## **SIEMENS**

## **Data sheet**

## 3WL1216-4CB34-4AN2-Z A05+C11+C22+F31+K07+S07

fixed-mounted circuit breaker 3-pole, size II, IEC In=1600A to 690V, AC50/60Hz Icu=100kA at 500V frnt.conn. top/bot. dual-hole Overcurrent release ETU 25 LSI protection adjustable 0.4-1 in Motorized/manual operating mechanism with spring charging motor AC 50/60 Hz 208-240 V or 220-250 V DC Activation AC 50/60 Hz Charging motor AC 50/80 H2 208-240 V of 220-250 V DC Activation AC 50/80 H2 209 V DC without 1st auxiliary release With 2nd auxiliary release "R", F3 Undervoltage, instant. 208-240 V AC, 220-250 V DC 2NO+2NC A05= Version for 1000 V C11= electrical On with sealing cap not possible with option F02 C22= Ready indicator F31= EMC filter K07= Tripped signaling contact, 1 CO not possible with option F02 S07= Castell/Fortress in Off position with 4 padlocks (Safe Off/disconnector function) Disconnector condition in compliance with IEC 60947-2

product brand name product designation ACB design of the product design of the product design of the actuating element type of the driving mechanism Wanual/motorized operating mechanism with mechanical and electrical closing type of the driving mechanism / motor drive design of the overcurrent release ETU25B  Ceneral technical data number of poles 3 size of the circuit-breaker 2 utilization category B circuit-breaker / Design 3WL1  Voltage Rated insulation voltage Ui insulation voltage / rated value 1000 V operating voltage • at AC / at 50/60 Hz / rated value 1000 V  Protection class IP • protection class IP / on the front • protection function of the overcurrent release  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 85 W  Main circuit  operating requency • 1 / rated value 50 Hz  Auxiliary circuit	Model	
design of the product design of the actuating element type of the driving mechanism Wanual/motorized operating mechanism with mechanical and electrical closing type of the driving mechanism / motor drive design of the overcurrent release ETU25B  Ceneral technical data number of poles 3 size of the circuit-breaker 2 utilization category B Gircuit-breaker / Design  Voltago Rated insulation voltage Ui insulation voltage / rated value 1 000 V  operating voltage • at AC / at 50/60 Hz / rated value 1 000 V  Protection class IP / on the front • protection function of the overcurrent release  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating slate / per pole • maximum 85 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 3 / rated value • 3 / rated value • 4 / rated value • 6 / Hz  Auxillary circuit	product brand name	SENTRON
design of the actuating element type of the driving mechanism type of the driving mechanism / Manual/motorized operating mechanism with mechanical and electrical closing type of the driving mechanism / motor drive design of the overcurrent release ETU25B  General technical data  number of poles 3 size of the circuit-breaker 2 utilization category B B circuit-breaker / Design Woltage Rated insulation voltage Ui insulation voltage U 1 000 V operating voltage • at AC / at 50/60 Hz / rated value 1 000 V  Protection class IP  oprotection class IP / on the front protection function of the overcurrent release  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 85 W  Main circuit operating frequency • 1 / rated value • 2 / rated value • 3 /	product designation	ACB
type of the driving mechanism	design of the product	IEC 60947-2
type of the driving mechanism / motor drive  design of the overcurrent release  ETU26B  General technical data  number of poles  size of the circuit-breaker  2 utilization category  B circuit-breaker / Design  Woltage  Rated insulation voltage Ui  insulation voltage / rated value  operating voltage  • at AC / at 50/60 Hz / rated value  1 000 V  Protection class IP  ip 20  • protection class IP / on the front  • protection function of the overcurrent release  Dissipation  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole  • maximum  ### AC / at Value  50 Hz  4 Auxiliary circuit  Auxiliary circuit  #### AC / at Value  ETU26B  ### AC / at Value  1 000 V  ### AC / at 50/60 Hz  #	design of the actuating element	Pushbutton
design of the overcurrent release ETU25B  General technical data  number of poles 3 size of the circuit-breaker 2 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 1 000 V  Protection class IP  • protection class IP IP20  • protection function of the overcurrent release LSI  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 85 W  Main circuit  operating frequency • 1 / rated value 50 Hz • 2 / rated value 60 Hz  Auxiliary circuit	type of the driving mechanism	Manual/motorized operating mechanism with mechanical and electrical closing
General technical data number of poles size of the circuit-breaker 2 utilization category B circuit-breaker / Design  Woltage  Rated insulation voltage Ui insulation voltage / rated value 1 000 V operating voltage • at AC / at 50/60 Hz / rated value 1 000 V  Protection class protection class IP / on the front • protection function of the overcurrent release  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 85 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 60 Hz  Auxiliary circuit	type of the driving mechanism / motor drive	Yes
number of poles size of the circuit-breaker 2 utilization category B circuit-breaker / Design 3WL1  Voltage  Rated insulation voltage Ui insulation voltage / rated value 1 000 V operating voltage • at AC / at 50/60 Hz / rated value 1 000 V  Protection class protection class IP  • protection function of the overcurrent release  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum  Main circuit  • 2 / rated value 5 0 Hz • 2 / rated value • 2 / rated value • 60 Hz  Auxiliary circuit	design of the overcurrent release	ETU25B
size of the circuit-breaker 2 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 1 000 V  Protection class protection class IP IP20  • protection class IP IP20  • protection function of the overcurrent release LSI  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 85 W  Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • 60 Hz  Auxiliary circuit	General technical data	
utilization category circuit-breaker / Design  3WL1  Voltage  Rated insulation voltage Ui insulation voltage / rated value operating voltage • at AC / at 50/60 Hz / rated value 1 000 V  Protection class protection class IP  • protection class IP / on the front • protection function of the overcurrent release  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum  85 W  Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • 60 Hz  Auxiliary circuit	number of poles	3
circuit-breaker / Design  Voltage  Rated insulation voltage Ui insulation voltage / rated value  operating voltage  • at AC / at 50/60 Hz / rated value  1 000 V  Protection class  protection class IP  • protection class IP / on the front • protection function of the overcurrent release  LSI  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • 2 / rated value • 60 Hz  Auxiliary circuit	size of the circuit-breaker	2
Rated insulation voltage Ui insulation voltage / rated value operating voltage • at AC / at 50/60 Hz / rated value 1 000 V  Protection class protection class IP  ip20  • protection class IP / on the front • protection function of the overcurrent release  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value  Auxiliary circuit	utilization category	В
Rated insulation voltage Ui insulation voltage / rated value  operating voltage  • at AC / at 50/60 Hz / rated value  1 000 V  Protection class  protection class IP  ip20  • protection class IP / on the front • protection function of the overcurrent release  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum  85 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value Auxiliary circuit	circuit-breaker / Design	3WL1
insulation voltage / rated value	Voltage	
operating voltage  • at AC / at 50/60 Hz / rated value  Protection class  protection class IP  IP20  • protection class IP / on the front • protection function of the overcurrent release  LSI  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value  Auxiliary circuit	Rated insulation voltage Ui	1 000 V
at AC / at 50/60 Hz / rated value 1 000 V  Protection class  protection class IP IP20      protection class IP / on the front IP20     protection function of the overcurrent release LSI  Dissipation  power loss [W]     for rated value of the current / at AC / in hot operating state / per pole     maximum 85 W  Main circuit  operating frequency     1 / rated value     2 / rated value     2 / rated value     60 Hz  Auxiliary circuit	insulation voltage / rated value	1 000 V
Protection class IP  Protection class IP / on the front Protection function of the overcurrent release  Dissipation  power loss [W]  of or rated value of the current / at AC / in hot operating state / per pole maximum  Main circuit  Operating frequency 1 / rated value 2 / rated value  Other was a state / per pole  The state / per pole Other was a state / per pol	operating voltage	
protection class IP IP20  • protection class IP / on the front IP20 • protection function of the overcurrent release LSI  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 85 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value Auxiliary circuit	• at AC / at 50/60 Hz / rated value	1 000 V
protection class IP / on the front     protection function of the overcurrent release  Dissipation  power loss [W]     for rated value of the current / at AC / in hot operating state / per pole     maximum  Main circuit  operating frequency     1 / rated value     2 / rated value  Auxiliary circuit  IP20  LSI  28.3 W  85 W  85 W  Main circuit  60 Hz	Protection class	
protection function of the overcurrent release  Dissipation  power loss [W]      of rated value of the current / at AC / in hot operating state / per pole     omaximum  Main circuit  operating frequency     o 1 / rated value     o 2 / rated value  Auxiliary circuit	protection class IP	IP20
protection function of the overcurrent release  Dissipation  power loss [W]      for rated value of the current / at AC / in hot operating state / per pole     maximum  Main circuit  operating frequency     1 / rated value     2 / rated value     2 / rated value  Auxiliary circuit		
Dissipation  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole • maximum  Main circuit  operating frequency • 1 / rated value • 2 / rated value  Auxiliary circuit	<ul> <li>protection class IP / on the front</li> </ul>	IP20
power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole • maximum  • maximum  85 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value  Auxiliary circuit	<ul> <li>protection function of the overcurrent release</li> </ul>	LSI
for rated value of the current / at AC / in hot operating state / per pole     maximum	Dissipation	
state / per pole	power loss [W]	
Main circuit  operating frequency  • 1 / rated value  • 2 / rated value  Auxiliary circuit		28.3 W
operating frequency  • 1 / rated value  • 2 / rated value  Auxiliary circuit	• maximum	85 W
1 / rated value     2 / rated value  Auxiliary circuit  50 Hz  60 Hz	Main circuit	
2 / rated value     60 Hz  Auxiliary circuit	operating frequency	
Auxiliary circuit	• 1 / rated value	50 Hz
	• 2 / rated value	60 Hz
	Auxiliary circuit	
number of NC contacts / for auxiliary contacts 2	number of NC contacts / for auxiliary contacts	2
number of NO contacts / for auxiliary contacts 2	number of NO contacts / for auxiliary contacts	2
Suitability	Suitability	
suitability for use Plant / motor protection	suitability for use	Plant / motor protection
Adjustable parameters	Adjustable parameters	
adjustable current response value current / of the current-dependent overload release / initial value  640 A		640 A
Product details	Product details	
product component	product component	
• trip indicator Yes	• trip indicator	Yes
• voltage trigger No	<ul> <li>voltage trigger</li> </ul>	No
• undervoltage release Yes	<ul> <li>undervoltage release</li> </ul>	Yes

design of the auxiliary switch	2 NO + 2 NC	
product extension / optional / motor drive	No	
Product function		
product function		
<ul> <li>grounding protection</li> </ul>	No	
phase failure detection	Yes	
Display and operation		
display version	without display	
Short circuit		
operating short-circuit current breaking capacity (Ics)		
• at 415 V / rated value	100 kA	
• at 500 V / rated value	100 kA	
at 690 V / rated value	85 kA	
maximum short-circuit current breaking capacity (lcu)		
• at 415 V / rated value	100 kA	
<ul> <li>at 500 V / rated value</li> </ul>	100 kA	
at 690 V / rated value	85 kA	
Connections		
arrangement of electrical connectors / for main current circuit	Main connection top front/bottom double hole	
type of electrical connection / for main current circuit	busbar connection	
Mechanical Design		
height	507 mm	
width	460 mm	
depth	369 mm	
fastening method	fixed mounting	
Environmental conditions		
ambient temperature / during operation		
• minimum	-20 °C	
maximum	70 °C	
ambient temperature / during storage		
• minimum	-40 °C	
• maximum	70 °C	
Further information		

Information on the packaging

om/cs/ww/en/view/109813875

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1216-4CB34-4AN2-Z A05+C11+C22+F31+K07+S07

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

https://support.industry.siemens.com/cs/ww/en/ps/3WL1216-4CB34-4AN2-Z A05+C11+C22+F31+K07+S07

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3WL1216-4CB34-4AN2-Z A05+C11+C22+F31+K07+S07">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3WL1216-4CB34-4AN2-Z A05+C11+C22+F31+K07+S07</a>

CAx-Online-Generator

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications



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