## SIEMENS

## Data sheet

## 3VA5290-7ED32-0AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class C 100kA @ 480 V 3-pole, line protection TM210, FTFM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=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		
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)	No		
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No		
design of the overcurrent release	TM210		
protection function of the overcurrent release	LI		
number of poles	3		
General technical data			
rated insulation voltage Ui	800 V		
Max. rated operational voltage Ue with DC	750 V		
operating voltage / at AC / rated value	690 V		
power loss [W] / maximum	25 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	8.2 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			
<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
breaking capacity maximum short-circuit current (Icu)	-
• at 240 V	200 kA
• at 415 V	110 kA
• at 690 V	10 kA
breaking capacity operating short-circuit current (lcs)	
• 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 240 V	242 kA
• at 690 V	242 KA 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	
breaking capacity current	
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 V	35 kA
Adjustable parameters	
Adjustable response value current / lg min.	90 A
Adjustable response value current / Ig min.	90 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	IND
	7.00.
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	nut keeper kit on both ends
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8 mm
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	silver
Auxiliary circuit	
product component	
<ul> <li>undervoltage release</li> </ul>	No
voltage trigger	No
trip indicator	No
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	
during operation / minimum	-25 °C
during operation / maximum	70 °C

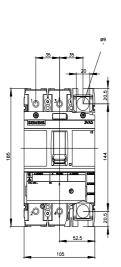
<ul> <li>during storage</li> <li>during storage</li> </ul>		-40 80 °				
Certificates		00				
reference code / acco	ording to IEC 81346-2	Q				
General Product Ap	oproval			EMC	Declaration of Conformity	
SP M	CCC	<u>Confirmation</u>	(UL) III	RCM	CE EG-Konf.	
Declaration of Conformity	Marine / Shipping	other				
UK CA	ABS	<u>Miscellaneous</u>				
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=3VA5290-7ED32-0AA0						

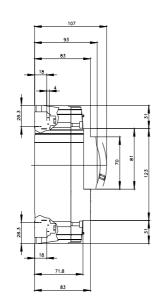
CAx-Online-Generator http://www.siemens.com/cax Tender specifications

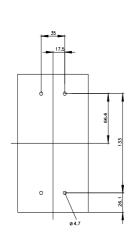
http://www.siemens.com/specifications

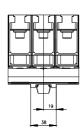
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5290-7ED32-0AA0

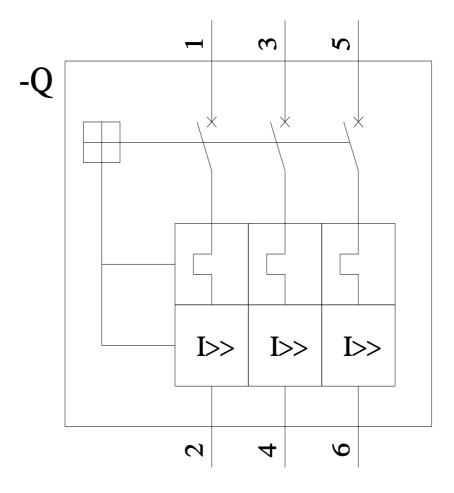
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5290-7ED32-0AA0

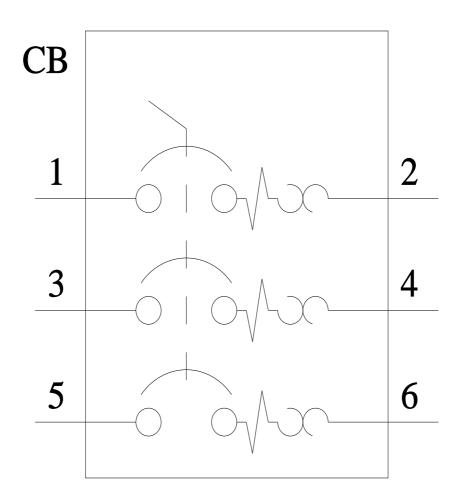












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