3VJ1105-3DB32-0AA0

Data sheet



circuit breaker 3VJ1 IEC framesize 3VJ11 125A line protection ATFM 3-pole Icu=25kA@415V Ics=75% Icu In=50A overload protection Ir=40A...50A short-circuit protection Ii=600A Screw connection

design of the product Line protection Line protection Line protection Line protection Line protection Line protection function of the overcurrent release	Model	
design of the overcurrent release protection function of the overcurrent release LI commerce of poles 3 General technical data insulation voltage / rated value 1000 V operating voltage / at AC / rated value 1415 V power loss [W] / maximum 31.5 W power loss [W] / maximum 31.5 W power loss [W] / 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) / at AC-1 / at 380/415 V 5 000 ground-fault monitoring version without 1.42 kg Gurrent Continuous current / rated value 50 A perational current end of C 50 A 145 ° C 50 A 50	product designation	Molded Case Circuit Breaker
protection function of the overcurrent release 3 General technical data insulation voltage / rated value 1000 V operating voltage / rated value 415 V operating voltage / rated value 415 V operating voltage / rated value 115 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) / typical 15 000 ground-fault monitoring version 1142 kg Gurrent continuous current / rated value 50 A operational current volume 50 A operating short-circuit current breaking capacity (Icu) • at 45 ° C • at 60 ° C • at 60 ° C • at 61 ° V Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Ics) • at 415 V sort-circuit current making capacity (Icm) • at 415 V sort-circuit current making capacity (Icm) • at 415 V sort-circuit current pose value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit try out it • minimum • mini	design of the product	Line protection
number of poles General technical data insulation voltage / rated value operating voltage / at AC / rated value operating voltage / at AC / rated value 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) / typical mechanical service life (operating cycles) / typical mechanical service life (operating cycles) / ta AC-1 / at 380/415 V ground-fault monitoring version Net Weight 1.42 kg Current continuous current / rated value 50 A operational current • at 40 °C • at 45 °C • at 50 °C • at 50 °C • at 55 °C • at 50 °C • at 51 °C • at 52 °C • at 53 °C • at 50 °C • at 55 °C • at 50 °C •	design of the overcurrent release	ATFM
insulation voltage / rated value 1000 V operating voltage / at AC / rated value 415 V power loss [W] / for 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) / at AC-1 / at 380/415 V 5000 ground-fault monitoring version without Net Weight 1.42 kg Current continuous current / rated value 50 A operational current endurance (operating cycles) / at AC-1 / at 380/415 V 50 A end 50 C 50 A end 50 °C 50 A end 60 °C	protection function of the overcurrent release	Ц
insulation voltage / rated value	number of poles	3
operating voltage / at AC / rated value 415 V power loss [W] / maximum 31.5 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole nechanical 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 1.42 kg Curront	General technical data	
power loss [W] / maximum 31.5 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 1.42 kg Current continuous current / rated value 50 A operational current • at 40 °C 50 A • at 45 °C 50 A • at 45 °C 50 A • at 50 °C 48.6 A • at 60 °C 47.2 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V 25 kA operating short-circuit current breaking capacity (Ics) • at 415 V 18.75 kA short-circuit current making capacity (Icm) • at 415 V 52.5 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit tip unit • minimum 600 A • maximum • moduct function / grounding protection No Mechanical Design	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) / ta AC-1 / at 380/415 V 5 000 ground-fault monitoring version without Net Weight 1.42 kg Current continuous current / rated value 50 A operational current early 6 00 A operational current at 40 °C 50 A operational current at 45 °C 50 A operational current early 6 °C 50 A operational current breaking capacity (Icu) operating short-circuit current breaking capacity (Icu) operating short-circuit current breaking capacity (Ics) operating short-circuit current breaking capacity (Ics) operating short-circuit current making capacity (Icm) operations early 6 °C 50 A operating short-circuit current response value current / of the current early 6 °C 50 A operations	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 Net Weight 1.42 kg Current continuous current / rated value operational current • at 40 °C • at 45 °C • at 45 °C • at 45 °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 instantaneous short-circuit truncin minum • maximum • monoo • Mechanical Design	power loss [W] / maximum	31.5 W
electrical endurance (operating cycles) / at AC-1 / at 380/415 V 5 000 ground-fault monitoring version without Net Weight 1.42 kg Current continuous current / rated value 50 A operational current • at 40 °C 50 A • at 50 °C 50 A • at 55 °C 48.6 A • at 60 °C 50 A • at 60 °C 50 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V 25 kA operating short-circuit current breaking capacity (Ics) • at 415 V 52.5 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 • monumous in the AC-1 / at 380/415 V Mechanical Design		10.5 W
ground-fault monitoring version without Net Weight 1.42 kg Current continuous current / rated value 50 A operational current • at 40 °C 50 A • at 45 °C 50 A • at 50 °C 50 A • at 50 °C 48.6 A • at 60 °C 47.2 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V 25 kA operating short-circuit current breaking capacity (Ics) • at 415 V 58-0-circuit current making capacity (Icm) • at 415 V 50-0-circuit current making capacity (Icm) • at 415 V 52.5 kA 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 600 A • maximum 600 A 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 45 °C • at 55 °C • at 60 °C South thing 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 short-circuit current making capacity (Icm) • 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 • maximum • maximum • maximum • maximum • more and the selection of the current of the curr	electrical endurance (operating cycles) / at AC-1 / at 380/415 V	5 000
continuous current / rated value 50 A operational current • at 40 °C 50 A • at 45 °C 50 A • at 55 °C 50 A • at 55 °C 48.6 A • at 60 °C 47.2 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V 25 kA operating short-circuit current breaking capacity (Ics) • at 415 V 18.75 kA short-circuit current making capacity (Icm) • at 415 V 52.5 kA Adjustable parameters adjustable current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trunit • minimum 600 A • maximum 600 A product function / grounding protection Mechanical Design	ground-fault monitoring version	without
continuous current / rated value 50 A operational current • at 40 °C 50 A • at 45 °C 50 A • at 50 °C 50 A • at 50 °C 50 A • at 60 °C 48.6 A • at 60 °C 47.2 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) • at 415 V 25 kA operating short-circuit current breaking capacity (Ics) • at 415 V 18.75 kA short-circuit current making capacity (Icm) • at 415 V 52.5 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 600 A • maximum 600 A product function / grounding protection Mo Mechanical Design	Net Weight	1.42 kg
operational current • at 40 °C • at 45 °C • at 50 °C • at 50 °C • at 55 °C • at 60 °C • at 60 °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 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 •	Current	
at 40 °C at 45 °C bt 48 °C at 50 °C at 50 °C at 50 °C at 50 °C at 60 °C 47.2 A Switching capacity according to IEC 60947 maximum short-circuit current breaking capacity (Icu) at 415 V certain 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 start-circuit current making capacity (Icm) at 415 V start-circuit current response value current / of the current-dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit minimum adjustable current response value current / of instantaneous short-circuit trip unit minimum adjustable current response value current / of instantaneous short-circuit trip unit minimum adjustable current / of instantaneous short-circuit trip unit minimum adjustable current / of instantaneous short-circuit trip unit minimum adjustable current / of instantaneous short-circuit trip unit minimum adjustable current / of instantaneous short-circuit trip unit	continuous current / rated value	50 A
at 45 °C at 50 °C at 50 °C at 50 °C 48.6 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 operating short-circuit current breaking capacity (Ics) at 415 V short-circuit current making capacity (Icm) at 415 V start 15 V start 15 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	operational current	
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 breaking capacity (Ics) at 415 V short-circuit current making capacity (Icm) at 415 V start 415 V	• at 40 °C	50 A
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 short-circuit current making capacity (Icm) 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 a minimum aminimum am	● at 45 °C	50 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 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 minimu	● at 50 °C	50 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 52.5 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 600 A product function / grounding protection No Mechanical Design	● at 55 °C	48.6 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 short-circuit current making capacity (Icm) • at 415 V 52.5 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 600 A product function / grounding protection No Mechanical Design	• at 60 °C	47.2 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 state of the current making capacity (Icm) at 415 V state of the current making capacity (Icm) at 415 V state of the current making capacity (Icm) state of the current making capacity (Icm	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 • maximum food A product function / grounding protection Mo Mechanical Design	maximum short-circuit current breaking capacity (Icu)	
at 415 V short-circuit current making capacity (Icm) at 415 V 52.5 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 415 V	25 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 food A product function / grounding protection Mechanical Design	operating short-circuit current breaking capacity (Ics)	
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 600 A maximum 600 A product function / grounding protection Mechanical Design	● at 415 V	18.75 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 food A product function / grounding protection Mechanical Design	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 600 A product function / grounding protection Mechanical Design	• at 415 V	52.5 kA
dependent overload release adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum 600 A product function / grounding protection Mechanical Design	Adjustable parameters	
short-circuit trip unit		40 50 A
• maximum 600 A product function / grounding protection No Mechanical Design		
product function / grounding protection No Mechanical Design	• minimum	600 A
Mechanical Design	maximum	600 A
	product function / grounding protection	No
height 150 mm	Mechanical Design	
	height	150 mm

width	92 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

Further information

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=3VJ1105-3DB32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VJ1105-3DB32-0AA0

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

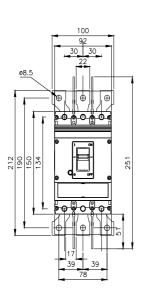
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VJ1105-3DB32-0AA0

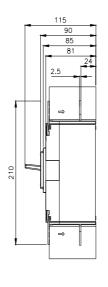
CAx-Online-Generator

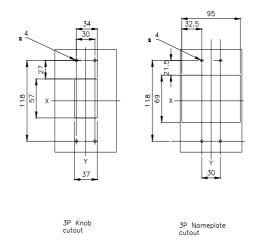
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







last modified: 8/9/2023 🖸