## SIEMENS

## Data sheet

## 3VA5340-7EF41-2AA0



circuit breaker 3VA5 UL frame 400 breaking capacity class C 100kA @ 480 V 4-pole, line protection TM240, ATAM, In=400A overload protection Ir=280A ...400A short circuit protection Ii=5...10 x In neutral unprotected w/o connection

Model	
product designation / according to UL file	CJAS
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
operating voltage / at DC / rated value	600 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	92 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	30.73 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 000
electrical endurance (operating cycles) / at 480 V	6 000
electrical endurance (operating cycles) / at 600 V	3 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
product function	
<ul> <li>communication function</li> </ul>	No
other measurement function	No
Net Weight	6 820 g
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
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	C
maximum short-circuit current breaking capacity (Icu)	

• at 690 V     10 kA       operating short-circuit current breaking capacity (ics)     4200 kA       • at 240 V     200 kA       • at 690 V     6 kA       short-circuit current making capacity (icm)     410 kA       • at 240 V     440 kA       • at 415 V     242 kA       • at 690 V     7 KA       • at 800 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     200 kA       current breaking capacity     200 kA       • at 240 V     200 kA       • at 680 V     100 kA       • at 640 V     200 kA       • at 640 V     200 kA       • at 640 V     35 kA       Adjustable parameters     320 A       adjustable response value setting current (Ir) / of the L-trip / with 12t characteristic       • ininimum     320 A       • maximum     1 s       adjustable response value setting current (II) / for L-tripping / with 12t characteristic       • ininimum     1 s       • maximum     1 s       adjustable response value setting current (III) / for I-tripping / with 12t characteristic       • inimimum     0 A       • maximum     0 A
operating short-circuit current breaking capacity (Ics)     200 kA       • at 240 V     200 kA       • at 415 V     110 kA       • at 490 V     6 kA       short-circuit current making capacity (Icm)     40 kA       • at 240 V     40 kA       • at 240 V     40 kA       • at 415 V     242 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     200 kA       current breaking capacity     200 kA       • at 480 V     200 kA       • at 480 V     100 kA       • at 480 V     35 kA       Adjustable parameters     320 A       adjustable response value setting current (Ir) / of the L-trip / with 12t       characteristic     * maximum       • maximum     1 s       adjustable response value delay time (tr) / for L-tripping / with 12t       characteristic     * minimum       • maximum     1 s       adjustable response value setting current (In) / for I-tripping       • maximum     1 s       adjustable response value setting current (In) / for I-tripping       • minimum     1 s       adjustable response value setting current (In) /
• at 415 V       110 kA         • at 690 V       6 kA         short-circuit current making capacity (Icm)       440 kA         • at 240 V       440 kA         • at 415 V       242 kA         • at 415 V       242 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         current breaking capacity       -         current breaking capacity       200 kA         • at 240 V       200 kA         • at 400 V       35 kA         Adjustable parameters       -         adjustable response value setting current (Ir) / of the L-trip / with 12t characteristic       -         • minimum       320 A         • minimum       1s         adjustable response value setting current (Ir) / for L-tripping / with 12t characteristic       -         • minimum       1s         adjustable response value setting current (Ii) / for I-tripping       -         • minimum       2 000 A         • maximum       0 A         • maximum       0 A         • minimum       0 A         • minimum       0 A         • mi
• at 690 V         6 kA           short-circuit current making capacity (Icm)         440 kA           • at 240 V         440 kA           • at 415 V         242 kA           • at 690 V         17 kA           design of short-circuit protection         For switching power values in DC networks, see the 3VA molded case circuit chapter           Switching capacity according to UL 439         For switching capacity according to UL 439           current breaking capacity according to UL 439         200 kA           • at 640 V         200 kA           • at 600 V         35 kA           Adjustable parameters         adjustable response value setting current (Ir) / of the L-trip / with Izt characteristic           • minimum         320 A           • maximum         400 A           adjustable response value delay time (tr) / for L-tripping / with Izt characteristic           • minimum         1 s           • maximum         1 s           • maximum         1 s           • maximum         0 A           • maximum         0 A           • maximum         0 A           • maximum         0 A           • minimum         0 A           • maximum         0 A           • maximum         0 A
short-circuit current making capacity (Icm)     440 kA       • at 240 V     440 kA       • at 415 V     242 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     current breaking capacity       current breaking capacity     200 kA       • at 440 V     100 kA       • at 480 V     100 kA       • at 600 V     35 kA       Adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic     Is       • minimum     320 A       • minimum     1s       adjustable response value delay time (tr) / for L-tripping / with I2t characteristic     1s       • minimum     1 s       • maximum     1 s       • maximum     1 s       • adjustable response value setting current (II) / for L-tripping     1 s       • minimum     2 000 A       • maximum     0 A       • maximum <td< td=""></td<>
• at 240 V     440 kA       • at 415 V     242 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       current breaking capacity     •       • at 240 V     200 kA       • at 480 V     100 kA       • at 600 V     35 kA       Adjustable parameters     -       adjustable response value setting current (Ir) / of the L-trip / with 12t characteristic       • minimum     320 A       • maximum     400 A       adjustable response value delay time (tr) / for L-tripping / with 12t characteristic       • minimum     1 s       • maximum     1 s       adjustable response value setting current (II) / for I-tripping     -       • maximum     1 s       adjustable response value setting current (III) / for I-tripping     -       • minimum     2 000 A       • maximum     0 A       adjustable response value setting current (III) / for I-tripping     -       • minimum     0 A       • diging of the N-conductor protection     V       • maximum     0 A       • diging of the N-conductor protection     Vithout       • maximum
• at 415 V     242 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     Extended to be found under Service & Support in the last chapter       current breaking capacity     200 kA       • at 240 V     200 kA       • at 480 V     100 kA       • at 600 V     35 kA       Adjustable parameters     320 A       • maximum     400 A       adjustable response value delay time (tr) / for L-tripping / with 12t characteristic     1 s       • maximum     1 s       adjustable response value setting current (lii) / for L-tripping / with 12t characteristic     2 000 A       • maximum     1 s       adjustable response value setting current (lii) / for L-tripping / with 12t characteristic     1 s       • maximum     1 s       adjustable response value setting current (lii) / for L-tripping     1 s       adjustable response value setting current (liii / for N-tripping     0 A       • maximum     0 A   <
• 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 439       Externel treaking capacity         current breaking capacity       200 kA         • at 240 V       200 kA         • at 480 V       35 kA         Adjustable parameters       320 A         adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic       320 A         • minimum       320 A         • maximum       400 A         adjustable response value delay time (tr) / for L-tripping / with 12t characteristic       Iminimum         • minimum       1 s         adjustable response value setting current (II) / for I-tripping / with 12t characteristic       Iminimum         • maximum       1 s         adjustable response value setting current (III) / for I-tripping       Iminimum         • maximum       1 s         adjustable setting current (IN) / for N-tripping       Iminimum         • maximum       0 A         adjustable setting current (IN) / for N-tripping       Iminimum         • maximum       0 A         adjustable setting current (IN) / for N-tripping       Iminimum
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           current breaking capacity         200 kA           • at 240 V         200 kA           • at 480 V         100 kA           • at 600 V         35 kA           Adjustable parameters         adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic           • minimum         320 A           • maximum         400 A           adjustable response value delay time (tr) / for L-tripping / with I2t characteristic         1 s           • maximum         1 s           • minimum         1 s           • maximum         4000 A           adjustable response value delay time (tr) / for I-tripping / with I2t characteristic         1 s           • minimum         1 s           adjustable response value setting current (li) / for I-tripping / minimum         0 A           • maximum         0 A           adjustable response value setting current (li) / for I-tripping / minimum         0 A           • maximum         0 A           • digustable setting current (linN) / for N-tripping / minimum         0 A           • maximum         0 A
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           current breaking capacity         200 kA           • at 240 V         200 kA           • at 480 V         100 kA           • at 600 V         35 kA           Adjustable parameters         adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic           • minimum         320 A           • maximum         400 A           adjustable response value delay time (tr) / for L-tripping / with I2t characteristic         1 s           • maximum         1 s           • minimum         1 s           • maximum         4000 A           adjustable response value delay time (tr) / for I-tripping / with I2t characteristic         1 s           • minimum         1 s           adjustable response value setting current (li) / for I-tripping / minimum         0 A           • maximum         0 A           adjustable response value setting current (li) / for I-tripping / minimum         0 A           • maximum         0 A           • digustable setting current (linN) / for N-tripping / minimum         0 A           • maximum         0 A
breaker device manual; link to be found under Service & Support in the last current breaking capacity           e at 240 V         200 kA           • at 240 V         200 kA           • at 480 V         100 kA           • at 600 V         35 kA           Adjustable parameters         adjustable response value setting current (lr) / of the L-trip / with l2t characteristic           • minimum         320 A           • maximum         400 A           adjustable response value delay time (tr) / for L-tripping / with l2t characteristic         1 s           • minimum         1 s           • minimum         200 A           • minimum         200 A           • minimum         200 A           • minimum         200 A           • minimum         1 s           • minimum         2 000 A           • minimum         2 000 A           • maximum         4000 A           adjustable setting current (li) / for I-tripping         Iminimum           • maximum         0 A           • maximum         0 A           • design of the N-conductor protection         Without           • maximum         0 A           • maximum         0 A           • maximum         0 A
current breaking capacity     200 kA       • at 240 V     200 kA       • at 480 V     100 kA       • at 600 V     35 kA       Adjustable parameters     adjustable response value setting current (lr) / of the L-trip / with I2t characteristic       • minimum     320 A       • maximum     400 A       adjustable response value delay time (tr) / for L-tripping / with I2t characteristic     1 s       • maximum     1 s       adjustable response value delay time (tr) / for L-tripping     1 s       adjustable response value delay time (tr) / for L-tripping     2 000 A       • maximum     1 s       adjustable response value setting current (li) / for I-tripping     0 A       • maximum     0 A
• at 240 V     200 kA       • at 480 V     100 kA       • at 600 V     35 kA       Adjustable parameters     35 kA       adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic     320 A       • maximum     400 A       adjustable response value delay time (tr) / for L-tripping / with 12t characteristic     1 s       • minimum     1 s       • maximum     1 s       • maximum     1 s       adjustable response value setting current (li) / for I-tripping     1 s       • minimum     1 s       • maximum     4 000 A       adjustable response value setting current (li) / for I-tripping     0 A       • maximum     0 A
• at 480 V100 kA• at 600 V35 kAAdjustable parametersadjustable response value setting current (Ir) / of the L-trip / with L2t characteristic320 A• minimum320 A• maximum400 Aadjustable response value delay time (tr) / for L-tripping / with 12t characteristic1 s• minimum1 s• maximum1 s• maximum2 000 A• maximum4000 Aadjustable response value setting current (Ii) / for I-tripping• minimum2 000 A• maximum4 000 Aadjustable setting current (InN) / for N-tripping• maximum0 A• maximum0 A• design of the N-conductor protectionWithoutproduct function / grounding protectionNoMechanical Designnoproduct componentI
• at 600 V       35 kA         Adjustable parameters       adjustable response value setting current (Ir) / of the L-trip / with L2t characteristic         • minimum       320 A         • maximum       400 A         adjustable response value delay time (tr) / for L-tripping / with I2t characteristic       Is         • minimum       1 s         • minimum       1 s         • maximum       2 000 A         • maximum       4 000 A         adjustable response value setting current (II) / for I-tripping       Is         • minimum       2 000 A         • maximum       4 000 A         adjustable response value setting current (IN) / for N-tripping       OA         • maximum       0 A         • maximum
Adjustable parameters         adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic         • minimum       320 A         • maximum       400 A         adjustable response value delay time (tr) / for L-tripping / with I2t characteristic       1 s         • minimum       1 s         • maximum       1 s         adjustable response value setting current (Ii) / for I-tripping       1 s         adjustable response value setting current (Ii) / for I-tripping       0 A         • maximum       4 000 A         adjustable response value setting current (Iii) / for I-tripping       0 A         • maximum       0 A         • maximum       0 A         • design of the N-conductor protection       Without         product function / grounding protection       No         Mechanical Design       product component
Adjustable parameters         adjustable response value setting current (Ir) / of the L-trip / with L2t characteristic         • minimum       320 A         • maximum       400 A         adjustable response value delay time (tr) / for L-tripping / with I2t characteristic       1 s         • minimum       1 s         • maximum       1 s         adjustable response value setting current (Ii) / for I-tripping       1 s         adjustable response value setting current (Ii) / for I-tripping       0 A         • maximum       4 000 A         adjustable setting current (InN) / for N-tripping       0 A         • maximum       0 A         edigin of the N-conductor protection       Without         product function / grounding protection       No         Mechanical Design       product component
adjustable response value setting current (Ir) / of the L-trip / with         12t characteristic         • minimum         320 A         • maximum         400 A         adjustable response value delay time (tr) / for L-tripping / with I2t         characteristic         • minimum         1 s         • maximum         1 s         • maximum         1 s         adjustable response value setting current (li) / for I-tripping         • minimum         2 000 A         • maximum         4 000 A         adjustable setting current (lin) / for N-tripping         • minimum         0 A         edjustable setting current (INN / for N-tripping         • minimum         0 A         edign of the N-conductor protection         Without         product function / grounding protection         No         Mechanical Design         product component
I2t characteristic     320 A       • minimum     320 A       • maximum     400 A       adjustable response value delay time (tr) / for L-tripping / with 12t characteristic     1 s       • minimum     1 s       • maximum     1 s       adjustable response value setting current (li) / for I-tripping     2 000 A       • maximum     2 000 A       • maximum     4 000 A       adjustable response value setting current (lin) / for I-tripping     0 A       • maximum     0 A       • maximum     0 A       • maximum     0 A       • maximum     0 A       • moximum     0 A       • maximum     0 A       • moximum     0 A
• maximum400 Aadjustable response value delay time (tr) / for L-tripping / with 12t characteristic-• minimum1 s• maximum1 sadjustable response value setting current (li) / for I-tripping • minimum2 000 A• maximum2 000 A• maximum0 Aadjustable setting current (lnN) / for N-tripping • minimum0 A• maximum0 A• product function / grounding protectionNo• product function / grounding protectionNo• product componentI
adjustable response value delay time (tr) / for L-tripping / with 12t         characteristic         • minimum         • maximum         1 s         adjustable response value setting current (li) / for I-tripping         • minimum         2 000 A         • maximum         4 000 A         adjustable setting current (InN) / for N-tripping         • minimum         0 A         emaximum         0 A         design of the N-conductor protection         Without         product function / grounding protection         No         Mechanical Design         product component
adjustable response value delay time (tr) / for L-tripping / with 12t         characteristic         • minimum         • maximum         1 s         adjustable response value setting current (li) / for I-tripping         • minimum         2 000 A         • maximum         4 000 A         adjustable setting current (InN) / for N-tripping         • minimum         0 A         emaximum         0 A         design of the N-conductor protection         Without         product function / grounding protection         No         Mechanical Design         product component
• maximum1 sadjustable response value setting current (li) / for I-tripping2 000 A• minimum2 000 A• maximum4 000 Aadjustable setting current (lnN) / for N-tripping0 A• minimum0 A• maximum0 A• product function / grounding protectionWithout• product function / grounding protectionNo
adjustable response value setting current (li) / for I-tripping       2 000 A         • minimum       2 000 A         • maximum       4 000 A         adjustable setting current (InN) / for N-tripping       •         • minimum       0 A         • maximum       0 A         • maximum       0 A         • maximum       0 A         • maximum       0 A         design of the N-conductor protection       Without         product function / grounding protection       No         Mechanical Design       product component
<ul> <li>minimum</li> <li>maximum</li> <li>adjustable setting current (InN) / for N-tripping</li> <li>minimum</li> <li>maximum</li> <li>0 A</li> <li>maximum</li> <li>0 A</li> <li>design of the N-conductor protection</li> <li>product function / grounding protection</li> <li>No</li> </ul> Mechanical Design           product component
<ul> <li>minimum</li> <li>maximum</li> <li>adjustable setting current (InN) / for N-tripping</li> <li>minimum</li> <li>maximum</li> <li>0 A</li> <li>maximum</li> <li>0 A</li> <li>design of the N-conductor protection</li> <li>product function / grounding protection</li> <li>No</li> </ul> Mechanical Design           product component
• maximum     4 000 A       adjustable setting current (InN) / for N-tripping     0       • minimum     0 A       • maximum     0 A       design of the N-conductor protection     Without       product function / grounding protection     No       Mechanical Design     Product component
adjustable setting current (InN) / for N-tripping       • minimum     0 A       • maximum     0 A       design of the N-conductor protection     Without       product function / grounding protection     No       Mechanical Design     product component
minimum 0 A     maximum 0 A     o A     design of the N-conductor protection Without     product function / grounding protection No     Mechanical Design     product component
• maximum     0 A       design of the N-conductor protection     Without       product function / grounding protection     No       Mechanical Design     product component
design of the N-conductor protection     Without       product function / grounding protection     No       Mechanical Design     product component
product function / grounding protection     No       Mechanical Design     product component
Mechanical Design product component
product component
Undervoltage release     INO
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
manufacturer's article number
manufacturer's article number
• of the supplied basic switch <u>3VA53407EF412AA0</u>
of the supplied basic switch <u>3VA53407EF412AA0</u> Environmental conditions
• of the supplied basic switch     3VA53407EF412AA0       Environmental conditions
• of the supplied basic switch     3VA53407EF412AA0       Environmental conditions

during storage / maximum		80 °C				
Certificates						
reference code / accord	ding to IEC 81346-2		Q			
General Product App	roval			Declaration of Con- formity	Marine / Shipping	other
<u>Confirmation</u>	<u>Miscellaneous</u>	EAC		UK CA	ABS	<u>Miscellaneous</u>
other						

**Confirmation** 

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3VA5340-7EF41-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5340-7EF41-2AA0

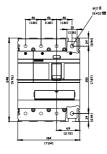
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5340-7EF41-2AA0

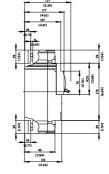
**CAx-Online-Generator** 

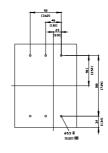
http://www.siemens.com/cax

**Tender specifications** 

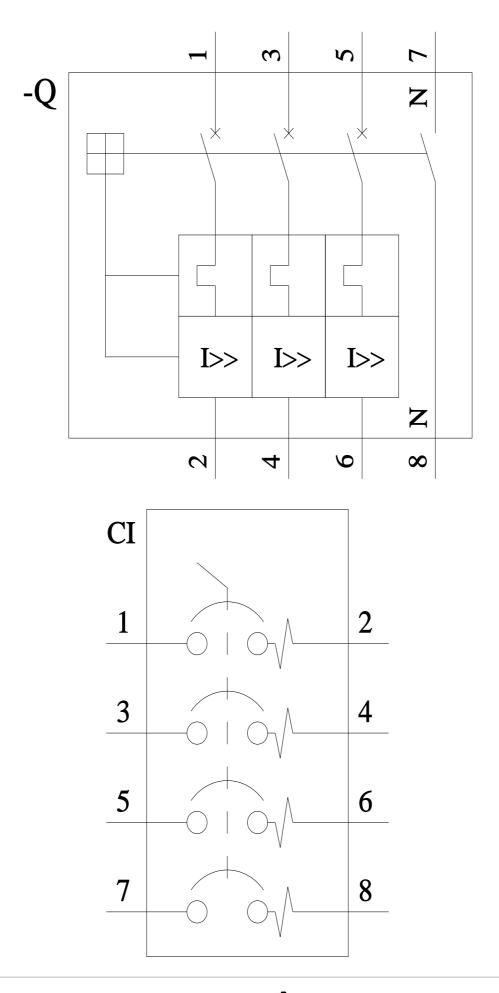
http://www.siemens.com/specifications











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