SIEMENS

Data sheet 3LD2866-0TB51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 125 A, Operating power / at AC-23 A at 400 V: 45 kW, molded-plastic encapsulation for metric cable gland, rotary operating mechanism, black

product brand name product designation Switch disconnector design of the product Main switch display version for switch position indicator manual operation 1 ON - 0 OFF Upe of switch Molded-plastic enclosure for metric threaded joint design of the actuating element Short rotary knob color of the actuating element Disack design of the actuating element Disack Octor of the actuating element Disack Disacy operating mechanism, black Whype of the driving mechanism motor drive No General technical data number of poles N + PE Size of switch disconnector Mechanical service life (operating cycles) bytical electrical endurance (operating cycles) At AC-23 A at 690 V Operating frequency maximum degree of polition Voitage Insulation voitage rated value Surge voitage resistance rated value Minimum So HZ Protection class Protection class Protection class IP IP66 degree of protection NEMA rating Direction class IP Protection class IP IP66 Dissipation Diversignation Name of the actual value At AC-21 A at 400 V rated value At AC-21 A at 400 V rated value At AC-21 A at 400 V rated value At AC-21 A at 440 V	Model	
design of the product display version for switch position indicator manual operation 1 ON - 0 OFF 1 ype of switch Moldete-plastic enclosure for metric threaded joint design of the actuating element black color of the actuating element black rotary operating mechanism, black ype of the driving mechanism motor drive No General technical data number of poles note size of switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution Voltage insulation voltage rated value surge voltage resistance rated value operating frequency rated value • minimum • at AC rated value • minimum • motection class IP protection class IP on the front IP65 Designation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 hat 400 V rated value	product brand name	SENTRON
display version for switch position indicator manual operation type of switch design of the actuating element color of the actuating element black design of handle type of the driving mechanism motor drive No Ceneral technical data number of poles number of poles note size of switch disconnector wethanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum for polating voltage • at AC rated value • minimum • at AC rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value	product designation	Switch disconnector
type of switch design of the actuating element Short rotary knob color of the actuating element design of handle type of the driving mechanism motor drive No Ceneral technical data number of poles number of poles size of switch disconnector electrical endurance (operating cycles) typical electrical endurance (operating cycles) at AC-23 A at 690 V operating frequency maximum elegree of pollution at AC-21 at 890 V enable of the correct of the fort electrical cycles of the fort electrical endurance (operating cycles) 100 V	design of the product	Main switch
design of the actuating element black color of the actuating element black design of handle rotary operating mechanism, black type of the driving mechanism motor drive No General technical data number of poles 3 number of poles 13 number of poles 14 number of poles 15 size of switch disconnector 4 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 190 000 operating frequency maximum 50 1/h degree of pollution 3 voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 160 Hz Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operating at at AC-21 A at 240 V rated value 125 A • at AC-21 A at 240 V rated value 125 A • at AC-21 A at 240 V rated value 125 A	display version for switch position indicator manual operation	1 ON - 0 OFF
color of the actuating element design of handle rotary operating mechanism, black type of the driving mechanism motor drive No Repetating mechanism, black type of the driving mechanism motor drive No Repetating mechanism, black No Repetating mechanism, black No Repetating mechanism motor drive No Repetating No Repeta	type of switch	Molded-plastic enclosure for metric threaded joint
design of handle rotary operating mechanism, black type of the driving mechanism motor drive No General technical data number of poles 3 number of poles 0 size of switch disconnector 4 mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 1960 Hz Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current 1 25 A 14 240 V rated value 125 A 14 AC-21 A at 240 V rated value 125 A 125 A	design of the actuating element	Short rotary knob
type of the driving mechanism motor drive General technical data number of poles 3 number of poles note Size of switch disconnector 4 mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-21 at 690 V rated value • at AC-21 at 41 200 V rated value	color of the actuating element	black
General technical data number of poles number of poles note size of switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum degree of pollution surge voltage resistance rated value operating frequency rated value • inimimum • at AC-21 Act act of value • maximum foo Hz Protection class IP degree of protection NEMA rating protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 A at 240 V rated value at AC-21 A at 240 V rated value 125 A at AC-21 A at 400 V rated value 125 A at AC-21 A at 400 V rated value 125 A	design of handle	rotary operating mechanism, black
number of poles 3 number of poles note N + PE size of switch disconnector 4 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 • at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage Visitage insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating frequency rated value 690 V operating frequency rated value 690 V • maximum 50 Hz • maximum 60 Hz Protection class IP protection class IP on the front IP65 Dissipation IP65 Dissipation 12 W operating state per pole Main circuit operational current • at AC-21 at 690 V rated value 125 A • at AC-21 A at 240 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	type of the driving mechanism motor drive	No
number of poles note N + PE size of switch disconnector 4 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) • at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating voltage resistance rated value 690 V operating voltage • at AC rated value 690 V operating requency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 100 Hz Protection class protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation operating state per pole Main circuit operational current • at AC-21 at 690 V rated value 125 A • at AC-21 A at 240 V rated value 125 A • at AC-21 A at 240 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	General technical data	
Size of switch disconnector	number of poles	3
mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value surge voltage resistance rated value • at AC rated value • at AC rated value • minimum • maximum • maximum Frotection class protection class IP degree of protection NEMA rating protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value	number of poles note	N + PE
electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating voltage • at AC rated value 690 V operating frequency rated value • minimum • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP of the front Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value	size of switch disconnector	4
at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage at AC rated value 690 V operating frequency rated value 690 V operating frequency rated value 600 Hz Protection class protection class IP degree of protection NEMA rating protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current at AC-21 at 690 V rated value 125 A at AC-21 A at 240 V rated value 125 A at AC-21 A at 400 V rated value 125 A	mechanical service life (operating cycles) typical	100 000
operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating voltage • at AC rated value 690 V operating frequency rated value • minimum 50 Hz • maximum 60 Hz Protection class protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value 125 A • at AC-21 A at 240 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	electrical endurance (operating cycles)	
degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 680 V operating voltage • at AC rated value 690 V operating frequency rated value • minimum 50 Hz • maximum 60 Hz Protection class protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value 125 A • at AC-21 A at 240 V rated value 125 A • at AC-21 A at 400 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	• at AC-23 A at 690 V	6 000
insulation voltage rated value 690 V surge voltage resistance rated value 680 V operating voltage at AC rated value 690 V operating frequency rated value minimum 50 Hz maximum 50 Hz maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current at AC-21 at 690 V rated value 125 A at AC-21 At 240 V rated value 125 A at AC-21 At 4400 V rated value 125 A at AC-21 At 4400 V rated value 125 A at AC-21 At 4400 V rated value 125 A	operating frequency maximum	50 1/h
insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage • at AC rated value 690 V operating frequency rated value • minimum 50 Hz • maximum 80 Hz Protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value	degree of pollution	3
surge voltage resistance rated value 6 kV operating voltage	Voltage	
operating voltage • at AC rated value operating frequency rated value • minimum • maximum foo Hz Protection class protection class IP degree of protection NEMA rating protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value	insulation voltage rated value	690 V
at AC rated value operating frequency rated value minimum	surge voltage resistance rated value	6 kV
operating frequency rated value • minimum • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value	operating voltage	
 minimum maximum 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value at AC-21 A at 400 V rated value 125 A at AC-21 A at 400 V rated value 125 A 	at AC rated value	690 V
 maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value at AC-21 A at 400 V rated value 125 A at AC-21 A at 400 V rated value 125 A 	operating frequency rated value	
protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	• minimum	50 Hz
protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	• maximum	60 Hz
degree of protection NEMA rating 1, 4X, 12 protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	Protection class	
protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	protection class IP	IP65
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	degree of protection NEMA rating	1, 4X, 12
power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	protection class IP on the front	IP65
operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value 125 A • at AC-21 A at 400 V rated value 125 A	Dissipation	
operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value 125 A 125 A		12 W
 at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value 125 A 125 A 	Main circuit	
 at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value 125 A 125 A 	operational current	
at AC-21 A at 400 V rated value 125 A	• at AC-21 at 690 V rated value	125 A
	• at AC-21 A at 240 V rated value	125 A
• at AC-21 A at 440 V rated value 125 A	• at AC-21 A at 400 V rated value	125 A
	• at AC-21 A at 440 V rated value	125 A

at AC-23 A at 400 V rated value	80 A
operating power	OV A
at AC-23 A at 240 V rated value	22 kW
• at AC-23 A at 400 V rated value	45 kW
at AC-23 A at 440 V rated value	45 kW
• at AC-23 A at 690 V rated value	37 kW
at AC-3 at 240 V rated value	22 kW
at AC-3 at 400 V rated value	37 kW
at AC-3 at 690 V rated value	30 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
operating voltage of auxiliary contacts at AC maximum	500 V
continuous current of the auxiliary contact rated value	10 A
Suitability	
suitability for use	
main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
motor drive	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts attachable maximum	3
number of connectable NO contacts for auxiliary contacts attachable maximum	5
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 8 mm
Short circuit	
conditional short-circuit current with line-side fuse protection	
at 690 V by gG fuse rated value	20 kA
let-through current with closed switch	
 at 240 V for combination switch + gG fuse maximum 	10 kA
 at 440 V for combination switch + gG fuse maximum 	10 kA
at 690 V for combination switch + gG fuse maximum permissible	10 kA
I2t value with closed switch	
 at 240 V for combination switch + gG fuse maximum 	104 kA2.s
 at 440 V for combination switch + gG fuse maximum 	104 kA2.s
at 690 V for combination switch + gG fuse maximum	104 kA2.s
design of the fuse link	from all /a O 405 A
for short-circuit protection of the main circuit required	fuse gL/gG: 125 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	125 A
according UL	125 A
operational current at AC according to UL 508/UL 60947-4-1 rated value	125 A
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	600 V
active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value	75
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	100
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	10 kA

continuous current of upstream fuse according to UL rated value	200 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid maximum	
•	1
•	12
type of connectable conductor cross-sections for copper conductor	
• solid	1x (450mm²)
 finely stranded with core end processing 	1x (435mm²)
• stranded	1x (450mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
• stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
type of electrical connection	
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	302 mm
width	212 mm
depth	181 mm
type of device	fixed mounting
fastening method	Complete unit in enclosure
fastening method	
4-hole front mounting	No
 front mounting with central attachment 	Yes
• rail mounting	No
net weight	1 895 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
Approvals Certificates	

General Product Approval









Confirmation



General Product Approval

Test Certificates

Marine / Shipping

other



Miscellaneous



Miscellaneous



Miscellaneous

Environment other

> Confirmation **Environmental Con-**

firmations

Environmental Con-firmations

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2866-0TB51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2866-0TB51

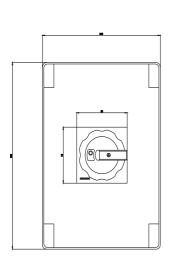
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2866-0TB51

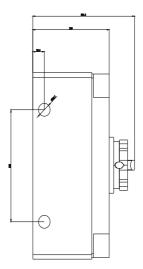
CAx-Online-Generator

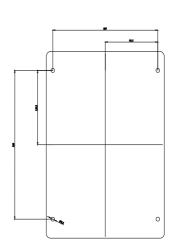
http://www.siemens.com/cax

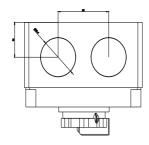
Tender specifications

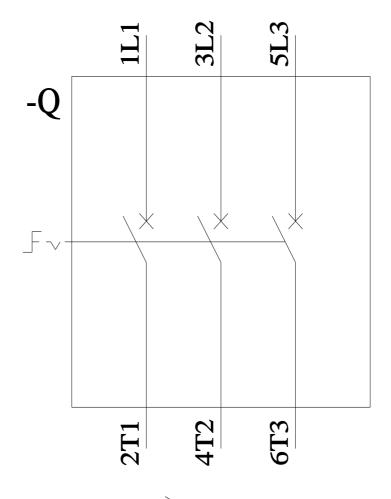
http://www.siemens.com/specifications

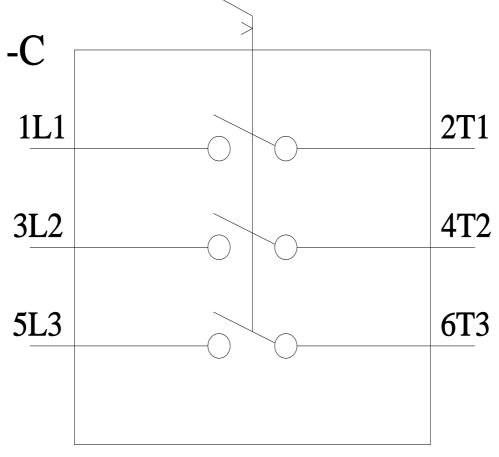












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