## SIEMENS

## Data sheet

## 3VA5290-7EC32-0AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class C 100kA @ 480 V 3-pole, line protection TM230, FTAM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=5...10 x In nut keeper kit on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CFAS
design of the product	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	TM230
protection function of the overcurrent release	Ц
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	750 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	25 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	8.2 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
electrical endurance (operating cycles) / at 480 V	8 000
electrical endurance (operating cycles) / at 600 V	4 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	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	2.252 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	90 A
● at 45 °C	90 A
● at 50 °C	90 A
• at 55 °C	87.3 A
• at 60 °C	85.5 A
● at 65 °C	82.8 A

● at 70 °C	79.2 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	С
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	200 kA
• at 415 V	110 kA
• at 690 V	10 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	200 kA
• at 415 V	110 kA
• at 690 V	10 kA
short-circuit current making capacity (Icm)	
• 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
Switching consolity according to 111, 490	chapter
Switching capacity according to UL 489	
current breaking capacity • at 240 V	200 kA
	200 kA 100 kA
● at 480 V ● at 600 V	35 kA
• at 600 V Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	90 A
• maximum	90 A
adjustable response value delay time (tr) / for L-tripping / with l2t characteristic	
● minimum	1 s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	450 A
• maximum	900 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
maximum	0 A
adjustable current response value current / of the current- dependent overload release	90 90 A
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	7.28 in
height	185 mm
width [in]	4.13 in
width	105 mm
depth [in]	3.27 in
depth	83 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar	nut keeper kit on both ends 13 x 1 mm
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar	25 x 8 mm
terminal connection / maximum design of the surface / of the connections / on the bottom of the	silver
switch (N, 2, 4, 6)	
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0

ccessories						
product extension / optional / motor drive		Ye	Yes			
nvironmental co	onditions					
protection class IP / on the front		IP4	IP40			
ambient temperature						
during operation / minimum		-25	-25 °C			
during operation / maximum		70	70 °C			
<ul> <li>during sto</li> </ul>	orage / minimum	-40	C°			
<ul> <li>during sto</li> </ul>	orage / maximum	80	°C			
ertificates						
reference code / according to IEC 81346-2		Q				
General Produc	ct Approval					
540				att an	EHL	
EMC	Declaration of Conform	lity	Marine / Shipping	other		
RCM	UK CA	CE EG-Konf.	ABS	Confirmation	<u>Miscellaneous</u>	
urther informati						
https://press.sier Siemens is wor Please contact y	ecided to exit the Russian marke mens.com/global/en/pressrelease/s rking on the renewal of the currer your local Siemens office on the sta arket (other than the sanctioned EA	siemens-wind-down-ru nt EAC certificates. Itus of validity of the E	AC certification if you inter	nd to import or offer to sup	ply these products to a	

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=3VA5290-7EC32-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5290-7EC32-0AA0

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

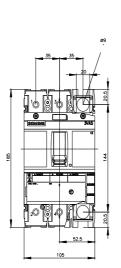
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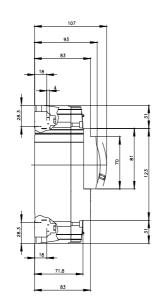
CAx-Online-Generator

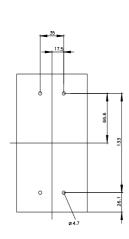
http://www.siemens.com/cax

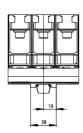
**Tender specifications** 

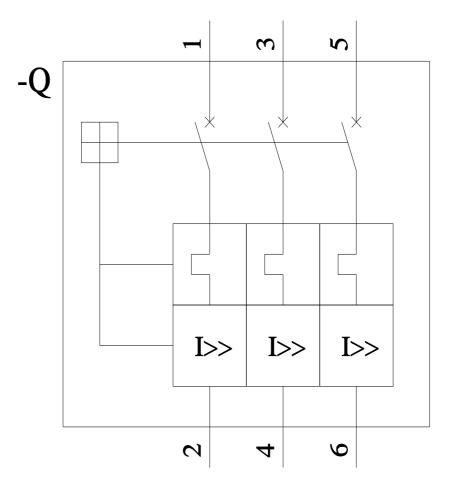
http://www.siemens.com/specifications

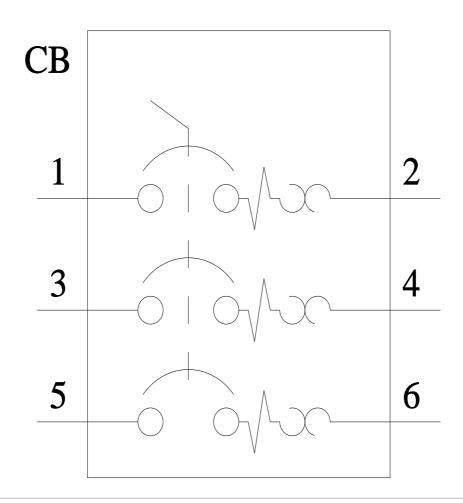












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