SIEMENS

Data sheet 3VA5195-1MH36-0AA0

circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=15A without overload protection short-circuit protection Ii=5...12 x In cable connection on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAP
Product version	Starter 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	TM120M
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	2.2 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	0.73 W
mechanical service life (switching cycles) / typical	20 000
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 V 50/60 Hz	4 000
electrical endurance (switching cycles) / at 480 V	8 000
electrical endurance (switching cycles) / at 600 V	4 000
Neutral conductors / upgradeable/retrofittable	No
ground-fault monitoring version	without
product function	
● communication function	No
● phase failure detection	No
● other measurement function	No
Net Weight	1.017 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
● at 40 °C	15 A
● at 45 °C	15 A
● at 50 °C	15 A
● at 55 °C	15 A
● at 60 °C	15 A

● at 65 °C	15 A
● at 70 °C	15 A
Switching capacity according to IEC 60947	
breaking capacity maximum short-circuit current (Icu)	
● at 240 V	150 kA
● at 415 V	70 kA
● at 690 V	10 kA
breaking capacity operating short-circuit current (Ics)	
● at 240 V	150 kA
● at 415 V	70 kA
● at 690 V	5 kA
short-circuit current making capacity (Icm)	
● at 240 V	330 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
Adjustable parameters	
product feature / for L-tripping / selectable characteristic function	No
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	Yes
reference value setting current (Ii) / for I-tripping	x In
set values setting current (Ii) / for I-tripping	5;6;7;8;9;10;11;12
adjustable response factor setting current (Ii) / for I-tripping / minimum	5
adjustable response factor setting current (Ii) / for I-tripping / maximum	12
adjustable response value setting current (Ii) / for I-tripping / minimum	75 A
adjustable response value setting current (Ii) / for I-tripping / maximum	180 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
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 upper tolerance band	AK_3VA5_1_15A_TM120M1_H_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_15A_TM_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_15A_TM_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_15A_TM_line u starter_3u4p_690V
type of value list setting current (Ii) / for I-tripping	St
tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA5_1_15A_TM_line u starter_3u4p_240V
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_15A_TM_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_15A_TM_line u starter_3u4p_690V
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

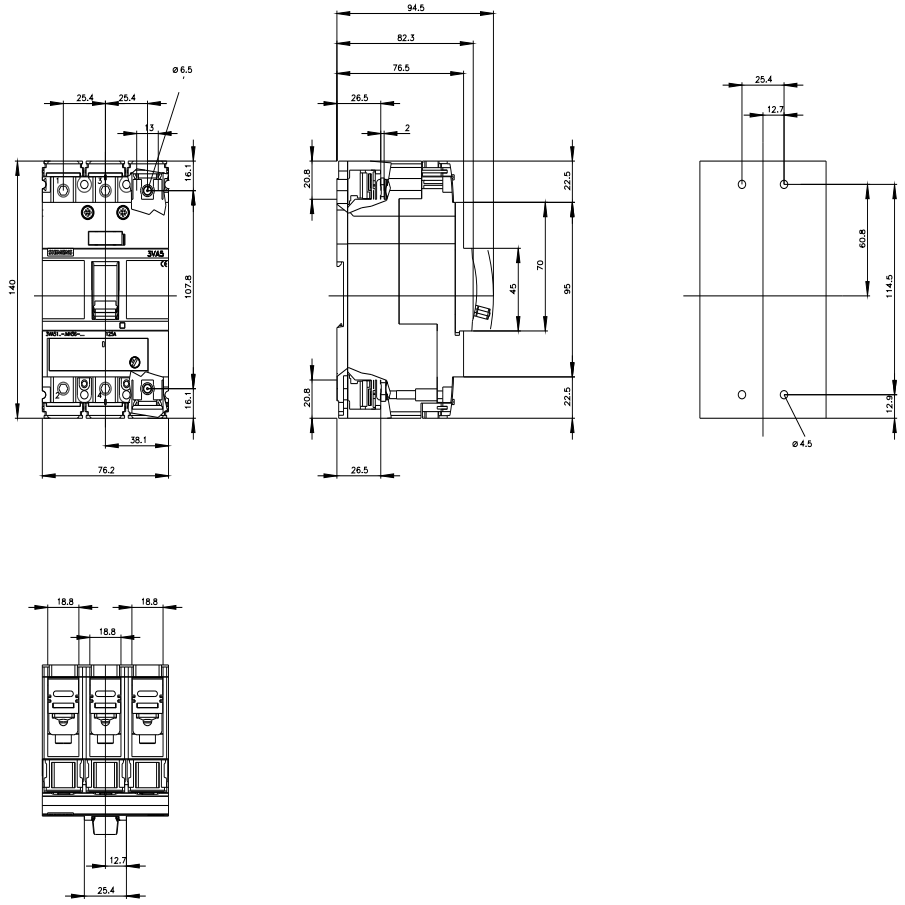
width [in]	3 in
Type of connectable conductor cross-section, round conductor terminal, stranded	1 x (14 AWG - 8 AWG)
Width	76.2 mm
depth [in]	3.01 in
depth	76.5 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	circular conductor terminal on both sides
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	Yes

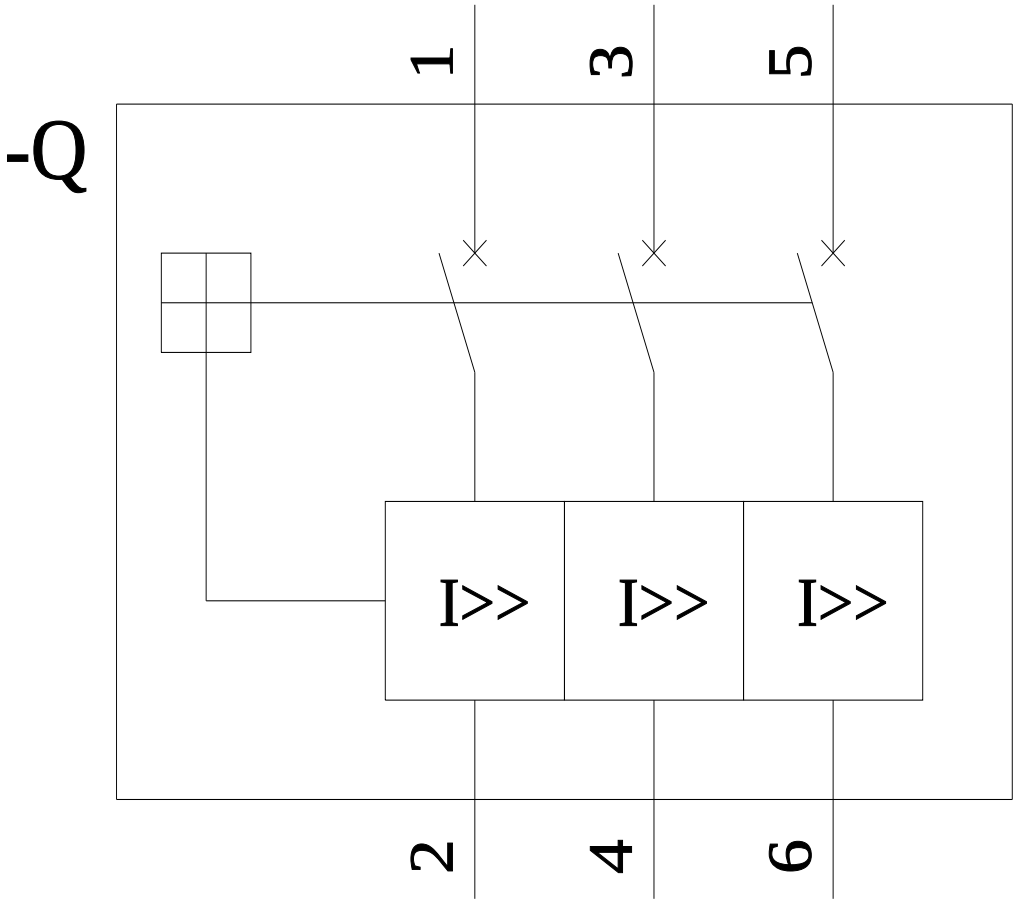
General Product Approval		EMC	Declaration of Conformity	
CCC	Confirmation Miscellaneous	RCM	UK CA	CE EG-Konf.

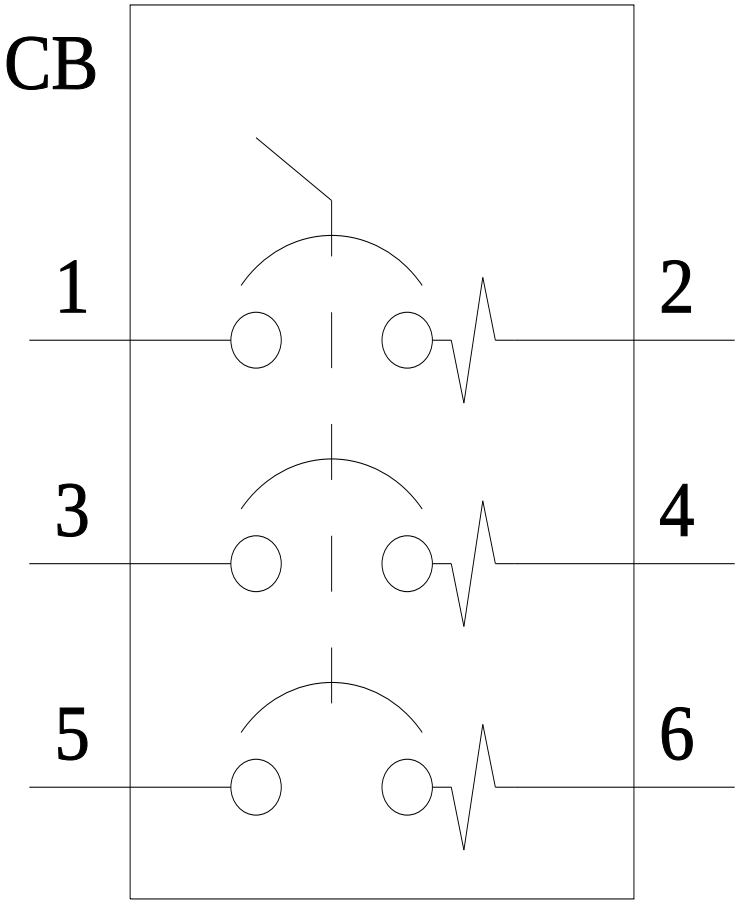
Marine / Shipping	other
ABS	Miscellaneous

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=3VA5195-1MH36-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA5195-1MH36-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5195-1MH36-0AA0
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications







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