SIEMENS

Data sheet 3VA2510-7KQ32-0AA0

circuit breaker 3VA2 IEC Frame 1000 breaking capacity class C Icu=110 kA @ 415 V 3-pole, line protection ETU860, LSIG, In=1000 A overload protection Ir=400 A...1000 A short-circuit protection Isd=0.6..10x In, Ii=1.5..10x In neutral conductor protection optionally with external current transformer, up to 160% ground-fault protection, can be switched off Ig=0.2...1 x In, tg=0.05-0.8s 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	ETU860
protection function of the overcurrent release	LSIG
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	330 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	110 W
mechanical service life (operating cycles) / typical	10 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 900
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 400
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	Yes
ground-fault monitoring version	Summation current formation L-conductor
product function	
● communication function	Yes
● other measurement function	Yes
Net Weight	14.34 kg
Current	
operational current	
● at 40 °C	1 000 A
● at 45 °C	1 000 A
● at 50 °C	1 000 A
● at 55 °C	1 000 A
● at 60 °C	955 A
● at 65 °C	885 A
● at 70 °C	815 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	C
maximum short-circuit current breaking capacity (Icu)	
● at 240 V	200 kA
● at 415 V	110 kA
● at 440 V	110 kA
● at 500 V	85 kA
● at 690 V	35 kA
operating short-circuit current breaking capacity (Ics)	

● at 240 V	150 kA
● at 415 V	85 kA
● at 440 V	70 kA
● at 500 V	65 kA
● at 690 V	19 kA
short-circuit current making capacity (Icm)	
● at 240 V	440 kA
● at 415 V	242 kA
● at 440 V	242 kA
● at 500 V	187 kA
● at 690 V	73.5 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	400 A
● maximum	1 000 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
● minimum	0.5 s
● maximum	25 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic	
● minimum	600 A
● maximum	10 000 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
● minimum	600 A
● maximum	10 000 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic	
● minimum	0.05 s
● maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic	
● minimum	0.05 s
● maximum	0.5 s
adjustable response value setting current (Ii) / for I-tripping	
● minimum	1 500 A
● maximum	10 000 A
adjustable current response value current / for G-tripping / with standard characteristic	
● initial value	200 A
● full-scale value	1 000 A
adjustable response value delay time (tg) / for G-tripping / with I0t characteristic	
● minimum	0.05 s
● maximum	0.8 s
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic	
● minimum	200 A
● maximum	1 000 A
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic	
● minimum	0.05 s
● maximum	0.8 s
adjustable setting current (InN) / for N-tripping	
● minimum	200 A
● maximum	1 600 A
design of the N-conductor protection	adjustable OFF; 20% to 160%
product function / grounding protection	Yes
Mechanical Design	
product component	
● undervoltage release	No

• voltage trigger	No
• trip indicator	No
height [in]	12.6 in
height	320 mm
width [in]	8.27 in
width	210 mm
depth [in]	4.72 in
depth	120 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	20 x 4 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	50 x 28 mm
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	silver
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	silver
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	No
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
reference code / according to IEC 81346-2	Q

Approvals / Certificates

General Product Approval

CCC, EG-Konf., VDE, Miscellaneous, EAC

EMV

RCM

Test Certificates

Special Test Certificate | Type Test Certificates/Test Report | Miscellaneous

Maritime application

ABS, BUREAU VERITAS, DNV

Maritime application

LRS, RMRS, CCS (China Classification Society)

other

Confirmation | Miscellaneous

Dangerous goods

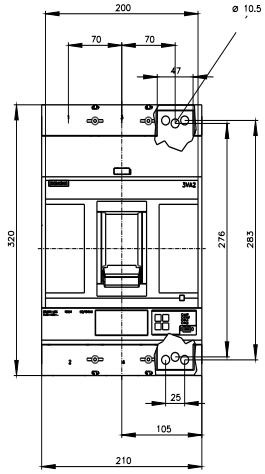
Transport Information

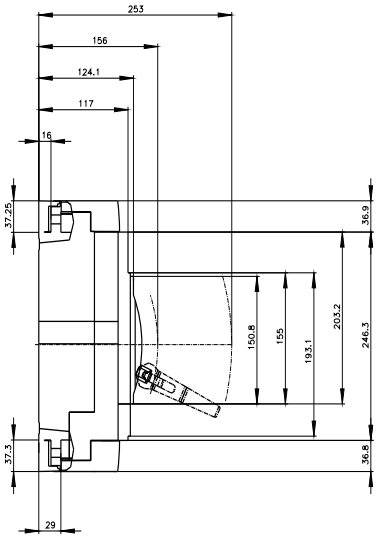
Environment

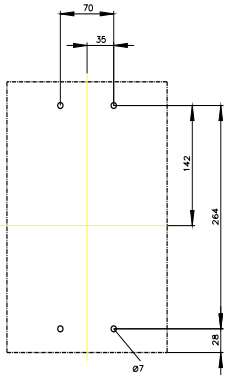
Environmental Confirmations | Environmental Confirmations

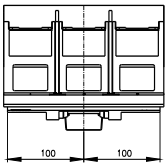
Further information

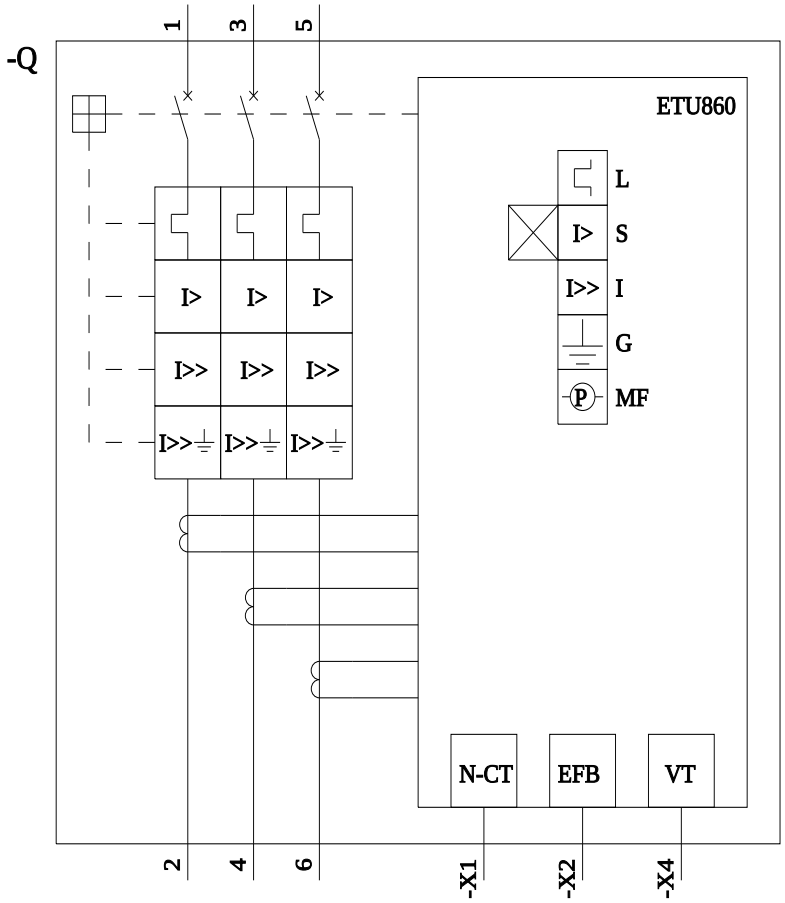
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2510-7KQ32-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA2510-7KQ32-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2510-7KQ32-0AA0
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications











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