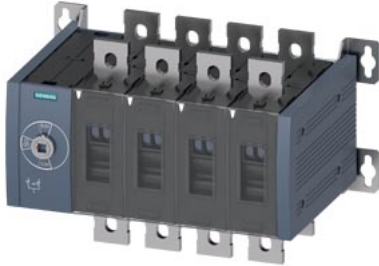


SENTRON, transfer switching equipment 3KC, manually operated, MTSE, size: 4, 4-pole, Iu: 630 A, Ue AC: 415 V, Ie at AC-33 B at 415 V: 500 A, Ie at AC-23 A at 690 V: 500 A, screw mounting, front operating mechanism, at the left end, without handle, busbar connection



Model	
product brand name	SENTRON
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	4
mechanical service life (switching cycles) / for function sequence O-I-O / typical	8 000
I ² t value	
<ul style="list-style-type: none"> with closed switch / for combination switch + fuse / at 500 V / maximum 	3 687 500 A ² ·s
<ul style="list-style-type: none"> with closed switch / at 690 V / for combination switch + gG fuse / maximum 	4 450 000 A ² ·s
<ul style="list-style-type: none"> of the fuse / at 415 V / maximum permissible 	5 400 005 A ² ·s
<ul style="list-style-type: none"> of the fuse / at 500 V / maximum permissible 	5 400 005 A ² ·s
<ul style="list-style-type: none"> of the gG fuse / at 690 V / maximum permissible 	3 760 005 A ² ·s
<ul style="list-style-type: none"> with closed switch / for combination switch + fuse / at 415 V / maximum 	3 687 500 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
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 device 	88 W
operational current	
<ul style="list-style-type: none"> at 35 °C / rated value 	630 A
<ul style="list-style-type: none"> at 40 °C / rated value 	630 A

<ul style="list-style-type: none"> ● at 45 °C / rated value ● at 50 °C / rated value ● at 55 °C / rated value ● at 60 °C / rated value ● at 65 °C / rated value ● at 70 °C / rated value ● at AC / rated value ● at AC-23 A / at 690 V / rated value ● at AC-23 A / at 500 V / rated value ● at AC-22 A / at 690 V / rated value ● at AC-22 A / at 500 V / rated value ● at AC-21 / at 500 V / rated value ● at AC-21 / at 690 V / rated value ● at AC-21 A / at 415 V / rated value ● at AC-22 A / at 415 V / rated value ● at AC-23 A / at 415 V / rated value ● at AC-31 B / at 415 V / rated value ● at AC-32 B / at 415 V / rated value ● at AC-33 B / at 415 V / rated value ● at AC-33 iB / at 415 V / rated value ● at AC-35 B / at 400 V / rated value 	<p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>500 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>630 A</p> <p>500 A</p> <p>630 A</p> <p>630 A</p>
operational current / of upstream fuse / rated value	630 A
let-through current / of the fuse / at 500 V / maximum permissible	65 521 A
let-through current / of the gG fuse / at 690 V / maximum permissible	54 005 A
let-through current / with closed switch	
<ul style="list-style-type: none"> ● at 690 V / for combination switch + gG fuse / maximum permissible ● for combination switch + fuse / at 500 V / maximum permissible 	<p>54 500 A</p> <p>61 600 A</p>

Main circuit

operating power	
<ul style="list-style-type: none"> ● at AC-23 A / at 400 V / at 50/60 Hz / rated value ● at AC-23 A / at 500 V / rated value 	<p>355 kW</p> <p>400 kW</p>
operational current / rated value	630 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	
<ul style="list-style-type: none"> ● main switch ● switch disconnecter ● EMERGENCY OFF switch ● safety switch ● maintenance/repair switch 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
product extension / auxiliary switch	Yes
product extension / optional	
<ul style="list-style-type: none"> ● motor drive ● voltage trigger 	<p>No</p> <p>No</p>

Short circuit

short-circuit current making capacity (I _{cm}) / for switch disconnecter	
<ul style="list-style-type: none"> ● at 415 V AC / without fuse link / according to IEC 60947-6-1 / rated value / minimum ● at 690 V AC / without fuse link / according to IEC 60947-3 / rated value / minimum 	<p>63 kA</p> <p>63 kA</p>
conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> ● at 415 V / by gG fuse / according to IEC 60947-6-1 / rated value ● at 415 V / by gG fuse / rated value 	<p>100 kA</p> <p>65 kA</p>

- at 500 V / by gG fuse / according to IEC 60947-3 / rated value
- at 690 V / by gG fuse / according to IEC 60947-3 / rated value

65 kA

65 kA

Connections

type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug	1x (25 ... 240 mm ²), 2x (25 ... 240 mm ²)
type of connectable conductor cross-sections <ul style="list-style-type: none"> • with combination of Al conductor+switch • for copper busbar 	620 A / 2x 240 mm ² 1x (40x10 mm ²), 2x (40x5 mm ²)
type of connectable conductor cross-sections / for copper conductor <ul style="list-style-type: none"> • stranded / with lug / according to DIN 46234 • stranded / with lug / according to DIN 46235 	1x (25 ... 240 mm ²), 2x (25 ... 240 mm ²) 1x (25 ... 240 mm ²), 2x (25 ... 240 mm ²)
type of electrical connection <ul style="list-style-type: none"> • for main current circuit 	busbar connection

Mechanical Design

height	235 mm
width	379 mm
depth	232.5 mm
fastening method	screw fixing
fastening method <ul style="list-style-type: none"> • 4-hole front mounting • front mounting with central attachment • rail mounting 	No No No
net weight	16 750 g

Environmental conditions

ambient temperature / during operation <ul style="list-style-type: none"> • minimum • maximum 	-25 °C 70 °C
ambient temperature / during storage <ul style="list-style-type: none"> • minimum • maximum 	-50 °C 80 °C

General Product Approval

Declaration of Conformity

[Confirmation](#)

[Miscellaneous](#)


Declaration of Conformity

Marine / Shipping

other



EG-Konf.



LRS



DNV-GL

[Miscellaneous](#)

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=3KC0446-0QE00-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KC0446-0QE00-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KC0446-0QE00-0AA0

CAX-Online-Generator

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

Tender specifications

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

