## SIEMENS

## Data sheet

## 3LD3140-0TK11



Load disconnector 3LD3, lu 25 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 9.0kW floor mounting Basic switch with door coupling Central hole mounting 22.5mm Toggle drive black 48x48 mm

product brand name         SENTRON           product designation         3LD Switch disconnector           design of the product         Main switch           display version / for switch position indicator manual operation         1ON - 0 OFF           type of switch         Floor mounting with door coupling           design of the actuating element         selector switch           color / of the actuating element         black           design of handle         knob-operated mechanism, black           (seign of the actuating element         black           design of the actuating element         black           number of poles / note         3           extra AC23 A/ at 800 V         60 000           operating frequency / maximum         60 1/h           degree of pollution         3           Voltage         extended actuate           extra C/2 rated value         690 V           operating frequency / naximum         60 Hz	Model		
design of the product     Main switch       display version / for switch position indicator manual operation     1 ON - 0 OFF       type of switch     Floor mounting with door coupling       design of the actuating element     selector switch       cotor / of the actuating element     black       design of thandle     knot-operated mechanism, black       type of the driving mechanism / motor drive     No       Central technical data     number of poles       number of poles     3       number of poles     3       number of poles     6 000       electrical endurance (switching cycles) / typical     100 000       electrical endurance (switching cycles)     6 000       operating frequency / maximum     50 1/h       degree of pollution     3       Voltage     6 000       operating requency / rated value     690 V       operating voltage (rated value     690 V       operating rollage     600 V       e at A C / rated value     690 V       operating rollage     610 V       e maximum     50 Hz       operating frequency / rated value     690 V       operating frequency / rated value     690 V       operating rolection NEMA rating     1, 3R, 4X, 12       protection class IP     IP65       degree of protection NEMA	product brand name	SENTRON	
display version / for switch position indicator manual operation       1 ON - 0 OFF         type of switch       Floor mounting with door coupling         design of the actuating element       black         design of handle       knot-operated mechanism, black         type of switch       No         design of handle       knot-operated mechanism, black         humber of poles       3         number of poles / note       3         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles) / typical       100 000         electrical endurance (switching cycles) / typical       100 000         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       680 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 requency / rated value       690 V         operating requency / rated value       60 Hz         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front	product designation	3LD Switch disconnector	
operation         Floor mounting with door coupling           design of the actuating element         selector switch           color / of the actuating element         black           design of handle         knob-operated mechanism, black           bype of the driving mechanism / motor drive         No           General technical data         3           number of poles         3           number of poles         3           number of poles / note         3           mechanical service life (switching cycles) / typical         100 000           electrical endurance (switching cycles)         6000           operating frequency / maximum         50 1/h           degree of pollution         3           Voltage         1nsulation voltage / rated value           operating frequency / rated value         690 V           surge voltage resistance / rated value         690 V           operating frequency / rated value         690 V           operating rolequer / rated value         690 V           operating rolection REMA rating         1, 3R, 4X, 12           protectio	design of the product	Main switch	
design of the actuating element     selector switch       color / of the actuating element     black       design of handle     knob-operated mechanism, black       type of the driving mechanism / motor drive     No       General technical data     number of poles       number of poles / note     3       mechanical service life (switching cycles) / typical     100 000       electrical endurance (switching cycles) / typical     6 000       operating frequency / maximum     50 1/h       degree of pollution     3       Voltage     insulation voltage / rated value       operating frequency / maximum     690 V       surge voltage resistance / rated value     690 V       operating voltage     64kV       operating voltage     690 V       entinhum     50 Hz       operating frequency / rated value     690 V       operating frequency / rated value		1 ON - 0 OFF	
color / of the actuating element     black       design of handle     knob-operated mechanism, black       type of the driving mechanism / motor drive     No       General technical data     Inumber of poles       number of poles     3       number of poles / note     3       mechanical service life (switching cycles) / typical     100 000       electrical endurance (switching cycles) / typical     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 frequency / rated value     690 V       operating frequency / rated value     690 V       operating rollage     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     1.1 W       operating state / per pole     25 A       operational current / rated value     25 A<	type of switch	Floor mounting with door coupling	
design of handle       knob-operated mechanism, black         type of the driving mechanism / motor drive       No         General technical data       number of poles         number of poles / note       3         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles) / typical       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 frequency / rated value       690 V         operating frequency / rated value       690 V         operating requency / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       60 Hz         protection class IP       100 Display         operating frequency / rated value       11 W         protection class IP / on the front <t< td=""><td>design of the actuating element</td><td>selector switch</td></t<>	design of the actuating element	selector switch	
type of the driving mechanism / motor drive         No           General technical data	color / of the actuating element	black	
General technical data         number of poles       3         number of poles       3         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles)       6 000         operating frequency / maximum       60 00         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       690 V         insulation voltage / rated value       690 V         operating voltage resistance / rated value       690 V         operating roltage       6 kV         operating roltage       6 kV         operating requency / rated value       690 V         operating roltage       6 kV         operating roltage       6 kV         operating frequency / rated value       690 V         operation class IP       IP65         protection class IP / on the front       IP65         Dissipation       1.1 W	design of handle	knob-operated mechanism, black	
number of poles       3         number of poles / note       3         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles)       6 000         operating frequency / maximum       6 000         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       690 V         insulation voltage / rated value       690 V         operating voltage resistance / rated value       690 V         operating voltage       64V         operating requency / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       70 Hz         maximum       60 Hz         Protection class IP       IP65         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       1.1 W         current       25 A       operational current / rated value	type of the driving mechanism / motor drive	No	
number of poles / note       3         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles)       6 000         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 frequency / maximum       600 V         operating voltage       64V         operating frequency / rated value       690 V         operating frequency / rated value       50 Hz         operation class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.1	General technical data		
mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching 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 voltage       6100         • at AC / 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       600 Hz         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.1 W         pover loss [W] / for rated value of the current / at AC / in hot operating state / per pole       25 A         operational cu	number of poles	3	
electrical endurance (switching 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 voltage       690 V         • at AC / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       600 V         operating frequency / rated value       50 Hz         • maximum       50 Hz         gene of protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.1 W         pover loss [W] / for rated value of the current / at AC / in       1.1 W         operational current / rated value       25 A         operational current	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       690 V         insulation voltage / rated value       690 V         surge voltage resistance / rated value       690 V         operating voltage       690 V         • at AC / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       50 Hz         • maximum       50 Hz         fortection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       25 A         operational current       25 A	mechanical service life (switching cycles) / typical	100 000	
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 voltage         690 V           • at AC / rated value         690 V           operating frequency / rated value         600 Hz           Protection class         Protection class IP           protection class IP         IP65           degree of protection NEMA rating         1, 3R, 4X, 12           protection class IP / on the front         IP65           Dissipation         1.1 W           power loss [W] / for rated value of the current / at AC / in hot operating state / per pole         25 A           operational current / rated value         25 A	electrical endurance (switching cycles)		
degree of pollution       3         Voltage       insulation voltage / rated value       690 V         surge voltage resistance / rated value       6 kV         operating voltage       680 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 / on the front       IP65         Dissipation       1, 3R, 4X, 12         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Operational current       25 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       690 V         operating voltage       690 V         operating frequency / rated value       50 Hz         operating state / per pole       IP65         Dissipation       IP65         protection class IP / on the front       IP65         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       25 A         operational current       25 A	operating frequency / maximum	50 1/h	
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       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       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Operational current       25 A         operational current       25 A	degree of pollution	3	
surge voltage resistance / rated value       6 kV         operating voltage       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 / on the front       IP65         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         operational current       25 A         operational current       25 A	Voltage		
operating voltage       690 V         operating frequency / rated value       690 V         operating frequency / rated value       50 Hz         ominimum       50 Hz         omaximum       60 Hz         Protection class       10 Hz         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       10 Hz         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         operational current / rated value       25 A         operational current       25 A	insulation voltage / rated value	690 V	
• at AC / rated value       690 V         operating frequency / rated value       50 Hz         • minimum       60 Hz         Protection class       60 Hz         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         current       25 A         operational current       25 A	surge voltage resistance / rated value	6 kV	
operating frequency / rated value       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         degree of protection vector ve	operating voltage		
• 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       IP65         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Current       25 A         operational current       25 A	at AC / rated value	690 V	
maximum 60 Hz      Protection class      protection class IP     iP65     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      Operational current / rated value     25 A      operational current         • at 40 °C / rated value         25 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       1.1 W         Current       25 A         operational current       25 A         • at 40 °C / rated value       25 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       1.1 W         Current       operational current / rated value         operational current       25 A         operational current       25 A	• maximum	60 Hz	
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       1.1 W         Current          operational current / rated value       25 A         operational current       25 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       1.1 W         Current       0perational current / rated value         operational current       25 A         operational current       25 A	protection class IP	IP65	
Dissipation         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Current       operational current / rated value       25 A         operational current       25 A         • at 40 °C / rated value       25 A	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       1.1 W         Current	protection class IP / on the front	IP65	
hot operating state / per pole       Current       operational current / rated value     25 A       operational current     25 A       • at 40 °C / rated value     25 A	Dissipation		
operational current / rated value     25 A       operational current     25 A       • at 40 °C / rated value     25 A		1.1 W	
operational current       • at 40 °C / rated value       25 A	Current		
• at 40 °C / rated value 25 A	operational current / rated value	25 A	
	operational current		
• at 45 °C / rated value 25 A	• at 40 °C / rated value	25 A	
	• at 45 °C / rated value	25 A	

a at 50 °C / anto diversity	
• at 50 °C / rated value	25 A
• at 55 °C / rated value	25 A
at AC / rated value	25 A
Main circuit	
operational current	
<ul> <li>at AC-21 / at 690 V / rated value</li> </ul>	25 A
<ul> <li>at AC-21 A / at 240 V / rated value</li> </ul>	25 A
<ul> <li>at AC-21 A / at 400 V / rated value</li> </ul>	25 A
<ul> <li>at AC-21 A / at 440 V / rated value</li> </ul>	25 A
at AC-23 A / at 400 V / rated value	20 A
operating power	
<ul> <li>at AC-23 A / at 240 V / rated value</li> </ul>	4 kW
<ul> <li>at AC-23 A / at 400 V / rated value</li> </ul>	10 kW
<ul> <li>at AC-23 A / at 440 V / rated value</li> </ul>	9 kW
<ul> <li>at AC-23 A / at 690 V / rated value</li> </ul>	9 kW
<ul> <li>at AC-3 / at 240 V / rated value</li> </ul>	4 kW
• at AC-3 / at 400 V / rated value	8 kW
• at AC-3 / at 690 V / rated value	7.5 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
<ul> <li>switch disconnector</li> </ul>	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	No
<ul> <li>safety switch</li> </ul>	Yes
<ul> <li>maintenance/repair switch</li> </ul>	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	2
/ attachable / maximum	
number of connectable NO contacts / for auxiliary contacts	4
/ attachable / maximum	
number of connectable CO contacts / for auxiliary contacts	0
/ attachable / maximum	
number of bracket locks / maximum	2
hasp thickness / of the bracket locks	4 6 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	
• at 240 V / for combination switch + gG fuse /	3.5 kA
maximum	0.0 10 1
• at 440 V / for combination switch + gG fuse /	3.5 kA
maximum	
• at 690 V / for combination switch + gG fuse /	4 kA
maximum permissible	
I2t value / with closed switch	
<ul> <li>at 240 V / for combination switch + gG fuse /</li> </ul>	4 kA2.s

maximum	
<ul> <li>at 440 V / for combination switch + gG fuse /</li> </ul>	4 kA2.s
maximum	
<ul> <li>at 690 V / for combination switch + gG fuse / maximum</li> </ul>	4 kA2.s
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 25 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	25 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	25 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	10
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	15
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 mm <sup>2</sup> )
<ul> <li>finely stranded / with core end processing</li> <li>stranded</li> </ul>	1x (2.516 mm²) 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	hey terminal
<ul> <li>for main current circuit</li> <li>for auxiliary contacts</li> </ul>	box terminal Box terminals
Mechanical Design	
height	60 mm
width	36 mm
depth	380 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
front mounting with central attachment	Yes
rail mounting	Yes
net weight	300 g
Environmental conditions	
ambient temperature / during operation <ul> <li>minimum</li> </ul>	-25 °C
• maximum	-25 °C
ambient temperature / during storage	
minimum	-25 °C
• maximum	55 °C
General Product Approval	Declaration of Conformity

**Confirmation** 







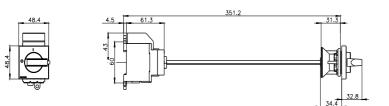
C C

other

**Miscellaneous** 

Further information

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=3LD3140-0TK11 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3140-0TK11 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3140-0TK11 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications





UK

Boden/ Base/ Plancher/ Base/ Pavimento/ Fundo

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