## **SIEMENS**

## **Data sheet**

Model

## 3VA5140-6ED36-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM210, FTFM, In=40A overload protection Ir=40A fixed short-circuit protection Ii=10 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	HEAM
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	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	11.2 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	3.73 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	
<ul> <li>communication function</li> </ul>	No
<ul> <li>other measurement function</li> </ul>	No
Net Weight	0.934 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	40 A
• at 45 °C	39 A
• at 50 °C	39 A
• at 55 °C	38 A
• at 60 °C	37 A
• at 65 °C	37 A
● at 70 °C	36 A

Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Н
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
witching capacity according to UL 489	
breaking capacity current	
• at 240 V	150 kA
● at 480 V	65 kA
<ul> <li>at 600 Y/347 V</li> </ul>	25 kA
djustable parameters	
product feature / for L-tripping / selectable characteristic function	No
type of value list setting current (Ir) / for L-tripping / with I2t characteristic	Fest
reference value setting current (Ir) / for L-tripping / with I2t characteristic	x In
set values setting current (Ir) / for L-tripping / with I2t characteristic	1
adjustable response factor setting current (Ir) / for L-tripping / with I2t characteristic / minimum	1
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	40 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	40 A Fest
characteristic reference value delay time (tr) / for L-tripping / with I2t	s S
characteristic set values delay time (tr) / for L-tripping / with I2t	1
characteristic adjustable response value delay time (tr) / for L-tripping /	1 s
with I2t characteristic / minimum 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 No
design of I-trip / adjustable	No v. In
reference value setting current (li) / for I-tripping	x In
set values setting current (li) / for I-tripping adjustable response factor setting current (li) / for I- tripping / minimum	10 10
adjustable response factor setting current (li) / for l- tripping / maximum	10
adjustable response value setting current (li) / for l-tripping / minimum	400 A
adjustable response value setting current (li) / for l-tripping / maximum	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
type of value list setting current (InN) / for N-tripping	St
reference value setting current (InN) / for N-tripping adjustable absolute value setting current (InN) / for N-	x In 0 A
tripping / minimum  adjustable absolute value setting current (InN) / for N-	0 A
tripping / maximum tripping characteristic / of the lower tolerance band	AK_3VA5_1_40A_TM2_SuMuH_uT
tripping characteristic / of the lower tolerance band tripping characteristic / of the upper tolerance band	AK_3VA5_1_40A_TM2_SuMuH_uT AK_3VA5_1_40A_TM2_SuMuH_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_40A_TM_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_40A_TM_line u starter_3u4p_240V DE_3VA5_1_40A_TM_line u starter_3u4p_415V
let-through energy characteristic / at 413 V	DE_3VA5_1_40A_TM_line u starter_3u4p_690V

type of value list setting current (li) / for I-tripping Fest tripping characteristic / of the let-through current DS\_3VA5\_1\_40A\_TM\_line u starter\_3u4p\_240V characteristic / at 240 V tripping characteristic / of the let-through current DS\_3VA5\_1\_40A\_TM\_line u starter\_3u4p\_415V characteristic / at 415 V DS\_3VA5\_1\_40A\_TM\_line u starter\_3u4p\_690V tripping characteristic / of the let-through current characteristic / at 690 V Adjustable response value current / lg min. 28 A adjustable current response value current / of the current-40 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 5.51 in height [in] Height 140 mm width [in] 3 in 1 x (8 AWG - 3/0) Type of connectable conductor cross-section, round conductor terminal, stranded 76.2 mm Width depth [in] 3.01 in depth 76.5 mm arrangement of electrical connectors / for main current Front connection circuit 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** IP40 protection class IP / on the front ambient temperature • during operation / minimum -25 °C • during operation / maximum 70 °C -40 °C • during storage / minimum • during storage / maximum 80 °C certificate of suitability / as approval for NAVAL (no Yes combat vessels) / supplement SB



**General Product Approval** 

Confirmation







**Miscellaneous** 

EMC Declaration of Conformity Marine / Shipping













Marine / Shipping other





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=3VA5140-6ED36-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5140-6ED36-1AA0

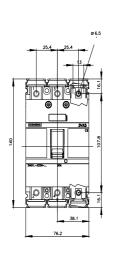
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5140-6ED36-1AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5140-6ED36-1AA0</a>

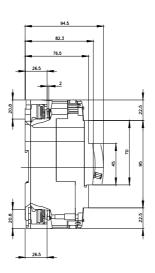
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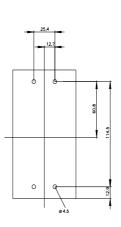
http://www.siemens.com/cax

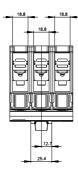
**Tender specifications** 

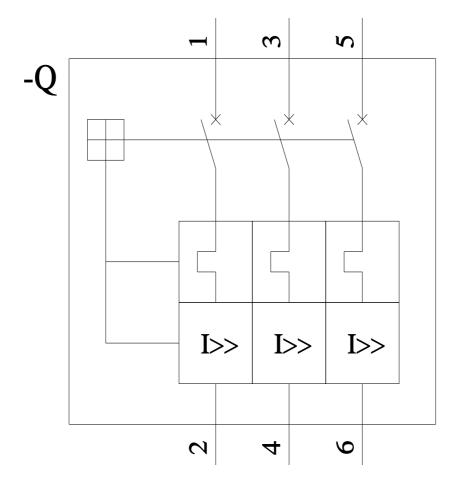
http://www.siemens.com/specifications

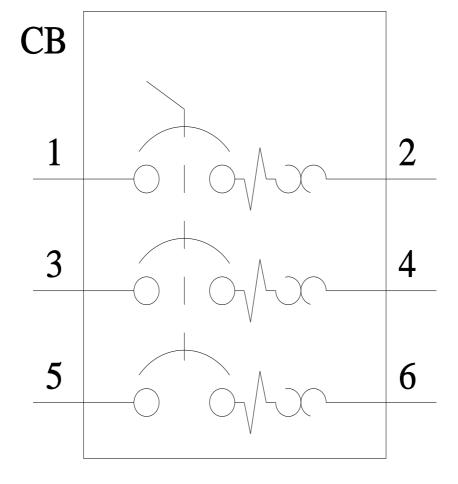












last modified: 7/15/2022 🖸