Product data sheet



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3POLE, LINE PROTECTION ETU560, LSIG, IN=25A OVERLOAD PROTECTION IR=10A ...25A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8MS BUSBAR CONNECTION

Similar to image

General technical data:		
product brand name		SENTRON
Product designation		Molded Case Circuit Breakers
Acceptability for application		system protection
Design of the product		Line Protection
Product function		
communication function		Yes
other measurement function		No
Product component / display		Yes
Design of the overcurrent release		ETU560
Protective function of the overcurrent release		LSIG
Product property / for zero conductors / up/downgradable / short-circuit and overload protection		Yes
Continuous current / rated value	Α	25
Operating voltage		
at 50/60 Hz / for AC / rated value	V	690
Insulation voltage / rated value	V	800
Number of poles		3
Active power loss / maximum	W	25.5

Protection class IP / on the front	Switching capacity class of the circuit breaker		M
Product function / phase disturbance recognition Schaltvermögen: Breaking capacity limit short-circuit current (Icu) * at 240 V / rated value * at 415 V / rated value * at 469 V / rated value * at 480 V / rated value * at 680 V / rated value * of the non-delayed short-circuit release / ratial value * of the non-delayed short-circuit release / ratial value * of the non-delayed short-circuit release / ratial value * of the short-time delayed short-circuit release * of the short-time delayed short-circuit release * A 0.6 10 * with standard characteristic * on 05 0.5 * settable clary / of the S-trip * with standard characteristic * on 05 0.5 * settable current response value / of I-trip / end value * with 12t characteristic * on 05 0.5 * settable current response value / of I-trip / end value * with 12t characteristic * on 05 0.8 * with 12t characteristic * on 05 0.8 * with 12t characteristic * on 05 0.8 * on 05 0.8 * with 12t characteristic * on 05 0.8 * on 05 0.8 * Connections: * Design of the electrical connection			IP40
Product function / phase disturbance recognition Schaltvermögen: Breaking capacity limit short-circuit current (Icu) - at 240 V / rated value			
Schaltvermögen: Breaking capacity limit short-circuit current (Icu) - at 240 V / rated value - at 415 V / rated value - at 690 V / rated value - at 240 V / rated value - at 690 V / rated value -	Motor rating data:		
Breaking capacity limit short-circuit current (icu) - at 240 V / rated value - at 415 V / rated value - at 415 V / rated value - at 690 V / rated value - at 240 V / rated value - at 240 V / rated value - at 240 V / rated value - at 690 V / rated value - at 240 V / rated value - at 240 V / rated value - at 240 V / rated value - at 375 V / rated value - at 415 V / rated value - at 690 V / rated value - of the current-dependent overload release - of the non-delayed short-circuit release / initial value Settable current response value - of S-trip - with standard characteristic - of the short-time delayed short-circuit release - A	Product function / phase disturbance recognition		No
- at 240 V / rated value kA 85 - at 415 V / rated value kA 55 Breaking capacity operating short-circuit current (ics)	Schaltvermögen:		
. at 415 V / rated value at 690 V / rated value Breaking capacity operating short-circuit current (lcs) . at 240 V / rated value . at 415 V / rated value . at 690 V / rated value . at 240 V / rated value . at 415 V / rated value . at 415 V / rated value . at 415 V / rated value . at 690 V / r	Breaking capacity limit short-circuit current (Icu)		
* at 690 V / rated value KA 2.5 Breaking capacity operating short-circuit current (ics) * at 240 V / rated value KA 85 * at 415 V / rated value KA 55 * at 690 V / rated value KA 2.5 Ultimate short-circuit current making capacity (icm) * at 240 V / rated value KA 187 * at 415 V / rated value KA 121 * at 415 V / rated value KA 3.75 Overcurrent Release: Adjustable response current * of the current-dependent overload release A 0.4 1 * of the our-delayed short-circuit release / initial value A 1.5 Settable current response value * of S-inp * with standard characteristic A 0.6 10 Adjustable response current * of the short-time delayed short-circuit release A 0.6 10 Settable delay / of the S-trip * with standard characteristic S 0.05 0.5 * with 2t characteristic S 0.05 0.5 * with standard characteristic A 0.6 1 * with 2t characteristic	• at 240 V / rated value	kA	85
Breaking capacity operating short-circuit current (Ics) • at 240 V / rated value • at 415 V / rated value • at 690 V / rated value Ultimate short-circuit current making capacity (Icm) • at 240 V / rated value KA 2.5 Ultimate short-circuit current making capacity (Icm) • at 240 V / rated value KA 187 • at 415 V / rated value • at 690 V / rated value • of the current release: Adjustable response current • of the current-dependent overload release • of the non-delayed short-circuit release / initial value • of S-trip • with standard characteristic A 0.6 10 Settable current • of the short-time delayed short-circuit release A 0.6 10 Settable delay / of the S-trip • with standard characteristic • with 12t characteristic Settable current response value / of I-trip / end value • with standard characteristic • with 12t characteristic	• at 415 V / rated value	kA	55
• at 240 V / rated value IKA 85 • at 415 V / rated value IKA 55 • at 690 V / rated value IKA 2.5 Ultimate short-circuit current making capacity (Icm) • at 240 V / rated value IKA 187 • at 415 V / rated value IKA 121 • at 690 V / rated value IKA 3.75 Overcurrent Release: Adjustable response current • of the non-delayed short-circuit release / initial value A 1.5 Settable current response value • of S-trip A 0.6 10 • with standard characteristic A 0.6 10 Settable current response current • of the short-time delayed short-circuit release A 0.6 10 Settable delay / of the S-trip • with standard characteristic s 0.05 0.5 • with l2t characteristic s 0.05 0.5 Settable current response value / of i-trip / end value A 12 • with standard characteristic s 0.05	• at 690 V / rated value	kA	2.5
• at 415 V / rated value kA 55 • at 690 V / rated value kA 2.5 Ultimate short-circuit current making capacity (Icm) • at 240 V / rated value kA 187 • at 415 V / rated value kA 121 • at 690 V / rated value kA 3.75 Overcurrent Release: Adjustable response current • of the current-dependent overload release A 0.4 1 • of the non-delayed short-circuit release / initial value A 1.5 Settable current response value • of S-trip A 0.6 10 • with standard characteristic A 0.6 10 Settable delay / of the S-trip • with standard characteristic s 0.05 0.5 • with l2t characteristic s 0.05 0.5 • with standard characteristic s 0.05 0.8 • with l2t characteristic A 0.6 1 • with l2t characteristic s 0.05 0.8 • with l2t characteristic s 0.05 0.8<	Breaking capacity operating short-circuit current (lcs)		
* at 690 V / rated value Vitimate short-circuit current making capacity (icm) * at 240 V / rated value	• at 240 V / rated value	kA	85
Ultimate short-circuit current making capacity (Icm) • at 240 V / rated value • at 415 V / rated value • at 690 V / rated value • at 690 V / rated value * A 3.75 **Overcurrent Release: **Adjustable response current • of the current-dependent overload release • of the non-delayed short-circuit release / initial value * of Settable current response value • of S-trip • with standard characteristic * of the short-time delayed short-circuit release **A 0.6 10 **Adjustable response current • of the short-time delayed short-circuit release **A 0.6 10 **Settable delay of the S-trip • with standard characteristic * with 12t characteristic * with 12t characteristic * with standard	• at 415 V / rated value	kA	55
at 240 V / rated value at 415 V / rated value at 690 V / rated value at 690 V / rated value kA 121 kA 3.75 Overcurrent Release: Adjustable response current of the current-dependent overload release of the non-delayed short-circuit release / initial value A 1.5 Settable current response value of S-trip with standard characteristic Adjustable response current of the short-time delayed short-circuit release A 0.6 10 Settable delay / of the S-trip with standard characteristic s 0.05 0.5 Settable delay / of the S-trip with standard characteristic s 0.05 0.5 Settable current response value / of I-trip / end value with standard characteristic s 0.05 0.5 Settable current response value / of I-trip / end value with standard characteristic s 0.05 0.5 Settable current response value / of I-trip / end value with standard characteristic s 0.05 0.8 with l2t characteristic s 0.05 0.8 with l2t characteristic s 0.05 0.8 Connections: Design of the electrical connection	• at 690 V / rated value	kA	2.5
* at 415 V / rated value * at 690 V / rated value * at 690 V / rated value **A** **A** **A** **Covercurrent Release: **A**	Ultimate short-circuit current making capacity (lcm)		
• at 690 V / rated value National Connections: National Connections	• at 240 V / rated value	kA	187
Overcurrent Release: Adjustable response current • of the current-dependent overload release • of the non-delayed short-circuit release / initial value A 1.5 Settable current response value • of S-trip • with standard characteristic A 0.6 10 Adjustable response current • of the short-time delayed short-circuit release A 0.6 10 Settable delay / of the S-trip • with standard characteristic s 0.05 0.5 • with I2t characteristic • with standard characteristic • with I2t characteristic	• at 415 V / rated value	kA	121
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Settable delay / of the S-trip • with standard characteristic • with l2t characteristic Settable current response value / of l-trip / end value • with standard characteristic • with standard characteristic • with standard characteristic • with l2t characteristic	Adjustable response current		
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with I2t characteristic with I2t characteristic s 0.05 0.8 Connections: Design of the electrical connection	Settable delay / of the S-trip • with standard characteristic • with I2t characteristic	s s	0.05 0.5 0.05 0.5
with I2t characteristic s 0.05 0.8 Connections: Design of the electrical connection	Settable delay / of the S-trip • with standard characteristic • with l2t characteristic Settable current response value / of I-trip / end value	s s A	0.05 0.5 0.05 0.5
Connections: Design of the electrical connection	Settable delay / of the S-trip • with standard characteristic • with I2t characteristic Settable current response value / of I-trip / end value • with standard characteristic	s s A A	0.05 0.5 0.05 0.5 12 0.6 1
Design of the electrical connection	Settable delay / of the S-trip • with standard characteristic • with l2t characteristic Settable current response value / of I-trip / end value • with standard characteristic • with standard characteristic	s s A A	0.05 0.5 0.05 0.5 12 0.6 1 0.05 0.8
	Settable delay / of the S-trip • with standard characteristic • with l2t characteristic Settable current response value / of I-trip / end value • with standard characteristic • with standard characteristic • with l2t characteristic	s s A A s	0.05 0.5 0.05 0.5 12 0.6 1 0.05 0.8 0.6 1
• for main current circuit	Settable delay / of the S-trip • with standard characteristic • with l2t characteristic Settable current response value / of l-trip / end value • with standard characteristic • with standard characteristic • with l2t characteristic • with l2t characteristic	s s A A s	0.05 0.5 0.05 0.5 12 0.6 1 0.05 0.8 0.6 1
	Settable delay / of the S-trip • with standard characteristic • with l2t characteristic Settable current response value / of l-trip / end value • with standard characteristic • with standard characteristic • with l2t characteristic • with l2t characteristic Connections:	s s A A s	0.05 0.5 0.05 0.5 12 0.6 1 0.05 0.8 0.6 1

Control circuit:		
Number of changeover contacts		
for auxiliary contacts		0
Product component		
undervoltage release mechanism		No
Voltage trigger		No
undervoltage release with leading contact		No
• trip indicator		No
Manufacturer article number		
• 3 of the integrated auxiliary switch /alarm switch		
of integrated auxiliary trip		

Ambient conditions:		
Ambient temperature		
during operating	°C	-25 +70
during storage	°C	-40 +80

Dimensions and weights:		
Width	mm	105
Height	mm	181
Depth	mm	107
Net weight	g	2,290

Lebensdauer:	
Mechanical operating cycles as operating time / typical	20,000
Reference code / according to DIN EN 61346-2	Q

Certificates/approvals:

Declaration of Conformity

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA2125-5JQ32-0AA0

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

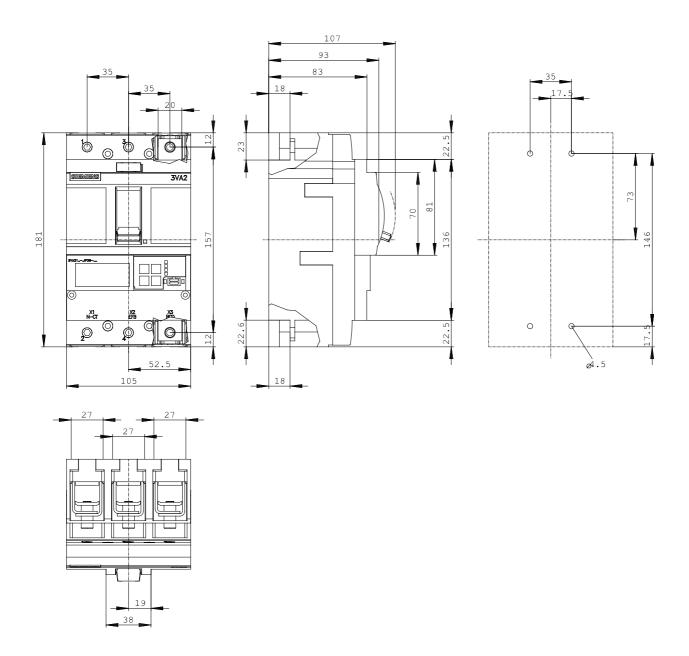
http://support.automation.siemens.com/WW/view/en/3VA2125-5JQ32-0AA0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2125-5JQ32-0AA0

CAx-Online-Generator

http://www.siemens.com/cax



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