



circuit breaker 3VT1 standard breaking capacity Icu=25kA, 415V AC
4-pole, line protection trip unit TM, LIN In=160A rated current
IR=125...160A overload prot. II=800...1600A, short-circuit protection
N conductor protected without auxiliary release without
auxiliary/alarm switch

Model	
Product brand name	SENTRON
Product designation	3VT1_5 molded case circuit breakers
Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	TM
General technical data	
Number of poles	4
Size of the circuit-breaker	3VT1
Electrical endurance (switching cycles) / typical	6 000
Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	20 000
Operating frequency / maximum	120 1/h
Voltage	
Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	8 kV
Protection class	

Protection class IP	IP40
Protective function of the overcurrent release	LIN
Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	5 W
Electricity	
Operating current / at 45 °C / rated value	145 A
Continuous current / rated value	160 A
Derating temperature / for the rated value of the continuous current	40 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	160 A
• of instantaneous short-circuit trip unit / initial value	800 A
• of instantaneous short-circuit trip unit / Full-scale value	1 600 A
Main circuit	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating voltage	
• rated value / maximum	690 V
• for main current circuit / at AC / at 50 Hz / maximum	690 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V
• for main current circuit / at DC / maximum	440 V
Operating current	
• at 40 °C / rated value	160 A
• at 50 °C / rated value	145 A
Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	0
Suitability	
Suitability for use	system protection
• Disconnecting means	Yes
Adjustable parameters	
Adjustable pick-up value current / of the current-dependent overload release / initial value	125 A

Product details

Product component	
• Trip indicator	No
• Auxiliary switch	No
• Voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No
Product extension / optional / motor drive	Yes

Product function

Product function	
• of thermal overload trip unit	adjustable
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	Yes
• Phase failure detection	No
• Overload protection	Yes

Short circuit

Operational short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	20 kA
• at 415 V / rated value	13 kA
• at 500 V / rated value	6 kA
• at 690 V / rated value	3 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	40 kA
• at 415 V / rated value	25 kA
• at 500 V / rated value	12 kA
• at 690 V / rated value	6 kA

Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	box terminal

Mechanical Design

Height	130 mm
Width	100 mm
Depth	80 mm
Mounting position	with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
Mounting type	fixed mounting
Net weight	1.336 kg

Environmental conditions

Ambient temperature	
• during operation / minimum	-40 °C
• during operation / maximum	55 °C
• during storage / minimum	-40 °C
• during storage / maximum	55 °C

Certificates

Reference code	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

General Product Approval	Declaration of Conformity	Test Certificates	other
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CCC



EG-Konf.

[Type Test Certificates/Test Report](#)

[Miscellaneous](#)

[Manufacturer Declaration](#)

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=3VT1716-2EJ46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VT1716-2EJ46-0AA0>

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

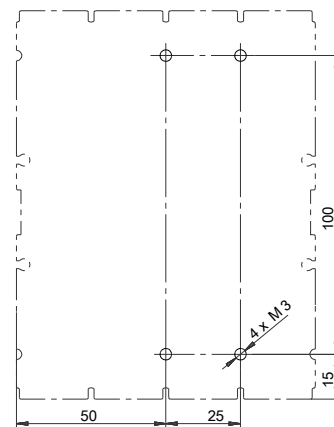
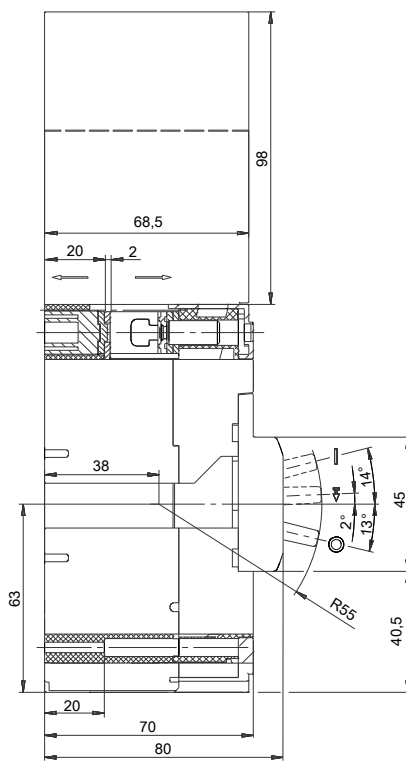
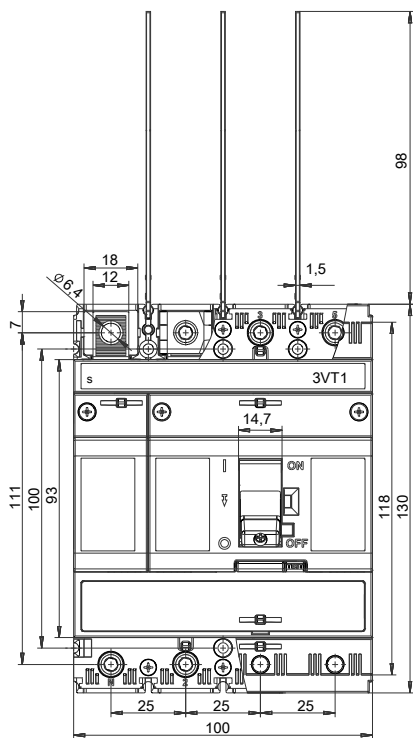
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VT1716-2EJ46-0AA0

CAX-Online-Generator

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

Tender specifications

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



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