## **SIEMENS**

Data sheet 3LD3254-1TL51



Load disconnector 3LD3, Iu 32 A Main switch 3-pole + N Rated operating capacity for AC-23 A at 400V 11.5kW Front plate mounting Basic switch with Central hole mounting 22.5mm Rotating drive black 66 x 66 mm with auxiliary switch 1OE + 1S

number of poles  number of poles note  number of poles note  mechanical service life (operating cycles) typical  electrical endurance (operating cycles)  • at AC-23 A at 690 V  operating frequency maximum  foo 1/h  degree of pollution  surge voltage rated value  operating voltage resistance rated value  • at AC rated value  operating voltage  • at AC rated value  foo V  operating frequency rated value  operating frequency rated value  • minimum  • maximum  foo Hz  Protection class  protection class IP  degree of protection NEMA rating  protection class IP of Fort  degree of protection NEMA rating  protection class IP of Societal Socie	Model	
design of the product display version for switch position indicator manual operation 1 ON - 0 OFF 1 por of switch design of the actuating element Short rotary knob  color of the actuating element black design of handle type of the driving mechanism motor drive No  Concrete the driving mechanism, black No  Concrete the driving mechanism, bleathy No  No  Concrete the driving mechanism, bleathy No  N	product brand name	SENTRON
display version for switch position indicator manual operation   fype of switch   front mounted   design of the actuating element   black   design of the actuating element   black   design of handle   rotary operating mechanism, black   type of the driving mechanism motor drive   No	product designation	Switch disconnector
type of switch design of the actuating element Short rotary knob color 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 Concoral tochnical data number of poles number of poles 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	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 black flype of the driving mechanism motor drive No Concrat technical data number of poles 4	display version for switch position indicator manual operation	1 ON - 0 OFF
color of the actuating element         black           design of handle         rotary operating mechanism, black           type of the driving mechanism motor drive         No           Concert technical data           number of poles         4           number of poles note         4           mechanical service life (operating cycles) typical         100 000           electrical endurance (operating cycles)         6000           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         60 Hz           enaximum         60 Hz           Protection class IP         IP65           degree of protection NEMA rating         1, 3R, 4X, 12           protection class IP on the front         IP65           Dissipation         1.8 W           operating state per pole         4           wai AC-21 A at 240 V rated value	type of switch	front mounted
design of handle protary operating mechanism, black prote the driving mechanism motor drive No Reconcret technical data  number of poles	design of the actuating element	Short rotary knob
type of the driving mechanism motor drive  General technical data  number of poles	color of the actuating element	black
A mumber of poles note 4 number of poles note 5 number of poles note 4 number of poles note 6 nechanical service life (operating cycles) typical 100 000 nechanical service life (operating cycles) 6 nechanical service life (operating cycles) 7 nechanical service life (operating cycles) 8 nechanical service life (operating cycles) 9 n	design of handle	rotary operating mechanism, black
Number of poles	type of the driving mechanism motor drive	No
number of poles note         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           insulation voltage rated value         690 V           surge voltage resistance rated value         6 kV           operating voltage         690 V           • at AC rated value         690 V           operating frequency rated value         60 Hz           • minimum         50 Hz           • maximum         60 Hz           Protection class IP           degree of protection NEMA rating         1, 3R, 4X, 12           protection class IP on the front         IP65           DIssipation         1.8 W           operating state per pole         32 A           Main circuit         32 A           o at AC-21 A at 240 V rated value         32 A           o at AC-21 A at 440 V rated value         32 A           o at AC-21 A at 440 V rated value         32 A           o at AC-21 A at 440 V rated value         32 A           o at AC-21 A a	General technical data	
mechanical service life (operating cycles) typical electrical endurance (operating cycles)	number of poles	4
electrical endurance (operating cycles)  • at AC-23 A at 690 V  operating frequency maximum  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  50 Hz  • maximum  60 Hz  Protection class IP  degree of protection NEMA rating protection class IP of 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  32 A  • at AC-21 A at 240 V rated value  • at AC-21 A at 440 V rated value	number of poles note	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 690 V operating frequency rated value • minimum 50 Hz • maximum 60 Hz  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  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	mechanical service life (operating cycles) typical	100 000
operating frequency maximum  degree of pollution  3  Voltage  insulation voltage rated value  surge voltage resistance rated value  operating voltage  • at AC rated value  operating frequency rated value  • minimum  • maximum  50 Hz  • maximum  50 Hz  • maximum  50 Hz  Frotection 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 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value	electrical endurance (operating cycles)	
degree of pollution  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  50 Hz  • maximum  50 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 440 V rated value	• at AC-23 A at 690 V	6 000
Insulation voltage rated value 690 V surge voltage resistance rated value 6kV operating voltage  ■ at AC rated value 690 V operating frequency rated value  ■ minimum 50 Hz  ■ maximum 60 Hz  Protection class IP degree of protection NEMA rating 1, 3R, 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 operational current ■ at AC-21 at 690 V rated value ■ at AC-21 A at 440 V rated value	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  • maximum 50 Hz  • maximum 60 Hz  Protection class  protection class IP IP65  degree of protection NEMA rating 1, 3R, 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 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 440 V rated value	degree of pollution	3
surge voltage resistance rated value operating voltage • at AC rated value operating frequency rated value • minimum • maximum • maximum  50 Hz • maximum  50 Hz  • 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  operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value	Voltage	
operating voltage  • at AC rated value  operating frequency rated value  • 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 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value	insulation voltage rated value	690 V
<ul> <li>at AC rated value</li> <li>operating frequency rated value</li> <li>minimum</li> <li>fo Hz</li> <li>maximum</li> <li>fo Hz</li> </ul> Protection class protection class IP <ul> <li>degree of protection NEMA rating</li> <li>protection class IP on the front</li> <li>IP65</li> </ul> Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit <ul> <li>operational current</li> <li>at AC-21 at 690 V rated value</li> <li>at AC-21 A at 240 V rated value</li> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 440 V rated value</li> </ul>	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  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 440 V rated value	operating voltage	
minimum	at AC rated value	690 V
● maximum  Frotection class  protection class IP  degree of protection NEMA rating  1, 3R, 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 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value	operating frequency rated value	
protection class IP  degree of protection NEMA rating  1, 3R, 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 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	• minimum	50 Hz
protection class IP  degree of protection NEMA rating  1, 3R, 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 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value  32 A • at AC-21 A at 440 V rated value 32 A	• maximum	60 Hz
degree of protection NEMA rating  1, 3R, 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 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  32 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 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	protection class IP	IP65
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 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	degree of protection NEMA rating	1, 3R, 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 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  32 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  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value	Dissipation	
operational current  • at AC-21 at 690 V rated value 32 A  • at AC-21 A at 240 V rated value 32 A  • at AC-21 A at 400 V rated value 32 A  • at AC-21 A at 440 V rated value 32 A		1.8 W
<ul> <li>at AC-21 at 690 V rated value</li> <li>at AC-21 A at 240 V rated value</li> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 440 V rated value</li> <li>at AC-21 A at 440 V rated value</li> </ul>	Main circuit	
<ul> <li>at AC-21 A at 240 V rated value</li> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 440 V rated value</li> <li>32 A</li> <li>32 A</li> </ul>	operational current	
<ul> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 440 V rated value</li> <li>32 A</li> <li>32 A</li> </ul>	• at AC-21 at 690 V rated value	32 A
• at AC-21 A at 440 V rated value 32 A	• at AC-21 A at 240 V rated value	32 A
	• at AC-21 A at 400 V rated value	32 A
• at AC-23 A at 400 V rated value 22 A	• at AC-21 A at 440 V rated value	32 A
	• at AC-23 A at 400 V rated value	22 A

operating power	
<ul> <li>at AC-23 A at 240 V rated value</li> </ul>	6 kW
<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	12 kW
<ul> <li>at AC-23 A at 440 V rated value</li> </ul>	11.5 kW
<ul> <li>at AC-23 A at 690 V rated value</li> </ul>	12 kW
<ul> <li>at AC-3 at 240 V rated value</li> </ul>	5.5 kW
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	10 kW
at AC-3 at 690 V rated value	9.5 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
operating voltage of auxiliary contacts at AC maximum	500 V
continuous current of the auxiliary contact rated value	10 A
insulation voltage of the auxiliary switch rated value	500 V
Suitability	
suitability for use	
main switch	Yes
switch disconnector	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	No
<ul> <li>safety switch</li> </ul>	Yes
maintenance/repair switch	Yes
Product details	
special product feature	Can be locked in zero position
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	2
number of connectable NO contacts for auxiliary contacts attachable maximum	4
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	
<ul> <li>at 440 V by gG fuse rated value</li> </ul>	10 kA
<ul> <li>at 690 V by gG fuse rated value</li> </ul>	6 kA
let-through current with closed switch	
• at 240 V for combination switch + gG fuse maximum	4.5 kA
• at 440 V for combination switch + gG fuse maximum	4.5 kA
at 690 V for combination switch + gG fuse maximum permissible	5 kA
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	9 kA2.s
• at 440 V for combination switch + gG fuse maximum	9 kA2.s
• at 690 V for combination switch + gG fuse maximum	9 kA2.s
design of the fuse link	
• for short-circuit protection of the main circuit required	fuse gL/gG: 40 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	32 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	32 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	20
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	20

short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA
continuous current of upstream fuse according to UL rated value	50 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid	
• maximum	6
• minimum	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (2.5 to 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (2.516 mm²)
stranded	1x (2.5 to 16 mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.75 2.5 mm²), 1x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.75 1.5 mm²), 1x 2.5 mm²
stranded	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	
• for main current circuit	box terminal
<ul> <li>for auxiliary contacts</li> </ul>	Box terminals
Mechanical Design	
height	60 mm
width	60 mm
depth	114 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
<ul> <li>4-hole front mounting</li> </ul>	No
<ul> <li>front mounting with central attachment</li> </ul>	Yes
rail mounting	No
net weight	200 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
General Product Approval	Declaration of Conformity

Confirmation











other Environment

<u>Confirmation</u> <u>Miscellaneous</u> <u>Environmental Confirmations</u>

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD3254-1TL51">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD3254-1TL51</a>

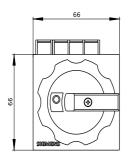
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3254-1TL51

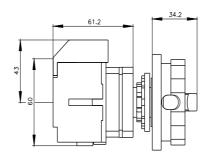
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3254-1TL51">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3254-1TL51</a>

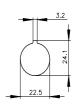
CAx-Online-Generator

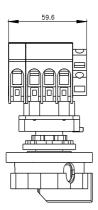
Tender specifications

http://www.siemens.com/specifications









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