



Figure similar

CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION ETU560, LSIG, IN=500A OVERLOAD PROTECTION IR=200A ...500A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..14X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 100%) GROUND-FAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,05-0,8MS BUSBAR CONNECTION

Model		
product brand name		SENTRON
Product designation		Molded case circuit breaker
<b>Design of the product</b>		Line protection
<b>Product variations</b>		Selective Applications
<b>Ground fault monitoring version</b>		Summation current formation L + N conductor
<b>Design of the auxiliary release</b>		without auxiliary release
<b>Design of the auxiliary switch</b>		Without
<b>Design of the operating mechanism</b>		toggle handle
<b>Type of the driving mechanism / motor drive</b>		No
<b>Design of the overcurrent release</b>		ETU560
General technical data		
<b>Number of poles</b>		4
<b>Trip class / of the L-trip / with I<sup>2</sup>t characteristic / initial value</b>		0.5
<b>Trip class / of the L-trip / with I<sup>2</sup>t characteristic / Full-scale value</b>		20
<b>Electrical endurance (switching cycles)</b>		4 000
• at AC-1 / at 380/415 V / at 50/60 Hz		
<b>Total disconnection time / for G-tripping / with standard characteristic / initial value</b>	s	0.05
<b>Total disconnection time / for G-tripping / with standard characteristic / Full-scale value</b>	s	0.8
<b>circuit-breaker / Design</b>		3VA
<b>Mechanical service life (switching cycles) / typical</b>		15 000

Voltage		
Insulation voltage / Rated value	V	800
Protection class		
<b>Protection class IP</b>		IP40
Protection class IP / on the front		IP40
<b>Protective function of the overcurrent release</b>		LSIG
Switching capacity		
<b>Switching capacity class of the circuit breaker</b>		M
Dissipation		
<b>Active power loss</b>		
• maximum	W	105
Electricity		
<b>Continuous current / Rated value / maximum</b>	A	630
Continuous current / Rated value	A	500
Adjustable response value current / of the instantaneous short-circuit release / initial value	A	1.5
Main circuit		
<b>Operating voltage</b>		
• with AC / at 50/60 Hz / Rated value	V	690
<b>Operating current</b>		
• at 40 °C / Rated value	A	500
• at 50 °C / Rated value	A	500
• at 60 °C / Rated value	A	475
• at 65 °C / Rated value	A	460
• at 70 °C / Rated value	A	440
Auxiliary circuit		
<b>Number of NC contacts / for auxiliary contacts</b>		0
<b>Number of NO contacts / for auxiliary contacts</b>		0
Suitability		
<b>Suitability for use</b>		system protection
Adjustable parameters		
<b>Adjustable response value current</b>		
• for G-tripping / with I2t characteristic / initial value	A	0.2
• for G-tripping / with I2t characteristic / Full-scale value	A	1
• for G-tripping / with standard characteristic / initial value	A	0.2
• for G-tripping / with standard characteristic / Full-scale value	A	1

• of I-trip / Full-scale value	A	13
• of the short-time delayed short-circuit release / initial value	A	0.6
• of the short-time delayed short-circuit release / Full-scale value	A	10
• of S-trip / with standard characteristic / initial value	A	0.6
• of S-trip / with standard characteristic / Full-scale value	A	10
• for N-conductor protection / initial value	A	0.2
• for N-conductor protection / Full-scale value	A	1
<b>Adjustable delay time</b>		
• for G-tripping / with I2t characteristic / initial value	s	0.05
• for G-tripping / with I2t characteristic / Full-scale value	s	0.8
• of S-trip / with I2t characteristic / initial value	s	0.05
• of S-trip / with I2t characteristic / Full-scale value	s	0.5
• of S-trip / with standard characteristic / initial value	s	0.05
• of S-trip / with standard characteristic / Full-scale value	s	0.5
<b>Adjustable response value current / of the current-dependent overload release / initial value</b>	A	0.4

## Product details

<b>Product component</b>		
• Trip indicator		No
• display		Yes
• undervoltage release		No
<b>Product property</b>		
• of the circuit breaker with tripping unit / Tripping characteristic adjustable		No
• for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proof		No
Product expansion / optional / motor drive		Yes

## Product function

<b>Product function</b>		
• Intrinsic device protection		Yes
• communication function		Yes
• Phase failure detection		No
• other measurement function		No

## Accessories

Manufacturer article number / of the supplied basic switch		<a href="#">3VA2450-5JQ42-0AA0</a>
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## Short circuit

<b>Operational short-circuit current breaking capacity (Ics)</b>		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 690 V / Rated value	kA	6
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 690 V / Rated value	kA	6
<b>Short-circuit current making capacity (Icm)</b>		
• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 690 V / Rated value	kA	9

## Connections

Arrangement of electrical connectors / for main current circuit		Front terminal
Type of connectable conductor cross-section		
• for flat-bar terminal connection / minimum		20 x 1
• for flat-bar terminal connection / maximum		35 x 10
Type of electrical connection / for main current circuit		Lug terminal

## Mechanical Design

<b>Height</b>	mm	248
<b>Width</b>	mm	184
<b>Depth</b>	mm	137
<b>Mounting type</b>		fixed mounting

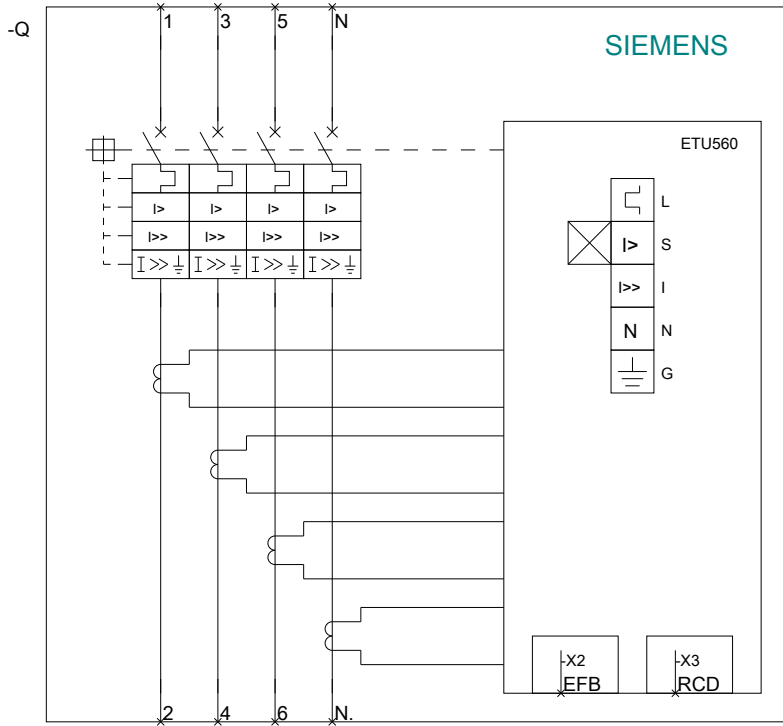
## Environmental conditions

<b>Ambient temperature</b>		
• during operation / minimum	°C	-25
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	80

## Certificates

<b>Equipment marking</b>		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q





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