

SETRON, transfer switching equipment 3KC, remotely operated, RTSE, 4-pole, lu: 1600 A, Ue AC: 415 V, Ie at AC-33 B at 415 V: 1000 A, Ie at AC-23 A at 690 V: 800 A, screw mounting, motorized operating mechanism, at the right end, long handle, busbar connection

Model	
product brand name	SETRON
product designation	3KC transfer switching equipment
design of the product	remote-controlled
display version / for switch position indicator manual operation	I - O - II
design of the actuating element	Long rotary knob
design of handle	Handle
type of the driving mechanism	motorized operating mechanism
type of the driving mechanism / motor drive	Yes

General technical data	
number of poles	4
type of device	fixed mounting
mechanical service life (switching cycles) / for function sequence O-I-O / typical	2 500
position / of the switch operating mechanism	at the right end
overvoltage category	IV
degree of pollution	3
insulation voltage	
• rated value	1 000 V
• with degree of pollution 3 / at DC / rated value	1 000 V

Supply voltage	
operational current / at AC / rated value	1 600 A
supply voltage / at AC	
• minimum	166 V
• maximum	332 V

Protection class	
protection class IP	IP00
protection class IP	
• with closed switch / with cover or cable lug cover	IP20
• on the front	IP00

Dissipation

power loss [W]

• with conventional rated thermal current / per pole	122 W
• with conventional rated thermal current / per device	488 W
• for rated value of the current / at AC / in hot operating state / per pole	122 W
• operational current / at AC-23 B / at 690 V / rated value	800 A
• operational current / at AC-22 B / at 690 V / rated value	1 000 A
• operational current / at AC-22 B / at 500 V / rated value	1 600 A
• operational current / at AC-21 B / at 690 V / rated value	1 600 A
• operational current / at AC-21 B / at 500 V / rated value	1 600 A
• operational current / at AC-23 A / at 690 V / rated value	800 A
• operational current / at AC-23 A / at 500 V / rated value	1 000 A
• operational current / at AC-22 A / at 690 V / rated value	1 000 A
• operational current / at AC-22 A / at 500 V / rated value	1 600 A
• operational current / at AC-21 / at 690 V / rated value	1 600 A
• operational current / at AC-21 / at 500 V / rated value	1 600 A
• operational current / at AC-21 A / at 415 V / rated value	1 600 A
• operational current / at AC-21 B / at 415 V / rated value	1 600 A
• operational current / at AC-22 A / at 415 V / rated value	1 600 A
• operational current / at AC-22 B / at 415 V / rated value	1 600 A
• operational current / at AC-23 A / at 415 V / rated value	1 250 A
• operational current / at AC-23 B / at 415 V / rated value	1 250 A
• operational current / at AC-31 B / at 415 V / rated value	1 600 A

• operational current / at AC-32 B / at 415 V / rated value	1 600 A
• operational current / at AC-33 B / at 415 V / rated value	1 000 A
• operational current / at AC-33 iB / at 415 V / rated value	1 250 A
• operational current / at AC / at 230 V / rated value	1 A
• operational current / at DC-23 A / at 440 V / rated value	1 250 A
• operational current / at DC-21 A / at 440 V / rated value	1 250 A
• operational current / at DC-21 A / at 220 V / rated value	1 250 A
• operational current / at DC-22 A / at 220 V / rated value	1 250 A
• operational current / at DC-22 A / at 440 V / rated value	1 250 A
operational current / of upstream fuse / rated value	1 600 A
operational current / at DC / rated value	1 600 A

Main circuit

operating frequency / rated value	
• minimum	45 Hz
• maximum	65 Hz
operational current / rated value	1 600 A

Auxiliary circuit

number of connected NC contacts / for auxiliary contacts	0
number of connected NO contacts / for auxiliary contacts	3
number of connected CO contacts / for auxiliary contacts	0
number of CO contacts / for auxiliary contacts	4
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
suitability for use	
• main switch	Yes
• switch disconnector	Yes
• EMERGENCY OFF switch	No
• safety switch	No
• maintenance/repair switch	Yes
product feature / interlock	Yes
product extension / auxiliary switch	Yes

product extension / optional	
• motor drive	No
• voltage trigger	No

Short circuit

short-circuit current making capacity (I _{cm}) / for switch disconnector	
• at AC 415 V / without fuse link / acc. to IEC 60947-3 / rated value / minimum	105 kA
• at AC 415 V / without fuse link / acc. to IEC 60947-6-1 / rated value / minimum	67.2 kA
conditional short-circuit current / with line-side fuse protection	
• at 415 V / by gG fuse / acc. to IEC 60947-6-1 / rated value	100 kA
• at 415 V / by gG fuse / rated value	100 kA
input current / at digital input / with signal <0> / maximum	1 mA
number of digital inputs	5
• design of the switching input	Connected with control terminal
relay design	1 relay: 1NO, 2A 250 VAC or 2A 24 VDC.
pulse duration	
• minimum	0.06 s
input delay time	0.046 s

Connections

type of connectable conductor cross-sections	
• for copper busbar	2x100x5
type of electrical connection	
• of the inputs and outputs	Removable/insertable
• for main current circuit	busbar connection

Mechanical Design

height	380 mm
width	716 mm
depth	439.5 mm
fastening method	screw fixing
fastening method	
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	No
net weight	39 400 g

Environmental conditions

ambient temperature / during operation	
• minimum	-20 °C

• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	70 °C

Certificates

reference code	
• acc. to DIN EN 61346-2	Q
• acc. to IEC 81346-2	Q

General Product Approval

Declaration of Conformity



CCC

[Miscellaneous](#)



EG-Konf.

Further information

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

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KC4454-0HA21-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KC4454-0HA21-0AA3>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KC4454-0HA21-0AA3

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>

