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Data sheet 3WL1220-2AA31-4GN4

fixed-mount non-aut. circuit-b. 3-pole, size II, IEC In=2000A to 690V, AC50/60Hz Icu=66kA at 500V rear connection vertical without overcurrent release 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 With 1st auxiliary release Shunt release "F", F1 50/60 Hz 230 V AC/220 V DC, 100% on-load factor With 2nd auxiliary release "R", F3 Undervoltage, instant. 208-240 V AC, 220-250 V DC 4NO+4NC

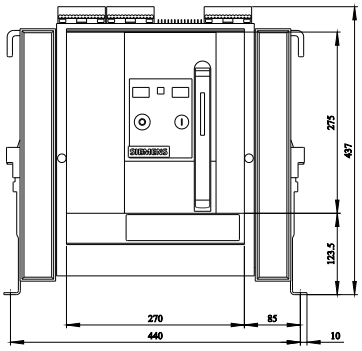
Model	
design of the product	IEC 60947-2
design of the actuating element	Pushbutton
type of the driving mechanism	Manual/motorized operating mechanism with mechanical and electrical closing
type of the driving mechanism / motor drive	Yes
design of the overcurrent release	without
General technical data	
number of poles	3
size of the circuit-breaker	2
utilization category	B
Voltage	
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	without
Dissipation	
power loss [W]	
● for rated value of the current / at AC / in hot operating state / per pole	60 W
● maximum	180 W
Main circuit	
operating frequency	
● 1 / rated value	50 Hz
● 2 / rated value	60 Hz
Auxiliary circuit	
number of NC contacts / for auxiliary contacts	4
number of NO contacts / for auxiliary contacts	4
Suitability	
suitability for use	Contact unit without release
Product details	
product component	
● **trip indicator**	No
● voltage trigger	Yes
● undervoltage release	Yes
design of the auxiliary switch	4 NO + 4 NC
product extension / optional / motor drive	No
Product function	
product function	
● grounding protection	No
Display and operation	
display version	without display
Short circuit	

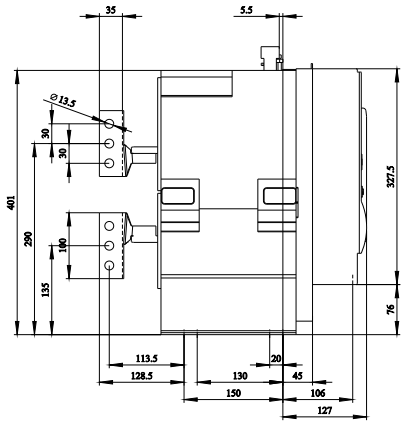
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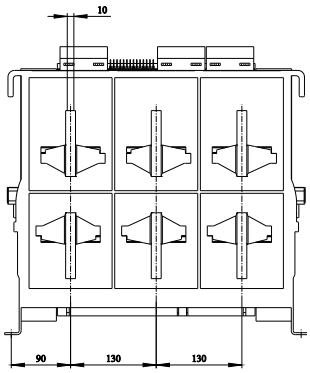
operating short-circuit current breaking capacity (Ics)	
● at 415 V / rated value	66 kA
● at 500 V / rated value	66 kA
● at 690 V / rated value	50 kA
maximum short-circuit current breaking capacity (Icu)	
● at 415 V / rated value	66 kA
● at 500 V / rated value	66 kA
● at 690 V / rated value	50 kA
Connections	
arrangement of electrical connectors / for main current circuit	Main terminal on the rear vertical
type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
height	440.5 mm
width	460 mm
depth	390.5 mm
fastening method	fixed mounting
mounting position	any
Net Weight	56 kg
Environmental conditions	
ambient temperature / during operation	
● minimum	-25 °C
● maximum	70 °C
ambient temperature / during storage	
● minimum	-40 °C
● maximum	70 °C
Further information	

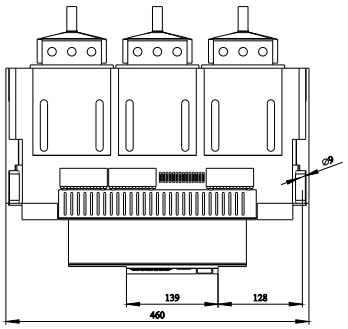
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-2AA31-4GN4
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-2AA31-4GN4
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-2AA31-4GN4
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
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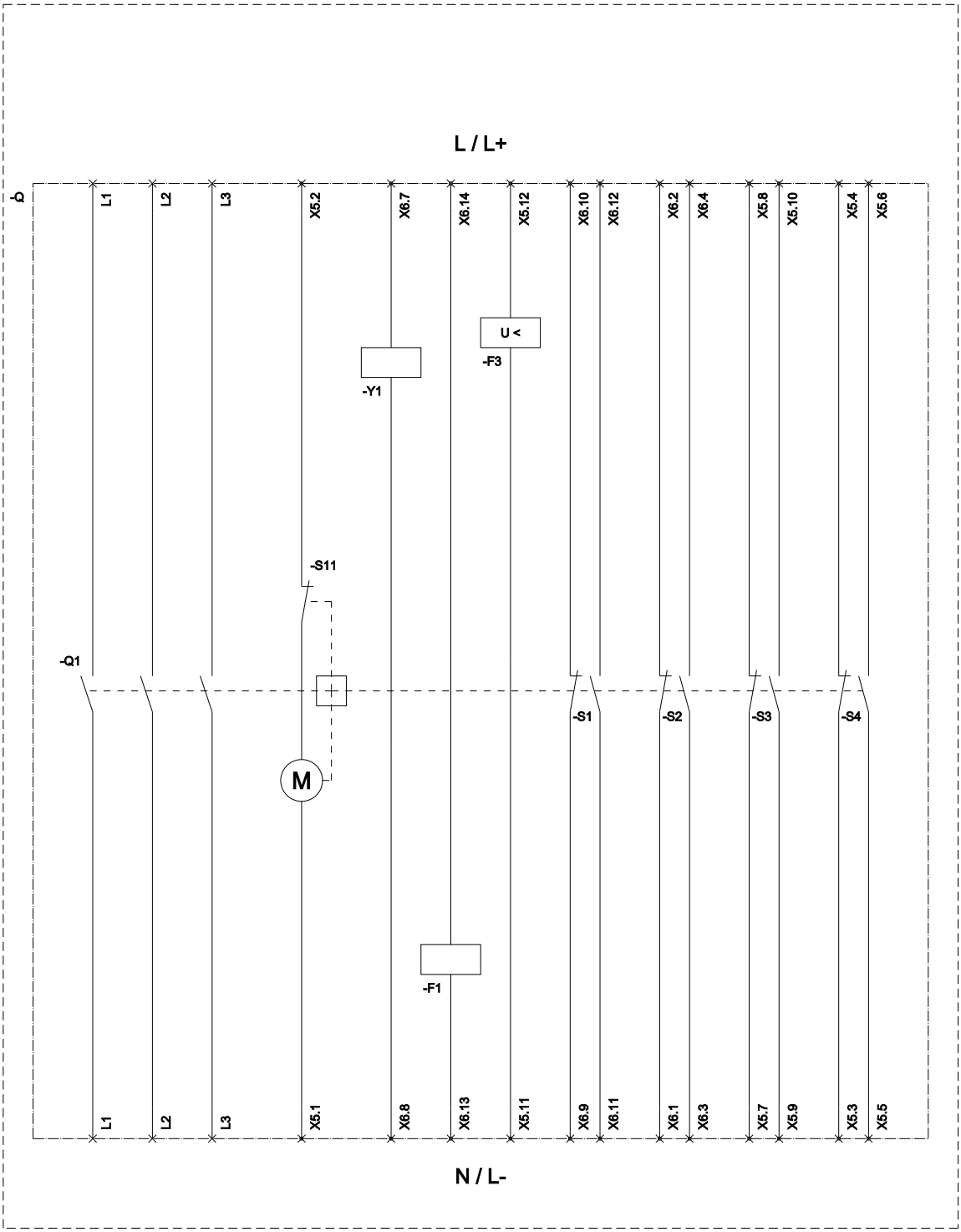








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S11 (Internal motor shutdown switch, if spring is tensioned / Interner Motorabstellschalter, wenn Feder gespannt);
F1 (1st auxiliary release / Erster Hilfsauslöser); F3 (Undervoltage release / Unterspannungsauslöser); S1 - S8 (Auxiliary switch / Hilfsschalter);
Y1 (Closing coil / Einschaltmagnet);

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