

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 disconnecter	2
mechanical service life (operating cycles) for function sequence O-I-O typical	15 000
I2t 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 device 	28 W

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 main switch	Yes
suitability for use switch disconnecter	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
product feature interlock	No
product extension auxiliary switch	Yes
product extension optional motor drive	No
product extension optional 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 	17 kA
<ul style="list-style-type: none"> at 690 V AC without fuse link according 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 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 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	2.798 kg
Environmental conditions	
ambient temperature during operation	
<ul style="list-style-type: none"> minimum 	-25 °C

- maximum 70 °C
- ambient temperature during storage**
- minimum -50 °C
 - maximum 80 °C

Approvals Certificates

General Product Approval



[Miscellaneous](#)



Test Certificates

Maritime application

other

Environment

[Type Test Certificates/Test Report](#)



[Confirmation](#)



[Environmental Confirmations](#)

Environment

[Environmental Confirmations](#)

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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?mifb=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?mifb=3KC0434-2NE00-0AA0

CAX-Online-Generator

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

Tender specifications

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



