



molded case switch 3VA6 UL frame 600 max. sh-circ breaking capacity 100kA @ 480V 3-pole, line protection MCS110, $I_n=600A$ without overload protection self-protection $I_i=9 \times I_n$ without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CLAE
Product version	Molded case switch
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	MCS110
protection function of the overcurrent release	I
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	151 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	50.33 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	4 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	3 500
electrical endurance (switching cycles) / at 480 V	4 000
electrical endurance (switching cycles) / at 600 V	3 500
Neutral conductors / upgradeable/retrofitable	No
ground-fault monitoring version	without
product function	
• communication function	No
• other measurement function	No
Net Weight	5.3 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	600 A
• at 45 °C	600 A
• at 50 °C	593 A
• at 55 °C	540 A
• at 60 °C	510 A
• at 65 °C	480 A
• at 70 °C	450 A
Adjustable parameters	
product feature / for L-tripping / selectable characteristic	No

function	
product feature / for S-tripping / independent of direction / selectable characteristic function	No
product feature / for I-tripping / can be switched on/off	No
design of I-trip / adjustable	No
reference value setting current (Ii) / for I-tripping	x In
set values setting current (Ii) / for I-tripping	9
adjustable response factor setting current (Ii) / for I-tripping / minimum	9
adjustable response factor setting current (Ii) / for I-tripping / maximum	9
adjustable response value setting current (Ii) / for I-tripping / minimum	5 400 A
adjustable response value setting current (Ii) / for I-tripping / maximum	5 400 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 / adjustable	Yes
reference value setting current (InN) / for N-tripping	x In
tripping characteristic / of the upper tolerance band	AK_3VA6_4_600A_MCS110_MuHuCuL_oT
let-through energy characteristic / at 240 V	DE_3VA6_3u4_600A_ETUuMCS110_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA6_3u4_600A_ETUuMCS110_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA6_3u4_600A_ETUuMCS110_line u starter_3u4p_690V
type of value list setting current (Ii) / for I-tripping	Fest
tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA6_3u4_600A_ETUuMCS110_line u starter_3u4p_240V
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA6_3u4_600A_ETUuMCS110_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA6_3u4_600A_ETUuMCS110_line u starter_3u4p_690V
adjustable current response value current / of instantaneous short-circuit trip unit / minimum	5 400 A
Adjustable response value current / Ii max.	5 400 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No

Mechanical Design

product component	
• undervoltage release	No
• voltage trigger	No
• trip indicator	No
height [in]	9.76 in
Height	248 mm
width [in]	5.43 in
Width	138 mm
depth [in]	4.33 in
depth	110 mm

Connections

arrangement of electrical connectors / for main current circuit	Without connection
type of electrical connection / for main current circuit	Without

Auxiliary circuit

number of CO contacts / for auxiliary contacts	0
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Accessories

product extension / optional / motor drive	Yes
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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
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certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB

Yes

General Product Approval



[Confirmation](#)



[Miscellaneous](#)

General Product Approval

EMC

Declaration of Conformity

Marine / Shipping



EG-Konf.



ABS



DNV

other

[Miscellaneous](#)

[Miscellaneous](#)

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=3VA6460-1BB31-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA6460-1BB31-0AA0>

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

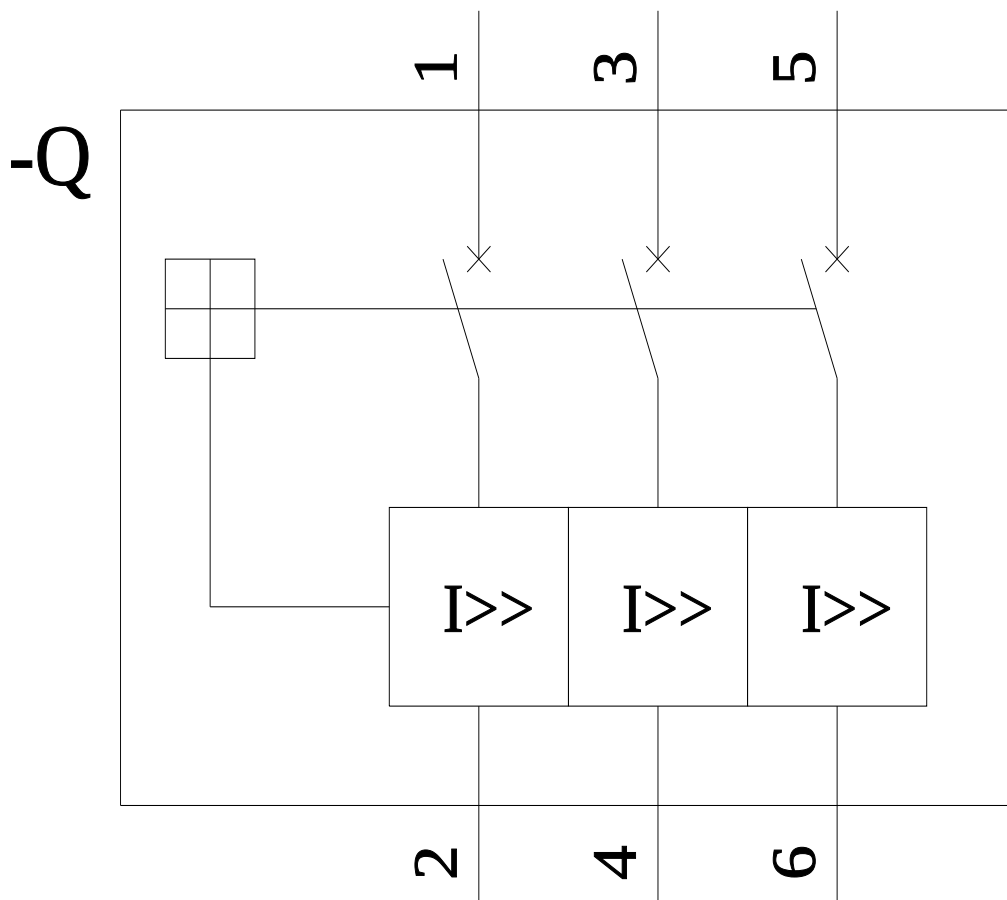
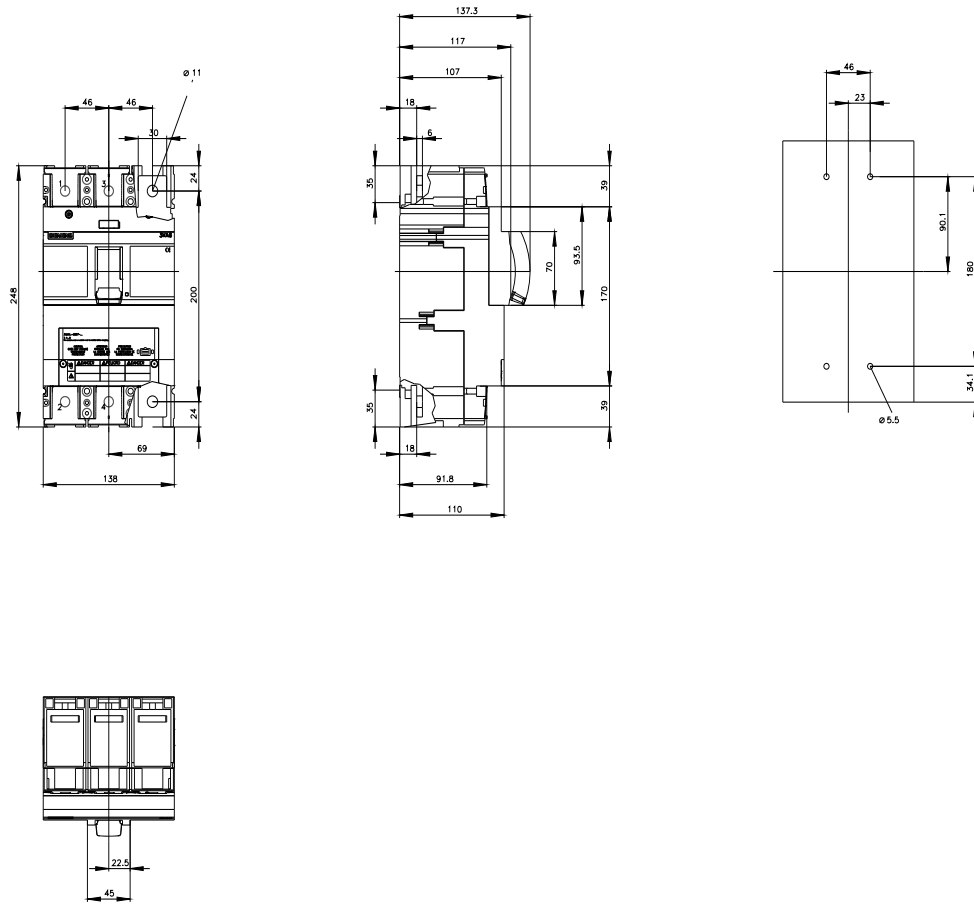
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6460-1BB31-0AA0

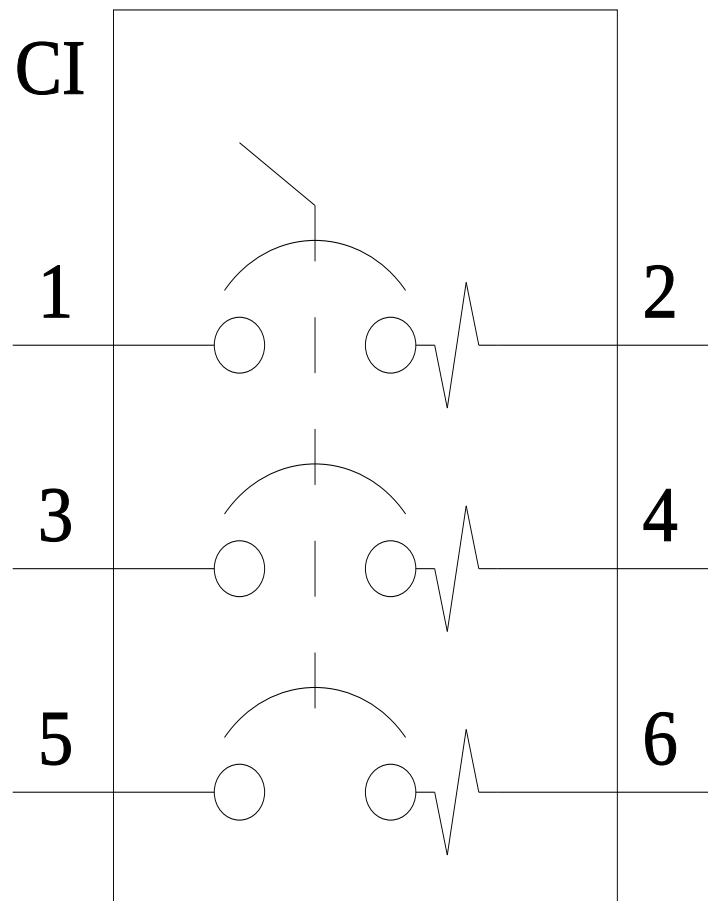
CAX-Online-Generator

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

Tender specifications

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





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