SIEMENS

Data sheet 3VA2116-7JQ36-0AA0

circuit breaker 3VA2 IEC frame 160 breaking capacity class C Icu=110kA @ 415V 3-pole, line protection ETU560, LSIG, In=160A overload protection Ir=63A...160A short-circuit protection Isd=0.6..10x In, Ii=1.5..10x In N conductor protection optionally with external current transformer, up to 160% gr.-fault prot., can be sw. off Ig=0.2...1 x In, tg=0.05-0.8s clamp connection

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	3
General technical data	
Tension assignée d'isolement Ui	800 V
power loss [W] / maximum	25.5 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	8.5 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	12 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	8 000
Neutral conductors / upgradeable/retrofittable	Yes
ground-fault monitoring version	Summation current formation L-conductor
product function	
● communication function	Yes
● other measurement function	No
net weight	2.44 kg
Current	
operational current	
● at 40 °C	160 A
● at 45 °C	160 A
● at 50 °C	160 A
● at 55 °C	160 A
● at 60 °C	160 A
● at 65 °C	160 A
● at 70 °C	160 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	C
breaking capacity maximum short-circuit current (Icu)	
● at 240 V	150 kA
● at 415 V	110 kA
● at 440 V	110 kA

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● at 500 V	85 kA
● at 690 V	2.5 kA
breaking capacity operating short-circuit current (Ics)	
● at 240 V	150 kA
● at 415 V	110 kA
● at 440 V	110 kA
● at 500 V	85 kA
● at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
● at 240 V	330 kA
● at 415 V	242 kA
● at 440 V	242 kA
● at 500 V	187 kA
● at 690 V	3.8 kA
Adjustable parameters	
Adjustable response value current / Ig min.	64 A
Adjustable response value current / Ig min.	160 A
Adjustable response value current / Ig min.	0.5
Adjustable response value current / Ig min.	20
Adjustable response value current / Ig min.	96 A
Adjustable response value current / Ig min.	1 600 A
Adjustable response value current / Ig min.	0.05 s
Adjustable response value current / Ig min.	0.5 s
Adjustable response value current / Ig min.	0.05 s
Adjustable response value current / Ig min.	0.5 s
Adjustable response value current / Ii min.	240 A
Adjustable response value current / Ii max.	1 600 A
Ground fault protection / tripping switchable / I2t=ON/OFF	Yes
Adjustable response value current / Ig min.	32 A
Adjustable response value current / Ig max.	160 A
Adjustable response value current / tg min.	0.05 s
Adjustable response value current / Ig min.	0.8 s
Adjustable response value current / for G-tripping / with I2t characteristic / min.	0.2 A
Adjustable response value current / for G-tripping / with I2t characteristic / max.	1 A
Mechanical Design	
height [in]	7.1 in
Height	181 mm
width [in]	4.1 in
Width	105 mm
depth [in]	3.4 in
depth	86 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	double-sided box terminal
Type of connectable conductor cross-section, round conductor terminal, stranded	1 x (6-120 mm²)
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

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● during storage / minimum	-40 °C
● during storage / maximum	80 °C

Certificates

reference code / acc. to IEC 81346-2	Q

General Product Approval | **EMC**

CCC CB VDE Miscellaneous EAC RCM

Declaration of Conformity | **Test Certificates** | **Shipping Approval**

CE EG-Konf. Type Test Certificates/Test Report Special Test Certificate Miscellaneous ABS BUREAU VERITAS

Shipping Approval | **other**

Lloyd's Register LRS 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=3VA2116-7JQ36-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA2116-7JQ36-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2116-7JQ36-0AA0
Tender specifications
http://www.siemens.com/specifications

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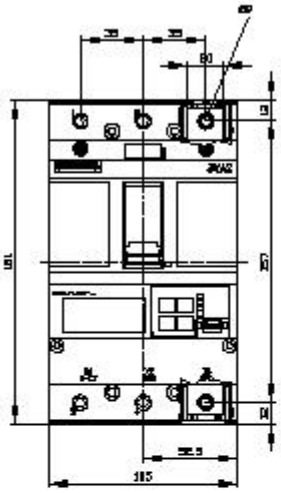

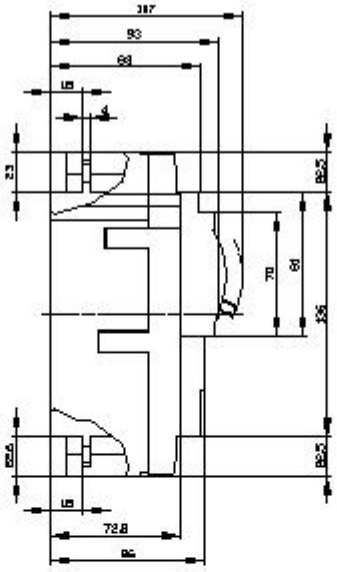

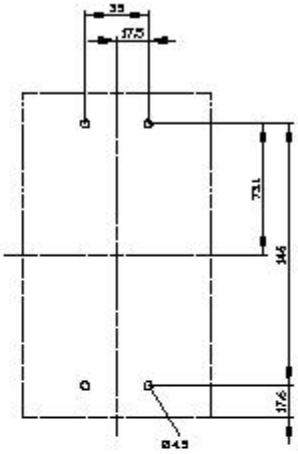

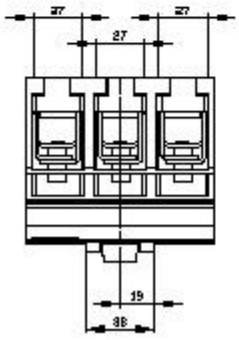

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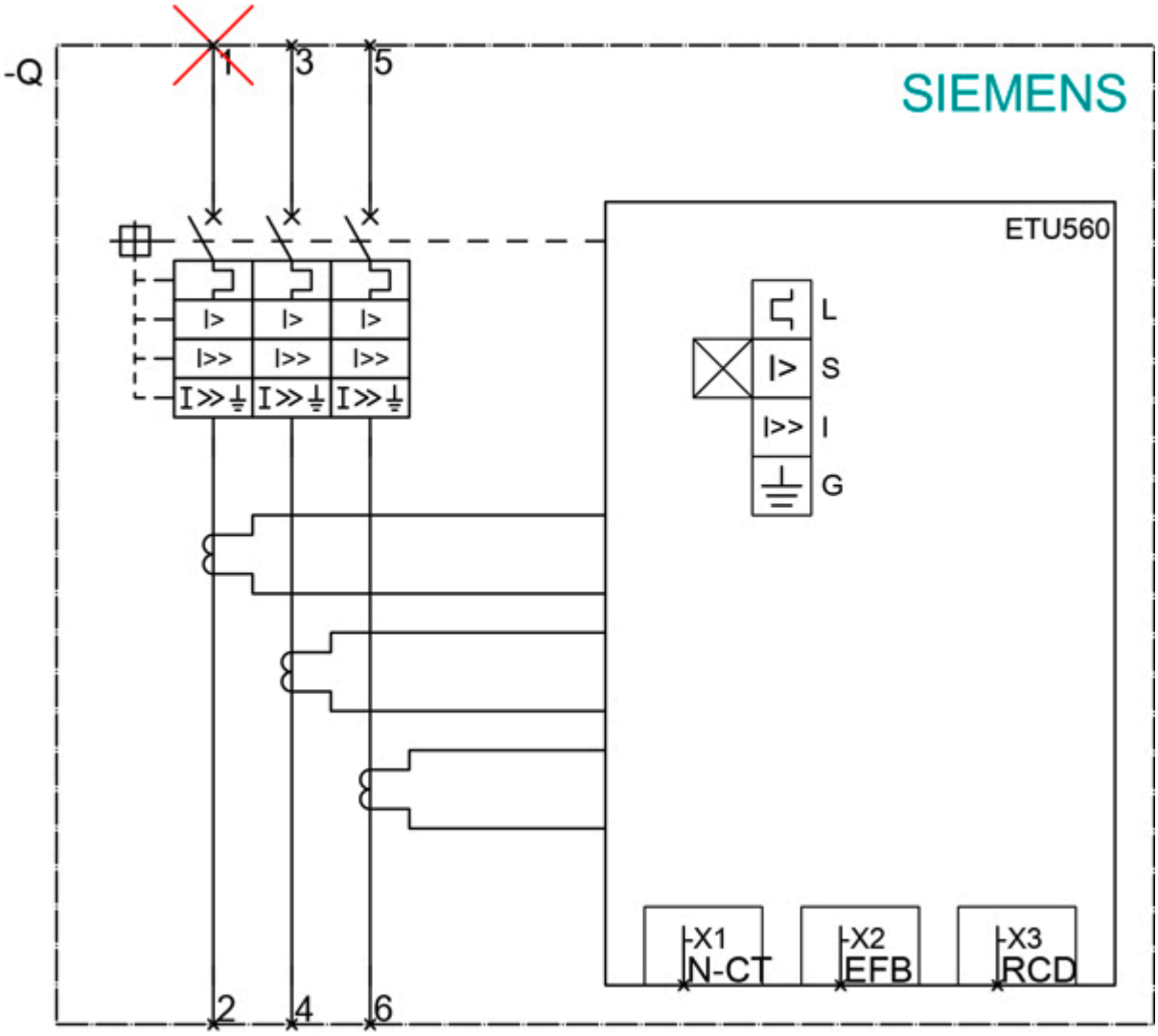

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