SIEMENS

Data sheet

3WL1116-2DG46-1AA2

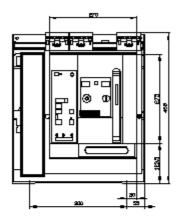
	withdrawable circuit breaker with guide frame 4-pole, size I, IEC In=1600A to 690V, AC50/60Hz Icu=55kA at 500V rear connection horizontal
Model	
product brand name	SENTRON
product designation	ACB
design of the product	IEC 60947-2
design of the actuating element	Pushbutton
type of the driving mechanism	Manual operating mechanism with mechanical closing
type of the driving mechanism / motor drive	No
design of the overcurrent release	ETU27B
General technical data	
number of poles	4
size of the circuit-breaker	1
utilization category	B
circuit-breaker / Design	3WL1
Voltage	
Rated insulation voltage Ui	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 class IP / on the front	IP20
protection function of the overcurrent release	LSING
Dissipation	LOING
 power loss [W] for rated value of the current / at AC / in hot 	116.7 W
operating state / per pole	110.7 W
• maximum	350 W
Current	
continuous current / rated value / maximum	1 600 A
continuous current / rated value	1 600 A
adjustable current response value current	
 of the current-dependent overload release / full- 	1 600 A
scale value	
 of instantaneous short-circuit trip unit / initial value 	32 000 A
 of instantaneous short-circuit trip unit / full-scale value 	32 000 A
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
operational current	
• at 40 °C / rated value	1 600 A
• at 50 °C / rated value	1 600 A
• at 55 °C / rated value	1 600 A
• at 60 °C / rated value	1 600 A
• at 65 °C / rated value	1 600 A
• at 70 °C / rated value	1 490 A
Auxiliary circuit	

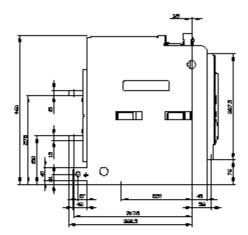
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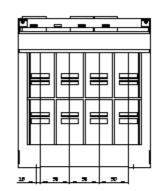
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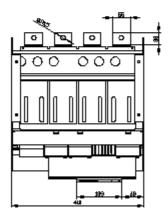
number of NC contacts / for auxiliary contacts	2
number of NO contacts / for auxiliary contacts	2
Suitability	
suitability for use	Plant / motor protection
Adjustable parameters	
adjustable current response value current / of the current-	640 A
dependent overload release / initial value	
Product details	
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	
 grounding protection 	Yes
phase failure detection	Yes
Display and operation	
display version	without display
Short circuit	
breaking capacity operating short-circuit current (lcs)	
• at 415 V / rated value	55 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 kA
breaking capacity maximum short-circuit current (lcu)	-
• 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	Main connection rear side horizontal
circuit	
type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
height	460 mm
width	410 mm
depth	456 mm
fastening method	drawer unit
Environmental conditions	
ambient temperature / during operation	
• minimum	-20 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	70 °C
Certificates	
reference code	
• acc. to DIN EN 61346-2	Q
• acc. to IEC 81346-2	Q
Further information	
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/produc	ct?mlfb=3WL1116-2DG46-1AA2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-2DG46-1AA2	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-2DG46-1AA2	
Tender specifications	

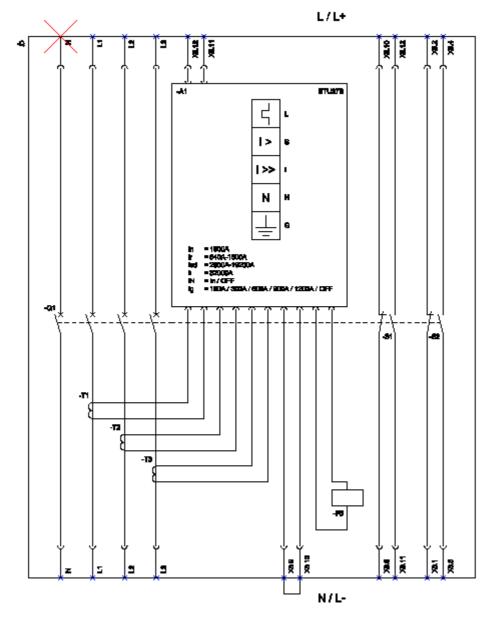
Tender specifications http://www.siemens.com/specifications











L (Long Fine Delay / Confinetectory) & (Short Time Delay / Enryschlussechnix, Enryseitversbyert)) I (Enstantaneous / Enryschlumentory, unversögert)) % (Soutcal Protoction / Wentrallaiterschutz), 8 (Branni Fuelt Protoction / Enschlussechniz)) F5 (Englatet for trip unit / Bealdonneport): 81 - 88 (Amiliary switch / Bilfsschulter);

last modified:

4/4/2020 🖸

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