SIEMENS

Data sheet

3VA5145-6EC36-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM230, FTAM, In=45A overload protection Ir=45A fixed short-circuit protection Ii=5...10 x In cable connection on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAS
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	TM230
protection function of the overcurrent release	LI
number of poles	3
General technical data	
insulation voltage / rated value	800 V
Max. rated operational voltage Ue with DC	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	11.4 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	3.8 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
 other measurement function 	No
Net Weight	1.034 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	45 A
• at 45 °C	44 A
● at 50 °C	44 A
● at 55 °C	43 A
● at 60 °C	42 A

105.00	40.4
at 65 °C at 70 °C	42 A 41 A
• at 70 °C Switching capacity according to IEC 60947	41 A
switching capacity class of the circuit breaker	Н
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 (lcs)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	5 kA
short-circuit current making capacity (lcm)	000 1-4
at 240 V at 415 V	330 kA 154 kA
• at 690 V	17 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case
accign of chort and protection	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	150 kA
• at 480 V	65 kA
• at 600 Y/347 V	25 kA
Adjustable parameters	Na
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	45 A
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum	45 A
type of value list delay time (tr) / for L-tripping / with I2t characteristic	Fest
reference value delay time (tr) / for L-tripping / with I2t characteristic	S
set values delay time (tr) / for L-tripping / with l2t characteristic	1
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic / minimum	1 s
adjustable response value delay time (tr) / for L-tripping / with 12t 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	Yes
reference value setting current (li) / for I-tripping	x In
set values setting current (li) / for I-tripping	5;6;7;8;9;10
adjustable response factor setting current (li) / for l-tripping / minimum	5
adjustable response factor setting current (li) / for l-tripping / maximum	10
adjustable response value setting current (li) / for l-tripping / minimum	225 A
adjustable response value setting current (li) / for I-tripping / maximum	450 A
product feature / for G-tripping / selectable characteristic function	No

product component • undervoltage release • voltage trigger • trip indicator No height [in] Height 140 mm width [in] Type of connectable conductor cross-section, round conductor terminal, stranded Width (in] Type of connectable conductor cross-section, round conductor terminal, stranded Width (in] Total (in) Type of connectable conductor cross-section, round conductor terminal, stranded Width (in) Total		
product feature / with neutral conductor protection / adjustable upon of value list setting current (InN) / for N-tripping adjustable estender setting current (InN) / for N-tripping / adjustable estender value setting current (InN) / for N-tripping / adjustable estender value setting current (InN) / for N-tripping / maintimum value setting current (InN) / for N-tripping / maintimum value setting current (InN) / for N-tripping / maintimum value setting current (InN) / for N-tripping / maintimum value setting current (InN) / for N-tripping / maintimum value setting current (InN) / for N-tripping / maintimum value setting current (InN) / for N-tripping / setting value setting current (InN) / for N-tripping / setting value setting current (InN) / for N-tripping / setting value setting current (InN) / for N-tripping value setting value setting current (InN) / for N-tripping value setting value setting current (InN) / for N-tripping value setting value setting current (InN) / for N-tripping value setting value setting value valu	·	No
spe of value list setting current (InN) / for N-tripping reference value setting current (InN) / for N-tripping adjustable absolute value setting current (InN) / for N-tripping profile in the setting current (InN) / for N-tripping profile in the setting current (InN) / for N-tripping profile in the setting current (InN) / for N-tripping profile in the setting current (InN) / for N-tripping characteristic / of the lower tolerance band tripping characteristic / of the lower tolerance band tripping characteristic / of the upper folerance band tripping characteristic / of the tolerance band tripping characteristic / of the tolerance band tripping characteristic / of the terry or harderistic / at 240 V DE_3VA5_1.45A_TM2_SuNMiH_oT T	product feature / with neutral conductor protection /	Yes
reference value setting current (InN) / for N-tripping adjustable shabuble value setting current (InN) / for N-tripping / minimum adjustable shabuble value setting current (InN) / for N-tripping / maximum vitripping characteristic / of the lower tolerance band tripping characteristic / of the lower tolerance band tripping characteristic / of the lower tolerance band AK_3VA5_1_45A_TM2_SuMuH_uT tripping characteristic / of the lower tolerance band AK_3VA5_1_45A_TM3_Inie u starter_3u4p_240V [elet-through energy characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_415V [elet-through energy characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_680V V type of value list setting current (In) / for I-tripping stropping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (Inping characteristic / at 415 V DE_3VA5_1_45A_TM3_line u starter_3u4p_240V (In	•	St
adjustable absolute value setting current (InN) / for N-tripping / minimum adjustable absolute value setting current (InN) / for N-tripping / maximum tripping characteristic / of the lower tolerance band tripping characteristic / of the lower tolerance band set-through energy characteristic / at 240 V step of value list setting current (In) / for I-tripping tripping characteristic / at 80 V step of value list setting current (In) / for I-tripping tripping characteristic / at 80 V step of value list setting current (In) / for I-tripping tripping characteristic / at 240 V step of value list setting current (In) / for I-tripping tripping characteristic / at 240 V step of value list setting current (In) / for I-tripping tripping characteristic / at 240 V step of value list setting current (In) / for I-tripping tripping characteristic / at 240 V step of value list setting current (In) / for I-tripping tripping characteristic / at 240 V step of value list setting current (In) / for I-tripping tripping characteristic / at 240 V step of value list setting current (In) / for I-tripping tripping characteristic / at 240 V step of value list setting current (In) / for I-tripping tripping characteristic / at 240 V step of value list setting current (In) / for I-tripping tripping characteristic / at 240 V step of value list setting current (In) / for setting value v		
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type of value list setting current (li) / for I-tripping St tripping characteristic / of the let-through current / of the current-dependent overfoad release / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value (and in the current-dependent overfoad release) / full-scale value	let-through energy characteristic / at 415 V	DE_3VA5_1_45A_TM_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 240 V virula content variable value content variable content variable content variable content variable v	let-through energy characteristic / at 690 V	DE_3VA5_1_45A_TM_line u starter_3u4p_690V
characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 490 V tripping characteristic / of the let-through current characteristic / at 690 V Adjustable response value current / of the current dependent overload release / full-scale value Ground fault protection / tripping switchable / I2t=ON/OFF No Mochanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] Height 140 mm width [in] Height 140 mm width [in] 5.51 in Height [in] Height 140 mm width [in] 76.2 mm depth [in] depth 76.5 mm Connectable conductor cross-section, round conductor terminal, stranded Width depth 76.5 mm Connectons arrangement of electrical connectors / for main current circuit runnber of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during storage / minimum • during storag	type of value list setting current (li) / for I-tripping	St
characteristic / at 415 V tripping characteristic / at 690 V Adjustable response value current / lg min. adjustable current response value current / of the current-dependent overload release / full-scale value Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] Height width [in] 17 ye of connectable conductor cross-section, round conductor terminal, stranded Width Width Gepth Gepth Gepth Generation arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit current curren	11 0	DS_3VA5_1_45A_TM_line u starter_3u4p_240V
characteristic / at 690 V Adjustable response value current / lg min. adjustable current response value current / of the current-dependent overload release / full-scale value Ground fault protection / tripping switchable / I2t=ON/OFF No Mechanical Design product component • undervoltage release • voltage trigger • viting indicator No height [in] 140 mm width [in] 3 in 1 x (8 AWG - 3/0) connectable conductor cross-section, round conductor terminal, stranded Width 76.2 mm depth [in] 4.5 mm Connections arrangement of electrical connectors / for main current 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 Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during storage / minimum • during storage / maximum reference code / according to IEC 81346-2 Q		DS_3VA5_1_45A_TM_line u starter_3u4p_415V
adjustable current response value current / of the current-dependent overload release / full-scale value Ground fault protection / tripping switchable / I2t=ON/OFF No Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in]		DS_3VA5_1_45A_TM_line u starter_3u4p_690V
adjustable current response value current / of the current- dependent overload release / full-scale value Ground fault protection / tripping switchable / I2t=ON/OFF No Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in]	Adjustable response value current / lg min.	32 A
dependent overload release / full-scale value Ground fault protection / tripping switchable / I2t=ON/OFF No Machanical Design product component	adjustable current response value current / of the current-	45 A
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product component • undervoltage release • voltage trigger • trip indicator No height [in] Height 140 mm width [in] Type of connectable conductor cross-section, round conductor terminal, stranded Width (in] Type of connectable conductor cross-section, round conductor terminal, stranded Width (in] Total (in) Type of connectable conductor cross-section, round conductor terminal, stranded Width (in) Total	Ground fault protection / tripping switchable / I2t=ON/OFF	No
undervoltage release voltage trigger trip indicator No height [in] Height Heig	Mechanical Design	
voltage trigger trip indicator height [in] Height width [in] Type of connectable conductor cross-section, round conductor terminal, stranded Width (in] Type of connectable conductor cross-section, round conductor terminal, stranded Width depth 76.2 mm depth 76.5 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit circular conductor terminal on both sides Auxiliary circuit number of CO contacts / for auxiliary contacts Product extension / optional / motor drive Yes Environmental conditions protection class IP / on the front ambient temperature during operation / maximum	product component	
• trip indicator height [in] Height Width [in] Type of connectable conductor cross-section, round conductor terminal, stranded Width Width Gepth [in] 4.0 mm 4.0 mm 5.51 in 1.40 mm 1.40 mm	undervoltage release	No
height [in] Height Horm Horm Horm Horm Horm Horm Horm Horm	 voltage trigger 	No
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width [in] Type of connectable conductor cross-section, round conductor terminal, stranded Width Width To.2 mm depth [in] depth To.5 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit acreult number of CO contacts / for auxiliary contacts Auxillary circuit number of CO contacts / for number of contacts / for auxiliary contacts Product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature during operation / maximum during operation / maximum during storage / minimum during storage / minimum during storage / maximum efference code / according to IEC 81346-2 Q		140 mm
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Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Auxiliary circuit number of CO contacts / for auxiliary contacts Product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum • during storage / maximum	depth [in]	3.01 in
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Auxiliary circuit number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during operation / maximum • during storage / minimum • during storage / maximum	depth	76.5 mm
circuit type of electrical connection / for main current circuit Auxiliary circuit number of CO contacts / for auxiliary contacts product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum • Q	Connections	
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Auxiliary circuit number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front 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		circular conductor terminal on both sides
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front 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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product extension / optional / motor drive Environmental conditions protection class IP / on the front 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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ambient temperature • during operation / minimum • during operation / maximum 70 °C • during storage / minimum • during storage / maximum 80 °C Certificates reference code / according to IEC 81346-2 Q		IP40
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during storage / minimum during storage / maximum 80 °C Certificates reference code / according to IEC 81346-2 Q		
during storage / maximum 80 °C Certificates reference code / according to IEC 81346-2 Q	- · ·	
Certificates reference code / according to IEC 81346-2 Q		
reference code / according to IEC 81346-2 Q		
		0
		<u> </u>
General Product Approval	General Product Approval	



Confirmation







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=3VA5145-6EC36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5145-6EC36-0AA0

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

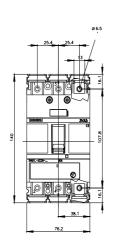
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5145-6EC36-0AA0

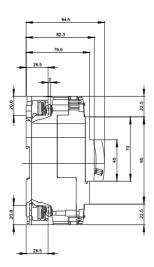
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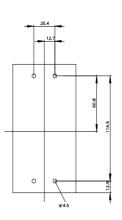
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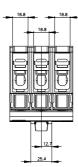
Tender specifications

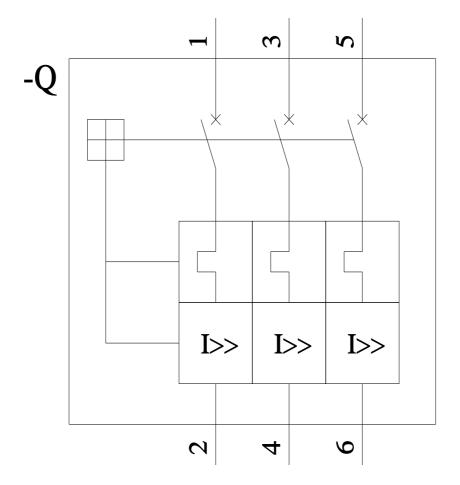
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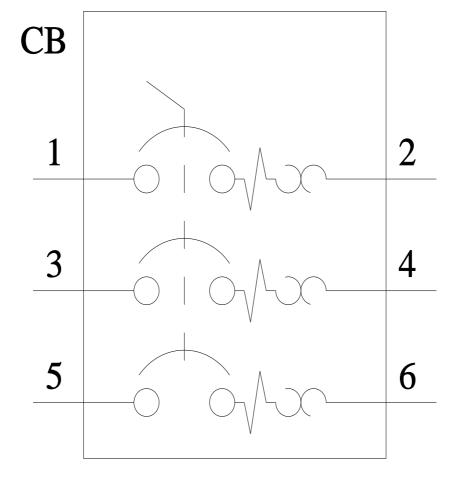












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