## **SIEMENS**

## Datasheet

## 3VA1150-5GF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=50A OVERLOAD PROTECTION IR=35A ...50A SHORT CIRCUIT PROTECTION II=5 X IN NEUTRAL PROTECTION 100% BUSBAR CONNECTION

Figure similar

Model		
product brand name		SENTRON
Product designation	-	Molded case circuit breaker
Design of the product		Line protection
Product variations		General Applications
Ground fault monitoring version		Without
Design of the auxiliary release		Without auxiliary release
Design of the auxiliary switch	-	Without
Design of the operating mechanism	-	toggle handle
Type of the driving mechanism / motor drive	-	No
Design of the overcurrent release		TM240
General technical data		·
Number of poles		4
Trip class / of the L-trip / with I2t characteristic / initial value		1
Trip class / of the L-trip / with I2t characteristic / Full- scale value		1
Electrical endurance (switching cycles)		
• at AC-1 / at 380/415 V / at 50/60 Hz		8 000
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		15 000
Voltage		
Insulation voltage		
Rated value	V	800

Protective function of the overcurrent release     LI       Switching capacity     Switching capacity class of the circuit breaker     M       Switching capacity class of the circuit breaker     M       Dissipation     Active power loss     N       4xtive power loss     + maximum     W     14.6       Electricity     Continuous current / af 45 °C / Rated value     A     50       Continuous current / acted value / maximum     A     160       Continuous current     A     50       • of the current-dependent overload release / Full-Scale value     A     5       • of the instantaneous short-circuit release / initial value     A     5       Net weight     g     1 200       Main circuit     Querant     A     50       • of the instantaneous short-circuit release / initial value     V     690       • of the instantaneous short-circuit release / initial value     V     690       • of the instantaneous short-circuit release / initial value     V     690       • of the or DC / Rated value     A     50     Continuous current       • at 40 °C / Rated value     A     50     Context and and active and	Protection class		
Switching capacity class of the circuit breaker     M       Dissipation     M       Active power loss     Imaximum       • maximum     W       14.6       Continuous current / at 45 °C / Rated value     A       Continuous current / Rated value / maximum     A       • Rated value     A       • Continuous current     • Rated value / maximum       • Rated value     A       • Of the current-dependent overload release / Full-scale value     A       • of the instantaneous short-circuit release / initial value     A       • of the instantaneous short-circuit release / initial value     A       • of the current-dependent overload release / Full-scale value     A       • of the instantaneous short-circuit release / initial value     A       • of the instantaneous short-circuit release / initial value     A       • of the current-dependent overload release / Full-scale value     Y       • of the current-dependent overload release / value     G       • of the current-dependent overload release / Full-scale value     A       • of the instantaneous short-circuit release / initial value     A       • of the current     G       • of the C / Rated value     A       • of the C / Rated value     A       • at 60 °C / Rated value     A       • at 60 °C / Rated value     A	Protective function of the overcurrent release		LI
Switching capacity class of the circuit breaker     M       Dissipation     M       Active power loss <ul> <li>maximum</li> <li>W</li> <li>14.6</li> <li>Continuous current / at 45 °C / Rated value</li> <li>Continuous current / at 45 °C / Rated value</li> <li>Continuous current / Rated value / maximum</li> <li>A</li> <li>50</li> <li>Continuous current</li> <li>Rated value</li> <li>A</li> <li>50</li> <li>Adjustable response value current</li> <li>of the current-dependent overload release / Full-scale value</li> <li>of the current-dependent overload release / Full-scale value</li> <li>of the instantaneous short-circuit release / initial value</li> <li>of the current-dependent overload release /</li> <li>of the current-dependent overload release /</li> <li>of the current-dependent overload release /</li> <li>full-scale value</li> <li>of the current-dependent overload release /</li> <li>of the current /</li> <li>at 40 °C / Rated value</li> <li>A</li> <li>of condition</li> <li>of condition</li> <li>of condition</li> <li>of condition</li> <li>of auxiliary contacts</li> <li>o</li> <li>Suitability for use</li> <li>system protection</li> <li>of the // Full-scale value</li> <li>A</li> <li>of the // full-scale value</li> <li>A</li> <li>of her // full-scale value</li> <li>A</li> <li>on</li> <li>of net // full-scale value</li> <li>A</li> <li>o</li> <li>on Number of Co contacts</li> <li>of net // full-scale value</li> <li>a value</li> <li>a</li></ul>	Switching capacity		
Active power loss       W       14.6         • maximum       W       14.6         Electricity       Continuous current / at 45 °C / Rated value       A       50         Continuous current / Rated value / maximum       A       160       Continuous current         • Rated value       A       50       Adjustable response value current       A         • of the current-dependent overload release / Full-scale value       A       1       Full-scale value         • of the instantaneous short-circuit release / initial value       A       5       S         • of the instantaneous short-circuit release / initial value       A       5       S         • of the current-dependent overload release / initial value       A       5       S         • of the instantaneous short-circuit release / initial value       A       5       S         • of the instantaneous short-circuit release / initial value       A       5       S         • of the OC / Rated value       V       690       600       S         Operating current       4       50       4       50       4         • at 0° C / Rated value       A       40       50       4       50       4       50       4       50       4       50       4       <			M
Active power loss       W       14.6         • maximum       W       14.6         Electricity       Continuous current / at 45 °C / Rated value       A       50         Continuous current / Rated value / maximum       A       160       Continuous current         • Rated value       A       50       Adjustable response value current       A         • of the current-dependent overload release / Full-scale value       A       1       Full-scale value         • of the instantaneous short-circuit release / initial value       A       5       S         • of the instantaneous short-circuit release / initial value       A       5       S         • of the current-dependent overload release / initial value       A       5       S         • of the instantaneous short-circuit release / initial value       A       5       S         • of the instantaneous short-circuit release / initial value       A       5       S         • of the OC / Rated value       V       690       600       S         Operating current       4       50       4       50       4         • at 0° C / Rated value       A       40       50       4       50       4       50       4       50       4       50       4       <		_	
• maximumW14.8ElectricityOperating current / at 45 °C / Rated valueA50Continuous current / Rated value / maximumA180Continuous currentA50Adjustable response value currentA50• of the current-dependent overload release / Full-scale valueA1• of the instantaneous short-circuit release / initial valueA5Net weightg1 200Mein circuitV680Operating voltageV680• with AC / at 50/60 Hz / Rated valueV680• for DC / Rated valueV680• of the circuit-devalueV680• of the circuit - at 40 °C / Rated valueA50• at 60 °C / Rated valueA50• at 60 °C / Rated valueA50• at 65 °C / Rated valueA48• at 65 °C / Rated valueA48• at 65 °C / Rated valueA46• at 65 °C / Rated valueA45Auxiliary circuitA45Number of CO contacts • for auxiliary contactsoSuitability for useis system protectionAdjustable parametersA10• for N-conductor protection / initial valueA10		_	
Electricity       Operating current / at 45 °C / Rated value     A     50       Continuous current     A     160       Continuous current     A     50       Adjustable response value current     A     50       Adjustable response value current     A     50       Adjustable response value current     A     1       • of the current-dependent overload release / Full-scale value     A     1       • of the current-dependent overload release / initial value     A     5       Net weight     g     1 200       Main circuit     Operating valtage     V     690       • for DC / Rated value     V     690       • for DC / Rated value     A     50       • at 40 °C / Rated value     A     50       • at 50 °C / Rated value     A     50       • at 50 °C / Rated value     A     50       • at 50 °C / Rated value     A     48       • at 50 °C / Rated value     A     45       Auxiliary circuit     A     45       Number of CO contacts     0     0       • or auxiliary contacts     0     5       Suitability     system protection     A       • Suitability for use     system protection       • of I-trip / Full-scale value     A		14/	14.6
Operating current / at 45 °C / Rated value     A     50       Continuous current / Rated value / maximum     A     160       Continuous current     A     50       Adjustable response value current     A     50       • of the current-dependent overload release / Full-scale value     A     1       • of the instantaneous short-circuit release / initial value     A     1       • of the instantaneous short-circuit release / initial value     A     5       • of the instantaneous short-circuit release / initial value     A     5       • of the instantaneous short-circuit release / initial value     A     5       • of the instantaneous short-circuit release / initial value     A     5       • of the instantaneous short-circuit release / initial value     A     5       • of the instantaneous short-circuit release / initial value     A     5       • of the instantaneous short-circuit release / initial value     A     5       • of the instantaneous short-circuit release / initial value     A     5       • of the instantaneous short-circuit release / initial value     A     50       • of DC / Rated value     A     50     600       • of C / Rated value     A     48     6       • at 60 °C / Rated value     A     46     46       • at 70 °C / Rated value     A	• maximum	VV	14.0
Continuous current / Rated value / maximum       A       160         Continuous current       A       50         Adjustable response value current       A       50         Adjustable response value current       A       50         Adjustable response value current       A       5         of the current-dependent overload release / initial value       A       5         of the instantaneous short-circuit release / initial value       A       5         Vet weight       g       1 200         Main circuit       V       690         Operating voltage       V       600         • with AC / at 50/60 Hz / Rated value       V       600         Operating current       V       600         • for DC / Rated value       A       50         • at 50 °C / Rated value       A       50         • at 50 °C / Rated value       A       48         • at 65 °C / Rated value       A       45         • at 65 °C / Rated value       A       45         • at 65 °C / Rated value       A       45         • at 65 °C / Rated value       A       45         • at 65 °C / Rated value       A       45         • for auxiliary contacts       0			
Continuous current       A       50         Adjustable response value current       A       1         • of the current-dependent overload release / Full-scale value       A       1         • of the instantaneous short-circuit release / initial value       A       5         • Net weight       g       1 200         Main circuit       P       690         Vet weight       g       1 200         Main circuit       V       690         Operating voltage       V       690         • with AC / at 50/60 Hz / Rated value       V       600         Operating current       V       600         • at 40 °C / Rated value       A       50         • at 50 °C / Rated value       A       50         • at 50 °C / Rated value       A       48         • at 65 °C / Rated value       A       48         • at 65 °C / Rated value       A       45         Auxiliary corcuit       A       45         Auxiliary contacts       0       0         Suitability for use       system protection         Adjustable response value current       0       0         • of 1-trip / Full-scale value       A       10         • of 1-trip /		А	50
A Rated valueA50Adjustable response value current of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial valueA1Yell-scale value of the instantaneous short-circuit release / initial valueA5Net weightg1 200Main circuitg1 200Main circuitV690Operating voltage of DC / Rated valueV690for DC / Rated valueV600Operating current of DC / Rated valueA50at 40 °C / Rated valueA50at 50 °C / Rated valueA49at 60 °C / Rated valueA48at 65 °C / Rated valueA45at 65 °C / Rated valueA45Axuiliary circuitA45Axuiliary concuts0Suitability for usesystem protectionAdjustable parametersA10Adjustable response value current of 1-trip / Full-scale valueA10of 1-trip / Full-scale valueA100	Continuous current / Rated value / maximum	А	160
Adjustable response value current       A       1         • of the current-dependent overload release / Full-scale value       A       1         • of the instantaneous short-circuit release / initial value       A       5         Net weight       g       1 200         Main circuit       A       5         Operating voltage       V       690         • or DC / Rated value       V       600         Operating current       V       600         • at 40 °C / Rated value       A       50         • at 50 °C / Rated value       A       50         • at 60 °C / Rated value       A       48         • at 60 °C / Rated value       A       48         • at 65 °C / Rated value       A       45         Auxiliary circuit       A       45         Number of CO contacts       0       0         • for auxiliary contacts       0       0         Suitability for use       system protection       A         • for I-trip / Full-scale value       A       10         • for N-conductor protection / initial value       A       100	Continuous current		
• of the current-dependent overload release /       A       1         Full-scale value       • of the instantaneous short-circuit release / initial value       A       5         Net weight       g       1 200         Main circuit       -       -       -         Operating voltage       -       -       -         • with AC / at 50/60 Hz / Rated value       V       690       -         • for DC / Rated value       V       600       -         Operating current       -       -       -         • at 40 °C / Rated value       A       50       -         • at 60 °C / Rated value       A       49       -         • at 60 °C / Rated value       A       48       -         • at 60 °C / Rated value       A       45       -         Auxiliary circuit       A       45       -         Auxiliary contacts       0       -       -         Suitability for use       system protection       -       -         • for Auxiliary contacts       0       -       -         Auxiliary contacts       0       -       -       -         Algustable response value current       -       -       -       -       <	Rated value	А	50
Full-scale value       A       5         Net weight       g       1 200         Main circuit       g       1 200         Main circuit       V       690         • with AC / at 50/60 Hz / Rated value       V       690         • for DC / Rated value       V       600         Operating current       -       -         • at 40 °C / Rated value       A       50         • at 40 °C / Rated value       A       50         • at 50 °C / Rated value       A       50         • at 60 °C / Rated value       A       48         • at 65 °C / Rated value       A       46         • at 65 °C / Rated value       A       45         Auxiliary circuit       A       45         Auxiliary contacts       0       0         Suitability       system protection         • for auxiliary contacts       system protection         Adjustable response value current       A       10         • for N-conductor protection / initial value       A       100	Adjustable response value current		
• of the instantaneous short-circuit release / initial value       A       5         Net weight       g       1 200         Main circuit       Operating voltage       Image: Circuit AC / at 50/60 Hz / Rated value       V       690         • with AC / at 50/60 Hz / Rated value       V       690       600         Operating current       V       600         • at 40 °C / Rated value       A       50         • at 40 °C / Rated value       A       50         • at 50 °C / Rated value       A       50         • at 50 °C / Rated value       A       49         • at 60 °C / Rated value       A       46         • at 65 °C / Rated value       A       45         Auxiliary circuit       A       45         Number of CO contacts       0       0         • for auxiliary contacts       0       0         Suitability       system protection       5         Adjustable response value current       A       10         • of 1-trip / Full-scale value       A       100		А	1
value     g     1 200       Main circuit     g     1 200       Operating voltage     690     690       of DC / Rated value     V     690       of DC / Rated value     V     600       Operating current     7       e at 40 °C / Rated value     A     50       at 50 °C / Rated value     A     50       e at 50 °C / Rated value     A     49       e at 60 °C / Rated value     A     48       e at 60 °C / Rated value     A     48       e at 60 °C / Rated value     A     48       e at 60 °C / Rated value     A     48       e at 60 °C / Rated value     A     48       e at 60 °C / Rated value     A     45       Auxiliary circuit     0     200       Suitability for use     90     90       Suitability for use     90     90       Adjustable response value current     4     10       e for N-conductor protection / initial value     A     100	Full-scale value		
Network         g         1 200           Main circuit         g         1 200           Operating voltage         vith AC / at 50/60 Hz / Rated value         V         690           • with AC / at 50/60 Hz / Rated value         V         690         600           Operating oursent         V         600         600           • at 40 °C / Rated value         A         50         600           • at 40 °C / Rated value         A         50         600           • at 40 °C / Rated value         A         50         600           • at 40 °C / Rated value         A         40         600           • at 50 °C / Rated value         A         43         60           • at 60 °C / Rated value         A         48         60           • at 60 °C / Rated value         A         45         60           • at 65 °C / Rated value         A         45         60           • bor of CO contacts         0         70         70           • for auxiliary contacts         0         70         70           • for auxiliary contacts         0         70         70         70           • for locatas         90         90         90         90 <t< td=""><td></td><td>A</td><td>5</td></t<>		A	5
Main circuit       V       690         • with AC / at 50/60 Hz / Rated value       V       690         • for DC / Rated value       V       600         Operating current		_	
Operating voltage       690         • with AC / at 50/60 Hz / Rated value       V       690         • for DC / Rated value       V       600         Operating current	Net weight	g	1 200
with AC / at 50/60 Hz / Rated valueV690• for DC / Rated valueV600Operating current-• at 40 °C / Rated valueA50• at 50 °C / Rated valueA50• at 50 °C / Rated valueA49• at 60 °C / Rated valueA48• at 60 °C / Rated valueA46• at 60 °C / Rated valueA45• at 60 °C / Rated valueA45• at 60 °C / Rated valueA45• at 70 °C / Rated valueA45• for auxiliary contacts0• for auxiliary contacts0Suitabilitysystem protection• Suitability for useA10• of 1-trip / Full-scale valueA100	Main circuit		
• for DC / Rated value       V       600         Operating current       -       -         • at 40 °C / Rated value       A       50         • at 50 °C / Rated value       A       50         • at 55 °C / Rated value       A       49         • at 60 °C / Rated value       A       48         • at 65 °C / Rated value       A       46         • at 65 °C / Rated value       A       45         • at 65 °C / Rated value       A       45         • at 65 °C / Rated value       A       45         • at 70 °C / Rated value       A       45         • at 70 °C / Rated value       O       O         Suitability       O       O         Suitability       O       O         Suitability for use       System protection         Adjustable parameters       System protection         • of I-trip / Full-scale value       A       10         • for N-conductor protection / initial value       A       100	Operating voltage		
Operating current     A     50       • at 40 °C / Rated value     A     50       • at 50 °C / Rated value     A     50       • at 55 °C / Rated value     A     49       • at 60 °C / Rated value     A     48       • at 65 °C / Rated value     A     46       • at 65 °C / Rated value     A     46       • at 70 °C / Rated value     A     45       Auxiliary circuit     Distribution     Distribution       Auxiliary contacts     0     0       Suitability     System protection     A       • Suitability for use     A     10       Adjustable response value current     A     100	<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690
• at 40 °C / Rated valueA50• at 50 °C / Rated valueA50• at 55 °C / Rated valueA49• at 60 °C / Rated valueA48• at 65 °C / Rated valueA46• at 70 °C / Rated valueA45• at 70 °C / Rated valueA45• for auxiliary contacts0Suitabilityo• Suitability for usesystem protectionAdjustable parametersA10• of I-trip / Full-scale valueA100	<ul> <li>for DC / Rated value</li> </ul>	V	600
at 50 °C / Rated valueA50• at 50 °C / Rated valueA49• at 55 °C / Rated valueA48• at 60 °C / Rated valueA48• at 65 °C / Rated valueA46• at 70 °C / Rated valueA45Auxiliary circuitNumber of CO contacts • for auxiliary contacts• for auxiliary contacts0Suitability for useAdjustable parametersAdjustable response value current • of I-trip / Full-scale valueA10• for N-conductor protection / initial valueA100	Operating current	_	
at 55 °C / Rated value       A       49         • at 55 °C / Rated value       A       48         • at 60 °C / Rated value       A       48         • at 65 °C / Rated value       A       46         • at 70 °C / Rated value       A       45         Auxiliary circuit       A       45         Auxiliary contacts       0       0         Suitability       O       Suitability for use         Adjustable parameters       Adjustable response value current       A         • of I-trip / Full-scale value       A       10         • for N-conductor protection / initial value       A       100	• at 40 °C / Rated value	А	50
e at 60 °C / Rated value       A       48         • at 65 °C / Rated value       A       46         • at 70 °C / Rated value       A       45         Auxiliary circuit         Number of CO contacts         • for auxiliary contacts       0         Suitability       0         Adjustable parameters         Adjustable response value current       A       10         • for N-conductor protection / initial value       A       100	• at 50 °C / Rated value	А	50
• at 65 °C / Rated valueA46• at 70 °C / Rated valueA45Auxiliary circuitA45Auxiliary circuit0Suitability0Suitability0Suitability for usesystem protectionAdjustable parametersAdjustable response value current • of I-trip / Full-scale valueAAdjustable response valueA10• for N-conductor protection / initial valueA100	• at 55 °C / Rated value	А	49
• at 70 °C / Rated valueA45Auxiliary circuitImage: Auxiliary circuitNumber of CO contacts0• for auxiliary contacts0Suitability9• Suitability for usesystem protectionAdjustable parameters10Adjustable response value currentA• of I-trip / Full-scale valueA• for N-conductor protection / initial valueAImage: Auxiliary contacts100	● at 60 °C / Rated value	А	48
Auxiliary circuit         Number of CO contacts       0         • for auxiliary contacts       0         Suitability       •         • Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • of I-trip / Full-scale value       A         • for N-conductor protection / initial value       A	● at 65 °C / Rated value	А	46
Number of CO contacts       0         • for auxiliary contacts       0         Suitability       0         • Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • of I-trip / Full-scale value       A         • for N-conductor protection / initial value       A	• at 70 °C / Rated value	А	45
Number of CO contacts       0         • for auxiliary contacts       0         Suitability       0         • Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • of I-trip / Full-scale value       A         • for N-conductor protection / initial value       A	Auviliant aircuit	_	
• for auxiliary contacts0SuitabilitySuitability for usesystem protection• Suitable parameterssystem protectionAdjustable parametersImage: Content of I-trip / Full-scale valueA• of I-trip / Full-scale valueA10• for N-conductor protection / initial valueA100			
Suitability       system protection         • Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • of I-trip / Full-scale value       A         • for N-conductor protection / initial value       A			0
• Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • of I-trip / Full-scale value       A         • for N-conductor protection / initial value       A	-		
Adjustable parameters       Adjustable response value current       • of I-trip / Full-scale value     A       10       • for N-conductor protection / initial value     A			
Adjustable response value current     A       • of I-trip / Full-scale value     A     10       • for N-conductor protection / initial value     A     100	Suitability for use		system protection
• of I-trip / Full-scale valueA10• for N-conductor protection / initial valueA100	Adjustable parameters		
for N-conductor protection / initial value     A     100	Adjustable response value current		
	<ul> <li>of I-trip / Full-scale value</li> </ul>	А	10
for N-conductor protection / Full-scale value     A     100	<ul> <li>for N-conductor protection / initial value</li> </ul>	А	100
	<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	А	100

Adjustable response value current / of the current-	А	0.7
dependent overload release / initial value		
Appearance		
Product details	-	
Product component		
Trip indicator		No
● display		No
<ul> <li>Voltage trigger</li> </ul>		No
<ul> <li>undervoltage release</li> </ul>		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Product property	-	
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof</li> </ul>		No
Product expansion		
• optional		
— motor drive		Yes
Product function		
Product function		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
<ul> <li>communication function</li> </ul>		No
<ul> <li>Phase failure detection</li> </ul>		No
<ul> <li>other measurement function</li> </ul>		No
Accessories	-	
Manufacturer article number / of the supplied basic switch		3VA1150-5GF42-0AA0
Short circuit	_	
Operational short-circuit current breaking capacity		
(Ics)	LΔ	95
• at 240 V / Rated value	kA	85
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA	55
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> </ul>	kA kA	55 30
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> </ul>	kA kA kA	55 30 15
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>	kA kA	55 30
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	55 30 15 5
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>	kA kA kA kA kA	55 30 15 5 85
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA kA	55 30 15 5 85 55
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> </ul>	kA kA kA kA kA	55 30 15 5 85
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA kA kA kA kA	55 30 15 5 85 55

• at 240 V / Rated value	kA	187			
• at 415 V / Rated value	kA	121			
• at 690 V / Rated value	kA	11.9			
Connections					
Arrangement of electrical connectors					
<ul> <li>for main current circuit</li> </ul>		Front termin	al		
Type of connectable conductor cross-section					
<ul> <li>for flat-bar terminal connection / minimum</li> </ul>		12 x 0			
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>		17 x 6.5	17 x 6.5		
Design of the electrical connection					
• for main current circuit		Lug terminal			
lechanical Design					
Height	mm	130			
Width	mm	101.6			
Depth	mm	70			
Mounting type		fixed mount	fixed mounting		
nvironmental conditions					
Ambient temperature					
<ul> <li>during operation / minimum</li> </ul>	°C	-25			
<ul> <li>during operation / maximum</li> </ul>	°C	70			
<ul> <li>during storage / minimum</li> </ul>	°C	-40			
<ul> <li>during storage / maximum</li> </ul>	°C	80			
Certificates					
Reference code					
• acc. to DIN EN 61346-2		Q			
• acc. to DIN EN 81346-2		Q			
General Product Approval EMC		eclaration of conformity	Shipping Approval	other	
	ther			other	
		t	GL		

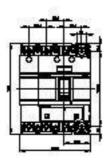
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

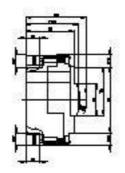
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11505GF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11505GF420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11505GF420AA0

Tender specifications http://ausschreibungstexte.siemens.com/tiplv





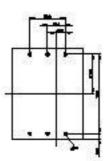




Figure similar

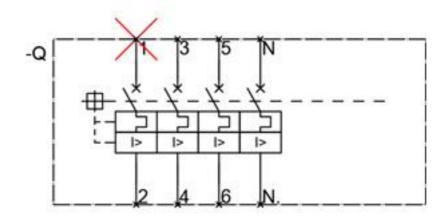


Figure similar

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21.10.2014