SIEMENS

Data sheet

3VA5180-4EF36-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 3-pole, line protection TM240, ATAM, In=80A overload protection Ir=64A ...80A short-circuit protection Ii=5...10 x In cable connection on both sides

Model product brand name SENTRON product designation Molded-case circuit breaker product designation / according to UL 189 / Heating, SEAS Ar Conditioning, and Refrigeration circuit breaker (HACR Yes design of the load switch / according to UL 489 / High- No intensity-Discharge circuit breaker (HID Type) No design of the load switch / according to UL 489 / Switching No Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching No Duty circuit breaker (SWD Type) No design of the overcurrent release TM240 number of poles 3 Ceneral tochnical data 800 V most of the get / rated value 800 V operating voltage / rate value 600 V operating voltage / rate value of the current / at AC / i 800 V operating voltage / rate value 600 V operating voltage / rate value of the current / at AC / i 643 W in hot operating state / per pole 643 W mechanical service life (switching cycles) / t AC-1 / at 8000 8000		
product designationMolded-case circuit breakerproduct designation / according to UL fileSEASProduct versionSystem protectiondesign of the load switch / according to UL 489 / Heating, Ar Conditioning, and Refrigeration circuit breaker (HACR Type)Yesdesign of the load switch / according to UL 489 / High- Intensity-Discharge circuit breaker (HD Type)Nodesign of the load switch / according to UL 489 / Switching Duty circuit breaker (WD Type)Nodesign of the overcurrent releaseTM240protection function of the overcurrent releaseL1insulation voltage / rated value800 VMax. rated operational voltage U with DC500 Voperating voltage / rated value600 VMax. rated operational voltage U with DC500 Voperating voltage / rated value600 VSolver los S/ for rated value of the current / at AC / in to to prate value of the current / at AC / in the operating voltage / at AC / rated value643 WBiourdation contactor (switching cycles) / typical20 000Electrical endurance (switching cycles) / typical20 000Electrical endurance (switching cycles) / at 600 V4 000V 50/60 Hz8 000electrical endurance (switching cycles) / at 600 V4 000voltage / rate value8 000velocitical endurance (switching cycles) / at 600 V4 000velocitical endurance (switching cycles) / at 600 V4 000velocitical endurance (switching cycles) / at 600 V8 000electrical endurance (switching cycles) / at 600 V8 000 <t< td=""><td>Model</td><td></td></t<>	Model	
product designation / according to UL file SEAS Product version System protection design of the load switch / according to UL 489 / Heating, Yes Ar Conditioning, and Refrigeration circuit breaker (HACR Type) No design of the load switch / according to UL 489 / High- Intensity-Discharge circuit breaker (HD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Operating voltage / at AC / rated value 800 V power loss (M) / maximum 19.3 W 64.3 W Active power loss / for rated value of the current / at AC / in tho operating state / per pole 8000 mechanical service life (switching cycles) / ta AC - 1 / at 300 8000 Selectrical endurance (switching cycles) / at AC - 1 / at 600 V 4000 V 5060 Hz electrical	•	
Product version System protection design of the load switch / according to UL 489 / Heating, Ar Conditioning, and Refrigeration circuit breaker (HACR) Yes design of the load switch / according to UL 489 / High- Intensity-Discharge circuit breaker (HDT ype) No design of the load switch / according to UL 489 / High- Intensity-Discharge circuit breaker (HDT ype) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the overcurrent release TM240 protection function of the overcurrent release Ll number of poles 3 Condentate data 500 V insultation voltage / rated value 800 V Max. rated operational voltage Ue with DC 500 V operating voltage / rated value 600 V power loss / for rated value of the current / at AC / in hot operating state / per pole 643 W mechanical service life (switching cycles) / typical 20 000 Electrical endurance (switching cycles) / typical 4000 Electrical endurance (switching cycles) / at AC-1 / at 690 V 4000 V 50%0 Hz 4000 electrical endurance (switching cycles) / at 80 V 8 000 electrical endurance (switching cycles) / at 80 V 8 000 electrical endurance (switching cycles) / at 80 V 8 000 electrical endurance (switching cyc		
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / Nigh- Intensity-Discharge circuit breaker (HACR torcuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the voercurrent release number of poles TM240 insulation voltage / at AC / rated value 600 V operating voltage / at AC / rated value 600 V operating voltage / at AC / rated value 600 V power loss (M/ maximum 19.3 W Active power loss / Mor rated value of the current / at AC / in to operating voltage / at AC / at C-1 / at AC / in to operating voltage / at AC / at C-1 / at 4800 8000 electrical endurance (switching cycles) / at AC-1 / at 690 V 0000 V 50/60 Hz 8000 electrical endurance (switching		01.0
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Intensity-Discharge circuit breaker (4ID Type) No design of the load switch / according to UL 489 / Switching No puty circuit breaker (SWD Type) Max. geografic design of the overcurrent release Ll number of poles 3 Ceneral technical data insulation voltage / rated value 800 V Max. rated operational voltage Ue with DC 500 V operating voltage / at AC / rated value 690 V power loss [W] / maximum 19.3 W Active power loss / for rated value of the current / at AC / 64.3 W mechanical service life (switching cycles) / typical 20 000 Electrical endurance (switching cycles) / typical 20 000 Electrical endurance (switching cycles) / at AC-1 / at 800 8 000 V 50/60 Hz 4 000 electrical endurance (switching cycles) / at 480 V 8 000 electrical endurance (switching cycles) / at 480 V 4 000 veltcrical endurance (switching cycles) / at 480 V 4 000 veltcrical endurance (switching cycles) / at 480 V 4 000 veltcrical endurance (switching cycles) / at 60 V 4 000 veltcrical endurance (switching cycles) / at 60 V 4 000 <td>Air Conditioning, and Refrigeration circuit breaker (HACR</td> <td>Yes</td>	Air Conditioning, and Refrigeration circuit breaker (HACR	Yes
Duty circuit breaker (SWD Type) TM240 design of the overcurrent release L1 number of poles 3 Ceneral technical data 800 V Max. rated operational voltage Ue with DC 500 V operating voltage / rated value 690 V power loss [VM] / maximum 19.3 W Active power loss [VM] / maximum 19.3 W Active power loss [VM] / maximum 6.43 W in hot operating state / per pole 20 000 electrical endurance (switching cycles) / typical 20 000 Electrical endurance (switching cycles) / at AC-1 / at 8 000 380/415 V 50/60 Hz 4 000 electrical endurance (switching cycles) / at AC-1 / at 690 V 000 V 50/60 Hz 8 000 electrical endurance (switching cycles) / at AC0 V 8 000 electrical endurance (switching cycles) / at ABO V 8 000 electrical endurance (switching cycles) / at ABO V 8 000 ground-fault monitoring version without product function No other measurement function No other measurement function No other measurement function 80 A <td>Intensity-Discharge circuit breaker (HID Type)</td> <td>No</td>	Intensity-Discharge circuit breaker (HID Type)	No
protection function of the overcurrent release LI number of poles 3 General technical data 800 V Max. rated operational voltage / rated value 800 V operating voltage / rated value 690 V operating voltage / at AC / rated value 690 V power loss [W] / maximum 19.3 W Active power loss / for rated value of the current / at AC / 6.43 W in hot operating state / per pole mechanical service life (switching cycles) / typical 20 000 Electrical endurance (switching cycles) / typical 20 000 2000 Electrical endurance (switching cycles) / at AC-1 / at 8000 300415 V 50/60 Hz Electrical endurance (switching cycles) / at A80 V 8 000 electrical endurance (switching cycles) / at A80 V 8 000 electrical endurance (switching cycles) / at 480 V 8 000 electrical endurance (switching cycles) / at 800 V 4 000 V 50/60 Hz No ground-fault monitoring version without product function No stat stat • communication function No stat stat • at 40 °C 80 A	0 0 0	No
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General technical data insulation voltage / rated value 800 V Max. rated operational voltage Ue with DC 500 V operating voltage / at AC / rated value 690 V power loss [W] / maximum 19.3 W Active power loss / for rated value of the current / at AC / 6.43 W nh ot operating state / per pole 6.43 W mechanical service life (switching cycles) / typical 20 000 Electrical endurance (switching cycles) / at AC-1 / at 8 000 380/415 V 50/60 Hz 8 000 electrical endurance (switching cycles) / at AC-1 / at 690 4 000 V 50/60 Hz 8 000 electrical endurance (switching cycles) / at 480 V 8 000 electrical endurance (switching cycles) / at 600 V 4 000 Netural conductors / upgradeable/retrofittable No ground-fault monitoring version without product function No • other measurement function No • other measurement function No • at 40 °C 80 A • at 45 °C 78 A • at 45 °C 78 A • at 50 °C 77 A • at 55 °C	protection function of the overcurrent release	U
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Max. rated operational voltage Ue with DC 500 V operating voltage / at AC / rated value 690 V power loss [VI] / maximum 19.3 W Active power loss / for rated value of the current / at AC / in hot operating state / per pole 643 W mechanical service life (switching cycles) / typical 20 000 Electrical endurance (switching cycles) / typical 8 000 380/415 V 50/60 Hz 8 000 Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz 8 000 electrical endurance (switching cycles) / at AC-1 / at 690 4 000 V 50/60 Hz 8 000 electrical endurance (switching cycles) / at AC-1 / at 690 V 4 000 V 50/60 Hz 8 000 electrical endurance (switching cycles) / at AC-1 / at 690 V 4 000 Netural conductors / upgradeable/retrofittable No ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 0.811 kg Current 80 A • at 40 °C 80 A • at 45 °C 78 A • at 55 °C	General technical data	
operating voltage / at AC / rated value690 Vpower loss [W] / maximum19.3 WActive power loss / for rated value of the current / at AC / in hot operating state / per pole6.43 Wmechanical service life (switching cycles) / typical20 000Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz8 000Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz4 000electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz8 000electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz8 000electrical endurance (switching cycles) / at A00 V4 000Neutral conductors / upgradeable/retrofittable vordeable/retrofittableNoorder fault monitoring version vordeation functionNoother measurement function vordeable/tetrofitNoNet Weight0.811 kgCurrentat 40 °C e at 43 °C e at 45 °C e at 50 °Cmarking / according to UL 489 / 100%-rated breaker operational current e at 55 °C76 A	insulation voltage / rated value	800 V
power loss [W] / maximum19.3 WActive power loss / for rated value of the current / at AC / in hot operating state / per pole6.43 Wmechanical service life (switching cycles) / typical20 000Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz8 000Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz4 000V 50/60 Hzelectrical endurance (switching cycles) / at 480 V8 000electrical endurance (switching cycles) / at 600 V4 000V 50/60 Hzwithoutelectrical endurance (switching cycles) / at 600 V4 000v 50/60 HzNoelectrical endurance (switching cycles) / at 600 V4 000v 60/60 HzNoelectrical endurance (switching cycles) / at 600 V4 000Neutral conductors / upgradeable/retrofittableNoground-fault monitoring versionwithoutproduct functionNo• other measurement functionNo• other measurement functionNo• other measurement functionNo• at 40 °C80 A• at 40 °C80 A• at 40 °C78 A• at 40 °C78 A• at 45 °C78 A• at 45 °C76 A	Max. rated operational voltage Ue with DC	500 V
Active power loss / for rated value of the current / at AC / in hot operating state / per pole 6.43 W mechanical service life (switching cycles) / typical 20 000 Electrical endurance (switching cycles) / at AC-1 / at 8 000 380/415 V 50/60 Hz 8 000 Electrical endurance (switching cycles) / at AC-1 / at 690 4 000 V 50/60 Hz 8 000 electrical endurance (switching cycles) / at AB0 V 8 000 electrical endurance (switching cycles) / at 600 V 4 000 Neutral conductors / upgradeable/retofittable No ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 0.811 kg Current	operating voltage / at AC / rated value	690 V
in hot operating state / per pole mechanical service life (switching cycles) / typical 20 000 Electrical endurance (switching cycles) / at AC-1 / at 8 000 380/415 V 50/60 Hz Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz electrical endurance (switching cycles) / at AB0 V 8 000 electrical endurance (switching cycles) / at 600 V 4 000 Neutral conductors / upgradeable/retrofittable ground-fault monitoring version without product function • communication function • other measurement function No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 55 °C 76 A	power loss [W] / maximum	19.3 W
Electrical endurance (switching cycles) / at AC-1 / at 8000 8000 380/415 V 50/60 Hz 4000 Electrical endurance (switching cycles) / at AC-1 / at 690 4000 V 50/60 Hz 8000 electrical endurance (switching cycles) / at 480 V 8000 electrical endurance (switching cycles) / at 480 V 8000 electrical endurance (switching cycles) / at 600 V 4000 Neutral conductors / upgradeable/retrofittable No ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 0.811 kg Current at 40 °C • at 40 °C 80 A • at 45 °C 78 A • at 50 °C 77 A • at 55 °C 76 A		6.43 W
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V 50/60 Hzelectrical endurance (switching cycles) / at 480 V8 000electrical endurance (switching cycles) / at 600 V4 000Neutral conductors / upgradeable/retrofittableNoground-fault monitoring versionwithoutproduct functionNo• communication functionNo• other measurement functionNoNet Weight0.811 kgCurrentmarking / according to UL 489 / 100%-rated breaker operational current• at 40 °C80 A• at 45 °C78 A• at 50 °C77 A• at 55 °C76 A		8 000
electrical endurance (switching cycles) / at 600 V 4 000 Neutral conductors / upgradeable/retrofittable No ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 0.811 kg Current marking / according to UL 489 / 100%-rated breaker operational current 80 A • at 40 °C 80 A • at 45 °C 78 A • at 50 °C 77 A • at 55 °C 76 A		4 000
Neutral conductors / upgradeable/retrofittableNoground-fault monitoring versionwithoutproduct functionNo• communication functionNo• other measurement functionNoNet Weight0.811 kgCurrentmarking / according to UL 489 / 100%-rated breakerNo• at 40 °C80 A• at 45 °C78 A• at 50 °C77 A• at 55 °C76 A	electrical endurance (switching cycles) / at 480 V	8 000
ground-fault monitoring versionwithoutproduct functionNo• communication functionNo• other measurement functionNoNet Weight0.811 kgCurrentmarking / according to UL 489 / 100%-rated breakeroperational currentNo• at 40 °C80 A• at 45 °C78 A• at 50 °C77 A• at 55 °C76 A	electrical endurance (switching cycles) / at 600 V	4 000
ground-fault monitoring versionwithoutproduct functionNo• communication functionNo• other measurement functionNoNet Weight0.811 kgCurrentmarking / according to UL 489 / 100%-rated breakeroperational currentNo• at 40 °C80 A• at 45 °C78 A• at 50 °C77 A• at 55 °C76 A		No
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• other measurement functionNoNet Weight0.811 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational currentNo• at 40 °C80 A• at 45 °C78 A• at 55 °C76 A	•	No
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• at 40 °C 80 A • at 45 °C 78 A • at 50 °C 77 A • at 55 °C 76 A		
• at 45 °C 78 A • at 50 °C 77 A • at 55 °C 76 A	1	80 A
• at 50 °C 77 A • at 55 °C 76 A		
• at 55 °C 76 A	● at 50 °C	77 A
• at 60 °C 74 A	● at 55 °C	76 A
	● at 60 °C	74 A

● at 65 °C	73 A
• at 70 °C	72 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 690 V	5 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	75.6 kA
• at 690 V	7.5 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter
Switching capacity according to UL 489	
breaking capacity current	
• at 240 V	65 kA
● at 480 V	25 kA
• at 600 Y/347 V	14 kA
Adjustable parameters	
product feature / for L-tripping / selectable characteristic function	No
type of value list setting current (Ir) / for L-tripping / with I2t characteristic	St
reference value setting current (Ir) / for L-tripping / with I2t characteristic	x In
set values setting current (Ir) / for L-tripping / with I2t characteristic	0.8;0.9;1
adjustable response factor setting current (Ir) / for L- tripping / with I2t characteristic / minimum	0.8
adjustable response factor setting current (Ir) / for L- tripping / with I2t characteristic / maximum	1
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / minimum	64 A
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum type of value list delay time (tr) / for L-tripping / with I2t	80 A Fest
characteristic reference value delay time (tr) / for L-tripping / with I2t	
characteristic set values delay time (tr) / for L-tripping / with 12t	s 1
characteristic adjustable response value delay time (tr) / for L-tripping /	1 1 s
adjustable response value delay time (tr) / for L-tripping / adjustable response value delay time (tr) / for L-tripping /	1 s
with I2t characteristic / maximum product feature / for S-tripping / independent of direction /	No
selectable characteristic function product feature / for I-tripping / can be switched on/off	No
design of I-trip / adjustable	Yes
reference value setting current (li) / for I-tripping	x In
set values setting current (li) / for I-tripping	5;6;7;8;9;10
adjustable response factor setting current (li) / for l- tripping / minimum	5
adjustable response factor setting current (li) / for l- tripping / maximum	10
adjustable response value setting current (li) / for I-tripping / minimum	400 A
adjustable response value setting current (li) / for I-tripping / maximum	800 A
product feature / for G-tripping / selectable characteristic function	No

product feature / with neutral conductor protection / can be switched on/off	No
product feature / with neutral conductor protection /	Yes
adjustable type of value list setting current (InN) / for N-tripping	St
reference value setting current (InN) / for N-tripping	x In
adjustable absolute value setting current (InN) / for N- tripping / minimum	0 A
adjustable absolute value setting current (InN) / for N- tripping / maximum	0 A
tripping characteristic / of the lower tolerance band	AK_3VA5_1_80A_TM2_SuMuH_uT
tripping characteristic / of the upper tolerance band	AK_3VA5_1_80A_TM2_SuMuH_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_80A_TM_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_80A_TM_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_80A_TM_line u starter_3u4p_690V
type of value list setting current (li) / for I-tripping	St St
tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA5_1_80A_TM_line u starter_3u4p_240V
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_80A_TM_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_80A_TM_line u starter_3u4p_690V
Adjustable response value current / lg min.	56 A
adjustable current response value current / of the current-	80 A
dependent overload release / full-scale value	
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
product component	
 undervoltage release 	No
 voltage trigger 	No
 trip indicator 	No
height [in]	5.51 in
Height	140 mm
width [in]	3 in
Type of connectable conductor cross-section, round conductor terminal, stranded	1 x (8 AWG - 3/0)
Width	76.2 mm
depth [in]	3.01 in
depth	76.5 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit Auxiliary circuit	circular conductor terminal on both sides
	0
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	Yes
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
 during operation / minimum 	-25 °C
 during operation / maximum 	70 °C
 during storage / minimum 	-40 °C
during storage / maximum	80 °C
Certificates	
reference code / according to IEC 81346-2	Q
General Product Approval	
<u>Confirmation</u>	Miscellaneous
(CCC) (U _L)	
	UL VUE

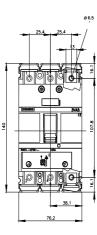


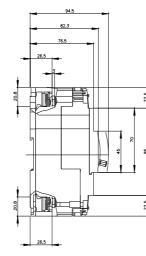
Further information

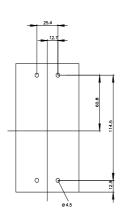
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5180-4EF36-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5180-4EF36-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5180-4EF36-0AA0 CAx-Online-Generator http://www.siemens.com/cax

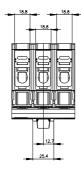
Tender specifications

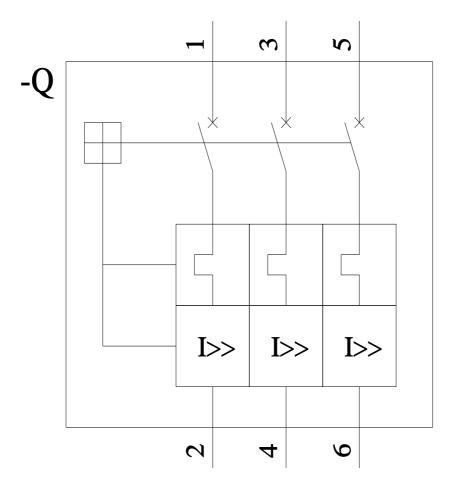
http://www.siemens.com/specifications

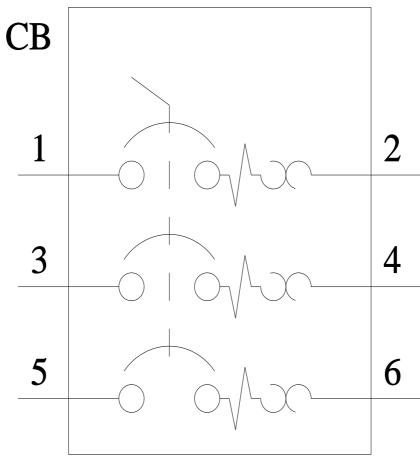












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