## 3WL1216-4AA35-1AA2

**Data sheet** 

withdraw. non-aut. circuit-b. without guide frame 3-pole, size II, IEC In=1600A to 690V, AC50/60Hz Icu=100kA at 500V rear connection horizontal without overcurrent release With manual operating mechanism with storage with mechanical request without 1st auxiliary release without 2nd auxiliary release 2NO+2NC

product brand name product design after product design of the product design of the product design of the product type of the driving mechanism (and product design of the product design of the actuating element type of the driving mechanism (and product design of the overcurrent release (and product design) design of the overcurrent release (and product design) design of the overcurrent release (and product design) design of the overcurrent release (and product design of the overcurrent release)  I to 200 V  Voltage Rated insulation voltage UI (and product design of the overcurrent release (and product design)  Voltage  Rated insulation voltage U (and product design)  Voltage (and product design)  **At AC / at 50/60 Hz / rated value (and product design)  **protection class IP (and product	Model		
design of the product design of the actuating element pushbutton type of the driving mechanism type of the driving mechanism / motor drive No design of the overcurrent release without  General technical data number of poles size of the circuit-breaker 2 utilization category circuit-breaker / Design Rated insulation voltage Ui insulation voltage V rated value operating voltage • at AC / at 50/60 Hz / rated value • 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  175 W  Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • 60 Hz  Auxiliary circuit number of NC contacts / for auxiliary contacts 2 suitability suitability suitability for use  Product dotalis product component	product brand name	SENTRON	
design of the actuating element type of the driving mechanism type of the driving mechanism / motor drive design of the overcurrent release without  General technical data number of poles 3 size of the dircuit-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  • protection class IP  • protection class IP / on the front • protection function of the overcurrent release  Dissipation  Dissipation  power loss IW] • for rated value of the current / at AC / in hot operating state / per pole • maximum  Amain circuit operating frequency • 1 / rated value • 2 / rated value  50 Hz  Auxiliary circuit number of NO contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts sutability suitability suitability suitability or Contact unit without release  Product details product component	product designation	ACB	
type of the driving mechanism   Manual operating mechanism with mechanical closing   type of the driving mechanism / motor drive   No   design of the overcurrent release   without   General technical data   number of poles   3   size of the circuit-breaker   2   utilization category   B   circuit-breaker / Design   3WL1   Voltago   Rated insulation voltage U    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 / on the front   IP20   • protection function of the overcurrent release   protection function of the overcurrent release	design of the product	IEC 60947-2	
type of the driving mechanism / motor drive design of the overcurrent release without  General technical data number of poles size of the circuit-breaker 2 utilization category B circuit-breaker / Design  Voltage  Rated insulation voltage UI nusulation voltage / rated value operating voltage • at AC / at 50/60 Hz / rated value  690 V  Protoction class IP / on the front protection function of the overcurrent release  protection function 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  60 Hz  Auxiliary circuit number of NC contacts / for auxiliary contacts 2 suitability suitability or suitability for use  Product dotails product component	design of the actuating element	Pushbutton	
design of the overcurrent release without  General technical data  number of poles size of the circuit-breaker 2 utilization category B circuit-breaker / Design  Voltage  Rated insulation voltage UI insulation voltage / rated value 0 operating voltage  • at AC / at 50/60 Hz / rated value 690 V  Protection class IP  Protection class IP  • protection function of the overcurrent release  protection function of the overcurrent release  Dissipation  power loss [W] • for farted value of the current / at AC / in hot operating state / per pole • maximum  175 W  Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value  10 NE  10 NE  10 NE  10 NE  11 NE  12 NE  13 NE  14 NE  15 NE  16 NE  17 NE  17 NE  17 NE  Main circuit Operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • 2 / rated value • 30 Hz  10 NE  10 NE  11 NE  12 NE  13 NE  14 NE  15 NE  16 NE  17 NE  17 NE  17 NE  18	type of the driving mechanism	Manual operating mechanism with mechanical closing	
Reneral technical data  number of poles size of the circuit-breaker 2 utilization category B circuit-breaker / Design 3WL1  Voltage  Rated insulation voltage Ui insulation voltage V rated value  operating voltage • at AC / at 50/60 Hz / rated value  Protection class IP 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  operating frequency • 1 / rated value • 2 / rated value  50 Hz  Auxiliary circuit number of NC contacts / for auxiliary contacts 2 suitability suitability or use  Product component  3 3 3 3 3 3 3 3 3 3 5 3 5 5 6 6 7 8 8 9 8 9 8 9 8 9 9 8 9 9 9 9 9 9 9 9	type of the driving mechanism / motor drive	No	
number of poles size of the circuit-breaker 2 utilization category B circuit-breaker / Design 3WL1  Voltage  Rated insulation voltage Ui insulation voltage (7 rated value) 0 operating voltage • at AC / at 50/60 Hz / rated value 690 V  Protection class IP IP20  • protection class IP / on the front • protection function of the overcurrent release  vithout  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  number of NC contacts / for auxiliary contacts 2 number of NC contacts / for auxiliary contacts 2 suitability suitability for use  Product details product component	design of the overcurrent release	without	
size of the circuit-breaker 2  utilization category circuit-breaker / Design 3WL1  Voltage  Rated insulation voltage Ui 1000 V insulation voltage / rated value 1000 V operating voltage • at AC / at 50/60 Hz / rated value 690 V  Protection class IP  iP20  • protection class IP IP20  • protection function of the overcurrent release without  ipsisjation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 175 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • 60 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts 2  suitability suitability for use  Product details product component	General technical data		
utilization category circuit-breaker / Design 3WL1  Voltage  Rated insulation voltage Ui insulation voltage / rated value 1 1000 V operating voltage • at AC / at 50/60 Hz / rated value 690 V  Protection class protection class IP  • protection class IP / on the front • protection function of the overcurrent release  bissipation power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 175 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • 2 / rated value • 80 Hz  Auxiliary circuit number of NC contacts / for auxiliary contacts 2 number of NO contacts / for auxiliary contacts 2 Sutability suitability for use Product details product component	number of poles	3	
circuit-breaker / Design 3WL1  Voltage  Rated insulation voltage Ui 1000 V insulation voltage / rated value 1000 V operating voltage eat AC / at 50/60 Hz / rated value 690 V  Protection class  protection class IP IP20  • protection class IP IP20  • protection function of the overcurrent release without  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 175 W  Main circuit  operating frequency • 1 / rated value 50 Hz • 2 / rated value 60 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts 2  number of NO contacts / for auxiliary contacts 2  Suitability suitability or use Contact unit without release  Product details  product component	size of the circuit-breaker	2	
Rated insulation voltage Ui insulation voltage / rated value operating voltage • at AC / at 50/60 Hz / rated value  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  175 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value  Auxiliary circuit  number of NC contacts / for auxiliary contacts 2  number of NO contacts / for auxiliary contacts 2  Suitability  suitability suitability suitability or use  Contact unit without release  Product component	utilization category	В	
Rated insulation voltage Ui insulation voltage / rated value operating voltage • at AC / at 50/60 Hz / rated value 690 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  175 W  Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value  for NC contacts / for auxiliary contacts 2 number of NC contacts / for auxiliary contacts 2 Suitability suitability suitability suitability for use  Product details product component	circuit-breaker / Design	3WL1	
insulation voltage / rated value 1 000 V  operating voltage  • at AC / at 50/60 Hz / rated value 690 V  Protection class  protection class IP  • protection class IP IP20  • protection function of the overcurrent release without  Dissipation  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole • maximum 175 W  Main circuit  operating frequency • 1 / rated value 50 Hz • 2 / rated value 60 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts 2  Suitability suitability for use Contact unit without release  Product component	Voltage		
operating voltage	Rated insulation voltage Ui	1 000 V	
e at AC / at 50/60 Hz / rated value  Protection class  protection class IP  i	insulation voltage / rated value	1 000 V	
protection class IP IP20  • protection class IP / on the front IP20 • protection function of the overcurrent release without  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 175 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value  Auxiliary circuit  number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2  suitability  suitability  suitability  product details  product component	operating voltage		
protection class IP IP20  • protection class IP / on the front • protection function of the overcurrent release without  Dissipation  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 175 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value  Auxilliary circuit  number of NC contacts / for auxiliary contacts  number of NO contacts / for auxiliary contacts 2  suitability  suitability  suitability for use  Product details  product component	• at AC / at 50/60 Hz / rated value	690 V	
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  175 W  Main circuit  operating frequency     1 / rated value     2 / rated value     10 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts  number of NO contacts / for auxiliary contacts  2  Suitability  suitability for use  Contact unit without release  Product details  product component	Protection class		
protection function of the overcurrent release without  Dissipation  power loss [W]     • for rated value of the current / at AC / in hot operating state / per pole     • maximum	protection class IP	IP20	
protection function of the overcurrent release  pissipation  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole • maximum  175 W  Main circuit  operating frequency • 1 / rated value • 2 / rated value • 2 / rated value  Auxiliary circuit  number of NC contacts / for auxiliary contacts  number of NO contacts / for auxiliary contacts 2  Suitability  suitability  suitability for use  Contact unit without release  Product details  product component			
Dissipation  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole • maximum 175 W  Main circuit  operating frequency • 1 / rated value 50 Hz • 2 / rated value 60 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts 2 number of NO contacts / for auxiliary contacts 2 Suitability suitability suitability or use Contact unit without release  Product details product component	protection class IP / on the front	IP20	
power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole  • maximum  175 W  Main circuit  operating frequency  • 1 / rated value  • 2 / rated value  Auxiliary circuit  number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2  number of NO contacts / for auxiliary contacts 2  Suitability  suitability for use  Contact unit without release  Product details  product component	protection function of the overcurrent release	without	
for rated value of the current / at AC / in hot operating state / per pole     maximum     175 W  Main circuit  operating frequency     1 / rated value     50 Hz     60 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts     2  number of NO contacts / for auxiliary contacts 2  Suitability  suitability for use  Contact unit without release  Product details  product component	Dissipation		
state / per pole     maximum 175 W  Main circuit  operating frequency     1 / rated value 50 Hz     2 / rated value 60 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts 2 number of NO contacts / for auxiliary contacts 2  Suitability  suitability for use Contact unit without release  Product details  product component	power loss [W]		
Main circuit  operating frequency  • 1 / rated value  • 2 / rated value  60 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts  2 number of NO contacts / for auxiliary contacts  2 Suitability  suitability for use  Contact unit without release  Product details  product component		58.7 W	
operating frequency  • 1 / rated value  • 2 / rated value  60 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts  number of NO contacts / for auxiliary contacts  2  Suitability  suitability for use  Contact unit without release  Product details  product component	maximum	175 W	
● 1 / rated value 50 Hz  ● 2 / rated value 60 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts 2  number of NO contacts / for auxiliary contacts 2  Suitability  suitability for use Contact unit without release  Product details  product component	Main circuit		
● 2 / rated value 60 Hz  Auxiliary circuit  number of NC contacts / for auxiliary contacts 2 number of NO contacts / for auxiliary contacts 2  Suitability  suitability for use Contact unit without release  Product details  product component	operating frequency		
Auxiliary circuit  number of NC contacts / for auxiliary contacts  number of NO contacts / for auxiliary contacts  2  Suitability  suitability for use  Product details  product component	• 1 / rated value	50 Hz	
number of NC contacts / for auxiliary contacts  number of NO contacts / for auxiliary contacts  2  Suitability  suitability for use  Contact unit without release  Product details  product component	• 2 / rated value	60 Hz	
number of NO contacts / for auxiliary contacts  Suitability  suitability for use Contact unit without release  Product details  product component	Auxiliary circuit		
Suitability suitability for use Contact unit without release  Product details product component	number of NC contacts / for auxiliary contacts	2	
suitability for use  Contact unit without release  Product details  product component	number of NO contacts / for auxiliary contacts	2	
Product details product component	Suitability		
product component	suitability for use	Contact unit without release	
	Product details		
• trip indicator	product component		
	trip indicator	No	
• voltage trigger No	voltage trigger	No	
undervoltage release     No	undervoltage release	No	
design of the auxiliary switch 2 NO + 2 NC	design of the auxiliary switch	2 NO + 2 NC	
product extension / optional / motor drive Yes	product extension / optional / motor drive	Yes	
Product function	Product function		
product function	product function		
• grounding protection No	grounding protection	No	
Display and operation	Display and operation		
display version without display	display version	without display	

Short circuit		
operating short-circuit current breaking capacity (lcs)		
• 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 (Icu)		
• at 415 V / rated value	100 kA	
• at 500 V / rated value	100 kA	
• at 690 V / rated value	85 kA	
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	411.5 mm	
width	451 mm	
depth	337 mm	
fastening method	drawer unit	
Environmental conditions		
ambient temperature / during operation		
• minimum	-25 °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=3WL1216-4AA35-1AA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3WL1216-4AA35-1AA2

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

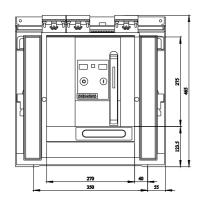
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3WL1216-4AA35-1AA2

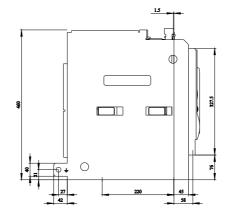
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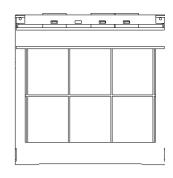
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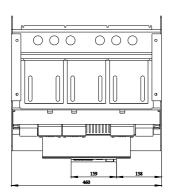
**Tender specifications** 

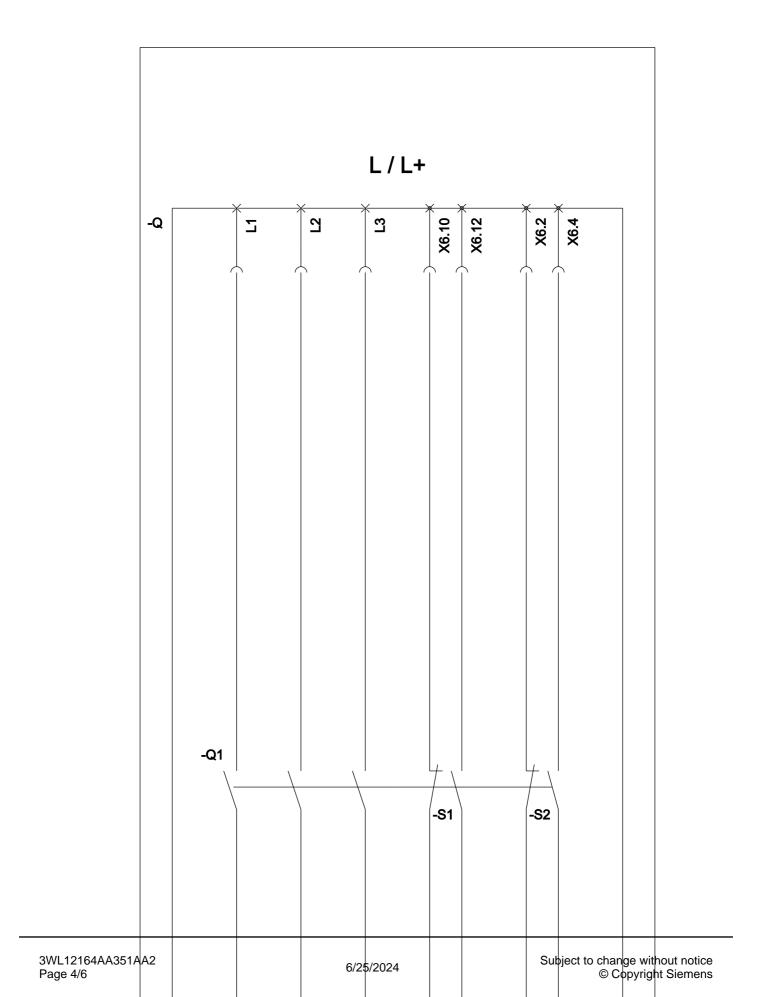
http://www.siemens.com/specifications











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