SIEMENS

Data sheet

3VJ1110-7EB42-0AA0



circuit breaker 3VJ1 IEC framesize 3VJ11 125A line protection ATFM 4-pole lcu=55kA@415V lcs=75% lcu ln=100A overload protection lr=80A...100A short-circuit protection li=10 x ln Screw connection

product design of the product Line protection Line	Model	
design of the overcurrent release protection function of the overcurrent release LI number of poles 4 General technical data insulation voltage / rated value 1000 V operating voltage / at AC / rated value 415 V power loss [W] / maximum 42 W power loss [W] / maximum 42 W power loss [W] / rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical 10.5 W perating state / per pole electrical endurance (operating cycles) / tat AC-1 / at 380/415 V 5000 perating district monitoring version without 1.82 kg Current Continuous current / rated value 100 A 1.82 kg Current 31 45 °C 100 A 1.85 °C 100 °C 1	product designation	Molded Case Circuit Breaker
protection function of the overcurrent release 4 number of poles 4 General technical data insulation voltage / rated value 1000 V operating voltage / rated value 415 V power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical 15 000 electrical endurance (operating cycles) / typical 15 000 electrical endurance (operating cycles) / typical 15 000 ground-fault monitoring version without Net Weight 1.82 kg Current continuous current / rated value 100 A operational current version 1 000 A operational current version 100 A operating appacity according to IEC 60947 maximum short-circuit current breaking capacity (Ico) operating short-circuit current breaking capacity (Ics) operating short-circuit current breaking capacity (Icm) operating short-circuit current preserve value current version versi	design of the product	Line protection
number of poles General technical data insulation voltage / rated value operating voltage / at AC / rated value power loss [W] / maximum power loss [W] / maximum power loss [W] / maximum power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical mechanical service life (operating cycles) / ta AC-1 / at 380/415 V ground-fault monitoring version Net Weight 1.82 kg Current continuous current / rated value operational current • at 40 °C • at 45 °C 100 A • at 55 °C • at 50 °C • at 51 °C • at 50 °C • at 51 °C • at 52 °C • at 51 °C • at 52 °C • at 51 °C • at 52 °C • at 51 °C • at 52 °C • at 52 °C • at 51 °C • at 51 °C • at 51 °C • at 52 °C • at 5	design of the overcurrent release	ATFM
Insulation voltage / rated value	protection function of the overcurrent release	Ц
insulation voltage / rated value	number of poles	4
Operating voltage / at AC / rated value	General technical data	
power loss [W] / maximum 42 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 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 1.82 kg Current Continuous current / rated value 100 A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	insulation voltage / rated value	1 000 V
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 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 1.82 kg Current continuous current / rated value 100 A operational current • at 40 °C 100 A • at 45 °C 100 A • at 45 °C 100 A • at 55 °C 97.2 A • at 60 °C 94.4 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V 55 kA operating short-circuit current breaking capacity (Ics) • at 415 V 41.25 kA short-circuit current making capacity (Icm) • at 415 V 121 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit tir unit • minimum • maximum • design of the N-conductor protection 1 product function / grounding protection No	operating voltage / at AC / rated value	415 V
operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V ground-fault monitoring version without Net Weight 1.82 kg Current continuous current / rated value 100 A operational current • at 40 °C 100 A • at 45 °C 100 A • at 45 °C 100 A • at 55 °C 97.2 A • at 60 °C 97.2 A • at 60 °C 94.4 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V 55 kA operating short-circuit current breaking capacity (Ics) • at 415 V 41.25 kA short-circuit current making capacity (Icm) • at 415 V 41.25 kA Adjustable parameters adjustable current response value current / of instantaneous short-circuit trip unit • minimum 1000 A • maximum 1000 A essign of the N-conductor protection 10 product function / grounding protection	power loss [W] / maximum	42 W
electrical endurance (operating cycles) / at AC-1 / at 380/415 V 5 000 ground-fault monitoring version without Net Weight 1.82 kg Current continuous current / rated value 100 A operational current • at 40 °C 100 A • at 50 °C 100 A • at 55 °C 97.2 A • at 60 °C 97.2 A • at 60 °C 97.2 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V 55 kA operating short-circuit current breaking capacity (Ics) • at 415 V 41.25 kA short-circuit current making capacity (Icm) • at 415 V 121 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum 1 000 A design of the N-conductor protection 1 product function / grounding protection No		10.5 W
ground-fault monitoring version without Net Weight 1.82 kg Current Continuous current / rated value 100 A operational current • at 40 °C 100 A • at 45 °C 100 A • at 55 °C 97.2 A • at 60 °C 97.2 A • at 60 °C 94.4 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V 55 kA operating short-circuit current breaking capacity (Ics) • at 415 V 41.25 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum 1 000 A design of the N-conductor protection 1 product function / grounding protection No	mechanical service life (operating cycles) / typical	15 000
Net Weight Current continuous current / rated value operational current • at 40 °C • at 45 °C • at 50 °C • at 60 °C • at 60 °C • at 60 °C • at 60 °C • at 45 °C • at 60 °C • at 55 °C • at 60 °C • at 45 °C • at 60 °C • at 55 °C • at 60 °C Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (lcu) • at 415 V operating short-circuit current breaking capacity (lcs) • at 415 V short-circuit current making capacity (lcm) • at 415 V Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum • maximum 1 000 A design of the N-conductor protection 1 product function / grounding protection	electrical endurance (operating cycles) / at AC-1 / at 380/415 V	5 000
continuous current / rated value operational current • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 55 °C • at 60 °C Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V operating short-circuit current breaking capacity (Ics) • at 415 V short-circuit current making capacity (Icm) • at 415 V Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit try unit • minimum • maximum • maximum 1 000 A design of the N-conductor protection 1 product function / grounding protection No	ground-fault monitoring version	without
continuous current / rated value 100 A operational current • at 40 °C 100 A • at 45 °C 100 A • at 50 °C 100 A • at 60 °C 97.2 A • at 60 °C 97.2 A • at 60 °C 94.4 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V 55 kA operating short-circuit current breaking capacity (Ics) • at 415 V 41.25 kA short-circuit current making capacity (Icm) • at 415 V 121 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum 1 000 A • maximum 1 000 A design of the N-conductor protection 1 product function / grounding protection	Net Weight	1.82 kg
operational current • at 40 °C • at 45 °C • at 50 °C • at 50 °C • at 60 °C Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V • at 415 V operating short-circuit current breaking capacity (Ics) • at 415 V short-circuit current making capacity (Icm) • at 415 V short-circuit current making capacity (Icm) • at 415 V short-circuit current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum 1 000 A • maximum 1 000 A design of the N-conductor protection 1 product function / grounding protection	Current	
at 40 °C at 45 °C at 45 °C at 50 °C at 50 °C at 60 °C at 60 °C at 45 °C at 60 °C at 60 °C at 415 V at	continuous current / rated value	100 A
at 45 °C at 50 °C at 55 °C at 60 °C Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) at 415 V operating short-circuit current breaking capacity (Ics) at 415 V operating short-circuit current making capacity (Icm) at 415 V 41.25 kA Short-circuit current making capacity (Icm) at 415 V 121 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit minimum minim	operational current	
at 55 °C at 60 °C 97.2 A 97.2 A 94.4 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) at 415 V 55 kA operating short-circuit current breaking capacity (Ics) at 415 V 41.25 kA short-circuit current making capacity (Icm) at 415 V 121 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit minimum mi	• at 40 °C	100 A
at 55 °C at 60 °C 97.2 A 94.4 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) at 415 V operating short-circuit current breaking capacity (Ics) at 415 V 41.25 kA short-circuit current making capacity (Icm) at 415 V 121 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit minimum 1 000 A maximum design of the N-conductor protection product function / grounding protection No	● at 45 °C	100 A
at 60 °C Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) at 415 V operating short-circuit current breaking capacity (Ics) at 415 V short-circuit current making capacity (Icm) at 415 V 121 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit minimum	• at 50 °C	100 A
Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V operating short-circuit current breaking capacity (Ics) • at 415 V short-circuit current making capacity (Icm) • at 415 V 121 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum 1 000 A design of the N-conductor protection product function / grounding protection No	● at 55 °C	97.2 A
maximum short-circuit current breaking capacity (Icu) • at 415 V operating short-circuit current breaking capacity (Ics) • at 415 V short-circuit current making capacity (Icm) • at 415 V 121 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum 1 000 A • maximum 1 000 A design of the N-conductor protection product function / grounding protection No	• at 60 °C	94.4 A
at 415 V operating short-circuit current breaking capacity (Ics) at 415 V short-circuit current making capacity (Icm) at 415 V short-circuit current making capacity (Icm) at 415 V short-circuit current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit aminimum short-circuit trip unit aminimum short-circuit response value current / of instantaneous short-circuit rip unit aminimum short-circuit response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit rip unit aminimum short-circuit current making capacity (Ics) short-circuit current making capacity (Icm) short-circuit current making capacity (Ics) short-circuit current making capacity (Icm) short-circuit current m	Switching capacity according to IEC 60947	
operating short-circuit current breaking capacity (Ics) • at 415 V short-circuit current making capacity (Icm) • at 415 V Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum 1 000 A design of the N-conductor protection product function / grounding protection No	maximum short-circuit current breaking capacity (Icu)	
at 415 V short-circuit current making capacity (Icm) at 415 V Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit minimum maximum 1 000 A e maximum 1 000 A design of the N-conductor protection product function / grounding protection No	• at 415 V	55 kA
short-circuit current making capacity (Icm) • at 415 V Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum 1 000 A • maximum 1 000 A design of the N-conductor protection 1 product function / grounding protection No	operating short-circuit current breaking capacity (lcs)	
at 415 V Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit minimum	• at 415 V	41.25 kA
Adjustable parameters adjustable current response value current / of the current- dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum 1 000 A design of the N-conductor protection product function / grounding protection No	short-circuit current making capacity (Icm)	
adjustable current response value current / of the current- dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum 1 000 A design of the N-conductor protection product function / grounding protection No	● at 415 V	121 kA
dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum 1 000 A design of the N-conductor protection product function / grounding protection No	Adjustable parameters	
short-circuit trip unit		80 100 A
● maximum 1 000 A design of the N-conductor protection 1 product function / grounding protection No		
design of the N-conductor protection 1 product function / grounding protection No	• minimum	1 000 A
product function / grounding protection No	• maximum	1 000 A
	design of the N-conductor protection	1
Mechanical Design	product function / grounding protection	No

height	150 mm
width	122 mm
depth	85 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 Certificates/Test Report

Confirmation

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3VJ1110-7EB42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VJ1110-7EB42-0AA0

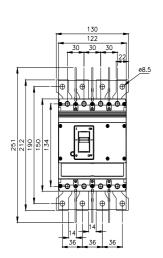
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VJ1110-7EB42-0AA0

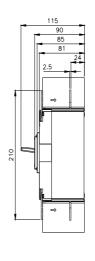
CAx-Online-Generator

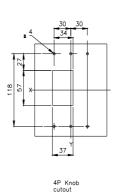
http://www.siemens.com/cax

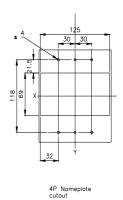
Tender specifications

http://www.siemens.com/specifications









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