

SENTRON, 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	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	5
mechanical service life (operating cycles) for function sequence O-I-O typical	6 000
I2t value	
<ul style="list-style-type: none"> <li>with closed switch for combination switch + fuse at 500 V maximum</li> </ul>	30 900 000 A <sup>2</sup> ·s
<ul style="list-style-type: none"> <li>of the fuse at 415 V maximum permissible</li> </ul>	34 800 005 A <sup>2</sup> ·s
<ul style="list-style-type: none"> <li>of the fuse at 500 V maximum permissible</li> </ul>	34 800 005 A <sup>2</sup> ·s
<ul style="list-style-type: none"> <li>with closed switch for combination switch + fuse at 415 V maximum</li> </ul>	30 900 000 A <sup>2</sup> ·s
position of the switch operating mechanism	at the left end
overvoltage category	IV
degree of pollution	3
<b>insulation voltage</b>	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	1 000 V
Protection class	
protection class IP	IP00
protection class IP	
<ul style="list-style-type: none"> <li>with closed switch with cover or cable lug cover</li> </ul>	IP20
<ul style="list-style-type: none"> <li>on the front</li> </ul>	IP00
Dissipation	
power loss [W]	
<ul style="list-style-type: none"> <li>with conventional rated thermal current per device</li> </ul>	480 W
Main circuit	
operating power	
<ul style="list-style-type: none"> <li>at AC-23 A at 400 V at 50/60 Hz rated value</li> </ul>	400 kW
<ul style="list-style-type: none"> <li>at AC-23 A at 500 V rated value</li> </ul>	560 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 extension auxiliary switch	Yes
<b>product extension optional</b>	
• motor drive	No
• voltage trigger	No
Short circuit	
short-circuit current making capacity (I <sub>cm</sub> ) for switch disconnecter	
• at 415 V AC without fuse link according to IEC 60947-6-1 rated value minimum	105 kA
• at 690 V AC without fuse link according to IEC 60947-3 rated value minimum	105 kA
conditional short-circuit current with line-side fuse protection	
• at 415 V by gG fuse according 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 according 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 <sup>2</sup> ), 2x (95 ... 300 mm <sup>2</sup> )
type of connectable conductor cross-sections	
• with combination of Al conductor+switch	680 A / 2x 300 mm <sup>2</sup>
• for copper busbar	2x (60 x10 mm <sup>2</sup> )
type of connectable conductor cross-sections for copper conductor	
• stranded with lug according to DIN 46234	1x (120 ... 240 mm <sup>2</sup> ), 2x (95 ... 240 mm <sup>2</sup> )
• stranded with lug according to DIN 46235	1x (120 ... 240 mm <sup>2</sup> ), 2x (95 ... 240 mm <sup>2</sup> )
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
Approvals Certificates	
<b>General Product Approval</b>	



EG-Konf.



CCC

[Confirmation](#)



VDE

[Miscellaneous](#)

General Product Approval	Test Certificates	Marine / Shipping	other		
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[Type Test Certificates/Test Report](#)



DNV



LRS

[Confirmation](#)

[Miscellaneous](#)

#### 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=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](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>





