SIEMENS

Data sheet 3VA1563-5MH32-0AA0

circuit breaker 3VA1 IEC frame 1000 breaking capacity class M Icu=55kA @ 415V 3-pole, starter protection TM120M, AM, In=630A without overload protection short-circuit protection Ii=8...15 x In nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
Product version	Starter protection
design of the overcurrent release	TM120M
protection function of the overcurrent release	I
number of poles	3
General technical data	
rated insulation voltage Ui	800 V
power loss [W] / maximum	132 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	44 W
mechanical service life (switching cycles) / typical	10 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	4 600
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	3 200
Neutral conductors / upgradeable/retrofittable	No
ground-fault monitoring version	Without
product function	
● communication function	No
● phase failure detection	No
● other measurement function	No
Net Weight	13,695 kg
Current	
Max. rated operational current of the frame size	1 000 A
Courant permanent assigné Iu	630 A
operational current	
● at 40 °C	630 A
● at 45 °C	630 A
● at 50 °C	630 A
● at 55 °C	618 A
● at 60 °C	607 A
● at 65 °C	595 A
● at 70 °C	583 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
breaking capacity maximum short-circuit current (Icu)	
● at 240 V	85 kA
● at 415 V	55 kA

• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	25 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	19 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	52.5 kA
Adjustable parameters	
Adjustable response value current / Ii min.	5 040 A
Adjustable response value current / Ii max.	9 450 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
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	nut keeper kit on both ends
Type of connectable conductor cross-section, connection screw, width x thickness , min.	20 x 4 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	50 x 28 mm
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
Certificates	
reference code / acc. to IEC 81346-2	Q

General Product Approval			EMC	Declaration of Conformity
CCC	VDE	Miscellaneous	RCM	EG-Konf.

Declaration of Conformity	Test Certificates	Marine / Shipping	other

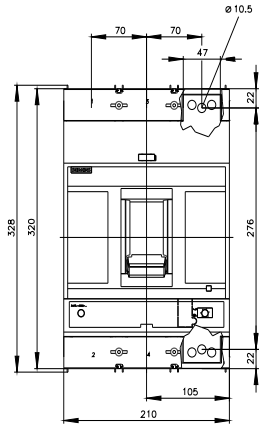
UK Declaration of Conformity	Special Test Certific-ate	Miscellaneous	DNV	LRS	Miscellaneous

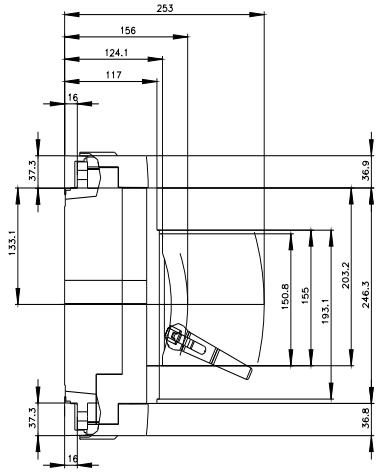
other

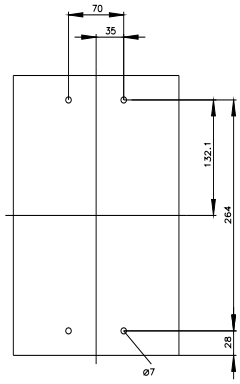
Miscellaneous

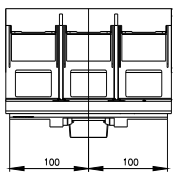
Further information

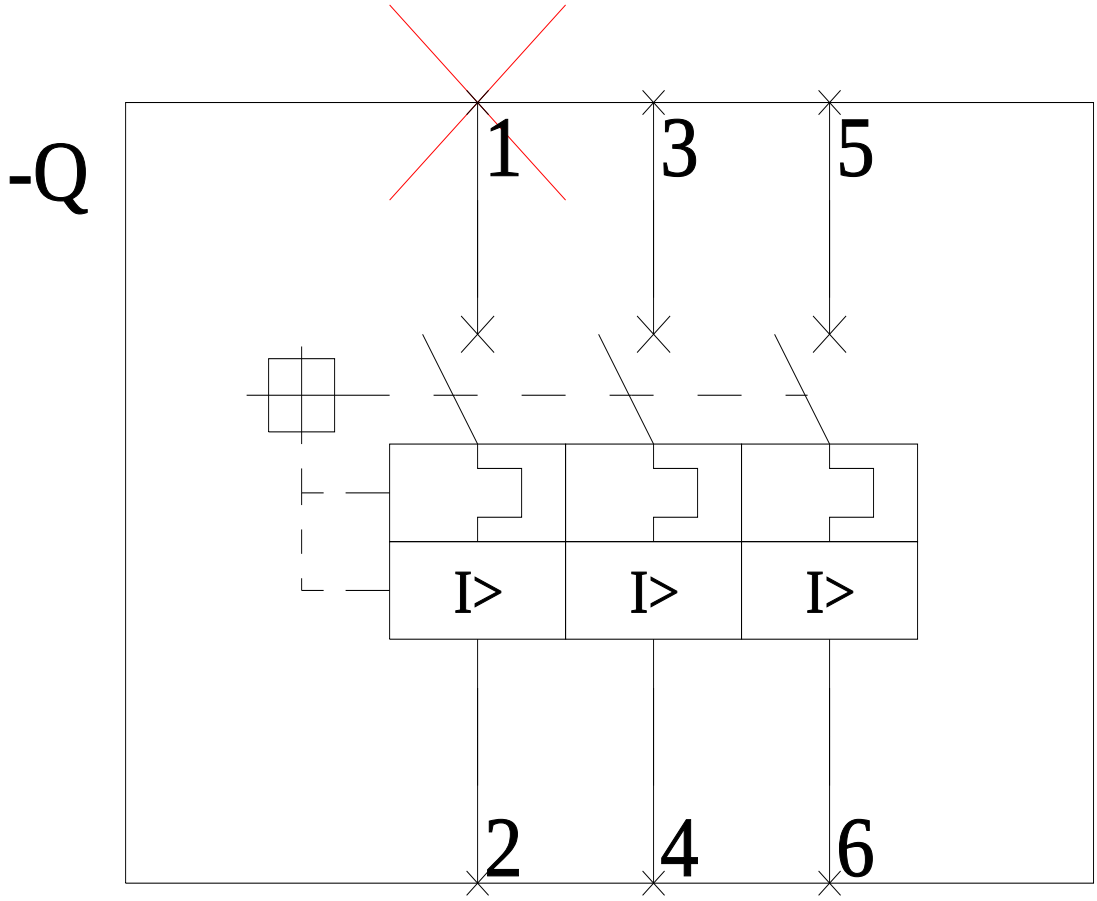
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1563-5MH32-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA1563-5MH32-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1563-5MH32-0AA0
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications











last modified: 10/2/2021