

WITHDRAWABLE CIRCUIT BREAKER WITHOUT
GUIDE FRAME 3-POLE, SIZE II, IEC IN=2500A TO
690V, AC50/60HZ ICU=80KA AT 500V REAR
CONNECTION HORIZONTAL

Model		
product brandname		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		2
Electrical endurance (switching cycles) / typical		15 000
Usage category		B
circuit-breaker / Design		3WL1225
Mechanical service life (switching cycles) / typical		15 000
Voltage		
Rated insulation voltage Ui	V	1 000
Insulation voltage / rated value	V	1 000
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LSING
Dissipation		
Power loss [W]		
• for rated value of the current / at AC / in hot operating state / per pole	W	173.3
• maximum	W	520
Electricity		
Continuous current / rated value	A	2 500
Adjustable pick-up value current		
• of instantaneous short-circuit trip unit / initial value	A	3 750
• of instantaneous short-circuit trip unit / Full-scale value	A	30 000

Short-time current resistance (I_{cw})		
• limited to 0.5 s / rated value	kA	80
• limited to 1 s / rated value	kA	66
• limited to 2 s / rated value	kA	46
• limited to 3 s / rated value	kA	44
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	2 500
• at 50 °C / rated value	A	2 500
• at 55 °C / rated value	A	2 500
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		4
Number of NO contacts / for auxiliary contacts		4
Suitability		
Suitability for use		Plant / motor protection
Product details		
Product component		
• Trip indicator		Yes
• Voltage trigger		Yes
• undervoltage release		Yes
Product extension / optional / motor drive		No
Product function		
Product function		
• Ground fault protection		Yes
Display and operation		
Display version		WITH 4-LINE DISPLAY
Short circuit		
Operational short-circuit current breaking capacity (I_{cs})		
• at 415 V / rated value	kA	80
• at 500 V / rated value	kA	80
• at 690 V / rated value	kA	75
Maximum short-circuit current breaking capacity (I_{cu})		
• at 415 V / rated value	kA	80

• at 500 V / rated value	kA	80
• at 690 V / rated value	kA	75
Short-circuit current making capacity (Icm)		
• at 415 V / rated value	kA	176
• at 500 V / rated value	kA	176
• at 690 V / rated value	kA	165

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	411.5
Width	mm	451
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	 GL	 LRS	 PRS	 RMRS

other	
Umweltbestätigung	sonstig

Further information

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL1225-3FG35-5FM4-Z C20+C22+F40+K07>

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

<http://support.automation.siemens.com/WW/view/en/3WL1225-3FG35-5FM4-Z C20+C22+F40+K07/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1225-3FG35-5FM4-Z C20+C22+F40+K07

CAX-Online-Generator

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

Tender specifications

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

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