

SENTRON, transfer switching equipment 3KC, manually operated, MTSE, size: 4, 4-pole, Iu: 500 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 (operating cycles) for function sequence O-I-O typical	8 000
I2t 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 	60 W
Main circuit	
operating power	

<ul style="list-style-type: none"> at AC-23 A at 400 V at 50/60 Hz rated value 	280 kW
<ul style="list-style-type: none"> at AC-23 A at 500 V rated value 	355 kW
operational current rated value	500 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 	Yes
<ul style="list-style-type: none"> switch disconnecter 	Yes
<ul style="list-style-type: none"> EMERGENCY OFF switch 	Yes
<ul style="list-style-type: none"> safety switch 	Yes
<ul style="list-style-type: none"> maintenance/repair switch 	Yes
product extension auxiliary switch	Yes
product extension optional	
<ul style="list-style-type: none"> motor drive 	No
<ul style="list-style-type: none"> voltage trigger 	No
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 	63 kA
<ul style="list-style-type: none"> at 690 V AC without fuse link according to IEC 60947-3 rated value minimum 	63 kA
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 	100 kA
<ul style="list-style-type: none"> at 415 V by gG fuse rated value 	100 kA
<ul style="list-style-type: none"> at 500 V by gG fuse according to IEC 60947-3 rated value 	100 kA
<ul style="list-style-type: none"> at 690 V by gG fuse according to IEC 60947-3 rated value 	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 	500 A / 2x 240 mm ²
<ul style="list-style-type: none"> for copper busbar 	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 	1x (25 ... 240 mm ²), 2x (25 ... 240 mm ²)
<ul style="list-style-type: none"> stranded with lug according to DIN 46235 	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 	No
<ul style="list-style-type: none"> front mounting with central attachment 	No
<ul style="list-style-type: none"> rail mounting 	No
net weight	16 750 g
Environmental conditions	
ambient temperature during operation	
<ul style="list-style-type: none"> minimum 	-25 °C
<ul style="list-style-type: none"> maximum 	70 °C
ambient temperature during storage	
<ul style="list-style-type: none"> minimum 	-50 °C

• maximum

80 °C

Approvals Certificates

General Product Approval



[Confirmation](#)



[Miscellaneous](#)

General Product Approval

Test Certificates

Marine / Shipping

other



[Type Test Certificates/Test Report](#)



[Miscellaneous](#)

[Confirmation](#)

Environment

[Environmental Confirmations](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

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

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=3KC0444-0QE00-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KC0444-0QE00-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KC0444-0QE00-0AA0

CAx-Online-Generator

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

Tender specifications

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

