

WITHDRAWABLE CIRCUIT BREAKER WITHOUT
GUIDE FRAME 3-POLE, SIZE III, IEC IN=4000A TO
690V, AC50/60HZ ICU=100KA AT 500V REAR
CONNECTION HORIZONTAL

Model		
product brand name		SENTRON
Product designation		ACB
Design of the operating mechanism		Pushbutton
Type of the driving mechanism		Manual/motorized operating mechanism with mechanical and electrical closing
Type of the driving mechanism / motor drive		Yes
Design of the overcurrent release		ETU45B
General technical data		
Number of poles		3
Size of the circuit-breaker		3
Electrical endurance (switching cycles) / typical		10 000
Usage category		B
circuit-breaker / Design		3WL1340
Mechanical service life (switching cycles) / typical		10 000
Voltage		
Rated insulation voltage U_i	V	1 000
Insulation voltage / rated value	V	1 000
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LSIN
Dissipation		
Power loss [W]		
• for rated value of the current / at AC / in hot operating state / per pole	W	270
• maximum	W	810
Electricity		
Continuous current / rated value	A	4 000
Adjustable response value current		
• of the current-dependent overload release / Full-scale value	A	4 000
• of the instantaneous short-circuit release / initial value	A	6 000

• of the instantaneous short-circuit release / Full-scale value	A	48 000
Short-time current resistance (I_{cw})		
• limited to 0.5 s / rated value	kA	100
• limited to 1 s / rated value	kA	100
• limited to 2 s / rated value	kA	80
• limited to 3 s / rated value	kA	65
Main circuit		
Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Operating voltage		
• at AC / at 50/60 Hz / rated value	V	690
Operating current		
• at 40 °C / rated value	A	4 000
• at 50 °C / rated value	A	4 000
• at 55 °C / rated value	A	4 000
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		2
Number of NO contacts / for auxiliary contacts		2
Suitability		
Suitability for use		Plant / motor protection
Adjustable parameters		
Adjustable response value current / of the current-dependent overload release / initial value	A	1 600
Product details		
Product component		
• Trip indicator		Yes
• Voltage trigger		Yes
• undervoltage release		No
Product expansion / optional / motor drive		No
Product function		
Product function		
• Ground fault protection		No
• Phase failure detection		Yes
Display and operation		
Display version		WITH 4-LINE DISPLAY
Short circuit		

Operational short-circuit current breaking capacity (Ics)		
• at 415 V / rated value	kA	100
• at 500 V / rated value	kA	100
• at 690 V / rated value	kA	85
Maximum short-circuit current breaking capacity (Icu)		
• at 415 V / rated value	kA	100
• at 500 V / rated value	kA	100
• at 690 V / rated value	kA	85
• at 1000/1150 V / Rated value	kA	50
Short-circuit current making capacity (Icm)		
• at 415 V / rated value	kA	220
• at 500 V / rated value	kA	220
• at 690 V / rated value	kA	187
• at 1000/1150 V / rated value	kA	105

Connections

Arrangement of electrical connectors / for main current circuit		without guide frame
Type of electrical connection / for main current circuit		Blade contacts

Mechanical Design

Height	mm	410
Width	mm	694
Depth	mm	337
Mounting type		drawer unit

Environmental conditions

Ambient temperature		
• during operation / minimum	°C	-20
• during operation / maximum	°C	55
• during storage / minimum	°C	-40
• during storage / maximum	°C	70

Certificates

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

General Product Approval			Declaration of Conformity	Test Certificates	
 CCC	 VDE		 EG-Konf.	spezielle Prüfbescheinigungen n	sonstig

Shipping Approval					
 ABS	 BUREAU VERITAS	 DNV	 GL	 LRS	 PRS

Shipping Approval	other				
 RMRS	Umweltbestätigung	sonstig			

Further information

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL13404FB354GA2>

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

<http://support.automation.siemens.com/WW/view/en/3WL13404FB354GA2/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL13404FB354GA2

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

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