SIEMENS

Data sheet 3VA2116-5HN42-0AA0

Siemens EcoTech



circuit breaker 3VA2 IEC Frame 160 breaking capacity class M Icu=55 kA @ 415 V 4-pole, line protection ETU350, LSI, In=160 A overload protection Ir=63 A...160 A short-circuit protection Isd=1.5...10 x Ir, Ii=10 x In neutral conductor protection adjustable (OFF, 50%, 100%) nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	ETU350
protection function of the overcurrent release	LSI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	25.5 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	8.5 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	14 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	9 800
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
● communication function	No
● other measurement function	No
Net Weight	2.673 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	M
maximum short-circuit current breaking capacity (Icu)	
● at 240 V	85 kA

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● at 415 V	55 kA
● at 440 V	55 kA
● at 500 V	36 kA
● at 690 V	3 kA
operating short-circuit current breaking capacity (Ics)	
● at 240 V	85 kA
● at 415 V	55 kA
● at 440 V	55 kA
● at 500 V	36 kA
● at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
● at 240 V	187 kA
● at 415 V	121 kA
● at 440 V	121 kA
● at 500 V	75.6 kA
● at 690 V	3.7 kA
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
● minimum	63 A
● maximum	160 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
● minimum	0.5 s
● maximum	17 s
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
● minimum	94 A
● maximum	1 600 A
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic	
● minimum	0.0001 s
● maximum	0.4 s
adjustable response value setting current (Ii) / for I-tripping	
● minimum	1 600 A
● maximum	1 600 A
adjustable setting current (InN) / for N-tripping	
● minimum	31 A
● maximum	160 A
design of the N-conductor protection	adjustable OFF; 50%; 100%
product function / grounding protection	No
Mechanical Design	
product component	
● undervoltage release	No
● voltage trigger	No
● trip indicator	No
height [in]	7.13 in
height	181 mm
width [in]	5.51 in
width	140 mm
depth [in]	3.39 in
depth	86 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-sections / for flat-bar terminal connection / minimum	13 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	25 x 8 mm

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design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	tin
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	tin
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
Environmental footprint	
global warming potential [CO2 eq] / total	61.814 kg
global warming potential [CO2 eq] / during manufacturing	14.6 kg
global warming potential [CO2 eq] / during operation	48.9 kg
global warming potential [CO2 eq] / after end of life	-2.2 kg
Siemens eco profile (SEP)	Siemens EcoTech
reference code / according to IEC 81346-2	Q

Approvals / Certificates

General Product Approval

Miscellaneous

TUEV

General Product Approval

Confirmation

EMV

Test Certificates

Miscellaneous

Special Test Certific-ate

Test Certificates

Type Test Certific-ates/Test Report

Maritime application

CCS (China Classifica-tion Society)

other

Miscellaneous

Miscellaneous

Confirmation

Dangerous goods

Transport Information

Environment

Environmental Con-firmations

Environment

Environmental Con-firmations

Further information

Information on the packaging

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https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012

Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2116-5HN42-0AA0

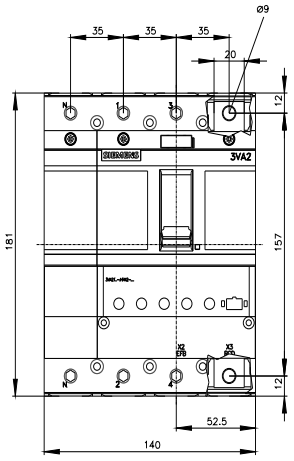
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA2116-5HN42-0AA0

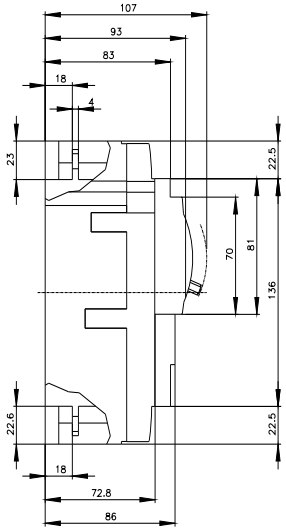
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2116-5HN42-0AA0

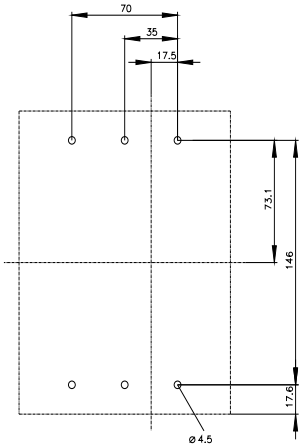
CAx-Online-Generator
https://www.siemens.com/cax

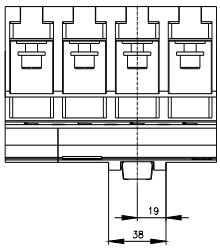
Tender specifications
https://www.siemens.com/specifications

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https://curves.simaris.siemens.com/curves/3VA2116-5HN42-0AA0

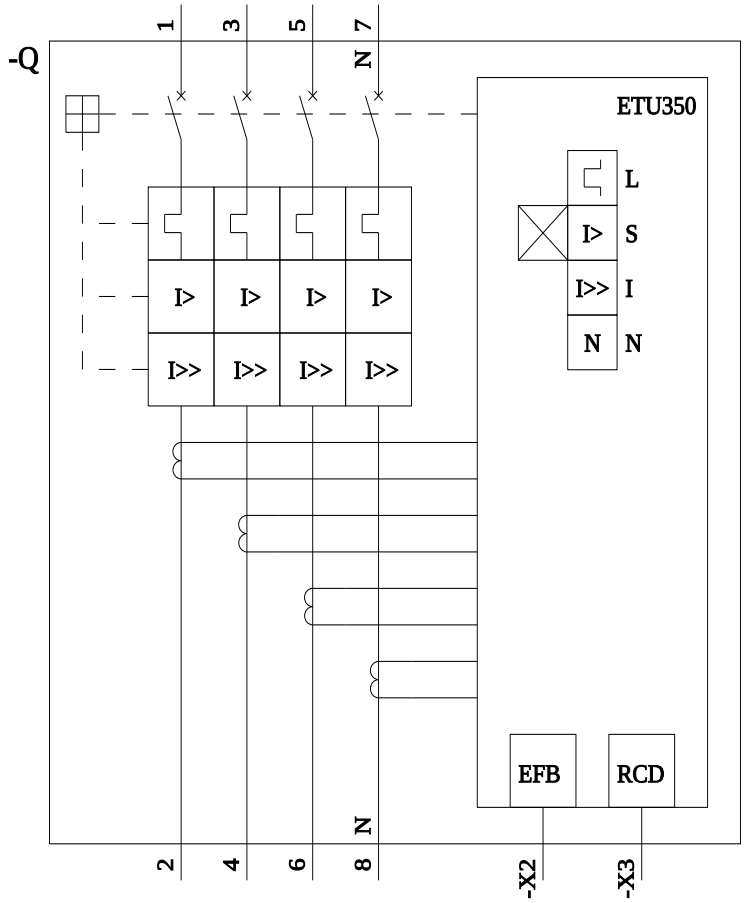








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