

SENTRON, Transfer switching equipment 3KC, manually operated, MTSE, size: 2, 4-pole, Iu: 160 A, Ue AC: 415 V, Ie at AC-33 B at 415 V: 160 A, Ie at AC-23 A at 690 V: 125 A, screw and standard mounting rail on 35 mm, front operating mechanism, central, without handle, box terminal



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 disconnector	2
mechanical service life (switching cycles) / for function sequence O-I-O / typical	15 000
I ² t value	
<ul style="list-style-type: none"> with closed switch / for combination switch + fuse / at 500 V / maximum 	135 600 A ² ·s
<ul style="list-style-type: none"> with closed switch / at 690 V / for combination switch + gG fuse / maximum 	178 300 A ² ·s
<ul style="list-style-type: none"> with closed switch / at 690 V / for combination switch + aM fuse / maximum 	201 200 A ² ·s
<ul style="list-style-type: none"> of the fuse / at 415 V / maximum permissible 	223 005 A ² ·s
<ul style="list-style-type: none"> of the fuse / at 500 V / maximum permissible 	223 005 A ² ·s
<ul style="list-style-type: none"> of the gG fuse / at 690 V / maximum permissible 	226 005 A ² ·s
<ul style="list-style-type: none"> of the aM fuse / at 690 V / maximum permissible 	235 000 A ² ·s
<ul style="list-style-type: none"> with closed switch / for combination switch + fuse / at 415 V / maximum 	135 600 A ² ·s
position / of the switch operating mechanism	in center
overvoltage category	III
degree of pollution	3
insulation voltage	
<ul style="list-style-type: none"> rated value 	1 000 V
Protection class	
protection class IP	IP20
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 	IP20

Dissipation	
power loss [W]	
<ul style="list-style-type: none"> with conventional rated thermal current / per pole 	7 W
<ul style="list-style-type: none"> with conventional rated thermal current / per device 	28 W
<ul style="list-style-type: none"> for rated value of the current / at AC / in hot operating state / per pole 	7 W
operational current	
<ul style="list-style-type: none"> at 40 °C / rated value 	160 A
<ul style="list-style-type: none"> at 45 °C / rated value 	160 A
<ul style="list-style-type: none"> at 50 °C / rated value 	160 A
<ul style="list-style-type: none"> at 55 °C / rated value 	160 A
<ul style="list-style-type: none"> at 60 °C / rated value 	160 A
<ul style="list-style-type: none"> at 65 °C / rated value 	160 A
<ul style="list-style-type: none"> at 70 °C / rated value 	160 A
<ul style="list-style-type: none"> at AC / rated value 	160 A
<ul style="list-style-type: none"> at AC-23 A / at 690 V / rated value 	125 A
<ul style="list-style-type: none"> at AC-23 A / at 500 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-22 A / at 690 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-22 A / at 500 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-21 / at 690 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-21 / at 500 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-21 A / at 415 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-22 A / at 415 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-23 A / at 415 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-31 B / at 415 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-32 B / at 415 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-33 B / at 415 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-33 iB / at 415 V / rated value 	160 A
<ul style="list-style-type: none"> at AC-35 B / at 400 V / rated value 	160 A
operational current / of upstream fuse / rated value	160 A
let-through current / of the fuse / at 500 V / maximum permissible	18 005 A
let-through current / of the gG fuse / at 690 V / maximum permissible	16 005 A
let-through current / of the aM fuse / at 690 V / maximum permissible	16 700 A
let-through current / with closed switch	
<ul style="list-style-type: none"> at 690 V / for combination switch + aM fuse / maximum permissible 	17 600 A
<ul style="list-style-type: none"> at 690 V / for combination switch + gG fuse / maximum permissible 	18 700 A
<ul style="list-style-type: none"> for combination switch + fuse / at 500 V / maximum permissible 	17 900 A
Main circuit	
operating power	
<ul style="list-style-type: none"> at AC-23 A / at 400 V / at 50/60 Hz / rated value 	90 kW
<ul style="list-style-type: none"> at AC-23 A / at 500 V / rated value 	110 kW
operational current / rated value	160 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	8
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
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 feature / interlock	No		
product extension / auxiliary switch	Yes		
product extension / optional			
<ul style="list-style-type: none"> ● motor drive ● voltage trigger 	No No		
Short circuit			
short-circuit current making capacity (I _{cm}) / for switch disconnector			
<ul style="list-style-type: none"> ● at 415 V AC / without fuse link / acc. to IEC 60947-6-1 / rated value / minimum 	17 kA		
<ul style="list-style-type: none"> ● at 690 V AC / without fuse link / acc. to IEC 60947-3 / rated value / minimum 	12 kA		
conditional short-circuit current / with line-side fuse protection			
<ul style="list-style-type: none"> ● at 415 V / by gG fuse / acc. 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 / acc. to IEC 60947-3 / rated value 	100 kA		
<ul style="list-style-type: none"> ● at 690 V / by gG fuse / acc. to IEC 60947-3 / rated value 	65 kA		
Connections			
type of connectable conductor cross-sections / with flexible busbar	3x (0.8x14 mm ²)		
type of connectable conductor cross-sections			
<ul style="list-style-type: none"> ● for copper busbar 	1x (3x14 mm ²)		
type of connectable conductor cross-sections / for copper conductor			
<ul style="list-style-type: none"> ● solid 	1x (2.5 ... 16 mm ²)		
<ul style="list-style-type: none"> ● finely stranded / with core end processing 	1x (2.5 ... 70 mm ²)		
<ul style="list-style-type: none"> ● stranded 	1x (10 ... 70 mm ²)		
type of electrical connection			
<ul style="list-style-type: none"> ● for main current circuit 	box terminal		
Mechanical Design			
height	126 mm		
width	309.6 mm		
depth	84.5 mm		
fastening method	Screw fixing and standard rail mounting 35 mm		
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 	Yes		
mounting position	any		
net weight	2 650 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		
<ul style="list-style-type: none"> ● maximum 	80 °C		
Certificates			
reference code			
<ul style="list-style-type: none"> ● acc. to DIN EN 61346-2 	Q		
<ul style="list-style-type: none"> ● acc. to IEC 81346-2 	Q		
General Product Approval		Declaration of Conformity	Marine / Shipping



[Miscellaneous](#)



Marine / Shipping



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=3KC0434-2NE00-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KC0434-2NE00-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KC0434-2NE00-0AA0

CAX-Online-Generator

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

Tender specifications

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



