## **SIEMENS**

Data sheet 3KF5480-0MF11

Switch disconnector with fuse 800 A, Size 5, 4-pole for LV HRC fuse Sz. 2 and 3 Front operating mechanism center Basic unit without handle flat terminal



Model	
product brand name	SENTRON
product designation	3KF switch disconnector with fuses
design of the product	3KF switch disconnector with fuses
product variations	3KF NH
design of the actuating element	without
design of handle	Without
direction of actuation	from the front
type of the driving mechanism motor drive	No
number of poles	4
size of disconnecting link	3 and 2
size of switch disconnector	5
size of fuse link	NH2, NH3
mechanical service life (operating cycles) typical	6 000
electrical endurance (operating cycles)	
• at AC-23 A at 440 V	1 500
• at AC-23 A at 690 V	1 000
• at DC-23 A at 440 V	500
12t value	
<ul> <li>with closed switch for combination switch + fuse at 500 V maximum</li> </ul>	4 100 000 A <sup>2</sup> ·s
<ul> <li>with closed switch for combination switch + fuse at 400 V maximum</li> </ul>	4 100 000 A <sup>2</sup> ·s
<ul> <li>with closed switch at 690 V for combination switch + gG fuse maximum</li> </ul>	2 050 000 A <sup>2</sup> ·s
<ul> <li>of the fuse at 500 V maximum permissible</li> </ul>	10 400 000 A <sup>2</sup> ·s
<ul> <li>of the gG fuse at 690 V maximum permissible</li> </ul>	7 000 000 A²-s
<ul> <li>of the aM fuse at 690 V maximum permissible</li> </ul>	7 000 000 A²-s
position of the switch operating mechanism	center right
fuse system	LV HRC fuse
overvoltage category	IV
operating voltage with current paths in series	
<ul> <li>with degree of pollution 2 at DC rated value</li> </ul>	440 / 3
<ul> <li>with degree of pollution 3 at DC rated value</li> </ul>	440 / 3
surge voltage resistance rated value	12 kV
Supply voltage	
operating voltage at AC rated value maximum	690 V
Protection class	
protection class IP	IP00
protection class IP	
with closed switch with cover or cable lug cover	IP20

Dissipation power loss [W]  • with conventional rated thermal current per pole • with conventional rated thermal current without fuse per pole • with conventional rated thermal current without fuse per pole • with conventional rated thermal current without fuse per pole • with conventional rated thermal current without fuse per device • for rated value of the current at AC in hot operating state per pole • of the fuse per fuse maximum  60 W  Main circuit operating power at AC-23 A at 500 V rated value operating power at AC-23 A at 500 V rated value operating power at AC-23 A at 500 V rated value operating power at AC-23 A at 500 V rated value operational current rated value  Auxiliary circuit number of connected NC contacts for auxiliary contacts number of connected NC contacts for auxiliary contacts number of Contacts for auxiliary contacts number of Contacts for auxiliary contacts number of NC contacts for	
power loss [W]  • with conventional rated thermal current per pole • with conventional rated thermal current per device • with conventional rated thermal current without fuse per pole • with conventional rated thermal current without fuse per device • with conventional rated thermal current without fuse per device • for rated value of the current at AC in hot operating state per pole • of the fuse per fuse maximum    Main circuit	
with conventional rated thermal current per pole with conventional rated thermal current per device with conventional rated thermal current without fuse per pole with conventional rated thermal current without fuse per device for rated value of the current at AC in hot operating state per pole of the fuse per fuse maximum for with conventional rated thermal current without fuse per device of the fuse per fuse maximum for with fuse per fuse maximum for without fuse per fuse maximum for without fuse per fuse maximum for operating power at AC-23 A at 500 V rated value operating power at AC-23 A at 500 V rated value operating power at AC-23 A at 500 V rated value operating power at AC-23 A at 500 V rated value operating power at AC-23 A at 500 V rated value operating power at AC-23 A at 500 V rated value  Auxiliary circuit number of connected NC contacts for auxiliary contacts number of Connected NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts suitability for use  mains with Yes  mains with Yes  mains with Yes  maintenance/repair switch Yes  maintenance/repair switch Yes  maintenance/repair switch Yes  undervoltage release no	
with conventional rated thermal current per device with conventional rated thermal current without fuse per pole with conventional rated thermal current without fuse per device for rated value of the current at AC in hot operating state per pole of the fuse per fuse maximum for the fuse per fuse maximum for with fuse fuse fuse fuse fuse fuse fuse fuse	
with conventional rated thermal current without fuse per pole with conventional rated thermal current without fuse per device of or rated value of the current at AC in hot operating state per pole of the fuse per fuse maximum  60 W  Main circuit operating power at AC-23 A at 500 V rated value operating power at AC-23 A at 500 V rated value operating current rated value  800 A  Auxiliary circuit number of connected NC contacts for auxiliary contacts number of connected NC contacts for auxiliary contacts number of connected NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contac	
pole  with conventional rated thermal current without fuse per device  for rated value of the current at AC in hot operating state per pole  of the fuse per fuse maximum  60 W  Main circuit  operating power at AC-23 A at 500 V rated value operational current rated value  son A  Auxiliary circuit:  number of connected NC contacts for auxiliary contacts number of connected NC contacts for auxiliary contacts number of connected NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts suitability for use  main switch switch disconnector emain switch switch disconnector emain switch switch disconnector emain switch ves safety switch maintenance/repair switch yes undervoltage release undervoltage release undervoltage release with leading contact ves undervoltage release with leading contact No product feature sealable product extension auxiliary switch yes product extension auxiliary switch yes product extension optional locking capability fuse monitoring No vovervoltage protection monitoring No overvoltage protection monitoring No overvoltage protection monitoring No sont circuit short-circuit current making capacty (1cm) for switch	
device  • for rated value of the current at AC in hot operating state per pole  • of the fuse per fuse maximum  60 W  Main circuit operating power at AC-23 A at 500 V rated value operating power at AC-23 A at 500 V rated value 800 A  Auxiliary circuit number of connected NC contacts for auxiliary contacts number of connected NC contacts for auxiliary contacts number of connected CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • switch disconnector • EMERGENCY OFF switch • maintenance/repair switch product component • voltage trigger • undervoltage release • undervoltage rel	
per pole  of the fuse per fuse maximum  operating power at AC-23 A at 500 V rated value operational current rated value  Auxillary circuit  number of connected NC contacts for auxiliary contacts number of connected NC contacts for auxiliary contacts number of connected CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts suitability for use  main switch switch disconnector emaintenance/repair switch safety switch maintenance/repair switch yes undervoltage release underv	
Main circuit  operating power at AC-23 A at 500 V rated value operational current rated value  Auxiliary circuit  number of connected NC contacts for auxiliary contacts number of connected NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts suitability for use  • main switch • witch disconnector • EMERGENCY OFF switch • safety switch • safety switch • maintenance/repair switch  Yes • maintenance/repair switch  Yes  • maintenance/repair switch  Yes  • maintenance/repair switch  Yes  • maintenance/repair switch  Yes  • maintenance/repair switch  Yes  • maintenance/repair switch  Yes  • maintenance/repair switch  Yes  • moltage trigger  No  • undervoltage release  No  • undervoltage release with leading contact  No  product extension auxiliary switch  Yes  product extension auxiliary switch  Yes  product extension auxiliary  • locking capability  • fuse monitoring  • overvoltage protection monitoring  No  • overvoltage protection monitoring  Short circuit  short-circuit current making capacity ((cm) for switch	
operating power at AC-23 A at 500 V rated value operational current rated value  Auxiliary circuit number of connected NC contacts for auxiliary contacts number of connected NC contacts for auxiliary contacts number of connected CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts suitability for use  • main switch • wain switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch  • voltage trigger • voltage trigger • undervoltage release with leading contact  • undervoltage release with leading contact  product extension auxiliary switch  product extension auxiliary switch  yes  product extension auxiliary switch  • fuse monitoring • fuse monitoring • fuse monitoring • overvoltage protection monitoring  Short circuit  short-circuit current making capacity ((cm) for switch)  44 KA	
operational current rated value  Auxiliary circuit  number of connected NC contacts for auxiliary contacts  number of connected NO contacts for auxiliary contacts  number of connected CO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  number of NC contacts for auxili	
number of connected NC contacts for auxiliary contacts number of connected NO contacts for auxiliary contacts number of connected CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts suitability for use main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch ves undervoltage release undervoltage release undervoltage release with leading contact No product extension auxiliary switch product extension auxiliary switch yes product feature sealable yes product extension auxiliary switch yes product extension optional locking capability motor drive fuse monitoring yes product function fuse monitoring No overvoltage protection monitoring No short circuit short-circuit current making capacity (Icm) for switch	
number of connected NC contacts for auxiliary contacts number of connected NO contacts for auxiliary contacts number of connected CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts suitability for use main switch main switch main switch maintenance/repair switch maintenance/repair switch maintenance/repair switch modulate release mundervoltage release mundervolt	
number of connected NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • maintenance/repair switch  • voltage trigger • undervoltage release • undervoltage release with leading contact  No product feature sealable product extension auxiliary switch  • locking capability • motor drive • fuse monitoring • fuse monitoring • overvoltage protection monitoring  Short circuit short-circuit current making capacity (lcm) for switch	
number of connected CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts suitability for use	
number of connected CO contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch  • ves  • maintenance/repair switch  • ves  • maintenance/repair switch  • ves  • maintenance/repair switch  Yes  • maintenance/repair switch  Yes  • maintenance/repair switch  Yes  • maintenance/repair switch  Yes  product component  • voltage trigger  • undervoltage release  No  • undervoltage release with leading contact  No  product feature sealable  Yes  product extension auxiliary switch  Yes  product extension auxiliary switch  • (yes)  product extension auxiliary switch  Yes  product extension auxiliary switch  • (yes)  product function  • (use monitoring  Yes  product function  • (use monitoring  • (use monito	
number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  suitability for use  • main switch  • main switch  • switch disconnector  • EMERGENCY OFF switch  • safety switch  • maintenance/repair switch  product component  • voltage trigger  • undervoltage release  • undervoltage release with leading contact  product feature sealable  product extension auxiliary switch  product extension optional  • locking capability  • motor drive  • fuse monitoring  product function  • fuse monitoring  • overvoltage protection monitoring  Short circuit  short-circuit current making capacity (lcm) for switch  44 kA	
number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • maintenance/repair switch  • maintenance/repair switch  • contact component  • voltage trigger • voltage trigger • undervoltage release • undervoltage release with leading contact product feature sealable product extension auxiliary switch  • product extension auxiliary switch  product extension optional • locking capability • motor drive • motor drive • fuse monitoring  product function • fuse monitoring • fuse monitoring • overvoltage protection monitoring  Short circuit  short-circuit current making capacity (Icm) for switch  44 kA	
number of NO contacts for auxiliary contacts  suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch • maintenance/repair switch • router of the safety of the safety switch • maintenance/repair switch • maintenance/repair switch • voltage trigger • voltage trigger • voltage release • undervoltage release with leading contact • undervoltage release with leading contact product feature sealable product extension auxiliary switch  product extension optional • locking capability • motor drive • montor drive • montor drive • fuse monitoring  product function • fuse monitoring • fuse monitoring • overvoltage protection monitoring  No  Short circuit  short-circuit current making capacity (Icm) for switch  44 kA	
suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • maintenance/repair switch  • roultage trigger  • voltage trigger • voltage trigger • undervoltage release • undervoltage release with leading contact product feature sealable product extension auxiliary switch  • locking capability • motor drive • fuse monitoring • fuse monitoring • overvoltage protection monitoring  Short circuit short-circuit current making capacity (Icm) for switch  Yes  Yes  Yes  Yes  Yes  No  Yes  Product function  • fuse monitoring  No  No  No  No  No  No  No  No  No  N	
<ul> <li>main switch</li> <li>switch disconnector</li> <li>EMERGENCY OFF switch</li> <li>safety switch</li> <li>maintenance/repair switch</li> <li>maintenance/repair switch</li> <li>voltage trigger</li> <li>voltage trigger</li> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> <li>undervoltage release with leading contact</li> <li>product feature sealable</li> <li>yes</li> <li>product extension auxiliary switch</li> <li>product extension auxiliary switch</li> <li>locking capability</li> <li>motor drive</li> <li>fuse monitoring</li> <li>fuse monitoring</li> <li>fuse monitoring</li> <li>overvoltage protection monitoring</li> <li>No</li> <li>Short circuit</li> <li>short-circuit current making capacity (lcm) for switch</li> <li>44 kA</li> </ul>	
switch disconnector     EMERGENCY OFF switch     safety switch     safety switch     maintenance/repair switch     voltage trigger     voltage trigger     undervoltage release     voltage release with leading contact     product extension auxiliary switch     product extension auxiliary switch     product extension optional     locking capability     motor drive     fuse monitoring     fuse monitoring     vovervoltage protection monitoring     No  Short circuit short-circuit current making capacity (lcm) for switch  Yes  Yes  No  No  Short circuit  Yes  Yes  No  44 KA	
EMERGENCY OFF switch safety switch maintenance/repair switch yes  product component  voltage trigger no undervoltage release no undervoltage release with leading contact product feature sealable product extension auxiliary switch yes  product extension optional locking capability motor drive fuse monitoring yes  product function fuse monitoring No Short circuit safety switch yes  Yes  Yes  No No No No No No No Short circuit short-circuit current making capacity (Icm) for switch  Yes  Yes  Yes  No No  Yes  No No No  Short circuit current making capacity (Icm) for switch  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	
safety switch     maintenance/repair switch     yes  product component      voltage trigger     No     undervoltage release     no     undervoltage release with leading contact     product feature sealable     product extension auxiliary switch     product extension optional     locking capability     notor drive     notor drive     fuse monitoring     fuse monitoring     ves  Short circuit  short-circuit current making capacity (Icm) for switch  Yes  Yes  No  Yes  No  No  Short circuit current making capacity (Icm) for switch  44 kA	
maintenance/repair switch  product component  voltage trigger  undervoltage release  undervoltage release with leading contact  product feature sealable  product extension auxiliary switch  product extension optional  locking capability  motor drive  fuse monitoring  fuse monitoring  fuse monitoring  ves  No  Short circuit  Ves  No  No  Ves  No  No  No  No  No  Short-circuit current making capacity (lcm) for switch  44 kA	
product component  • voltage trigger  • undervoltage release  • undervoltage release with leading contact  product feature sealable  product extension auxiliary switch  product extension optional  • locking capability  • motor drive  • fuse monitoring  product function  • fuse monitoring  • overvoltage protection monitoring  Short circuit  short-circuit current making capacity (Icm) for switch	
<ul> <li>voltage trigger</li> <li>undervoltage release</li> <li>undervoltage release with leading contact</li> <li>volumetroltage release with leading contact</li> <li>No</li> <li>product feature sealable</li> <li>yes</li> <li>product extension auxiliary switch</li> <li>product extension optional</li> <li>locking capability</li> <li>motor drive</li> <li>fuse monitoring</li> <li>fuse monitoring</li> <li>overvoltage protection monitoring</li> <li>No</li> <li>Short circuit</li> <li>short-circuit current making capacity (lcm) for switch</li> <li>44 kA</li> </ul>	
undervoltage release     undervoltage release with leading contact     ves  product feature sealable  product extension auxiliary switch  product extension optional  locking capability  notor drive  fuse monitoring  product function  fuse monitoring  No  overvoltage protection monitoring  No  Short circuit  short-circuit current making capacity (lcm) for switch  No  No  No  44 kA	
<ul> <li>undervoltage release with leading contact</li> <li>product feature sealable</li> <li>product extension auxiliary switch</li> <li>product extension optional</li> <li>locking capability</li> <li>motor drive</li> <li>fuse monitoring</li> <li>fuse monitoring</li> <li>overvoltage protection monitoring</li> <li>Short-circuit</li> <li>undervoltage protection for switch</li> <li>No</li> <li>44 kA</li> </ul>	
product feature sealable  product extension auxiliary switch  product extension optional  locking capability  motor drive  fuse monitoring  roduct function  fuse monitoring  ves  No  overvoltage protection monitoring  No  Short circuit  short-circuit current making capacity (Icm) for switch  Yes  No  Yes  No  No  44 kA	
product extension auxiliary switch  Product extension optional  I locking capability  I motor drive  I no  I fuse monitoring  I fuse monitoring  I fuse monitoring  I no  I fuse monitoring  I no  I fuse monitoring  I no  I	
product extension optional	
locking capability     motor drive     motor drive     fuse monitoring     yes  product function     fuse monitoring     No     overvoltage protection monitoring  Short circuit  short-circuit current making capacity (Icm) for switch  Yes  No  No  44 kA	
motor drive     fuse monitoring     yes  product function     fuse monitoring     No     overvoltage protection monitoring  Short circuit  short-circuit current making capacity (Icm) for switch  No  44 kA	
fuse monitoring     product function         fuse monitoring	
product function  • fuse monitoring  • overvoltage protection monitoring  Short circuit  short-circuit current making capacity (Icm) for switch  44 kA	
fuse monitoring     overvoltage protection monitoring     No  Short circuit  short-circuit current making capacity (Icm) for switch  44 kA	
overvoltage protection monitoring     No  Short circuit  short-circuit current making capacity (Icm) for switch  44 kA	
Short circuit short-circuit current making capacity (Icm) for switch  44 kA	
short-circuit current making capacity (Icm) for switch  44 kA	
short-circuit current making capacity (Icm) for switch  44 kA	
disconnector at 690 V AC/440 V DC without fuse link rated	
value minimum	
conditional short-circuit current with line-side fuse protection	
at 500 V by gG fuse rated value  100 kA	
at 690 V by gG fuse rated value  80 kA	
Connections	
arrangement of electrical connectors for main current circuit  Top and bottom	
tightening torque with screw-type terminals	
● minimum 50 N·m	
• maximum 75 N⋅m	
type of connectable conductor cross-sections for aluminum conductor stranded with lug 1x (25 300 mm²), 2x (25 300 mm²)	
type of connectable conductor cross-sections	
• for copper busbar 2x (50 x 5 mm²)	
type of connectable conductor cross-sections for copper conductor	
• stranded with lug according to DIN 46234 1x (25 240 mm²), 2x (25 240 mm²)	
• stranded with lug according to DIN 46235 1x (25 300 mm²), 2x (25 300 mm²)	
type of electrical connection for main current circuit flat connector	

Mechanical Design		
height	270 mm	
width	490 mm	
depth	262 mm	
fastening method	floor mounting	
fastening method		
<ul> <li>4-hole front mounting</li> </ul>	No	
<ul> <li>front mounting with central attachment</li> </ul>	No	
rail mounting	No	
mounting position	any	
net weight	18 850 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		
General Product Approval		







Confirmation



**Miscellaneous** 

General	<b>Product</b>	Ap-
proval		

**Test Certificates** 

Marine / Shipping

other

Environment



Type Test Certificates/Test Report



**Miscellaneous** 

Confirmation

Environmental Confirmations

## Further information

Information on the packaging

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

 $Information-\ and\ Download center\ (Catalogs,\ Brochures,...)$ 

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KF5480-0MF11}$ 

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3KF5480-0MF11}$ 

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

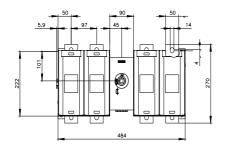
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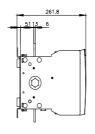
**CAx-Online-Generator** 

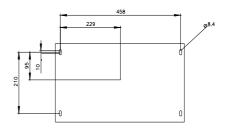
http://www.siemens.com/cax

**Tender specifications** 

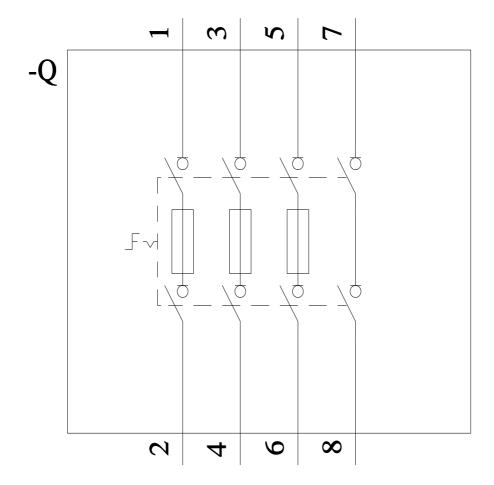
http://www.siemens.com/specifications

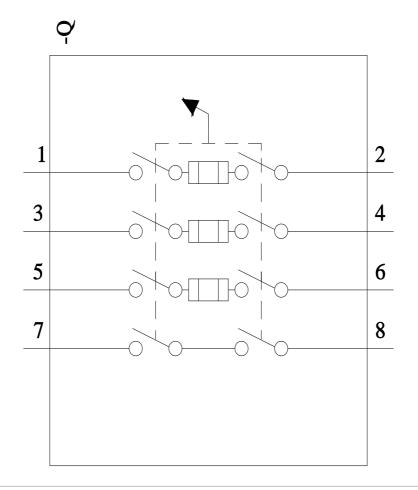












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