



circuit breaker 3VA2 IEC frame 400 breaking capacity class M $I_{cu}=55kA$ @ 415V 4-pole, line protection ETU560, LSIG, $I_n=400A$ overload protection $I_r=160A...400A$ short-circuit protection $I_{sd}=0.6..10 \times I_n$, $I_i=1.5..10 \times I_n$ N conductor protection adjustable (OFF, up to 100%) gr.-fault prot., can be sw. off $I_g=0.2...1 \times I_n$ $t_g=0.05-0.8s$ nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
Product version	Line protection
design of the overcurrent release	ETU560
protection function of the overcurrent release	LSIG
number of poles	4
General technical data	
Tension assignée d'isolement U_i	800 V
power loss [W] / maximum	96 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	32 W
mechanical service life (operating cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	6 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 200
Neutral conductors / upgradeable/retrofitable	No
ground-fault monitoring version	Summation current formation L + N conductor
product function	
• communication function	Yes
• other measurement function	No
net weight	5.7 kg
Current	
Max. rated operational current of the frame size	400 A
Courant permanent assigné I_u	400 A
operational current	
• at 40 °C	400 A
• at 45 °C	400 A
• at 50 °C	400 A
• at 55 °C	375 A
• at 60 °C	350 A
• at 65 °C	325 A
• at 70 °C	300 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
breaking capacity maximum short-circuit current (I_{cu})	
• at 240 V	85 kA

<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	55 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	55 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	36 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	5 kA		
breaking capacity operating short-circuit current (Ics)			
<ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V 	85 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	55 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	55 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	36 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	5 kA		
short-circuit current making capacity (Icm)			
<ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V 	187 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	121 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	121 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	75.6 kA		
<ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V 	7.5 kA		
Adjustable parameters			
Adjustable response value current / Ii min.	600 A		
Adjustable response value current / Ii max.	4 000 A		
Ground fault protection / tripping switchable / I2t=ON/OFF	Yes		
Adjustable response value current / Ig min.	80 A		
Adjustable response value current / Ig max.	400 A		
Mechanical Design			
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	Front terminal		
type of electrical connection / for main current circuit	on both sides nut keeper kit		
Type of connectable conductor cross-section, connection screw, width x thickness , min.	20 x 1 mm		
Type of connectable conductor cross-section, connection screw, width x thickness , max.	35 x 10 mm		
Auxiliary circuit			
product component			
<ul style="list-style-type: none"> • undervoltage release • voltage trigger • trip indicator 	No		
<ul style="list-style-type: none"> • undervoltage release • voltage trigger • trip indicator 	No		
<ul style="list-style-type: none"> • undervoltage release • voltage trigger • 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			
<ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 	-25 °C		
<ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 	70 °C		
<ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 	-40 °C		
<ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 	80 °C		
Certificates			
reference code / acc. to IEC 81346-2	Q		
General Product Approval		EMC	Declaration of Conformity



[Miscellaneous](#)



EG-Konf.

Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Miscellaneous](#)



ABS



BUREAU
VERITAS



LRS

Shipping Approval

other



RMRS

[CCS / China Classification Society](#)

[Manufacturer Declaration](#)

[Miscellaneous](#)

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=3VA2340-5JQ42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2340-5JQ42-0AA0>

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

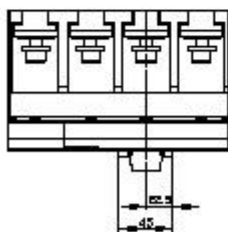
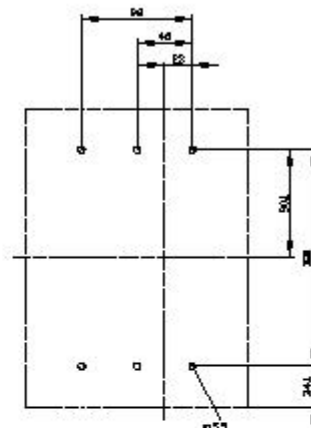
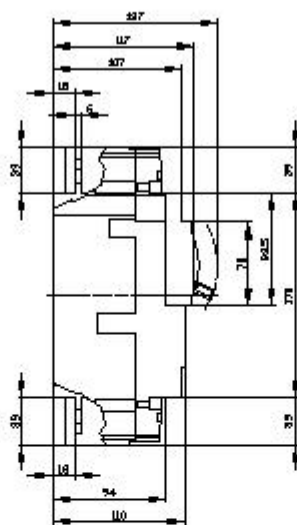
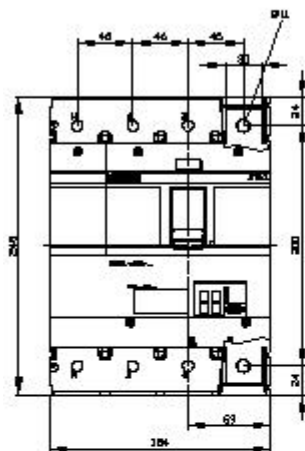
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-5JQ42-0AA0

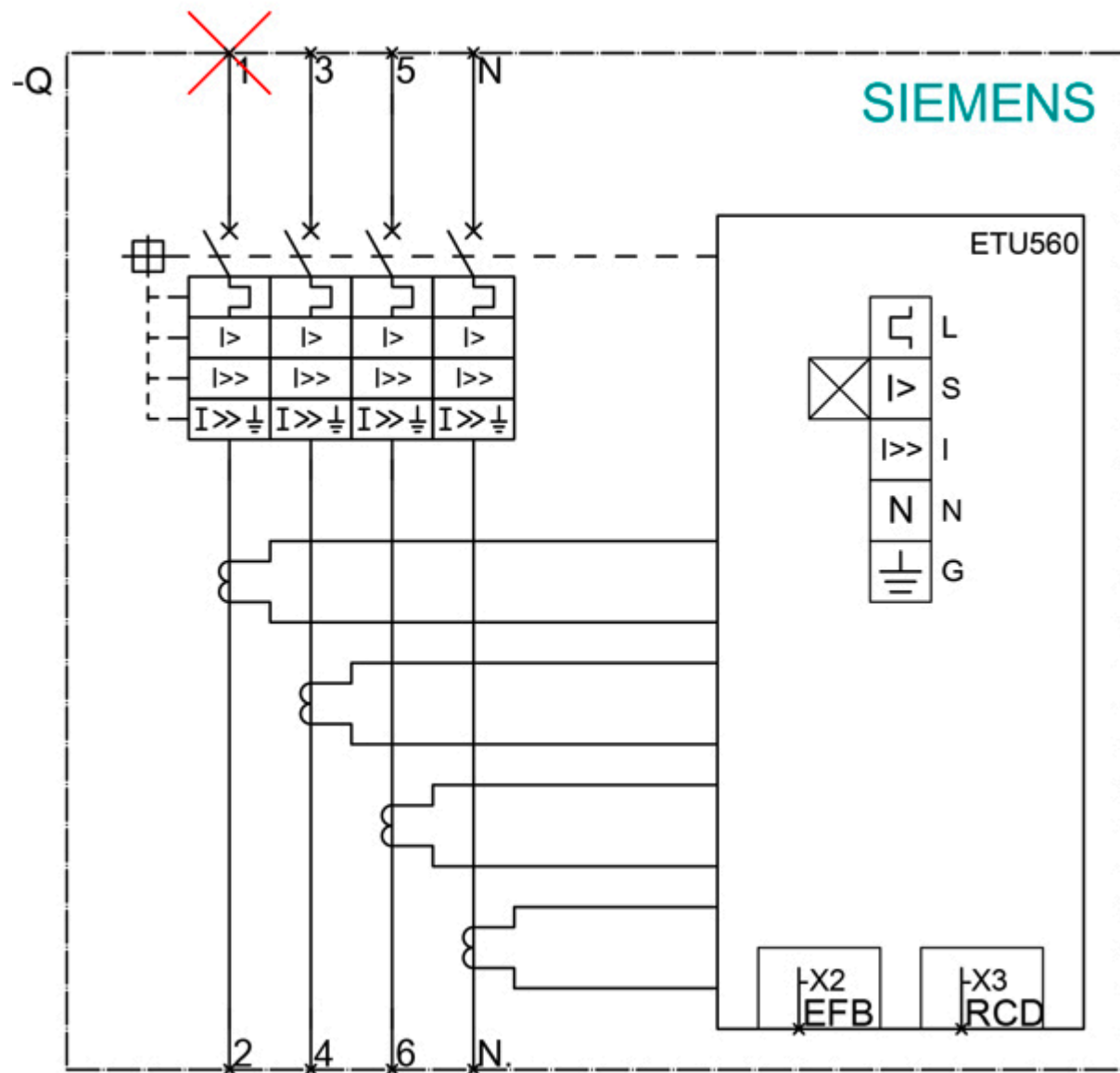
CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>





last modified:

6/11/2021 [🔗](#)