

SETRON, transfer switching equipment 3KC, manually operated, MTSE, size: 5, 4-pole, Iu: 1600 A, Ue AC: 415 V, Ie at AC-33 B at 415 V: 800 A, Ie at AC-23 A at 690 V: 800 A, screw mounting, front operating mechanism, at the left end, without handle, busbar connection



Model	
product brand name	SETRON
product designation	3KC transfer switching equipment
design of the product	manually operated
display version / for switch position indicator door-coupling rotary operating mechanism	I ON- O OFF- II ON
design of the actuating element	Without handle
design of handle	without
type of the driving mechanism	Front operating mechanism
type of the driving mechanism / motor drive	No
General technical data	
number of poles	4
type of device	fixed mounting
size of switch disconnecter	5
mechanical service life (switching cycles) / for function sequence O-I-O / typical	6 000
I _{2t} value	30 900 000 A ² ·s
<ul style="list-style-type: none"> • with closed switch / for combination switch + fuse / at 500 V / maximum 	

<ul style="list-style-type: none"> • of the fuse / at 415 V / maximum permissible 	34 800 005 A ² ·s
<ul style="list-style-type: none"> • of the fuse / at 500 V / maximum permissible 	34 800 005 A ² ·s
<ul style="list-style-type: none"> • with closed switch / for combination switch + fuse / at 415 V / maximum 	30 900 000 A ² ·s
position / of the switch operating mechanism	at the left end
overvoltage category	IV
degree of pollution	3
insulation voltage	
<ul style="list-style-type: none"> • rated value 	1 000 V

Supply voltage

operational current / at AC / rated value	1 600 A
operating voltage	
<ul style="list-style-type: none"> • at AC / at 50/60 Hz / rated value 	415 V

Protection class

protection class IP	IP00
protection class IP	
<ul style="list-style-type: none"> • with closed switch / with cover or cable lug cover 	IP20
<ul style="list-style-type: none"> • on the front 	IP00

Dissipation

power loss [W]	
<ul style="list-style-type: none"> • with conventional rated thermal current / per pole 	120 W
<ul style="list-style-type: none"> • with conventional rated thermal current / per device 	480 W
<ul style="list-style-type: none"> • for rated value of the current / at AC / in hot operating state / per pole 	120 W
<ul style="list-style-type: none"> • operational current / at AC-23 A / at 690 V / rated value 	800 A
<ul style="list-style-type: none"> • operational current / at AC-23 A / at 500 V / rated value 	800 A
<ul style="list-style-type: none"> • operational current / at AC-22 A / at 690 V / rated value 	1 600 A
<ul style="list-style-type: none"> • operational current / at AC-22 A / at 500 V / rated value 	1 600 A
<ul style="list-style-type: none"> • operational current / at AC-21 / at 690 V / rated value 	1 600 A
<ul style="list-style-type: none"> • operational current / at AC-21 / at 500 V / rated value 	1 600 A
<ul style="list-style-type: none"> • operational current / at AC-21 A / at 415 V / rated value 	1 600 A
<ul style="list-style-type: none"> • operational current / at AC-22 A / at 415 V / rated value 	1 600 A

• operational current / at AC-23 A / at 415 V / rated value	800 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	1 250 A
• operational current / at AC-33 B / at 415 V / rated value	800 A
• operational current / at AC-33 iB / at 415 V / rated value	1 250 A
• operational current / at AC-35 B / at 400 V / rated value	1 250 A
continuous current	
• rated value	1 600 A
• at 40 °C / rated value	1 600 A
• at 45 °C / rated value	1 250 A
• at 50 °C / rated value	1 250 A
• at 55 °C / rated value	1 250 A
• at 60 °C / rated value	1 250 A
• at 65 °C / rated value	1 250 A
• at 70 °C / rated value	1 250 A
operational current / of upstream fuse / rated value	1 600 A
let-through current / of the fuse / at 500 V / maximum permissible	112 656 A
let-through current / with closed switch	
• for combination switch + fuse / at 500 V / maximum permissible	110 000 A

Main circuit

operating power	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	400 kW
• at AC-23 A / at 500 V / rated value	560 kW
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	800 kW
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	0
number of connected CO contacts / for auxiliary contacts	0
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	16
number of NO contacts / for auxiliary contacts	16

suitability for use	
• main switch	Yes
• switch disconnecter	Yes
• EMERGENCY OFF switch	Yes
• safety switch	Yes
• maintenance/repair switch	Yes
product feature / interlock	No
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 disconnecter	
• at AC 415 V / without fuse link / acc. to IEC 60947-6-1 / rated value / minimum	105 kA
• at AC 690 V / without fuse link / acc. to IEC 60947-3 / rated value / minimum	105 kA
conditional short-circuit current / with line-side fuse protection	
• at 415 V / by gG fuse / acc. to IEC 60947-6-1 / rated value	80 kA
• at 415 V / by gG fuse / rated value	80 kA
• at 500 V / by gG fuse / acc. to IEC 60947-3 / rated value	80 kA

Connections

type of connectable conductor cross-sections / for aluminum conductor	
• stranded / with lug	1x (120 ... 300 mm ²), 2x (95 ... 300 mm ²)
type of connectable conductor cross-sections	
• with combination of Al conductor+switch	680 A / 2 x 300 mm ²
• for copper busbar	2x (60x10 mm ²)
type of connectable conductor cross-sections / for copper conductor	
• stranded / with lug / acc. to DIN 46234	1x (120 ... 240 mm ²), 2x (95 ... 240 mm ²)
• stranded / with lug / acc. to DIN 46235	1x (120 ... 240 mm ²), 2x (95 ... 240 mm ²)
type of electrical connection	
• for main current circuit	busbar connection

Mechanical Design

height	310 mm
width	565 mm
depth	311.5 mm

fastening method	screw fixing
fastening method	
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	No
net weight	39 100 g

Environmental conditions

ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-50 °C
• maximum	80 °C

Certificates

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

General Product Approval

Declaration of Conformity

Shipping Approval



CCC



VDE

Miscellaneous



EG-Konf.



LRS

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=3KC0454-0RE00-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KC0454-0RE00-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KC0454-0RE00-0AA0

CAX-Online-Generator

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

Tender specifications

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





