SIEMENS

Data sheet

3VA5290-6EC41-0AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480V 4-pole, line protection TM230, FTAM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=5...10 x In N conductor unprotected without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HFAS
Product version	System protection
design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	TM230
protection function of the overcurrent release	LI
number of poles	4
General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Max. rated operational voltage Ue with DC	1 000 V
power loss [W] / maximum	24.6 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	
 communication function 	No
 other measurement function 	No
Current	
marking / acc. to UL 489 / 100%-rated breaker	No
Max. rated operational current of the frame size	250 A
Courant permanent assigné lu	90 A
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	Н	
breaking capacity maximum short-circuit current (Icu)		
• at 240 V	100 kA	
• at 415 V	70 kA	
• at 690 V	10 kA	
breaking capacity operating short-circuit current (lcs)		
• at 240 V	100 kA	
• at 415 V	70 kA	
● at 690 V	10 kA	
short-circuit current making capacity (Icm)		
• at 240 V	220 kA	
• at 415 V	154 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		
breaking capacity current		
• at 240 V	100 kA	
• at 480 V	65 kA	
• at 600 Y/347 V	25 kA	
Adjustable parameters		
Adjustable response value current / lg min.	90 A	
Adjustable response value current / Ig min.	90 A	
Adjustable response value current / li min.	450 A	
Adjustable response value current / li max.	900 A	
design of the N-conductor protection	Without	
Ground fault protection / tripping switchable / I2t=ON/OFF	No	
Mechanical Design		
height [in]	7.3 in	
Height	185 mm	
width [in]	5.5 in	
Width	140 mm	
depth [in]	3.3 in	
depth	83 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	
Environmental conditions		
protection class IP / on the front	IP40	
ambient temperature		
during operation / minimum	-25 °C	
during operation / maximum	70 °C	
during storage / minimum	-40 °C	
during storage / maximum	80 °C	
Certificates		
reference code / acc. to IEC 81346-2	Q	
certificate of suitability / as approval for NAVAL (no	No	
combat vessels) / supplement SB		

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Further information

General Product Approval

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=3VA5290-6EC41-0AA0

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

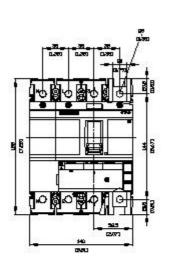
https://support.industry.siemens.com/cs/ww/en/ps/3VA5290-6EC41-0AA0

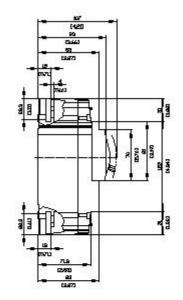
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

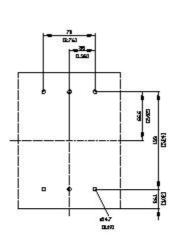
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5290-6EC41-0AA0

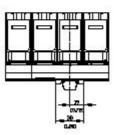
Tender specifications

http://www.siemens.com/specifications









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