

Draw-out circuit breaker with slide-in module frame 3-pole, Size 1, IEC In=1600 A up to 690 V, 50/60 Hz AC Icu=55 kA at 500 V Rear horizontal connection Overcurrent release ETU 45 LSING protection adjustable 0.4-1 in with display and cubicle bus with ground fault protection Opt.: Comm./measuring func./ZSS With manual operating mechanism with storage with mechanical request without 1st auxiliary release without 2nd auxiliary release 2NO+2NC S33= Castell/Fortress Tension lever T40= Door sealing frame



Model	
product brand name	SENTRON
product designation	ACB
design of the product	IEC 60947-2
design of the operating mechanism	Pushbutton
type of the driving mechanism	Manual operating mechanism with mechanical closing
type of the driving mechanism / motor drive	No

design of the overcurrent release	ETU45B
General technical data	
number of poles	3
size of the circuit-breaker	1
usage category	B
circuit-breaker / Design	3WL1
Voltage	
Rated insulation voltage U_i	1 000 V
insulation voltage / rated value	1 000 V
operating voltage at AC / at 50/60 Hz / rated value	690 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LSING
Dissipation	
power loss [W] - for rated value of the current / at AC / in hot operating state / per pole - maximum	116.7 W 350 W
Current	
continuous current / rated value / maximum	1 600 A
continuous current / rated value	1 600 A
adjustable pick-up value current - of the current-dependent overload release / full-scale value - of instantaneous short-circuit trip unit / initial value - of instantaneous short-circuit trip unit / full-scale value	1 600 A 2 400 A 19 200 A
Main circuit	
operating frequency 1 / rated value 2 / rated value	50 Hz 60 Hz
operating current - at 40 °C / rated value - at 50 °C / rated value - at 55 °C / rated value	1 600 A 1 600 A 1 600 A
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 pick-up value current	
• of the L-trip / with I _{4t} characteristic / initial value	640 A
• of the L-trip / with I _{4t} characteristic / full-scale value	1 600 A
adjustable pick-up value current / of the current-dependent overload release / initial value	640 A
Product details	
product component	
• trip indicator	Yes
• voltage trigger	No
• undervoltage release	No
design of the auxiliary switch	2 NO + 2 NC
product extension / optional / motor drive	Yes
Product function	
product function	
• ground fault protection	Yes
• phase failure detection	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	55 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 kA
maximum short-circuit current breaking capacity (I _{cu})	
• at 415 V / rated value	55 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 kA
Connections	
arrangement of electrical connectors / for main current circuit	Main connection rear side horizontal
type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
height	460 mm
width	320 mm
depth	456 mm

mounting type	drawer unit
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Environmental conditions

ambient temperature / during operation	
• minimum	-40 °C
• maximum	55 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C

Certificates

reference code	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

General Product Approval	Declaration of Conformity	Test Certificates
 CCC	 CB	 VDE
	 EG-Konf.	Miscellaneous Special Test Certificate

Shipping Approval					
 ABS	 BUREAU VERITAS	 LRS	 PRS	 RMRS	CCS / China Classification Society

other			
Environmental Con- firmations	Manufacturer De- claration	Confirmation	Miscellaneous

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1116-2FG66-1AA2-Z S33+T40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-2FG66-1AA2-Z S33+T40>

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

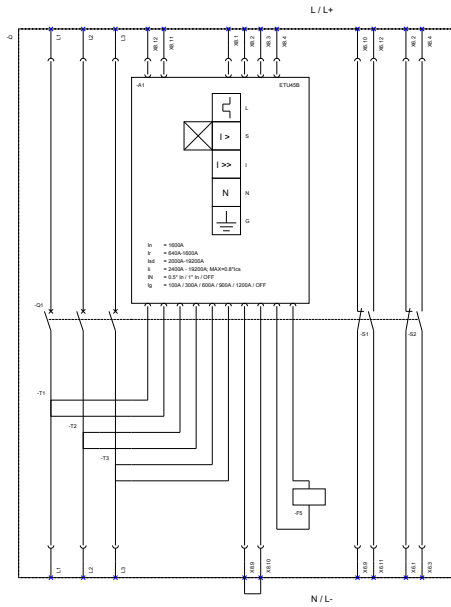
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-2FG66-1AA2-Z S33+T40

CAX-Online-Generator

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

Tender specifications

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



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