



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4POLE, LINE PROTECTION ETU850, LSI, 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%) BUSBAR CONNECTION UNDERVOLTAGE RELEASE 208-230 V AC 50/60 HZ 1 AUXILIARY SWITCH 1 TRIP ALARM SWITCH 1 ELECTRICAL ALARM SWITCH

Model	
product brandname	SETRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Design of the overcurrent release	ETU850
Protective function of the overcurrent release	LSI
Number of poles	4
Design of the auxiliary release	Undervoltage release (UVR)
Design of the auxiliary switch	1 auxiliary switches + 1 trip alarm switch + 1 electrical alarm switch HQ

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	2 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	1 000
Neutral conductors / upgradeable/retrofitable	No
Ground fault monitoring version	Without
Product function	
• communication function	Yes
• Phase failure detection	No
• other measurement function	Yes
Net weight	2 950 g

Electricity

Max. rated operational voltage of the size of the circuit-breaker	160 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	2.5 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	2.5 kA
Short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	3.75 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 / lg min.	0.6 A
Adjustable response value current / lg min.	10 A
Short-term delayed / tripping switchable / I2t=ON/OFF	Yes
Adjustable response value current / lg min.	0.05 s
Adjustable response value current / lg min.	0.5 s
Adjustable response value current / lg min.	0.05 s
Adjustable response value current / lg min.	0.5 s
Adjustable response value current / li min.	1.5 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	Lug terminal
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8.5

Auxiliary circuit

Product component	
• undervoltage release	Yes
• Voltage trigger	No
• undervoltage release with leading contact	No
• Trip indicator	Yes
Number of CO contacts / for auxiliary contacts	3

Accessories

Product extension / optional / motor drive	Yes
Manufacturer's article number	
• of the supplied basic switch	3VA2140-6KP42-0AA0
• of the integrated auxiliary switch/alarm switch	3VA9988-0AA12
• of the integrated auxiliary switch/alarm switch	3VA9988-0AB12
• of the integrated auxiliary switch/alarm switch	3VA9988-0AB22
• of the integrated auxiliary trip	3VA9608-0BB25

Environmental conditions

Protection class IP / on the front	IP40
Ambient temperature	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C

- during storage / minimum
- during storage / maximum

-40 °C

80 °C

Certificates

Equipment marking / acc. to DIN EN 81346-2

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General Product Approval

EMC

Declaration of
Conformity



[sonstig](#)



Test Certificates

Shipping Approval

[Typprüfbescheinigung/Werkszeugnis](#)

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Shipping Approval

other

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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/3VA2140-6KP42-0DK0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2140-6KP42-0DK0/all>

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

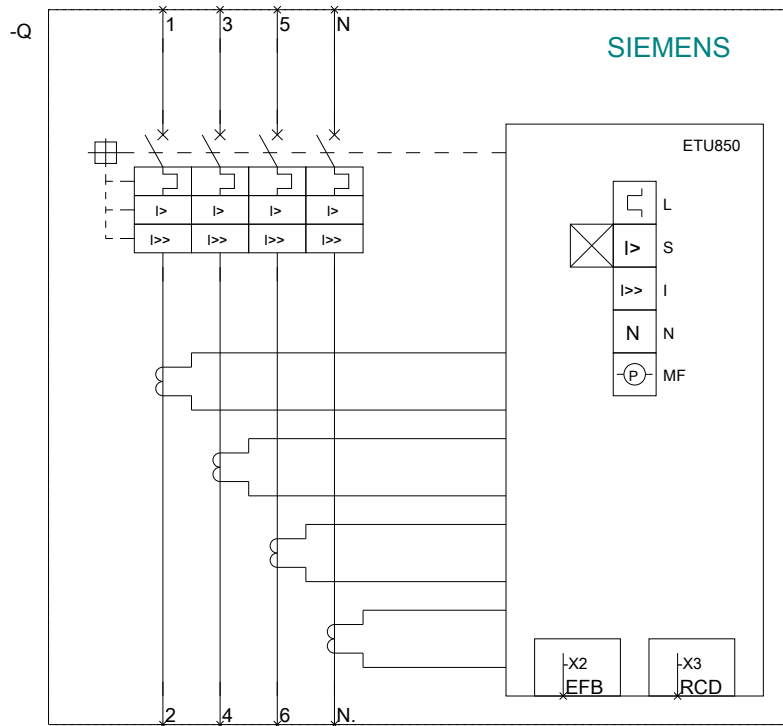
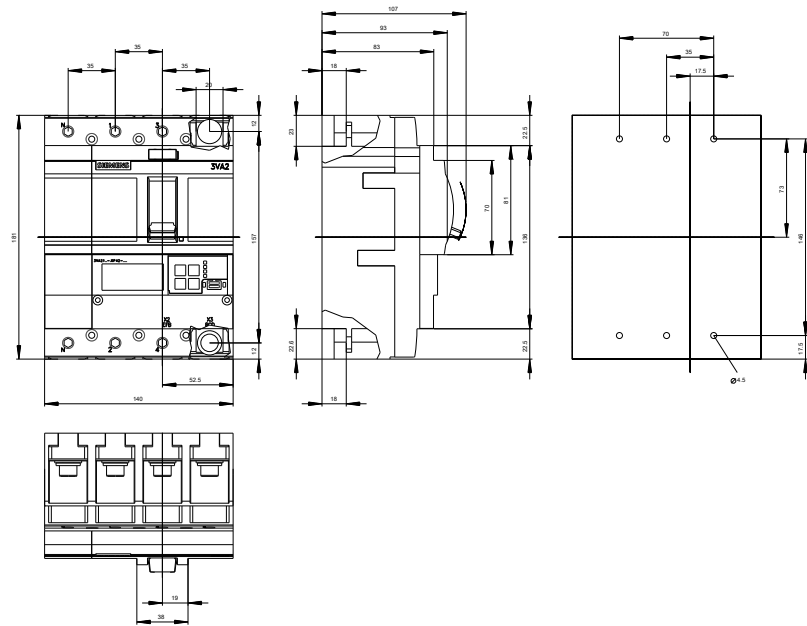
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-6KP42-0DK0

CAX-Online-Generator

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

Tender specifications

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



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