## **SIEMENS**

## **Data sheet**

## 3WL1210-4BB64-4AN2-Z C22+F31

Fixed-mounted circuit breaker 3-pole, Size 2, IEC In=1000 A up to 690 V, 50/60 Hz AC Icu=100 kA at 500 V Front connection top/bottom double hole Overcurrent release ETU 15 LI protection adjustable 0.5-1 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 230 V, 220 V DC without 1st auxiliary release With 2nd auxiliary release "R", F3 Undervoltage, instant. 208-240 V AC, 220-250 V DC 2NO+2NC C22= Ready indicator F31= EMC filter

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/motorized operating mechanism with mechanical and electrical closing	
type of the driving mechanism / motor drive	Yes	
design of the overcurrent release	ETU15B	
General technical data		
number of poles	3	
size of the circuit-breaker	2	
utilization category	В	
circuit-breaker / Design	3WL1	
Voltage		
Rated insulation voltage Ui	1 000 V	
insulation voltage / rated value	1 000 V	
operating voltage		
<ul><li>at AC / at 50/60 Hz / rated value</li></ul>	690 V	
Protection class		
protection class IP	IP20	
protection class IP / on the front	IP20	
protection function of the overcurrent release	LI	
Dissipation		
power loss [W]		
<ul> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	15 W	
• maximum	45 W	
Current		
continuous current / rated value / maximum	1 000 A	
continuous current / rated value	1 000 A	
adjustable current response value current		
<ul> <li>of the current-dependent overload release / full- scale value</li> </ul>	1 000 A	
<ul> <li>of instantaneous short-circuit trip unit / initial value</li> </ul>	2 000 A	
<ul> <li>of instantaneous short-circuit trip unit / full-scale value</li> </ul>	8 000 A	
Main circuit		
operating frequency		
• 1 / rated value	50 Hz	
• 2 / rated value	60 Hz	
operational current		
<ul> <li>at 40 °C / rated value</li> </ul>	1 000 A	
<ul> <li>at 50 °C / rated value</li> </ul>	1 000 A	

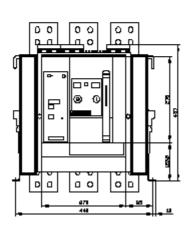
a di 80°C / Tated value a di 80°C / Tated value 1 000 A 1 000 A 2 di 7 of 20°C Tated value 1 000 A Austiany curcuit number of NC contacts / for auxiliary contacts 2 number of NC contacts / for auxiliary contacts 2 Stritability suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overfload release / initial value  Product datability product varies on years of years a voltage fright of years by the detection  No  Product function  ### Of Years  #### Of Years  ##### Of Years  ##### Of Years  ##### Of Years  ##### Of Years  ###### Of Years  ######### Of Years  ###################################		
	at 55 °C / rated value	1 000 A
auxiliary circuit number of NC contacts / for auxiliary contacts 2 number of NO contacts / for auxiliary contacts 2 stratability surbaility for use for use of use of use surbaility for use of	at 60 °C / rated value	1 000 A
Auxillary circuit number of NC contacts / for auxiliary contacts number of NC contacts / for auxiliary contacts suitability for use  Adjustable parameters adjustable parameters adjustable current response value current / of the current- dependent overhoad release / initial value  Product details  Product details  Product proper of very contact of the current- design of the auxiliary switch violage frigger vundervoltage release  4 seg of the auxiliary switch violage frigger vundervoltage release  4 seg of the auxiliary switch violage frigger vundervoltage release  4 seg of the auxiliary switch violage frigger vundervoltage release  4 seg of the auxiliary switch violage frigger vundervoltage release  4 seg of the auxiliary switch violage frigger vundervoltage release  4 seg of the auxiliary switch violage frigger vundervoltage release  4 seg of the auxiliary switch violage frigger vundervoltage release  4 seg of the auxiliary switch violage frigger vundervoltage release ves of the violage version violage frigger vundervoltage release violage frigger vundervoltage release ves of the violage version violage frigger vundervoltage release ves of violage version violage	• at 65 °C / rated value	1 000 A
number of NC contacts / for auxiliary contacts 2 Suitability suitability for use Adjustable parameters adjustable parameters adjustable parameters adjustable current response value current / of the current- dependent overload release / initial value Product details product component  • Up iniciator  • Vidage trigger  • Underdottage release  • undervottage release  Yes  design of the auxiliary switch  product function  product function  product function  product function  • prounding protection  • prounding protection  • promoting protection  • promoting protection  • promoting protection  • provided extension / polinal / motor drive  Product function  product function  product function  ### Prod	at 70 °C / rated value	1 000 A
suntability for use system protection  Adjustable parameters  Adjustable parameters  Adjustable parameters  Adjustable parameters  Adjustable parameters  Son A  Adjustable parameters  Son A  Adjustable parameters  Froduct datals  product component  • irip indicator  • votage trigger  • undervotage release  4 yes  • undervotage release  4 yes  • undervotage release  9 yes  • undervotage release  1 yes  • product extension / optional / motor drive  Product function  • grounding protection  • product function  • grounding protection  • product function  • product	Auxiliary circuit	
Suitability for use system protection  Adjustable parameters  adjustable current response value current / of the current- dependent overload release / initial value  Product distable  product component  • Up in indicator  • voltage trigger  • undervoltage release  design of the auxiliary switch  product function  signal y warsion  status and appear to the status of the status		2
suitability for use Agitable parameters Agitable parameters Agitable parameters adjustable current response value current / of the current- dependent overload release / initial value  Product dottalis  product component  • irp indicator • vitage trigger • vitag	number of NO contacts / for auxiliary contacts	2
Adjustable parameters adjustable current response value current / of the current- dependent overload release / initial value  Product dotalis  product component	Suitability	
adjustable current response value current / of the current-dependent overload release / initial value  Product doralis  product component  • trip indicator  • voltage trigger  • voltage trigger  No  • undervoltage release  design of the auxiliary switch  product function  • grounding protection  • product function  product function  product function  • grounding protection  • phase failure detection  No  Olsplay and operation  display version  Short circuit  breaking capacity operating short-circuit current (ics)  • at 415 V / rated value • at 690 V / rated value • at 690 V / rated value  • at 500 V / rated value  • at 600 V / rated v	suitability for use	system protection
dependent overload release / initial value  Product details  product component  • trip indicator • voltage trigger • undervoltage release  design of the auxiliary switch product extension / optional / motor drive  Product function  value  in one stailure detection  No  No    Section	Adjustable parameters	
product component  • trip indicator • voltage trigger • undervoltage release • Ves design of the auxiliary switch product extension? optional? motor drive  Product function • grounding protection • product function • grounding protection • product product function • grounding protection • product function  In the state of the		500 A
Itrip indicator     voltage trigger     voltage trigger     voltage trigger     voltage release     Yes  design of the auxiliary switch     product extension / optional / motor drive  Product function  product function  product function  o grounding protection     ophase failure detection  No  Display and operation  display version  display version  without display  Short circuit  breaking capacity operating short-circuit current (Ics)     o at 415 V / rated value     o at 690 V / rated value     o at 690 V / rated value     o at 500 V / rated value     o at 500 V / rated value     o at 500 V / rated value     o at 690 V / rated value     o at 690 V / rated value     or at 690 V / r	Product details	
• voltage trigger     • undervoltage release     design of the auxiliary switch     product extension / optional / motor drive     Product function     • grounding protection     • product function     • grounding protection     • phase failure detection  Display and operation  display version     vithout display  Short circuit  breaking capacity operating short-circuit current (Ics)     • at 415 V / rated value     • at 690 V / rated value     • at 690 V / rated value     • at 690 V / rated value     • at 500 V / rated value     • at 500 V / rated value     • at 690 V / rated value	product component	
e undervoltage release  design of the auxiliary switch  product extension / optional / motor drive  Product function  product function  product function  e grounding protection  e) product growth operation  e) grounding protection  e) phase failure detection  No  Display and operation  display version  Short circuit  Dreaking capacity operating short-circuit current (ics)  e) at 415 V / rated value  e) at 415 V / rated value  e) at 690 V / rated value  for aking capacity maximum short-circuit current (icu)  e) at 415 V / rated value  e) at 690 V / rated value  for aking capacity maximum short-circuit current (icu)  e) at 415 V / rated value  for aking capacity maximum short-circuit current (icu)  for aking capacity maximum short-circuit current (icu)  e) at 690 V / rated value  for aking capacity maximum short-circuit current (icu)  for aking capacity maximum short-circuit current circuit  Main connection top front/bottom double hole circuit current circuit  for aking connection for main current circuit  for aking connection  Main connection top front/bottom double hole circuit current circuit  for aking connection  Main connection top front/bottom double hole circuit current circuit  for aking connection  for main current circuit  for aking connection  fixed mounting  fixed mounting  for c  maximum  for C  currificates  for ference code  e) ac. to DIN EN 61346-2  e) ac. to DIN EN 61346-2  e) ac. to IDIN EN 61346-2  e) ac. to DIN	trip indicator	Yes
design of the auxiliary switch product extension / optional / motor drive  Product function product function  grounding protection • grounding protection • phase failure detection  Display and operation  display version  Short circuit  breaking capacity operating short-circuit current (ics) • at 415 V / rated value • at 500 V / rated value • at 500 V / rated value • at 4500 V / rated value • at 500 V / rated value • at 600 V / rated value • a	<ul> <li>voltage trigger</li> </ul>	No
product extension / optional / motor drive Product function  grounding protection phase failure detection playing and operation display version  Short circuit breaking capacity operating short-circuit current (ics) at 415 V / rated value at 500 V / rated value at 690 V / rated value breaking capacity maximum short-circuit current (icu) at 415 V / rated value breaking capacity maximum short-circuit current (icu) at 415 V / rated value breaking capacity maximum short-circuit current (icu) at 415 V / rated value breaking capacity maximum short-circuit current (icu) at 415 V / rated value breaking capacity maximum short-circuit current (icu) at 415 V / rated value breaking capacity maximum short-circuit current (icu) at 415 V / rated value breaking capacity maximum short-circuit current (icu) breaking capacity maximum breaking capacity and cap	undervoltage release	Yes
Product function product function e grounding protection e) phase failure detection No  Display and operation display version  Short circuit  breaking capacity operating short-circuit current (Ics) e at 415 V / rated value 100 kA at 450 V / rated value 100 kA e at 690 V / rated value 100 kA e at 500 V / rated value 100 kA e at 500 V / rated value 85 kA  breaking capacity maximum short-circuit current (Icu) e at 415 V / rated value 85 kA  breaking capacity maximum short-circuit current (Icu) e at 415 V / rated value 85 kA  breaking capacity rated value 95 kA  Connections  arrangement of electrical connectors / for main current circuit busbar connection top front/bottom double hole circuit type of electrical connection / for main current circuit  Mechanical Design height 507 mm width 460 mm depth fastening method fixed mounting  Environmental conditions  ambient temperature / during operation minimum minimu		2 NO + 2 NC
product function	product extension / optional / motor drive	No
grounding protection     phase failure detection     No  Display and operation  display version  Short circuit  breaking capacity operating short-circuit current (Ics)	Product function	
phase failure detection  Display and operation  display version  Short circuit  breaking capacity operating short-circuit current (lcs)  • at 415 V / rated value • at 690 V / rated value • at 690 V / rated value • at 4500 V / rated value • at 4500 V / rated value • at 690 V / rated value • busbar connection top front/bottom double hole circuit type of electrical connection / for main current circuit  Main connection top front/bottom double hole circuit type of electrical connection / for main current circuit  Main connection • busbar connection  Main connection  Main connection  Main connection  Main connection  Ado "C  maximum  Ado "C  maximum  Ado "C  maximum  Ado "C  maximum  Ado "C  certificates  reference code  acc. to IDN EN 61346-2  Q  acc. to IDN EN 61346-2  Q  Certificates  Feleracion  First devalue  Ado "C  Certificates  Feleracion  Ado "C  Certificates  Feleracion  First devalue  Ado "C  Q  acc. to IDN EN 61346-2  Q  Acc. to IDN EN 61346-2  Q  Acc. to IDN EN 61346-2  Q  Certificates	product function	
Display and operation  display version without display  Short circuit  breaking capacity operating short-circuit current (Ics)  • at 415 V / rated value 100 kA  • at 690 V / rated value 85 kA  breaking capacity maximum short-circuit current (Icu)  • at 415 V / rated value 100 kA  • at 500 V / rated value 100 kA  • at 500 V / rated value 100 kA  • at 500 V / rated value 100 kA  • at 690 V / rated value 100 kA  • at 690 V / rated value 150 kA  • at 690 V / rat	<ul> <li>grounding protection</li> </ul>	No
display version  Short circuit  breaking capacity operating short-circuit current (Ics)  • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • at 500 V / rated value • at 45 V / rated value • at 500 V / rated value • at 500 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value  * busbar connection top front/bottom double hole circuit  * type of electrical connection / for main current circuit  * Mechanical Design  height  * width  * de0 mm  depth  * fastening method  * fixed mounting  Environmental conditions  * ambient temperature / during operation • minimum • maximum  * auximum  * To °C  maximum  * maximum  * auximum  *	<ul> <li>phase failure detection</li> </ul>	No
Short circuit  breaking capacity operating short-circuit current (lcs)  • at 415 V / rated value • at 690 V / rated value • at 415 V / rated value • at 415 V / rated value • at 690 V / rated value • bushar connection top front/bottom double hole circuit  type of electrical connectors / for main current circuit  Mechanical Design height • for main current circuit  Mechanical Design height • fastening method fastening method fastening method fastening method fastening method  Environmental conditions ambient temperature / during operation • minimum • maximum  - 40 °C - 70 °C  ambient temperature / during storage • minimum • maximum • maximum • maximum • maximum • maximum • maximum • current • maximum • maximum • maximum • maximum • current • maximum • an or C  Certificates  reference code • acc. to DIN EN 61346-2 • acc. to IEC 81346-2	Display and operation	
breaking capacity operating short-circuit current (ics)  • at 415 V / rated value  • at 500 V / rated value  • at 690 V / rated value  • at 690 V / rated value  • at 415 V / rated value  • at 500 V / rated value  • at 690 V / rated value  • busbar connection top front/bottom double hole doub	display version	without display
at 415 V / rated value at 500 V / rated value at 690 V / rated value breaking capacity maximum short-circuit current (Icu) at 415 V / rated value at 500 V / rated value at 500 V / rated value at 690 V / rated value at 690 V / rated value at 690 V / rated value beat 690 V / rated value beat 690 V / rated value bushar connections  arrangement of electrical connectors / for main current circuit bushar connection bushar connection bushar connection  Main connection top front/bottom double hole bushar connection  Main connection bushar connection  Main connection top front/bottom double hole bushar connection  Main connection top front/bottom double hole  arrangement of electrical connection / for main current circuit bushar connection  Main connection top front/bottom double hole  bushar connection  Main connection top front/bottom double hole  arrangement of electrical connection / for main current circuit bushar connection  Main connection top front/bottom double hole  arrangement of electrical connection / for main current circuit bushar connection  Main connection top front/bottom double hole  arrangement of electrical connection / for main current circuit bushar connection  Main connection top front/bottom double hole  arrangement of electrical connection / for main current circuit bushar connection  Main connection / for moin fine front/bottom double hole  arrangement of electrical connection / for main current circuit bushar connection / for moin fine front/bottom double hole  at 690 V frated value bushar connection / for main current circuit bushar connection / for for fine front/bottom double hole  at 690 V frated value bushar connection / for for fine front/bottom double hole  at 690 V frated value bushar connection / for for fine front/bottom double hole  at 690 V frated value bushar connection / for for fine front/bottom double hole  at 690 V frated value bushar connection / for for fine front/bottom double front fine front/bottom double for for fine front/bottom double front/bottom double front/bottom	Short circuit	
at 500 V / rated value at 690 V / rated value breaking capacity maximum short-circuit current (Icu)  at 415 V / rated value at 500 V / rated value at 500 V / rated value at 690 V / rated value breaking capacity vaximum short-circuit current (Icu) at 415 V / rated value at 500 V / rated value breaking capacity vaximum short-circuit current of the connections  arrangement of electrical connectors / for main current circuit busbar connection  Mechanical Design height fastening method fixed mounting  Environmental conditions  ambient temperature / during operation minimum minimu	breaking capacity operating short-circuit current (Ics)	
at 690 V / rated value breaking capacity maximum short-circuit current (Icu)     at 415 V / rated value     at 500 V / rated value     at 690 V / rated value     arrangement of electrical connectors / for main current circuit  Main connection top front/bottom double hole circuit type of electrical connection / for main current circuit  Mechanical Design height     soft mm depth     460 mm depth fastening method fixed mounting  Environmental conditions ambient temperature / during operation     minimum     ambient temperature / during storage     minimum     ambient temperature / during storage     minimum     ambient temperature / during storage     maximum     ambient temperature / during storage     maximum     ambient temperature / during storage     eminimum     acc. to DIN EN 61346-2     acc. to DIN EN 61346-2     acc. to IEC 81346-2     Q Further information	<ul><li>at 415 V / rated value</li></ul>	100 kA
breaking capacity maximum short-circuit current (Icu)  • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • at 690 V / rated value  • at 690 V / rated value  • at 690 V / rated value  • at 690 V / rated value   Connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Mechanical Design  height  507 mm  width  460 mm  depth  fastening method  Environmental conditions  ambient temperature / during operation • minimum • maximum  70 °C  ambient temperature / during storage • minimum • maximum  80 °C  Certificates  reference code • acc. to DIN EN 61346-2 • acc. to IEC 81346-2  Q  Further information	<ul><li>at 500 V / rated value</li></ul>	100 kA
at 415 V / rated value at 500 V / rated value at 690 V / rated value 85 kA  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit  Mechanical Design height 507 mm width 460 mm depth fastening method Environmental conditions  ambient temperature / during operation • minimum • maximum  maximum  maximum  ambient temperature / during storage • minimum • maximum • maximum • maximum • maximum  To °C  Certificates  reference code • acc. to DIN EN 61346-2 • acc. to IEC 81346-2  Q  Further information	at 690 V / rated value	85 kA
at 500 V / rated value at 690 V / rated value  Tonnections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Mechanical Design height width depth 369 mm fastening method fixed mounting  Environmental conditions  ambient temperature / during operation minimum	breaking capacity maximum short-circuit current (Icu)	
• at 690 V / rated value  Connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Mechanical Design  height  soft mm  depth  depth  fastening method  Environmental conditions  ambient temperature / during operation  • minimum  • maximum  maximum  To °C  ambient temperature / during storage  • minimum  • maximum  • as °C  Certificates  reference code  • acc. to DIN EN 61346-2  • acc. to IEC 81346-2  Q  Further information	<ul><li>at 415 V / rated value</li></ul>	100 kA
arrangement of electrical connectors / for main current circuit  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	<ul><li>at 500 V / rated value</li></ul>	100 kA
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Mechanical Design  height 507 mm  width 460 mm  depth 369 mm  fastening method fixed mounting  Environmental conditions  ambient temperature / during operation  • minimum - 40 °C  • maximum - 70 °C  ambient temperature / during storage  • minimum - 40 °C  • maximum - 40 °C  certificates  reference code  • acc. to DIN EN 61346-2  • acc. to IEC 81346-2  • acc. to IEC 81346-2  Q  Further information	<ul><li>at 690 V / rated value</li></ul>	85 kA
circuit type of electrical connection / for main current circuit  Mechanical Design  height 507 mm  width 460 mm  depth 369 mm  fastening method fixed mounting  Environmental conditions  ambient temperature / during operation  • maximum 70 °C  ambient temperature / during storage  • minimum -40 °C  • maximum 80 °C  Certificates  reference code  • acc. to DIN EN 61346-2  • acc. to IEC 81346-2  Q  Further information	Connections	
Mechanical Design         507 mm           width         460 mm           depth         369 mm           fastening method         fixed mounting           Environmental conditions         Image: second condition of the properties of the		Main connection top front/bottom double hole
height 507 mm  width 460 mm  depth 369 mm  fastening method fixed mounting  Environmental conditions  ambient temperature / during operation  • minimum -40 °C  ambient temperature / during storage  • maximum -70 °C  ambient temperature / during storage  • minimum -40 °C  certificates  reference code  • acc. to DIN EN 61346-2  • acc. to IEC 81346-2  Q  Further information	type of electrical connection / for main current circuit	busbar connection
width 460 mm  depth 369 mm  fastening method fixed mounting  Environmental conditions  ambient temperature / during operation	Mechanical Design	
depth 369 mm fastening method fixed mounting  Environmental conditions  ambient temperature / during operation	height	507 mm
fastening method  Environmental conditions  ambient temperature / during operation  • minimum  • maximum  70 °C  ambient temperature / during storage  • minimum  • maximum  40 °C  certificates  reference code  • acc. to DIN EN 61346-2  • acc. to IEC 81346-2  Q  Further information	width	460 mm
Environmental conditions  ambient temperature / during operation	depth	369 mm
ambient temperature / during operation  • minimum  • maximum  70 °C  ambient temperature / during storage  • minimum  • maximum  80 °C  Certificates  reference code  • acc. to DIN EN 61346-2  • acc. to IEC 81346-2  Q  Further information		fixed mounting
<ul> <li>minimum</li> <li>maximum</li> <li>monormal</li> <li>maximum</li> <li>minimum</li> <li>maximum</li> <li>maximum</li> <li>maximum</li> <li>maximum</li> <li>certificates</li> <li>reference code</li> <li>acc. to DIN EN 61346-2</li> <li>acc. to IEC 81346-2</li> <li>Q</li> <li>Further information</li> </ul>	Environmental conditions	
<ul> <li>maximum         ambient temperature / during storage         <ul> <li>minimum</li> <li>maximum</li> </ul> </li> <li>Certificates         <ul> <li>reference code</li> <li>acc. to DIN EN 61346-2</li> <li>acc. to IEC 81346-2</li> </ul> </li> <li>Further information</li> </ul>	ambient temperature / during operation	
ambient temperature / during storage  • minimum  • maximum  80 °C  Certificates  reference code  • acc. to DIN EN 61346-2  • acc. to IEC 81346-2  Q  Further information		
		70 °C
Certificates  reference code  • acc. to DIN EN 61346-2  • acc. to IEC 81346-2  Q  Further information		
reference code  • acc. to DIN EN 61346-2  • acc. to IEC 81346-2  Q  Further information		80 °C
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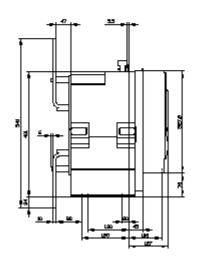
Industry Mall (Online ordering system)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1210-4BB64-4AN2-Z C22+F31">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1210-4BB64-4AN2-Z C22+F31</a>

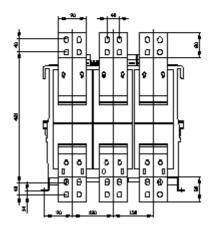
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

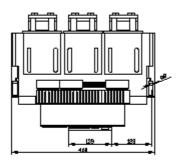
https://support.industry.siemens.com/cs/ww/en/ps/3WL1210-4BB64-4AN2-Z C22+F31 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3WL1210-4BB64-4AN2-Z C22+F31

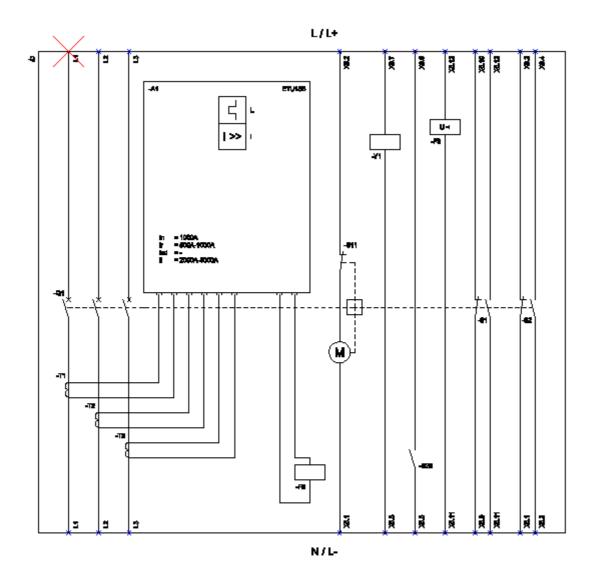
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Eli (Internal notor shekdom switch, if spring is tanahous / Internal holder, was Peder geopeant): FS (Undervoltage release / Undervoltage / Undervoltage release / Undervoltage / U

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