SIEMENS

Data sheet 3VJ1012-1EA42-0AA0

circuit breaker 3VJ1 IEC framesize 3VJ10 125A line protection FTFM 4-pole Icu=18kA@415V Ics=75% Icu In=125A overload protection Ir=125A short-circuit protection Ii=10 x In Screw connection

Model	
product brand name	SINOPLUS
product designation	Molded Case Circuit Breaker
design of the product	Line protection
design of the overcurrent release	FTFM
protection function of the overcurrent release	LI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	38 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	9.5 W
mechanical service life (operating cycles) / typical	15 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	5 000
ground-fault monitoring version	without
Net Weight	1.06 kg
Current	
continuous current / rated value	125 A
operational current	
● at 40 °C	125 A
● at 45 °C	125 A
● at 50 °C	125 A
● at 55 °C	121.5 A
● at 60 °C	118 A
Switching capacity according to IEC 60947	
maximum short-circuit current breaking capacity (Icu)	
● at 415 V	18 kA
operating short-circuit current breaking capacity (Ics)	
● at 415 V	13.5 kA
short-circuit current making capacity (Icm)	
● at 415 V	36 kA
Adjustable parameters	
adjustable current response value current / of the current-dependent overload release	125 A
adjustable current response value current / of instantaneous short-circuit trip unit	
● minimum	1 250 A
● maximum	1 250 A
design of the N-conductor protection	1

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product function / grounding protection	No
Mechanical Design	
product component	
● undervoltage release	No
● trip indicator	No
height	126 mm
width	103.5 mm
depth	68 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	Lug connection line and load side
Accessories	
product extension / optional / motor drive	No
Environmental conditions	
protection class IP / on the front	IP42
ambient temperature	
● during operation / minimum	-10 °C
● during operation / maximum	60 °C
● during storage / minimum	-15 °C
● during storage / maximum	75 °C
Approvals / Certificates	
Test Certificates	**other**

Type Test Certific-ates/Test Report

Confirmation

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,…)
https://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VJ1012-1EA42-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VJ1012-1EA42-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VJ1012-1EA42-0AA0
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications
Kennlinien
https://curves.simaris.siemens.com/curves/3VJ1012-1EA42-0AA0

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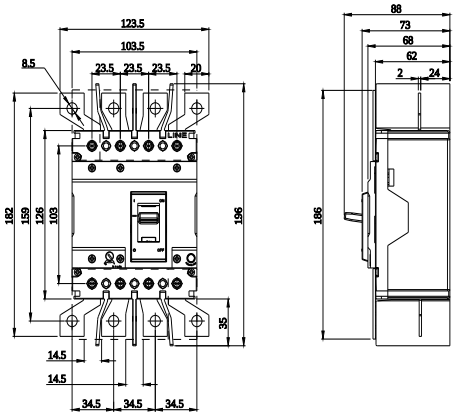

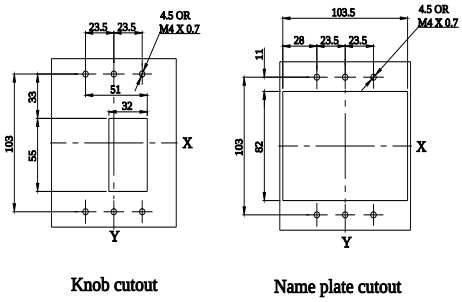

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