## SIEMENS

## Data sheet

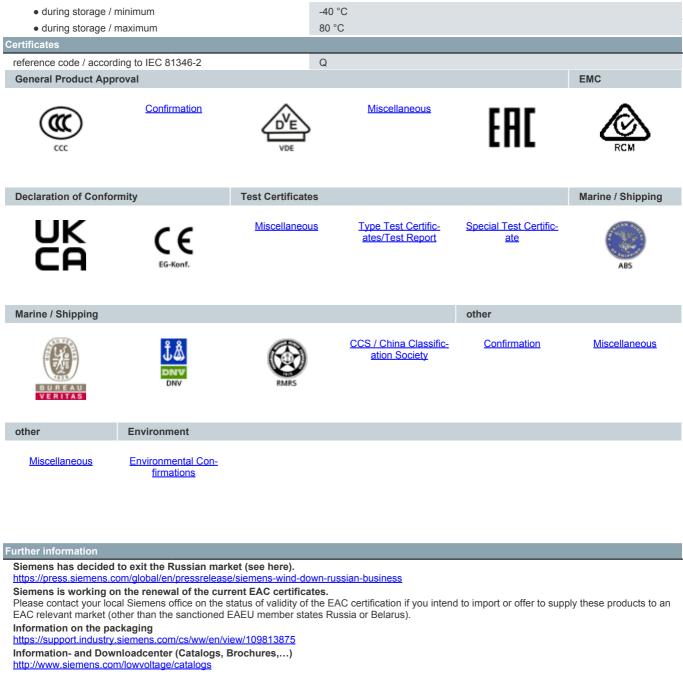
## 3VA1140-3GD42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 4-pole, line protection TM210, FTFM, In=40A overload protection Ir=40A fixed short-circuit protection Ii=10 x In N conductor protection 100% nut keeper kit

Model			
product brand name	SENTRON		
product designation	Molded case circuit breaker		
design of the product	Line protection		
design of the overcurrent release	TM210		
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	10.8 W		
mechanical service life (operating cycles) / typical	20 000		
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	9 000		
electrical endurance (operating cycles) / at AC-1 / at 690 V	6 300		
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No		
ground-fault monitoring version	Without		
product function			
communication function	No		
<ul> <li>other measurement function</li> </ul>	No		
Net Weight	1.232 kg		
Current			
operational current			
• at 40 °C	40 A		
• at 45 °C	40 A		
● at 50 °C	40 A		
• at 55 °C	39 A		
• at 60 °C	39 A		
• at 65 °C	38 A		
• at 70 °C	37 A		
Switching capacity according to IEC 60947			
switching capacity class of the circuit breaker	Ν		
maximum short-circuit current breaking capacity (Icu)			
• at 240 V	36 kA		
• at 415 V	25 kA		
• at 440 V	16 kA		
• at 500 V	7 kA		
• at 690 V	7 kA		
operating short-circuit current breaking capacity (lcs)			

a at 240 V	26 μ			
• at 240 V	36 kA			
• at 415 V	25 kA			
• at 440 V	16 kA			
• at 500 V	5 kA			
• at 690 V	5 kA			
short-circuit current making capacity (Icm)				
• at 240 V	75.6 kA			
• at 415 V	52.5 kA			
• at 440 V	32 kA			
• at 500 V	11.9 kA			
• at 690 V	11.9 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			
Adjustable parameters				
product feature / for L-tripping / can be switched on/off	No			
adjustable response value setting current (Ir) / of the L-trip / with				
I2t characteristic				
• minimum	40 A			
• maximum	40 A			
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic				
• minimum	1s			
• maximum	1 s			
adjustable response value setting current (li) / for I-tripping				
• minimum	400 A			
• maximum	400 A			
adjustable setting current (InN) / for N-tripping				
• minimum	40 A			
• maximum	40 A			
design of the N-conductor protection	100%			
product function / grounding protection	No			
Mechanical Design				
product component				
<ul> <li>undervoltage release</li> </ul>	No			
voltage trigger	No			
trip indicator	No			
height [in]	5.12 in			
height	130 mm			
width [in]	4 in			
width	101.6 mm			
depth [in]	2.76 in			
depth	70 mm			
Connections				
arrangement of electrical connectors / for main current circuit	Front terminal			
type of electrical connection / for main current circuit	nut keeper kit on both ends			
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm			
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6,5 mm			
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	Silver			
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) $% \left( 1, 2, 2, 3, 6 \right) \left( 1, 2, 2, 3, 6 \right) \right)$	Tin			
Auxiliary circuit				
number of CO contacts / for auxiliary contacts	0			
Accessories				
product extension / optional / motor drive	Yes			
Environmental conditions				
protection class IP / on the front	IP40			
ambient temperature				
<ul> <li>during operation / minimum</li> </ul>	-25 °C			
<ul> <li>during operation / maximum</li> </ul>	70 °C			



Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1140-3GD42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1140-3GD42-0AA0

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

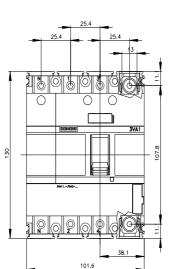
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1140-3GD42-0AA0

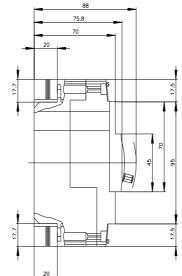
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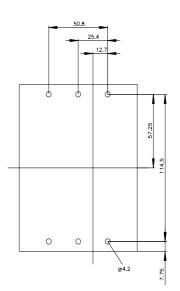
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Tender specifications

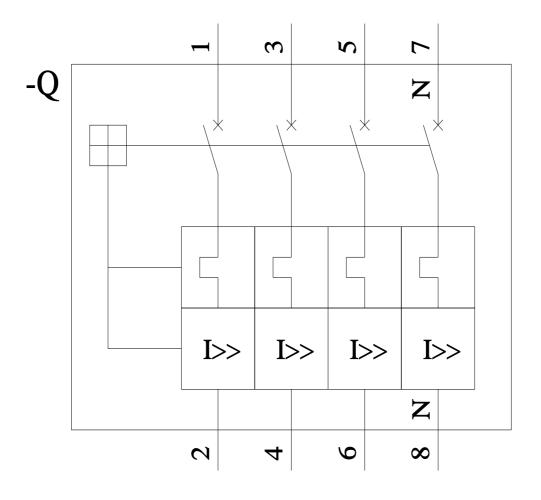
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