



CIRCUIT BREAKER 3VA5 UL Frame 400 BREAKING CAPACITY CLASS
H 65kA @ 480 V 4POLE, LINE PROTECTION TM240, ATAM, In=400A
OVERLOAD PROTECTION IR=280A ...400A SHORT CIRCUIT
PROTECTION Ii=5...10 x In NEUTRAL PROTECTION 100% W/O
CONNECTION

Model

product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HJAS
Product version	System protection
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 / High-Intensity-Discharge circuit breaker (HID Type)	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	LI
number of poles	4

General technical data

insulation voltage / rated value	800 V
Max. rated operational voltage Ue with DC	600 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	92 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	30.73 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	6 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	3 000
electrical endurance (switching cycles) / at 480 V	6 000
electrical endurance (switching cycles) / at 600 V	3 000
Neutral conductors / upgradeable/retrofitable	No
product function	
• communication function	No
• other measurement function	No
Net Weight	6.82 kg

Current

marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	400 A
• at 45 °C	392 A
• at 50 °C	384 A
• at 55 °C	375 A
• at 60 °C	367 A
• at 65 °C	359 A

• at 70 °C	351 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	H
breaking capacity maximum short-circuit current (I _{cu})	
• at 240 V	100 kA
• at 415 V	70 kA
• at 690 V	10 kA
breaking capacity operating short-circuit current (I _{cs})	
• at 240 V	100 kA
• at 415 V	70 kA
• at 690 V	6 kA
short-circuit current making capacity (I _{cm})	
• at 240 V	220 kA
• at 415 V	154 kA
• at 690 V	17 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	100 kA
• at 480 V	65 kA
• at 600 V	25 kA
Adjustable parameters	
adjustable response value setting current (I _r) / of the L-trip / with I2t characteristic / minimum	320 A
adjustable response value setting current (I _r) / of the L-trip / with I2t characteristic / maximum	400 A
adjustable response value delay time (t _r) / for L-tripping / with I2t characteristic / minimum	1 s
adjustable response value delay time (t _r) / for L-tripping / with I2t characteristic / maximum	1 s
adjustable response value setting current (I _i) / for I-tripping / minimum	2 000 A
adjustable response value setting current (I _i) / for I-tripping / maximum	4 000 A
adjustable absolute value setting current (I _{nN}) / for N-tripping / minimum	400 A
adjustable absolute value setting current (I _{nN}) / for N-tripping / maximum	400 A
Adjustable response value current / I _g min.	280 A
adjustable current response value current / of the current-dependent overload release / full-scale value	400 A
design of the N-conductor protection	100%
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]	7.24 in
Width	184 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
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
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	No

General Product Approval



[Confirmation](#)



General Product Approval

EMC

Declaration of Conformity

Marine / Shipping

[Miscellaneous](#)



Marine / Shipping

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=3VA5340-6GF41-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5340-6GF41-0AA0>

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

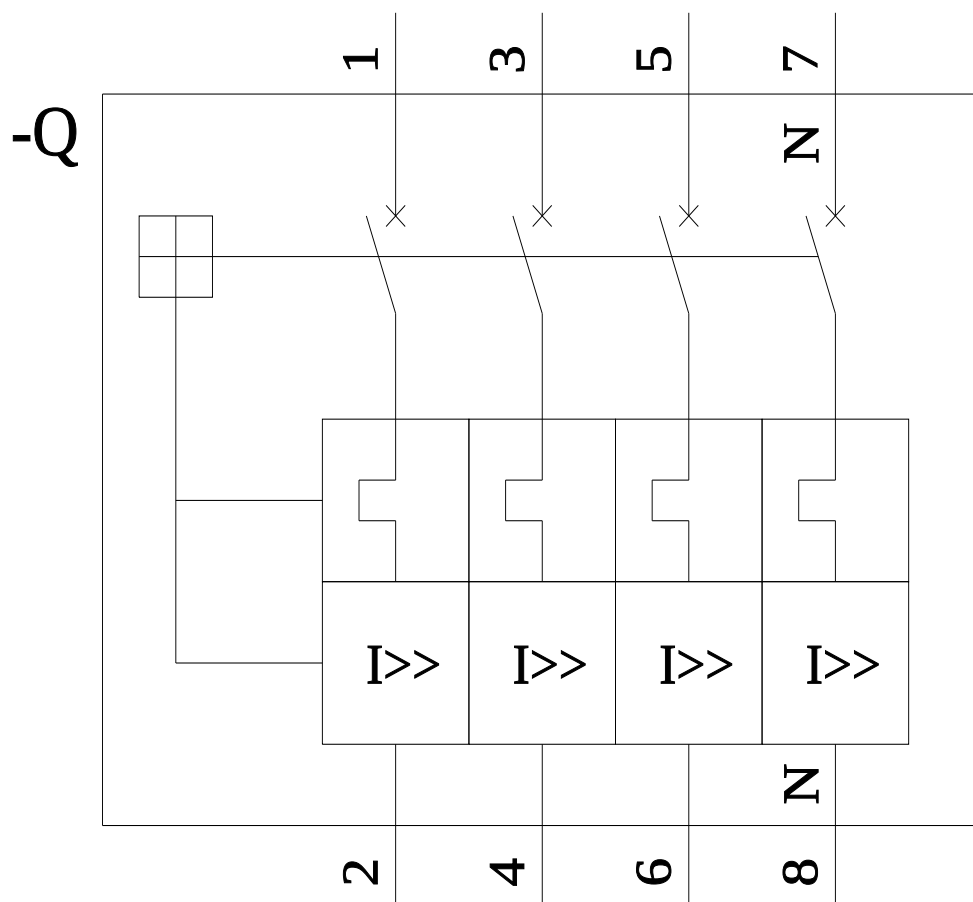
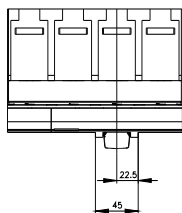
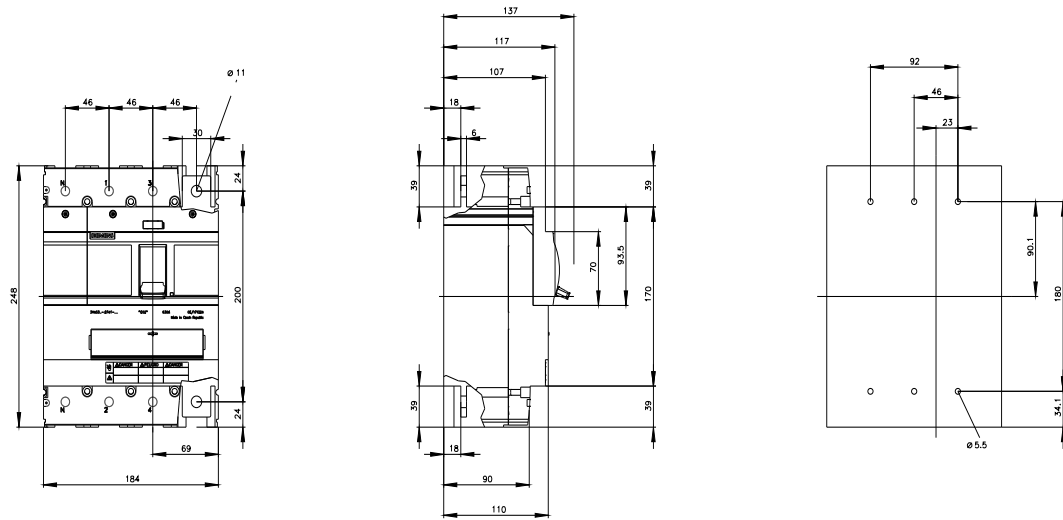
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5340-6GF41-0AA0

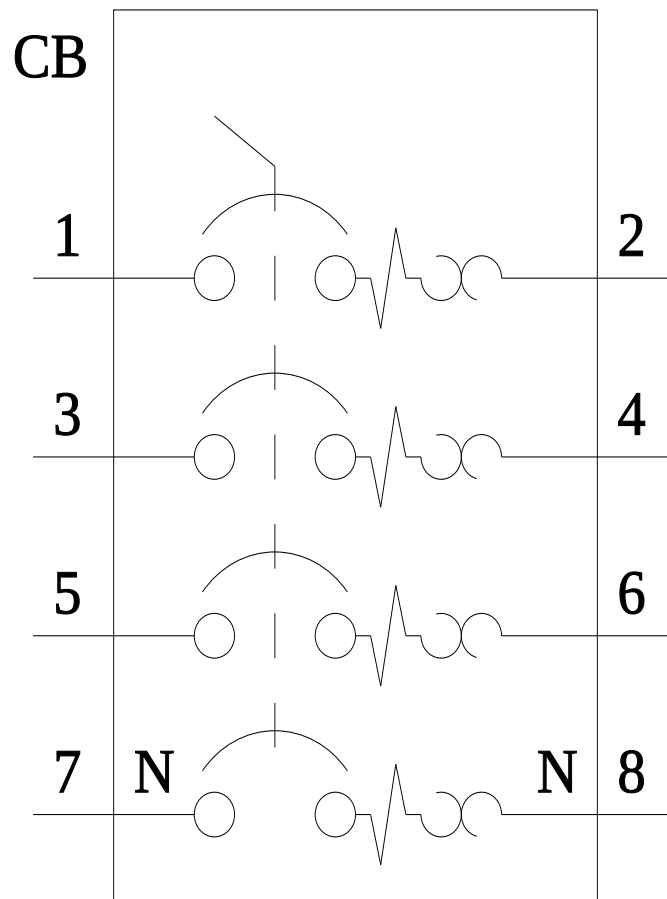
CAX-Online-Generator

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

Tender specifications

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





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