## **SIEMENS**

Data sheet 3LD3354-1TL51



Load disconnector 3LD3, lu 40 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400 V 18.5 kW Front plate mounting Basic switch with Central hole mounting 22.5mm Toggle drive black 66x66 mm with auxiliary switch 1OE + 1S

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	Main switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	front mounted
design of the actuating element	Short rotary knob
color of the actuating element	black
design of handle	rotary operating mechanism, black
General technical data	
number of poles	4
number of poles note	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	6 kV
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, 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	2.5 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	40 A
• at AC-21 A at 240 V rated value	40 A
• at AC-21 A at 400 V rated value	40 A
• at AC-21 A at 440 V rated value	40 A
• at AC-23 A at 400 V rated value	36 A
operating power	

<ul> <li>at AC-23 A at 240 V rated value</li> </ul>	7.5 kW
<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	19 kW
<ul> <li>at AC-23 A at 440 V rated value</li> </ul>	15 kW
<ul><li>at AC-23 A at 690 V rated value</li></ul>	15 kW
<ul><li>at AC-3 at 240 V rated value</li></ul>	7.5 kW
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	12 kW
at AC-3 at 690 V rated value	11.5 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
EMERGENCY OFF switch	No
safety switch	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
	No
voltage trigger     number of connectable NC contacts for auxiliary contacts	2
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
• at 690 V by gG fuse rated value	6 kA
let-through current with closed switch	
at 240 V for combination switch + gG fuse maximum	5 kA
• at 440 V for combination switch + gG fuse maximum	5 kA
at 690 V for combination switch + gG fuse maximum	5 kA
permissible	
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	15 kA2.s
• at 440 V for combination switch + gG fuse maximum	15 kA2.s
• at 690 V for combination switch + gG fuse maximum	15 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	40 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	40 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	5 kA

continuous current of upstream fuse according to UL rated value type of fuse according to UL  RKS  Connectors  AWG number as coded connectable conductor cross section sold  maximum  maximum  fine yellow connectable conductor cross sections for copper conductor  solid  finely stranded with core end processing stranded type of connectable conductor cross-sections for copper conductor  solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contracts solid  finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contracts solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contracts stranded type of electrical connection for main current circuit for auxiliary contacts  Mochamical Design  height  width depth 114 mm type of device fastening method statening met		
type of fuse according to UL  Connectors  AWG number as coded connectable conductor cross section solid  maximum  maximum  type of connectable conductor cross-sections for copper conductor  solid  finely stranded with core end processing tx (2.5 to 16 mm²)  stranded type of connectable conductor cross-sections for auxiliary contacts  solid  connectable conductor cross-sections for competence in the contact and contact	508/UL 60947-4-1	
Connections  AWG number as coded connectable conductor cross section solid  maximum minimum 14  type of connectable conductor cross-sections for copper conductor  solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing type of electrical connection for main current circuit for auxiliary contacts  Mechanical Design  height form mumiliary contacts  Mechanical Design  height form mumiliary contacts fixed mounting fastening method fastening method statening	continuous current of upstream fuse according to UL rated value	50 A
AWG number as coded connectable conductor cross section solid  • maximum • minimum  14  type of connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded 1x (2.5 to 16 mm²) • stranded 1x (2.5 to 16 mm²)  type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded • for main current circuit • for auxiliary contacts  Mochanical Dosign  height  ### 60 mm  depth  ### 114 mm  type of device  ### fixed mounting  ### 60 mm  depth  ### 114 mm  type of device  ### fixed mounting  ### 60 mm  depth  ### 114 mm  ### 114 mm  ### 120 og  ### 134 mm  ### 135 °C  ### 135 °C  #### 134 mm  #### 125 °C  #### 135 °C  #### 135 °C  ##### 134 mm  #### 125 °C  ##### 135 °C  ########### 135 °C  ###################################	type of fuse according to UL	RK5
solid  minimum  minim	Connections	
minimum  type of connectable conductor cross-sections for copper conductor solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing stranded finely stranded with core end processing stranded type of electrical connection for auxiliary contacts stranded type of electrical connection for auxiliary contacts box terminal box terminal box terminal  Machanical Design height for auxiliary contacts box terminals  Machanical Design height fixed mounting fixed mounting fixed mounting fastening method fastening method fastening method fastening method fastening method fastening mithod fastening mithod fastening with central attachment rail mounting No net weight  Dougle front mounting No net weight  Environmental conditions  ambient temperature during operation minimum  -25 °C maximum  minimum  -25 °C		
type of connectable conductor cross-sections for copper conductor  solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing solid finely stranded for auxiliary contacts solid for anxiliary contacts solid for auxiliary contact	• maximum	6
conductor  • solid • solid • finely stranded with core end processing • stranded 1x (2.5 to 16 mm²)  • stranded 1x (2.5 to 16 mm²)  • stranded 1x (2.5 to 16 mm²)  type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded 2x (0.75 2.5 mm²), 1x 4 mm²  • stranded 2x (0.75 2.5 mm²), 1x 2.5 mm² • stranded 2x (0.75 2.5 mm²), 1x 4 mm²  type of electrical connection • for main current circuit • for auxiliary contacts    Sox terminals	• minimum	14
• finely stranded with core end processing • stranded  type of connectable conductor cross-sections for auxiliary contacts  • solid • solid • stranded with core end processing • stranded • finely stranded with core end processing • stranded  • finely stranded with core end processing • stranded  type of electrical connection • for main current circuit • for auxiliary contacts   **Mechanical Design**  *height **Mechanical Design**  *height **Jave of device  fastening method  fastening method • 4-hole front mounting • front mounting with central attachment • real mounting  **The processing of the pro		
stranded	• solid	1x (2.5 to 16 mm²)
type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  • finely stranded with core end processing • stranded  • transpect of electrical connection • for main current circuit • for auxiliary contacts  Mechanical Design  height  60 mm  width  depth  114 mm  type of device fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  net weight  2x (0.75 2.5 mm²), 1x 4 mm²  2x (0.75 1.5 mm²), 1x 2.5 mm²  2x (0.75 1.5 mm²), 1x 2.5 mm²  2x (0.75 1.5 mm²), 1x 2.5 mm²  2x (0.75 1.5 mm²), 1x 2 mm²  2x (0.75 1.5 mm²), 1x 2 mm²  2x (0.75 1.5 mm²), 1x 4 mm²  2x (0.75	<ul> <li>finely stranded with core end processing</li> </ul>	1x (2.516 mm²)
contacts  • solid  • finely stranded with core end processing  • stranded  • stranded  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  • for auxiliary contacts   Mechanical Design  height  60 mm  depth  114 mm  type of device fixed mounting fastening method  • 4-hole front mounting  • front mounting with central attachment  • rall mounting  net weight  2x0 (0.75 2.5 mm²), 1x 4 mm²  2x (0.75 2.5 mm²), 1x 4 mm²  8ox terminals  Mechanical Design  8ox terminals  Mechanical Design  8ox terminals  9ox termin	stranded	1x (2.5 to 16 mm²)
inely stranded with core end processing istranded  ist		
stranded 2x (0.75 2.5 mm²), 1x 4 mm²  type of electrical connection     for main current circuit box terminals     for auxiliary contacts Box terminals    Mechanical Design	• solid	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.75 1.5 mm²), 1x 2.5 mm²
for main current circuit         of rauxiliary contacts         Box terminals  Mechanical Design  height         60 mm  width         60 mm  depth         114 mm  type of device         fixed mounting fastening method         4-hole front mounting         of ront mounting with central attachment         rail mounting         net weight         200 g  Environmental conditions  ambient temperature during operation         ominimum         -25 °C         ambient temperature during storage         ominimum         -25 °C         ambient temperature during storage         ominimum         -25 °C         omaximum         55 °C	stranded	2x (0.75 2.5 mm²), 1x 4 mm²
for auxiliary contacts      Mochanical Design  height     fo mm  width     fo mm  depth     type of device     fixed mounting fastening method fastening method     • 4-hole front mounting     • front mounting with central attachment     • rail mounting net weight  Environmental conditions  ambient temperature during operation     • minimum     • railmount     • minimum     -25 °C ambient temperature during storage     • minimum     -25 °C enaximum      • maximum     55 °C  ### Assumption  ### Assumpt	type of electrical connection	
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     No       • 4-hole front mounting     No       • rail mounting with central attachment     Yes       • rail mounting     No       net weight     200 g       Environmental conditions       ambient temperature during operation     -25 °C       • maximum     55 °C       ambient temperature during storage     -25 °C       • minimum     -25 °C       • maximum     55 °C	for main current circuit	box terminal
height 60 mm  width 60 mm  depth 114 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method  • 4-hole front mounting No  • front mounting with central attachment Yes  • rail mounting No  net weight 200 g  Environmental conditions  ambient temperature during operation  • minimum -25 °C  ambient temperature during storage  • minimum  • minimum  -25 °C  ambient temperature during storage  • minimum  • minimum  -25 °C  55 °C	<ul> <li>for auxiliary contacts</li> </ul>	Box terminals
width 60 mm  depth 114 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method  • 4-hole front mounting  • front mounting with central attachment Yes  • rail mounting  net weight 200 g  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  • rail mounting  • rail mounting  No  -25 °C  -25 °C  -25 °C  -35 °C  -35 °C	Mechanical Design	
depth 114 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  astening method  at 4-hole front mounting  front mounting with central attachment  rail mounting  net weight 200 g  ambient temperature during operation  minimum  maximum  minimum  mi	height	60 mm
type of device fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting net weight  Environmental conditions  ambient temperature during storage • minimum • maximum  fixed mounting  No  No  200 g  Environmental conditions  ambient temperature during operation • minimum • maximum  -25 °C  ambient temperature during storage • minimum -25 °C  55 °C	width	60 mm
fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting net weight  Environmental conditions  ambient temperature during operation • maximum • maximum  55 °C  maximum  -25 °C  ambient temperature during storage • minimum -25 °C  -25 °C  -25 °C	depth	114 mm
fastening method  • 4-hole front mounting  • front mounting with central attachment  • rail mounting  net weight  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55°C  ambient temperature during storage  • minimum  -25°C  ambient temperature during storage  • minimum  -25°C	type of device	fixed mounting
<ul> <li>4-hole front mounting</li> <li>front mounting with central attachment</li> <li>rail mounting</li> <li>No</li> <li>net weight</li> <li>200 g</li> <li>Environmental conditions</li> <li>ambient temperature during operation <ul> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> </ul> </li> <li>ambient temperature during storage <ul> <li>minimum</li> <li>-25 °C</li> </ul> </li> <li>ambient temperature during storage</li> <li>minimum</li> <li>-25 °C</li> </ul> <li>ambient temperature during storage</li> <li>minimum</li> <li>-25 °C</li>	fastening method	Built-in unit fixed-mounted version
front mounting with central attachment     rail mounting     net weight     200 g  Environmental conditions  ambient temperature during operation     minimum     -25 °C     maximum     55 °C  ambient temperature during storage     minimum     -25 °C  ambient temperature during storage     minimum     -25 °C  ambient temperature during storage     minimum     -25 °C  maximum     -55 °C	fastening method	
<ul> <li>● rail mounting</li> <li>No</li> <li>net weight</li> <li>200 g</li> <li>Environmental conditions</li> <li>ambient temperature during operation</li> <li>● minimum</li> <li>-25 °C</li> <li>● maximum</li> <li>55 °C</li> <li>ambient temperature during storage</li> <li>● minimum</li> <li>-25 °C</li> <li>o maximum</li> <li>55 °C</li> </ul>	<ul> <li>4-hole front mounting</li> </ul>	No
net weight 200 g  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  55 °C	<ul> <li>front mounting with central attachment</li> </ul>	Yes
Environmental conditions  ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  55 °C	rail mounting	No
ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  -25 °C  • maximum  55 °C	net weight	200 g
<ul> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul> ambient temperature during storage <ul> <li>minimum</li> <li>-25 °C</li> </ul> • maximum <ul> <li>55 °C</li> </ul>	Environmental conditions	
<ul> <li>maximum</li> <li>55 °C</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> </ul>	ambient temperature during operation	
ambient temperature during storage  • minimum  -25 °C  • maximum  55 °C	• minimum	-25 °C
<ul> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul>	• maximum	55 °C
• maximum 55 °C	ambient temperature during storage	
	• minimum	-25 °C
General Product Approval Declaration of Conformity	• maximum	55 °C
	General Product Approval	Declaration of Conformity



Confirmation









other Environment

Confirmation Miscellaneous Environmental Confirmations

<u>firmations</u>

## Further information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$ 

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD3354-1TL51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3354-1TL51

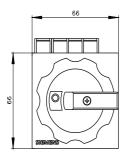
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3354-1TL51">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3354-1TL51</a>

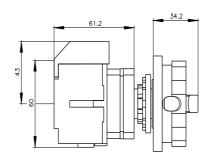
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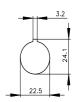
http://www.siemens.com/cax

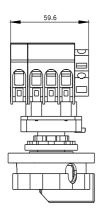
**Tender specifications** 

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