SIEMENS

Data sheet 3VA6225-5HN31-0AA0

Siemens EcoTech



circuit breaker 3VA6 UL Frame 250 breaking capacity class M 35 kA @ 480 V 3-pole, line protection ETU350, LSI, In=250 A overload protection Ir=100 A...250 A short-circuit protection Isd=1.5...10 x Ir, Ii=10 x In without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MFAE
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 overcurrent release	ETU350
protection function of the overcurrent release	LSI
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	42 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	14 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	12 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	8 400
electrical endurance (operating cycles) / at 480 V	12 000
electrical endurance (operating cycles) / at 600 V	8 400
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	2.15 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
● at 40 °C	250 A
● at 45 °C	250 A
● at 50 °C	250 A
● at 55 °C	241 A
● at 60 °C	232 A
● at 65 °C	222 A

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● at 70 °C	213 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
● at 415 V	55 kA
● at 690 V	3 kA
operating short-circuit current breaking capacity (Ics)	
● at 240 V	85 kA
● at 415 V	55 kA
● at 690 V	3 kA
short-circuit current making capacity (Icm)	
● at 240 V	187 kA
● at 415 V	121 kA
● at 690 V	4.5 kA
Switching capacity according to UL 489	
current breaking capacity	
● at 240 V	100 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	100 A
● maximum	250 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
● minimum	0.5 s
● maximum	13 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic	
● minimum	375 A
● maximum	2 500 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
● minimum	375 A
● maximum	2 500 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	2 500 A
● maximum	2 500 A
adjustable setting current (InN) / for N-tripping	
● minimum	0 A
● maximum	0 A
product function / grounding protection	No
Mechanical Design	
product component	
● undervoltage release	No
● voltage trigger	No
● trip indicator	No
height [in]	7.8 in
height	198 mm
width [in]	4.13 in
width	105 mm
depth [in]	3.39 in
depth	86 mm
Connections	

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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	
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	
Environmental Product Declaration(EPD)	Yes
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 | Miscellaneous

General Product Approval | **EMV**

TUEV | Confirmation

Test Certificates | **Maritime application**

Type Test Certific-ates/Test Report | Miscellaneous

other | **Dangerous goods** | **Environment**

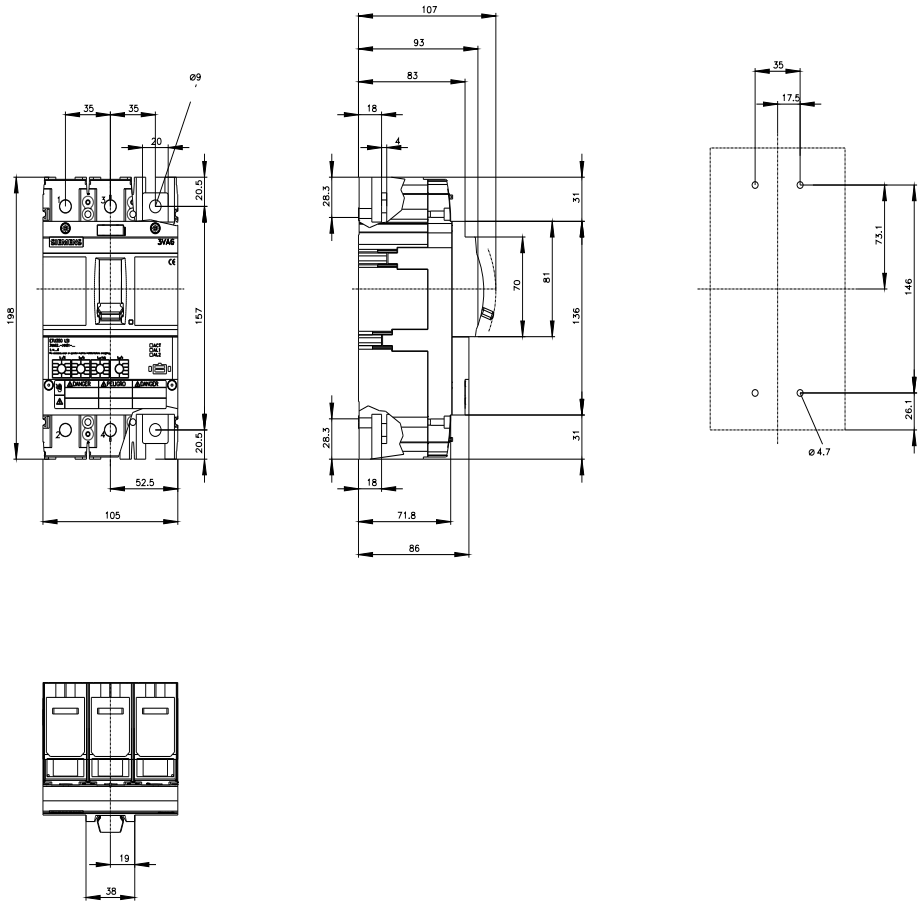
Miscellaneous | Confirmation | Transport Information | Environmental Con-firmations

Further information

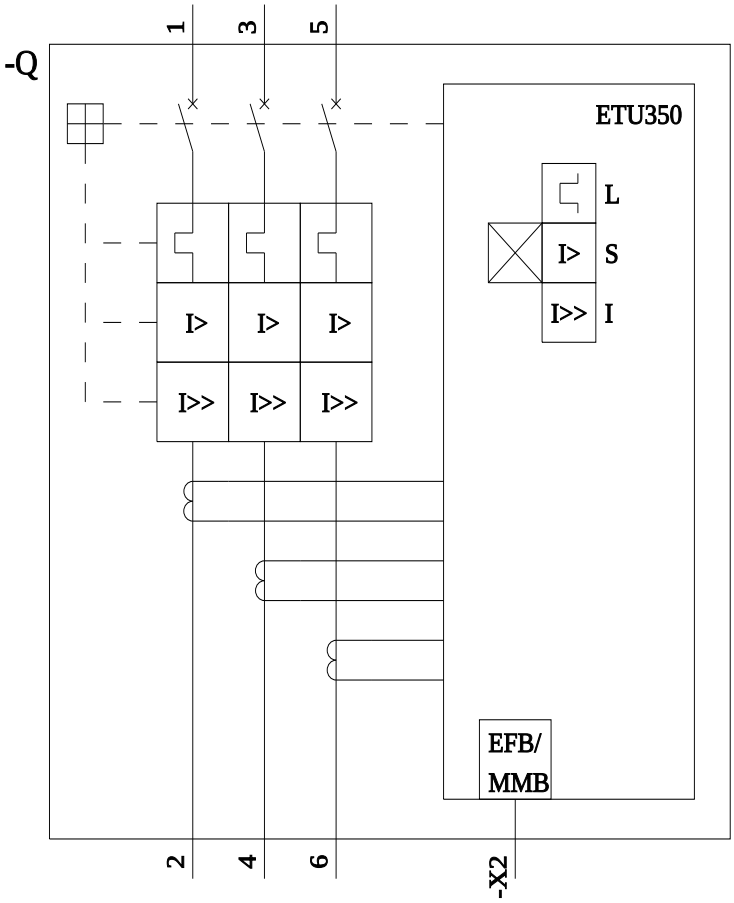
Information on the packaging
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Information for data generation and storage
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Information- and Downloadcenter (Catalogs, Brochures,…)
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Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6225-5HN31-0AA0
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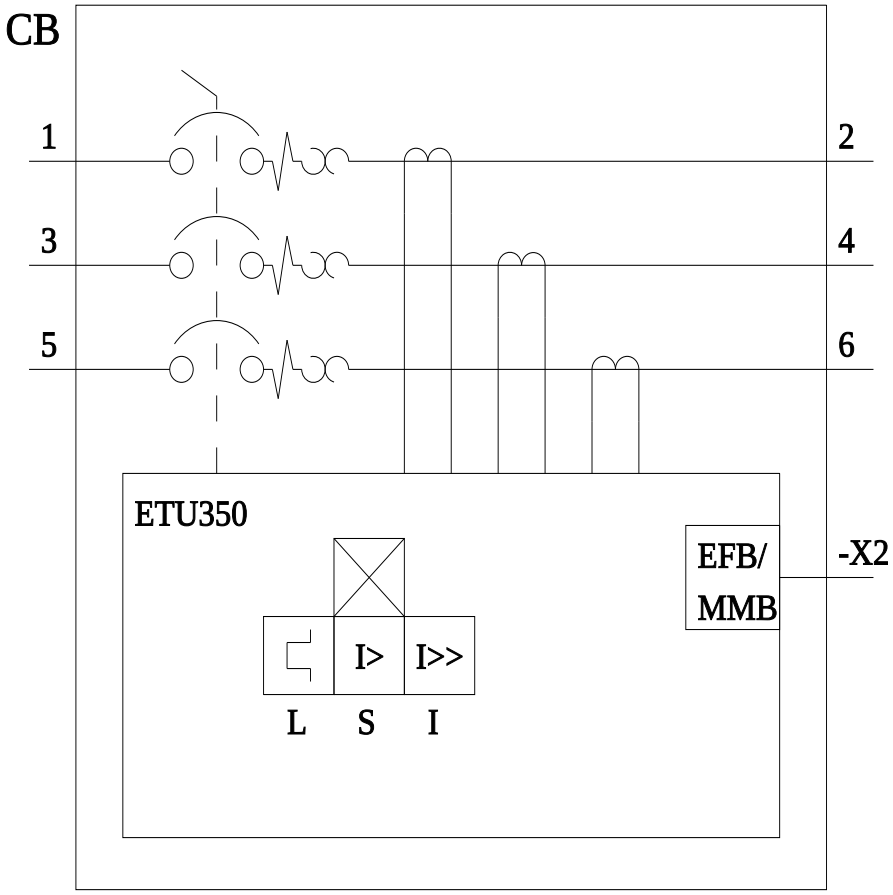
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