## SIEMENS

## Data sheet

## 3LD3254-0TK51



Load disconnector 3LD3, lu 32 A Main switch 3-pole 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

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         black           color of the actuating element         black           design of thandle         rotary porating mechanism, black           type of switch         number of poles           number of poles         3           number of poles         3           number of poles         3           number of poles         3           electrical entrop cycles) typical         100 000           surge voltage rated value         6	Model	
design of the product     Main switch       display version for switch position indicator manual operation     1 ON - 0 OFF       type of switch     front mounled       design of the actuating element     Short rotary knob       color of the actuating element     black       design of handle     rotary operating mechanism, black       type of the driving mechanism motor drive     No       General technical data     mumber of poles       number of poles note     3       number of poles note     3       electrical endurance (operating cycles) typical     100 000       electrical endurance (operating cycles)     6       i at AC-23 at 690 V     6000 V       operating voltage     6       e at AC rated value     690 V       operat	product brand name	SENTRON
display version for switch position indicator manual operation       1 ON - 0 OFF         type of switch       front mounted         design of the actuating element       black         color of the actuating element       black         totary operating mechanism, black       type of the driving mechanism, black         type of the driving mechanism motor drive       No         Central technical data	product designation	Switch disconnector
operation         front mounted           fype of switch         front mounted           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	design of the product	Main switch
design of the actuating element       Short rotary knob         color of the actuating element       black         design of handle       rotary operating mechanism, black         type of the driving mechanism motor drive       No         Ceneral technical data       3         number of poles       3         number of poles note       3         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       690 V         insulation voltage rated value       690 V         operating frequency maximum       60 Hz         operating requency rated value       690 V         operating frequency rated value       600 V         operating frequency rated value       600 Hz		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       Ceneral technical data     Immber of poles       number of poles note     3       mechanical service life (operating cycles) typical     100 000       electrical endurance (operating cycles)     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     180 Hz <th>type of switch</th> <th>front mounted</th>	type of switch	front mounted
design of handle     rotary operating mechanism, black       type of the driving mechanism motor drive     No       General technical data	design of the actuating element	Short rotary knob
type of the driving mechanism motor drive         No           General tachnical data	color of the actuating element	black
General technical data         number of poles       3         number of poles note       3         mechanical service life (operating cycles) typical       100 000         electrical endurance (operating cycles)       6         • at AC-23 A at 690 V       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage       insulation voltage rated value         insulation voltage rated value       690 V         surge voltage resistance rated value       690 V         operating requency rated value       690 V         operating requency rated value       690 V         operating requency rated value       690 V         operating frequency rated value       690 V         operating concluses IP       IP65         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP       IP65         Dissipation       IP65         Dissipation       1.8 W         operating state per pole       32 A	design of handle	rotary operating mechanism, black
number of poles         3           number of poles note         3           mechanical service life (operating cycles) typical         100 000           electrical endurance (operating cycles)         6           • at AC-23 A at 690 V         6           operating frequency maximum         50 1/h           degree of pollution         3           Voltage         690 V           insulation voltage rated value         690 V           surge voltage resistance rated value         690 V           operating roylage         690 V           • at AC rated value         690 V           operating roylage         690 V           • at AC rated value         690 V           operating frequency rated value         690 V           • minimum         50 Hz           • maximum         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           power loss [W] for rated value of the current at AC in hot operating state per pole         1.8 W           operating ate per pole         32 A	type of the driving mechanism motor drive	No
number of poles note       3         mechanical service life (operating cycles) typical       100 000         electrical endurance (operating cycles)       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage       insulation voltage rated value         insulation voltage rated value       690 V         surge voltage resistance rated value       690 V         operating requency maximum       50 Hz         operating frequency rated value       690 V         operating frequency rated value       600 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       1.8 W         Main circuit       operating state per pole         Main circuit       32 A	General technical data	
mechanical service life (operating cycles) typical     100 000       electrical endurance (operating cycles)     6 000       operating frequency maximum     50 1/h       degree of pollution     3       Voltage     690 V       insulation voltage resistance rated value     690 V       operating voltage     6 kV       operating frequency maximum     690 V       operating voltage     690 V       • at AC rated value     690 V       operating frequency rated value     600 V       operating frequency rated value     50 Hz       • maximum     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     32 A	number of poles	3
electrical endurance (operating cycles)       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage       690 V         insulation voltage rated value       690 V         operating voltage       690 V         • at AC rated value       690 V         operating voltage       690 V         • at AC rated value       690 V         operating frequency rated value       12         e maximum       50 Hz         for table value       690 V         operating frequency rated value       13R, 4X, 12         protection class IP       IP65         degree of protection NEMA rating       1.3R, 4X, 12         protection class IP on the front       IP65         Dissipation       1.8 W <tr< th=""><th>number of poles note</th><th>3</th></tr<>	number of poles note	3
• at AC-23 A at 690 V       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage       insulation voltage rated value         insulation voltage rated value       690 V         surge voltage resistance rated value       690 V         operating voltage       6 kV         • at AC rated value       690 V         operating frequency rated value       1, 3R, 4X, 12         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       1.8 W         Main circuit       operational current         • at A	mechanical service life (operating cycles) typical	100 000
operating frequency maximum50 1/hdegree of pollution3Voltage90 Vinsulation voltage rated value690 Vsurge voltage resistance rated value6 kVoperating voltage690 V• at AC rated value690 Voperating frequency rated value690 Voperating frequency rated value690 Voperating state protection class50 HzProtection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65Main circuit1.8 Woperating state per pole32 A	electrical endurance (operating cycles)	
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       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       Protection class IP         protection class IP       IP65         Dissipation       IP65         Dissipation       1.8 W         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Main circuit       operational current         • at AC-21 at 690 V rated value       32 A	• at AC-23 A at 690 V	6 000
Voltage         insulation voltage rated value       690 V         surge voltage resistance rated value       6 kV         operating voltage       6         • at AC rated value       690 V         operating frequency rated value       690 V         operating frequency rated value       60 Hz         • minimum       50 Hz         • maximum       60 Hz         Protection class       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       I         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Operating state per pole       32 A	operating frequency maximum	50 1/h
insulation voltage rated value     690 V       surge voltage resistance rated value     6 kV       operating voltage     6 kV       • at AC rated value     690 V       operating frequency rated value     690 V       • minimum     50 Hz       • maximum     60 Hz       Protection class     IP65       degree of protection NEMA rating     1, 3R, 4X, 12       protection class IP on the front     IP65       Dissipation     IP65       Dissipation     1.8 W       operating state per pole     1.8 W	degree of pollution	3
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       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       1.8 W         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         operational current       • at AC-21 at 690 V rated value         • at AC-21 at 690 V rated value       32 A	Voltage	
operating voltage       690 V         operating frequency rated value       690 V         operating frequency rated value       50 Hz         • maximum       50 Hz         • maximum       60 Hz         Protection class       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       IP65         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Main circuit       operational current         • at AC-21 at 690 V rated value       32 A	insulation voltage rated value	690 V
• at AC rated value690 Voperating frequency rated value690 V• minimum50 Hz• maximum60 HzProtection classIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65power loss [W] for rated value of the current at AC in hot operating state per pole1.8 WMain circuitoperational current• at AC-21 at 690 V rated value32 A	surge voltage resistance rated value	6 kV
operating frequency rated value50 Hz• minimum50 Hz• maximum60 HzProtection classprotection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65Dissipation1.8 Wpower loss [W] for rated value of the current at AC in hot operating state per pole1.8 WMain circuit32 A	operating voltage	
• minimum50 Hz• maximum60 HzProtection classIP65protection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65power loss [W] for rated value of the current at AC in hot operating state per pole1.8 WMain circuitIP65operational current • at AC-21 at 690 V rated value32 A	• at AC rated value	690 V
• maximum60 HzProtection classIP65protection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65power loss [W] for rated value of the current at AC in hot operating state per pole1.8 WMain circuitIP65operational current32 A	operating frequency rated value	
Protection class       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       IP65         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Main circuit       operational current         • at AC-21 at 690 V rated value       32 A	• minimum	50 Hz
protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       IP65         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Main circuit       operational current         • at AC-21 at 690 V rated value       32 A	• maximum	60 Hz
degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       IP65         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Main circuit       operational current         • at AC-21 at 690 V rated value       32 A	Protection class	
protection class IP on the front     IP65       Dissipation     IP65       power loss [W] for rated value of the current at AC in hot operating state per pole     1.8 W       Main circuit     1.8 W       operational current     • at AC-21 at 690 V rated value       32 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 <ul> <li>• at AC-21 at 690 V rated value</li> <li>32 A</li> </ul>	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     1.8 W       Main circuit     • at AC-21 at 690 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       32 A	Dissipation	
operational current     32 A		1.8 W
• at AC-21 at 690 V rated value 32 A	Main circuit	
	operational current	
• at AC-21 A at 240 V rated value 32 A	• 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 400 V rated value	32 A
• at AC-21 A at 440 V rated value 32 A	• at AC-21 A at 440 V rated value	32 A

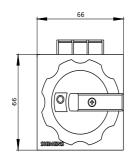
• at AC-23 A at 400 V rated value	22 A
operating power	
at AC-23 A at 240 V rated value	6 kW
at AC-23 A at 400 V rated value	12 kW
• at AC-23 A at 440 V rated value	11.5 kW
at AC-23 A at 690 V rated value	12 kW
at AC-3 at 240 V rated value	5.5 kW
at AC-3 at 400 V rated value	10 kW
at AC-3 at 690 V rated value	9.5 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	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
insulation voltage of the auxiliary switch rated value	500 V
Suitability	
suitability for use main switch	Yes
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	No
suitability for use safety switch	Yes
suitability for use 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	
at 440 V by gG fuse rated value	10 kA
• at 690 V by gG fuse rated value	6 kA
let-through current with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	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	
<ul> <li>for short-circuit protection of the main circuit required</li> </ul>	fuse gL/gG: 40 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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

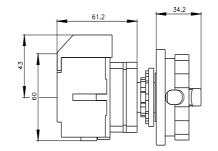
60947-4-1 rated value	_
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA
continuous current of upstream fuse according to UL rated value	50 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid maximum	
•	6
•	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (2.5 to 16 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	1x (2.516 mm²)
stranded	1x (2.5 to 16 mm <sup>2</sup> )
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
for auxiliary contacts	Box terminals
Mechanical Design	
height	60 mm
width	36 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     net weight	No 200 g
Environmental conditions	200 g
ambient temperature during operation <ul> <li>minimum</li> </ul>	-25 °C
• maximum	55 °C
ambient temperature during storage	
minimum	-25 °C
• maximum	55 °C
Approvals Certificates	
General Product Approval	
<u>Confirmati</u>	
UK CE Confirmati	
EG-NORT.	
other Environment	
other         Environment           Confirmation         Miscellaneous         Environmenta	
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Further information
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)

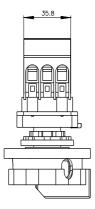
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CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications









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