SIEMENS

Data sheet

3VA2140-8KP42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS L ICU=150KA @ 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

Model		
product brand name	SE	ENTRON
Product designation	Mo	olded case circuit breaker
Design of the product	Lir	ne protection
Product variations	Se	elective Applications
Ground fault monitoring version	Wi	ithout
Design of the auxiliary release	wit	thout auxiliaryrelease
Design of the auxiliary switch	Wi	ithout
Design of the operating mechanism	tog	ggle handle
Type of the driving mechanism / motor drive	No)
Design of the overcurrent release	ET	TU850
General technical data		

General technical data	
Number of poles	4
Trip class / of the L-trip / with I2t characteristic / initial value	0.5
Trip class / of the L-trip / with I2t characteristic / Full-scale value	25
Electrical endurance (switching cycles)	
• at AC-1 / at 380/415 V / at 50/60 Hz	12 000
circuit-breaker / Design	3VA
Mechanical service life (switching cycles) / typical	20 000

Voltage		
Insulation voltage / Rated value	V	800

Protection class

Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LSI
Switching capacity		
Switching capacity class of the circuit breaker		L
D		
Dissipation Active power loss		
maximum	W	1.2
- maximum		
Electricity		
Continuous current / Rated value / maximum	Α	160
Continuous current / Rated value	Α	40
Adjustable response value current / of the instantaneous short-circuit release / initial value	Α	1.5
instantaneous short-circuit release / initial value		
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
Operating current		
• at 40 °C / Rated value	Α	40
• at 50 °C / Rated value	Α	40
• at 60 °C / Rated value	Α	40
• at 65 °C / Rated value	Α	40
● at 70 °C / Rated value	Α	40
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
of I-trip / Full-scale value	Α	12
of the short-time delayed short-circuit release /	A	0.6
initial value		
 of the short-time delayed short-circuit release / Full-scale value 	Α	10
• of S-trip / with standard characteristic / initial value	Α	0.6
• of S-trip / with standard characteristic / Full-scale value	Α	10
Adjustable delay time		
• of S-trip / with I2t characteristic / initial value	s	0.05

• of S-trip / with I2t characteristic / Full-scale	S	0.5
value		0.05
 of S-trip / with standard characteristic / initial value 	S	0.05
• of S-trip / with standard characteristic / Full-	s	0.5
scale value		
Adjustable response value current / of the current-	Α	0.4
dependent overload release / initial value		
Product details		
Product component		
Trip indicator		No
● display		Yes
• undervoltage release		No
Product property		
for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and		
overload proof		
Product expansion / optional / motor drive		Yes
Product function		
Product function		
 Intrinsic device protection 		Yes
communication function		Yes
Phase failure detection		No
• other measurement function		Yes
Accessories		
Manufacturer article number / of the supplied basic		3VA2140-8KP42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		000
• at 240 V / Rated value	kA	200
• at 415 V / Rated value	kA	150
● at 440 V / Rated value	kA	150
● at 500 V / Rated value	kA	100
• at 690 V / Rated value	kA	18
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	200
• at 415 V / Rated value	kA	150
• at 440 V / Rated value	kA	150
● at 500 V / Rated value	kA	100
• at 690 V / Rated value	kA	24
Short-circuit current making capacity (lcm)		

 at 415 V / Rated value at 440 V / Rated value kA 330 kA 330 kA 220 	• at 240 V / Rated value	kA	440
at the tyrialise raise	• at 415 V / Rated value	kA	330
at 500 V / Pated value kA 220	• at 440 V / Rated value	kA	330
at 300 V / Nated Value	• at 500 V / Rated value	kA	220
at 690 V / Rated value kA 48	• at 690 V / Rated value	kA	48

Connections	
Arrangement of electrical connectors / for main current circuit	Front terminal
Type of connectable conductor cross-section	
 for flat-bar terminal connection / minimum 	13 x 1 mm
• for flat-bar terminal connection / maximum	25 x 8.5
Type of electrical connection / for main current circuit	Lug terminal

Mechanical Design		
Height	mm	181
Width	mm	140
Depth	mm	107
Mounting type		fixed mounting

Environmental conditions		
Ambient temperature		
during operation / minimum	°C	-25
during operation / maximum	°C	70
during storage / minimum	°C	-40
during storage / maximum	°C	80

Certificates		
Equipment marking		
• acc. to DIN EN 61346-2	Q	
• acc. to DIN EN 81346-2	Q	

General Product Approval	EMC	Declaration of	Shipping
		Conformity	Approval







other





Shipping	other
Approval	



other

GL

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/3VA21408KP420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21408KP420AA0/all

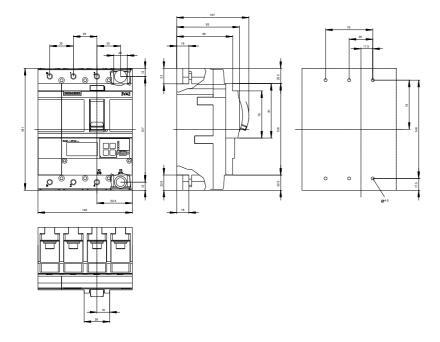
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21408KP420AA0

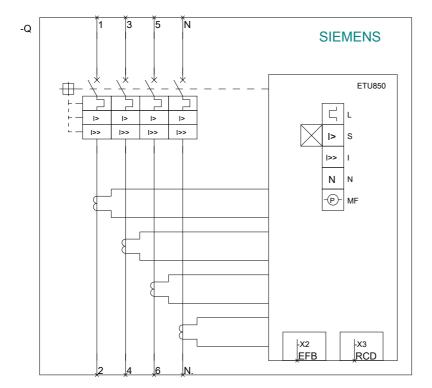
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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