SIEMENS

Data sheet

3VA5460-5EC41-0AA0



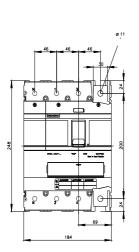
CIRCUIT BREAKER 3VA5 UL Frame 600 BREAKING CAPACITY CLASS M 35kA @ 480 V 4POLE, LINE PROTECTION TM230, FTAM, In=600A OVERLOAD PROTECTION IR=600A FIXED SHORT CIRCUIT PROTECTION II=4...8x In NEUTRAL UNPROTECTED W/O CONNECTION

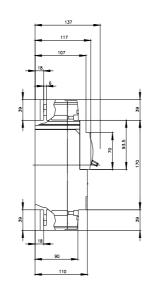
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MLAS
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design 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	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	175 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	58.33 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	2 700
electrical endurance (operating cycles) / at 480 V	4 000
electrical endurance (operating cycles) / at 600 V	2 700
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
product function	
 communication function 	No
 other measurement function 	No
Net Weight	6.82 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	600 A
● at 45 °C	587 A
● at 50 °C	574 A
• at 55 °C	560 A
● at 60 °C	547 A
● at 65 °C	534 A
● at 70 °C	521 A

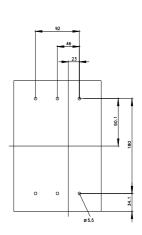
Switching capacity according to IEC 60947				
switching capacity class of the circuit breaker	М			
maximum short-circuit current breaking capacity (lcu)				
• at 240 V	85 kA			
• at 415 V	55 kA			
• at 690 V	7 kA			
operating short-circuit current breaking capacity (Ics)				
• at 240 V	85 kA			
• at 415 V	55 kA			
• at 690 V	6 kA			
short-circuit current making capacity (Icm)				
• at 240 V	187 kA			
• at 415 V	121 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			
Switching capacity according to UL 489				
current breaking capacity				
• at 240 V	85 kA			
• at 480 V	35 kA			
• at 600 V	18 kA			
Adjustable parameters				
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic				
• minimum	600 A			
• maximum	600 A			
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic				
• minimum	1 s			
• maximum	1 s			
adjustable response value setting current (li) / for I-tripping				
• minimum	2 400 A			
• maximum	4 800 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	600 600 A			
design of the N-conductor protection	Without			
product function / grounding protection	No			
Mechanical Design				
product component				
undervoltage release	No			
voltage trigger	No			
• trip indicator	No			
height [in]	9.76 in			
height	248 mm			
width [in]	7.24 in			
width	184 mm			
depth [in]	4.33 in			
depth	110 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				
	Voc			
product extension / optional / motor drive	Yes			
Environmental conditions				
protection class IP / on the front	IP40			
ambient temperature				

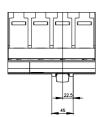
 during operation 	on / minimum	-2	5 °C			
 during operation 	on / maximum	70	О° (
 during storage 	/ minimum	-4	0 °C			
 during storage 	/ maximum	80	О°С			
Certificates						
reference code / acco	ording to IEC 81346-2	Q				
	y / as approval for NAVAL	no combat N	0			
General Product Ap						
	<u>Confirmation</u>	Ű			<u>Miscellaneous</u>	
General Product Approval	D- EMC	Declaration of Cor	formity	Marine / Shipping		
EHC	RCM	CE EG-Konf.	UK CA	ABS	RMRS	
other						
Confirmation	Miscellaneous	<u>Miscellaneous</u>				
Further information	ed to exit the Russian ma	that (can hara)				
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Information on the philosophic https://support.indust	oackaging ry.siemens.com/cs/ww/en/\	<u>/iew/109813875</u>				
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=3VA5460-5EC41-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VA5460-5EC41-0AA0						
Image database (pro	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5460-5EC41-0AA0					
CAx-Online-Genera http://www.siemens.c	tor					

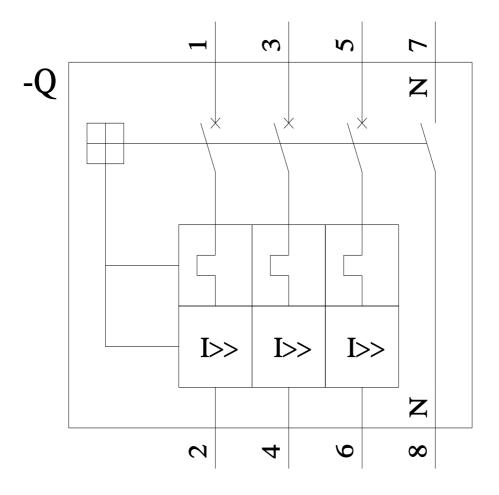
http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

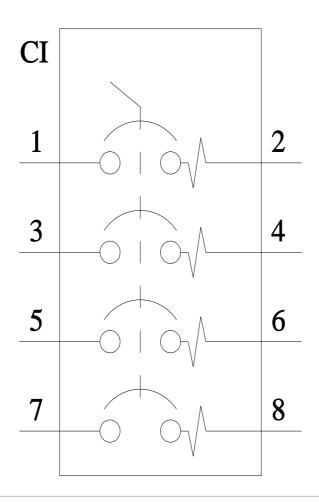












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