



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4POLE, LINE PROTECTION ETU560, LSIG, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 160%) GROUNDFAULT, SWITCHABLE IG=0,4... 1 X IN, TG=0,05-0,8S CABLE CONNECTION UNDERVOLTAGE RELEASE (LNO) 24 V DC 1 AUXILIARY SWITCH 1 TRIP ALARM SWITCH

Model	
product brandname	SETRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Design of the overcurrent release	ETU560
Protective function of the overcurrent release	LSIG
Number of poles	4
Design of the auxiliary release	Undervoltage release with leading NO contacts (UVR(LNO))
Design of the auxiliary switch	1 auxiliary switch + 1 trip alarm switch HP

General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Active power loss / for rated value of the current / at AC / in hot operating state / per device	3 W
Mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	12 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	1 500

Neutral conductors / upgradeable/retrofitable	No
Ground fault monitoring version	Summation current formation L + N conductor
Product function	
• communication function	Yes
• Phase failure detection	No
• other measurement function	No
Net weight	3 140 g

Electricity

Max. rated operational voltage of the size of the circuit-breaker	100 A
Courant permanent assigné Iu	40 A
Operating current	
• at 40 °C	40 A
• at 45 °C	40 A
• at 50 °C	40 A
• at 55 °C	38.5 A
• at 60 °C	37 A
• at 65 °C	35.5 A
• at 70 °C	34 A

Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	H
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	2 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	2 kA
Short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	3 kA

Adjustable parameters

Adjustable response value current / I _g min.	0.4 A
Adjustable response value current / I _g min.	1 A
Adjustable response value current / I _g min.	0.5
Adjustable response value current / I _g min.	25
Adjustable response value current / I _g min.	0.6 A
Adjustable response value current / I _g min.	10 A

Short-term delayed / tripping switchable / I _{2t} =ON/OFF	Yes
Adjustable response value current / I _g min.	0.05 s
Adjustable response value current / I _g min.	0.5 s
Adjustable response value current / I _g min.	0.05 s
Adjustable response value current / I _g min.	0.5 s
Adjustable response value current / I _i min.	1.5 A
Ground fault protection can be switched ON/OFF	Yes
Adjustable response value current / I _g min.	0.4 A
Adjustable response value current / I _g max.	1 A
Adjustable response value current / t _g min.	0.05 s
Adjustable response value current / I _g min.	0.8 s
Adjustable response value current / for G-tripping / with I _{2t} characteristic / min.	0.4 A
Adjustable response value current / for G-tripping / with I _{2t} characteristic / max.	1 A

Mechanical Design

Height	181 mm
Width	140 mm
Depth	107 mm

Connections

Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	Box terminal
Type of connectable conductor cross-section, round conductor terminal, stranded	1 x (6-120 mm ²)

Auxiliary circuit

Product component	
• undervoltage release	No
• Voltage trigger	No
• undervoltage release with leading contact	Yes
• Trip indicator	Yes
Number of CO contacts / for auxiliary contacts	2

Accessories

Product extension / optional / motor drive	Yes
Manufacturer's article number	
• of the supplied basic switch	3VA2040-6JQ46-0AA0
• of the integrated auxiliary switch/alarm switch	3VA9988-0AA11
• of the integrated auxiliary switch/alarm switch	3VA9988-0AB11
• of the integrated auxiliary trip	3VA9908-0BC11

Environmental conditions

Protection class IP / on the front	IP40
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Ambient temperature

- during operation / minimum -25 °C
- during operation / maximum 70 °C
- during storage / minimum -40 °C
- during storage / maximum 80 °C

Certificates

Equipment marking / acc. to DIN EN 81346-2

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General Product Approval

EMC

Declaration of
Conformity



CCC



VDE



[sonstig](#)



RCM



EG-Konf.

Test Certificates

Shipping Approval

[Typprüfbescheinigung/Werkszeugnis](#)

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ABS



BUREAU
VERITAS



GL



LRS

Shipping Approval

other



RMRS

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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/3VA2040-6JQ46-0EG0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2040-6JQ46-0EG0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2040-6JQ46-0EG0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>

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