design 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 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance (Date) should half-wave 15g / 11 ms category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient temperature oduring operation	switch position for key distraction	0
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 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 sinusoidal half-wave 15g / 11 ms of railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1800 1/h mechanical service life (operating cycles) typical 1000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature during operation -25 +70 °C	actuating angle	
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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 degree of protection NEMA rating shock resistance according to IEC 60068-2-27 of railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature o during operation Yes Standard Pleas Standard Pleas Standard Pleas IP66, IP67, IP69(IP69K) IP20 IP30, IP69(IP69K) IP20 IP30, IP69(IP69K) IP20 IP30, IP69(IP69K) IP20 IP66, IP67, IP69(IP69K) IP20 IP60, IP67, IP69(IP69K) IP60,	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 according to IEC 60068-2-27 for railway applications according to EN 61373 operating frequency maximum 1 800 1/h mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature design of the front ring black plastic	Front ring	
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 • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1800 1/h mechanical service life (operating cycles) typical 1000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature • during operation -25 +70 °C	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 rational of the railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature of during operation black IP66, IP67, IP69(IP69K) IP20 LP20 LP20 Sinusoidal half-wave 15g / 11 ms Category 1, Class B Category 1, Class B 1 800 1/h 1 000 000 Teference code according to IEC 81346-2 Substance Prohibitance (Date) 10/01/2014	design of the front ring	Standard
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 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature oduring operation IP20 IP20 IP20 Sinusoidal half-wave 15g / 11 ms Category 1, Class B Operating frequency maximum 1 800 1/h 1 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014	material of the front ring	plastic
protection class IP	color of the front ring	black
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 operating frequency maximum 1 800 1/h mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature of during operation -25 +70 °C	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 operating frequency maximum 1 800 1/h mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation 1, 2, 3, 3R, 4, 4X, 12, 13 1 ms Category 1, Class B 1 000 000 1 000 000 1 000 000 2 5 +70 °C	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 operating frequency maximum 1 800 1/h mechanical service life (operating cycles) typical 1 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature • during operation -25 +70 °C	of the terminal	IP20
• according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (operating cycles) typical 1 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature • during operation -25 +70 °C	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
	shock resistance	
operating frequency maximum 1 800 1/h mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation 1 800 1/h 1 000 000 1 000 000 1 000 000 1 000 000	 according to IEC 60068-2-27 	sinusoidal half-wave 15g / 11 ms
mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation 1 000 000 S 10/01/2014 Arc. -25 +70 °C	 for railway applications according to EN 61373 	Category 1, Class B
reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation -25 +70 °C	operating frequency maximum	1 800 1/h
Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation 10/01/2014 -25 +70 °C	mechanical service life (operating cycles) typical	1 000 000
Ambient conditions ambient temperature • during operation -25 +70 °C	reference code according to IEC 81346-2	S
ambient temperature ◆ during operation -25 +70 °C	Substance Prohibitance (Date)	10/01/2014
• during operation -25 +70 °C	Ambient conditions	
	ambient temperature	
◆ during storage −40 +80 °C	during operation	-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%)
Environmental footprint	
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
Installation/ mounting/ dimensions	
hoight	00.5
height	29.5 mm
width	29.5 mm
width	29.5 mm
width shape of the installation opening	29.5 mm round
width shape of the installation opening mounting diameter	29.5 mm round 22.3 mm
width shape of the installation opening mounting diameter positive tolerance of installation diameter	29.5 mm round 22.3 mm 0.4 mm
width shape of the installation opening mounting diameter positive tolerance of installation diameter mounting height	29.5 mm round 22.3 mm 0.4 mm 49.4 mm



General Product Approval

Confirmation







Declaration of Conformity



Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









other **Environment**

Confirmation

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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=3SU1000-4CC01-0AA0

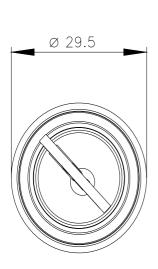
Cax online generator

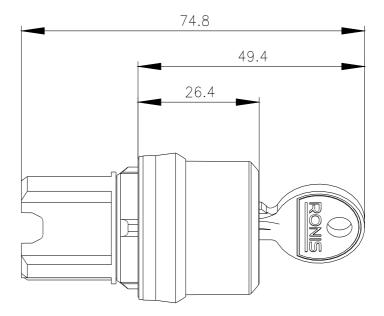
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-4CC01-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-4CC01-0A/

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1000-4CC01-0AA0&lang=en





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