

SENTRON, ATE, transfer switching equipment 3KC, automatically, ATSE, 4- pole, I<sub>u</sub>: 800 A, U<sub>e</sub> AC: 415 V, I<sub>e</sub> at AC-33 B at 415 V: 800 A, I<sub>e</sub> at AC-23 A at 690 V: 630 A, screw mounting, motorized operating mechanism, at the right end, long handle, busbar connection



Model	
product brand name	SENTRON
product line	ATE
product designation	3KC transfer switching equipment
design of the product	automatic
display version for switch position indicator manual operation	I - O - II
design of the actuating element	Long rotary knob
design of handle	Handle
type of the driving mechanism	motorized operating mechanism
type of the driving mechanism motor drive	Yes
General technical data	
number of poles	4
type of device	fixed mounting
mechanical service life (operating cycles) for function sequence O-I-O typical	2 500
I <sup>2</sup> t value	
<ul style="list-style-type: none"> <li>with closed switch at 690 V for combination switch + gG fuse maximum</li> </ul>	5 043 000 A <sup>2</sup> ·s
<ul style="list-style-type: none"> <li>of the fuse at 415 V maximum permissible</li> </ul>	6 000 000 A <sup>2</sup> ·s
<ul style="list-style-type: none"> <li>of the gG fuse at 690 V maximum permissible</li> </ul>	9 000 000 A <sup>2</sup> ·s
position of the switch operating mechanism	at the right end
overvoltage category	III
degree of pollution	3
<b>insulation voltage</b>	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	1 000 V
<ul style="list-style-type: none"> <li>with degree of pollution 3 at DC rated value</li> </ul>	1 000 V
Supply voltage	
supply voltage at AC	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	166 V
<ul style="list-style-type: none"> <li>maximum</li> </ul>	332 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>	166.8 W
Main circuit	
operating frequency rated value	

<ul style="list-style-type: none"> <li>• minimum</li> </ul>	45 Hz
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	65 Hz
operational current rated value	800 A
<b>Auxiliary circuit</b>	
number of connected NC contacts for auxiliary contacts	0
number of connected NO contacts for auxiliary contacts	3
number of connected CO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	4
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"> <li>• main switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• switch disconnecter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• EMERGENCY OFF switch</li> </ul>	No
<ul style="list-style-type: none"> <li>• safety switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• maintenance/repair switch</li> </ul>	Yes
product extension auxiliary switch	Yes
<b>product extension optional</b>	
<ul style="list-style-type: none"> <li>• motor drive</li> </ul>	No
<ul style="list-style-type: none"> <li>• voltage trigger</li> </ul>	No
<b>Short circuit</b>	
short-circuit current making capacity (I <sub>cm</sub> ) for switch disconnecter	
<ul style="list-style-type: none"> <li>• at 415 V AC without fuse link according to IEC 60947-3 rated value minimum</li> </ul>	73.5 kA
<ul style="list-style-type: none"> <li>• at 415 V AC without fuse link according to IEC 60947-6-1 rated value minimum</li> </ul>	40 kA
conditional short-circuit current with line-side fuse protection	
<ul style="list-style-type: none"> <li>• at 415 V by gG fuse according to IEC 60947-6-1 rated value</li> </ul>	50 kA
<ul style="list-style-type: none"> <li>• at 415 V by gG fuse rated value</li> </ul>	50 kA
<ul style="list-style-type: none"> <li>• at 690 V by gG fuse according to IEC 60947-3 rated value</li> </ul>	50 kA
input current at digital input with signal <0> maximum	2.1 mA
number of digital inputs	11
<ul style="list-style-type: none"> <li>• design of the switching input</li> </ul>	Connected with control terminal
relay design	2 relays: 2NO, 2A 250 VAC or 2A 24 VDC; 1 relay: 1CO, 2A 250 VAC or 2A 24 VDC
pulse duration minimum	0.06 s
input delay time	0.046 s
number of monitored phases	3
<b>Connections</b>	
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> <li>• for copper busbar</li> </ul>	2x50x5
type of connectable conductor cross-sections for copper conductor	
<ul style="list-style-type: none"> <li>• stranded with lug according to DIN 46234</li> </ul>	2x185 mm <sup>2</sup> ◆4x185 mm <sup>2</sup>
type of electrical connection	
<ul style="list-style-type: none"> <li>• of the inputs and outputs</li> </ul>	Removable/insertable
<ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>	busbar connection
<b>Mechanical Design</b>	
height	370 mm
width	584 mm
depth	439.5 mm
fastening method	screw fixing
fastening method	
<ul style="list-style-type: none"> <li>• 4-hole front mounting</li> </ul>	No
<ul style="list-style-type: none"> <li>• front mounting with central attachment</li> </ul>	No
<ul style="list-style-type: none"> <li>• rail mounting</li> </ul>	No
net weight	33 300 g
<b>Environmental conditions</b>	
ambient temperature during operation	

<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-20 °C 70 °C
ambient temperature during storage <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-40 °C 70 °C

**Approvals Certificates**

**General Product Approval**



[Confirmation](#)



[Miscellaneous](#)

General Product Approval	Test Certificates	other	Dangerous Good	Environment
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[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Miscellaneous](#)

[Dangerous Goods Information](#)

[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=3KC8448-0FA22-0GA3>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/3KC8448-0FA22-0GA3>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KC8448-0FA22-0GA3](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KC8448-0FA22-0GA3)
- CAx-Online-Generator  
<http://www.siemens.com/cax>
- Tender specifications  
<http://www.siemens.com/specifications>





