



circuit breaker 3VA5 UL frame 125 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM210, FTFM, In=25A overload protection Ir=25A fixed short-circuit protection li=12 x In UL489 SB (naval), 50 deg. cel. cable connection on both sides

Model

product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MEAM
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)	Yes
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No
design of the overcurrent release	TM210
protection function of the overcurrent release	LI
number of poles	3

General technical data

operating voltage / at AC / rated value	690 V
power loss [W] / maximum	8.6 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	2.87 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/retrofitable	No
ground-fault monitoring version	without
product function	
• communication function	No
• other measurement function	No
Net Weight	0.934 kg

Current

marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	25 A
• at 45 °C	24 A
• at 50 °C	24 A
• at 55 °C	23 A
• at 60 °C	23 A
• at 65 °C	23 A
• at 70 °C	22 A

Switching capacity according to IEC 60947

switching capacity class of the circuit breaker	M
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	85 kA
• at 480 V	35 kA
• at 600 Y/347 V	18 kA

Adjustable parameters

product feature / for L-tripping / selectable characteristic function	No
type of value list setting current (I _r) / for L-tripping / with I _{2t} characteristic	Fest
reference value setting current (I _r) / for L-tripping / with I _{2t} characteristic	x I _n
set values setting current (I _r) / for L-tripping / with I _{2t} characteristic	1
adjustable response factor setting current (I _r) / for L-tripping / with I _{2t} characteristic / minimum	1
adjustable response factor setting current (I _r) / for L-tripping / with I _{2t} characteristic / maximum	1
adjustable response value setting current (I _r) / of the L-trip / with I _{2t} characteristic / minimum	25 A
adjustable response value setting current (I _r) / of the L-trip / with I _{2t} characteristic / maximum	25 A
type of value list delay time (t _r) / for L-tripping / with I _{2t} characteristic	Fest
reference value delay time (t _r) / for L-tripping / with I _{2t} characteristic	s
set values delay time (t _r) / for L-tripping / with I _{2t} characteristic	1
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic / minimum	1 s
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic / maximum	1 s
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 (I _i) / for I-tripping	x I _n
set values setting current (I _i) / for I-tripping	12
adjustable response factor setting current (I _i) / for I-tripping / minimum	12
adjustable response factor setting current (I _i) / for I-tripping / maximum	12
adjustable response value setting current (I _i) / for I-tripping / minimum	300 A
adjustable response value setting current (I _i) / for I-tripping / maximum	300 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 (I _{nN}) / for N-tripping	St
reference value setting current (I _{nN}) / for N-tripping	x I _n
adjustable absolute value setting current (I _{nN}) / for N-tripping / minimum	0 A
adjustable absolute value setting current (I _{nN}) / for N-tripping / maximum	0 A
tripping characteristic / of the lower tolerance band	AK_3VA5_1_25A_TM2_SuMuH_uT
tripping characteristic / of the upper tolerance band	AK_3VA5_1_25A_TM2_SuMuH_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_25A_TM_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_25A_TM_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_25A_TM_line u starter_3u4p_690V

type of value list setting current (li) / for I-tripping	Fest
tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA5_1_25A_TM_line u starter_3u4p_240V
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_25A_TM_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_25A_TM_line u starter_3u4p_690V
Adjustable response value current / I _g min.	25 A
adjustable current response value current / of the current-dependent overload release / full-scale value	25 A
Ground fault protection / tripping switchable / I _{2t} =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	circular conductor terminal on both sides

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

certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes
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General Product Approval



[Confirmation](#)



[Miscellaneous](#)

EMC	Declaration of Conformity	Marine / Shipping
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Marine / Shipping	other
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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalog>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5125-5ED36-1AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5125-5ED36-1AA0>

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

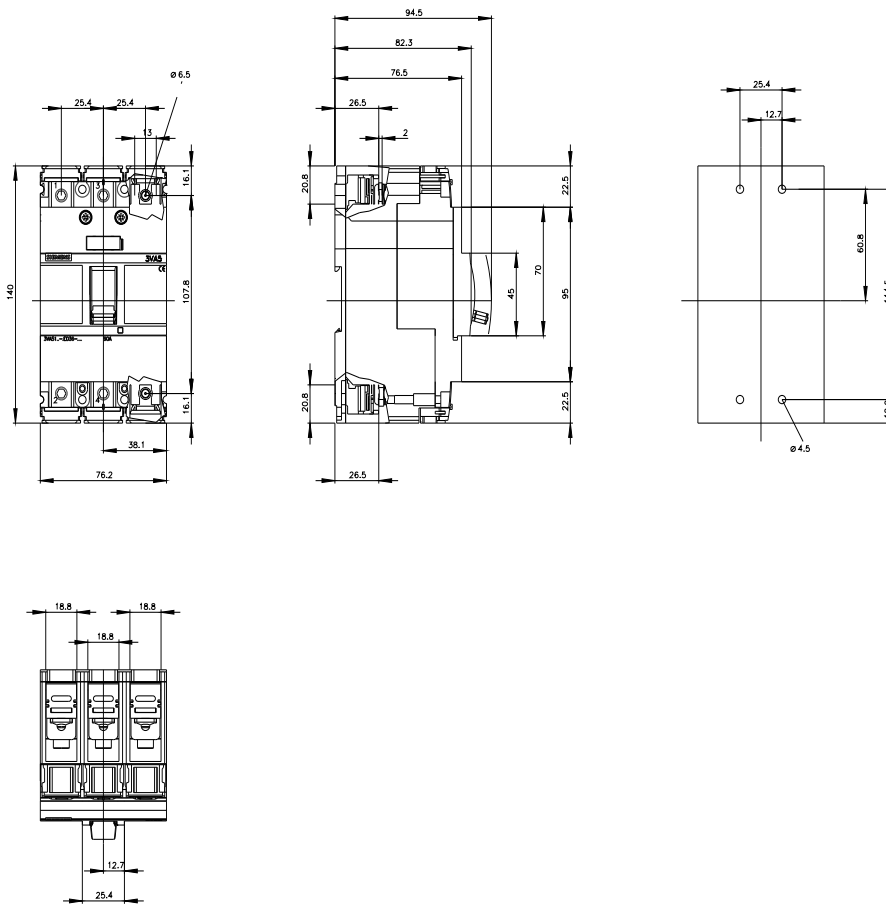
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5125-5ED36-1AA0

CAX-Online-Generator

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

Tender specifications

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





last modified:

7/14/2022

