## **SIEMENS**

Data sheet 3LD2165-4VD51



SENTRON, Switch disconnector 3LD, main switch, 6-pole, lu: 25 A, Operating power / at AC-23 A at 400 V: 9.5 kW, molded-plastic encapsulation for metric screw connection, 1 NC, 1 NO, rotary operating mechanism, black

product designation ground designation Switch disconnector design of the product Main switch  display version for switch position indicator manual operation 1 ON - 0 OFF  Upe of switch Molded-plastic enclosure for metric threaded joint design of the actuating element Short rotary knob color of the actuating element black design of the actuating element No Control the actuating element Disack design of handle rotary operating mechanism, black Verye of the driving mechanism motor drive No Control technical data Number of poles 6 Number of poles 6 Size of switch disconnector No No No Switch disconnector No No No Switch disconnector No	Model	
design of the product display version for switch position indicator manual operation 1 ON - 0 OFF 1 ype of switch Molded-plastic enclosure for metric threaded joint design of the actuating element black clesign of the actuating element black design of handle ype of the driving mechanism motor drive No  General technical data number of poles note size of switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution  Voltage insulation voltage rated value operating voltage • at AC rated value  operating frequency rated value • minimum • maximum  Frotection class  protection class IP degree of protection NEMA rating protection class IP of the front posses in the front power loss [W] for rated value of the current at AC in hot operating state per pole  * at AC-21 at 690 V rated value • at AC-21 at 690 V rated value • at AC-21 at 690 V rated value  • at AC-21 at 690 V rated value  • at AC-21 at 690 V rated value  • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 400 V rated value	product brand name	SENTRON
display version for switch position indicator manual operation type of switch design of the actuating element color of the actuating element black design of handle type of the driving mechanism motor drive No  General technical data number of poles number of poles note size of switch disconnector electrical endurance (operating cycles) at AC-22 A at 690 V operating voltage at AC rated value minimum similum similum similum protection class IP elegrec of protection NEMA rating protection class IP on the front Dissipation power loss [W] for rated value operating state per pole  Main circuit  4 AC-21 A at 240 V rated value 25 A at AC-21 A at 240 V vated value 25 A at AC-21 A at 240 V vated value 26 A At C-21 A at 240 V vated value 25 A at AC-21 A at 240 V vated value 26 A At C-21 A at 240 V vated value 26 A at AC-21 A at 240 V vated value 26 A at AC-21 A at 240 V vated value 26 A at AC-21 A at 240 V vated value 26 A at AC-21 A at 240 V vated value 26 A at AC-21 A at 400 V vated value 26 A at AC-21 A at 400 V vated value 26 A at AC-21 A at 400 V vated value 26 A	product designation	Switch disconnector
type of switch  design of the actuating element  color of the actuating element  design of handle  type of the driving mechanism motor drive  No  Ceneral technical data  number of poles  number of poles of switch disconnector  electrical endurance (operating cycles) typical  electrical endurance (operating cycles) typical  electrical endurance (operating cycles) typical  electrical endurance (operating cycles)  • at AC-23 A at 690 V  operating frequency maximum  degree of pollution  3  Voltage  insulation voltage rated value  operating frequency rated value  • at AC-21 at 890 V  operating frequency rated value  • minimum  foo Hz  Protection class IP  degree of protection NEMA rating  protection class IP on the front  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operating state per pole  Main circuit  • at AC-21 at 890 V rated value  • at AC-21 at 840 V rated value	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 bype of the driving mechanism motor drive No General technical data  number of poles 6 6 number of poles note Size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical electrical endurance (operating cycles) 4 at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 voltage resistance rated value 690 V surge voltage resistance rated value 690 V operating frequency rate	display version for switch position indicator manual operation	1 ON - 0 OFF
color of the actuating element design of handle rotary operating mechanism, black bype of the driving mechanism motor drive No Repeat the driving mechanism motor drive No Repeat the driving mechanism motor drive No Repeat to Repeat the driving mechanism motor drive No Repeat to Repeat the driving mechanism motor drive No Repeat to Repeat the Repeat the Repeat to Repeat the	type of switch	Molded-plastic enclosure for metric threaded joint
design of handle rotary operating mechanism, black type of the driving mechanism motor drive No  General technical data  number of poles 6 number of poles note N size of switch disconnector 2 mechanical service life (operating cycles) typical electrical endurance (operating cycles) V eat AC-23 A at 690 V 6 000 operating frequency maximum 55 1 th degree of pollution 3  Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 1960 Hz  Protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 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 1 AC-21 A at 240 V rated value 25 A 1 A can at AC-21 A at 440 V rated value 25 A 1 A can account and a can are account and account account and account and account and account and account and accoun	design of the actuating element	Short rotary knob
type of the driving mechanism motor drive  General technical data  number of poles 6  number of poles note  Size of switch disconnector 2  mechanical service life (operating cycles) typical 100 000  electrical endurance (operating cycles) 4  • at AC-21 A at 690 V 6  operating frequency maximum 50 1/h  degree of pollution 3  Voltage  • at AC-21 A degree of pollution 6  • at AC-21 A degree of pollution 7  Dissipation 1, AX, 12  protection class IP on the front 1P65  Dissipation 1  • at AC-21 A at 90 V rated value 25 A  • at AC-21 A at 240 V rated value 25 A  • at AC-21 A at 240 V rated value 25 A  • at AC-21 A at 240 V rated value 25 A  • at AC-21 A at 400 V rated value 25 A	color of the actuating element	black
General technical data  number of poles  number of poles note  size of switch disconnector  mechanical service life (operating cycles) typical electrical endurance (operating cycles)  • at AC-23 A at 690 V  operating frequency maximum degree of pollution  surge voltage resistance rated value operating frequency rated value • minimum • at AC-21 A at 240 V rated value  power for potection class IP on the front  Dissipation  Main circuit  operations (25 A  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 240 V rated value	design of handle	rotary operating mechanism, black
number of poles note  number of poles note  N size of switch disconnector  mechanical service life (operating cycles) typical electrical endurance (operating cycles)  • at AC-23 A at 690 V operating frequency maximum degree of pollution 3  Voltage  insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 690 V operation frequency rated value 1090 V operation frequency rated value 1090 V operation frequency rated value 1090 V operating state per pole 11, 4X, 12 protection class IP on the front 1265 Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current 1, 1, W operating state per pole  Main circuit  operational current 1, 1, W operating state per pole  Ain AC-21 A at 240 V rated value 25 A 11 AC-21 A at 400 V rated value 25 A 11 AC-21 A at 400 V rated value 25 A 11 AC-21 A at 400 V rated value 25 A	type of the driving mechanism motor drive	No
number of poles note  size of switch disconnector  2 mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 890 V  operating frequency maximum 50 1/h 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  60 Hz  Protection class  protection class IP degree of protection NEMA rating protection class IP on the front  Dissipation  Dissipation  Operating state per pole  Main circuit  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 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value	General technical data	
Size of switch disconnector   2	number of poles	6
mechanical service life (operating cycles) typical electrical endurance (operating cycles)	number of poles note	N
electrical endurance (operating cycles)  • at AC-23 A at 690 V  operating frequency maximum  50 1/h  degree of pollution  3  Voltage  insulation voltage rated value  690 V  surge voltage resistance rated value  6 kV  operating voltage  • at AC rated value  690 V  operating frequency rated value  • minimum  • maximum  60 Hz  Protection class  protection class IP  degree of protection NEMA rating  protection class IP of protection NEMA rating  protection class IP of protection NEMA rating  protection class IP of the front  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value  • at AC-21 A at 240 V rated value  25 A  • at AC-21 A at 400 V rated value  25 A	size of switch disconnector	2
at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution 3  Voltage insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage at AC rated value 690 V operating frequency rated value 690 V operating frequency rated value 600 Hz  Protection class  protection class IP degree of protection NEMA rating protection class IP on the front IP65  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit operational current at AC-21 at 690 V rated value 25 A at AC-21 A at 240 V rated value 25 A at AC-21 A at 400 V rated value 25 A at AC-21 A at 400 V rated value 25 A	mechanical service life (operating cycles) typical	100 000
operating frequency maximum 50 1/h degree of pollution 3  Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating voltage  • at AC rated value 690 V operating frequency rated value • minimum 50 Hz • maximum 60 Hz  Protection class protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit operational current • at AC-21 at 690 V rated value 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 400 V rated value 25 A	electrical endurance (operating cycles)	
degree of pollution 3  Voltage  insulation voltage rated value 690 V  surge voltage resistance rated value 680 V  operating voltage  • at AC rated value 690 V  operating frequency rated value  • minimum 50 Hz  • maximum 60 Hz  Protection class  protection class IP IP65  degree of protection NEMA rating 1, 4X, 12  protection class IP on the front IP65  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value 25 A  • at AC-21 A at 240 V rated value 25 A  • at AC-21 A at 400 V rated value 25 A	• at AC-23 A at 690 V	6 000
insulation voltage rated value 690 V surge voltage resistance rated value 680 V operating voltage  at AC rated value 690 V operating frequency rated value minimum 50 Hz maximum 50 Hz maximum 60 Hz  Protection class protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65  Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit operational current at AC-21 at 690 V rated value 25 A at AC-21 At 240 V rated value 25 A at AC-21 At 240 V rated value 25 A at AC-21 At 240 V rated value 25 A at AC-21 At 240 V rated value 25 A	operating frequency maximum	50 1/h
insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage  • at AC rated value 690 V operating frequency rated value  • minimum 50 Hz • maximum 80 Hz  Protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • 25 A	degree of pollution	3
surge voltage resistance rated value  operating voltage  • at AC rated value  operating frequency rated value  • minimum  • maximum  foo Hz  Protection class  protection class IP  degree of protection NEMA rating  protection class IP on the front  IP65  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  25 A  • at AC-21 A at 400 V rated value  25 A	Voltage	
operating voltage  • at AC rated value  operating frequency rated value  • minimum  • maximum  foo Hz  Protection class  protection class IP  degree of protection NEMA rating  protection class IP on the front  IP65  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value	insulation voltage rated value	690 V
at AC rated value  operating frequency rated value  minimum  maximum  for Hz  Protection 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 400 V rated value  at AC-21 A at 400 V rated value  at AC-21 A at 400 V rated value  25 A  at AC-21 A at 400 V rated value  25 A	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 4400 V rated value  • at AC-21 A at 4400 V rated value  • at AC-21 A at 4400 V rated value  25 A  • at AC-21 A at 4400 V rated value  25 A	operating voltage	
<ul> <li>minimum</li> <li>maximum</li> <li>60 Hz</li> </ul> Protection class protection class IP <ul> <li>degree of protection NEMA rating</li> <li>1, 4X, 12</li> </ul> protection class IP on the front <ul> <li>IP65</li> </ul> Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole <ul> <li>Main circuit</li> </ul> Operational current <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 400 V rated value</li> <li>25 A</li> <li>at AC-21 A at 400 V rated value</li> <li>25 A</li> </ul>	at AC rated value	690 V
<ul> <li>maximum</li> <li>60 Hz</li> <li>Protection class</li> <li>protection class IP</li> <li>degree of protection NEMA rating</li> <li>1, 4X, 12</li> <li>protection class IP on the front</li> <li>IP65</li> <li>Dissipation</li> <li>power loss [W] for rated value of the current at AC in hot operating state per pole</li> <li>Main circuit</li> <li>operational current <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 400 V rated value</li> </ul> </li> </ul>	operating frequency rated value	
Protection class IP  degree of protection NEMA rating  1, 4X, 12  protection class IP on the front  IP65  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  25 A  • at AC-21 A at 400 V rated value  25 A	• minimum	50 Hz
protection class IP  degree of protection NEMA rating  1, 4X, 12  protection class IP on the front  IP65  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value  25 A  • at AC-21 A at 400 V rated value 25 A	• maximum	60 Hz
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 25 A • at AC-21 A at 400 V rated value 25 A	Protection class	
protection class IP on the front  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value 25 A • at AC-21 A at 400 V rated value 25 A	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 25 A • at AC-21 A at 400 V rated value 25 A	degree of protection NEMA rating	1, 4X, 12
power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 400 V rated value  25 A  • at AC-21 A at 400 V rated value  25 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  25 A  • at AC-21 A at 400 V rated value  25 A	Dissipation	
operational current  • at AC-21 at 690 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 400 V rated value  25 A  • at AC-21 A at 400 V rated value  25 A		1.1 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>25 A</li> <li>25 A</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>25 A</li> </ul>	operational current	
at AC-21 A at 400 V rated value     25 A	• at AC-21 at 690 V rated value	25 A
	• at AC-21 A at 240 V rated value	25 A
• at AC-21 A at 440 V rated value 25 A	• at AC-21 A at 400 V rated value	25 A
	• at AC-21 A at 440 V rated value	25 A

<ul><li>at AC-23 A at 400 V rated value</li></ul>	20 A
operating power	40 A
at AC-23 A at 240 V rated value	5 kW
at AC-23 A at 400 V rated value	10 kW
• at AC-23 A at 440 V rated value	9.5 kW
• at AC-23 A at 690 V rated value	10 kW
at AC-3 at 240 V rated value	4 kW
at AC-3 at 240 V rated value      at AC-3 at 400 V rated value	8 kW
• at AC-3 at 690 V rated value	7.5 kW
Auxiliary circuit	1.5 KW
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	000 V
suitability for use	
main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
motor drive	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts	2
attachable maximum	
number of connectable NO contacts for auxiliary contacts attachable maximum	3
number of connectable NO contacts for auxiliary contacts	0
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts	
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks	0
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum	3
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection	0 3 4 8 mm
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value	3
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch	0 3 4 8 mm
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum permissible  I2t value with closed switch	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  permissible  l2t value with closed switch  • at 240 V for combination switch + gG fuse maximum	0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  permissible  l2t value with closed switch  • at 240 V for combination switch + gG fuse maximum  at 440 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  permissible  l2t value with closed switch  • at 240 V for combination switch + gG fuse maximum	0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  permissible  l2t value with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum	0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum permissible  l2t value with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum	0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA2.s 4 kA2.s 4 kA2.s
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible  l2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum	0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA  fuse gL/gG: 25 A
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible  I2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum	0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA  the state of the state
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  permissible  l2t value with closed switch  • at 240 V for combination switch + gG fuse maximum  e at 440 V for combination switch + gG fuse maximum  o at 440 V for combination switch + gG fuse maximum  e at 440 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch + gG fuse maximum  o at 690 V for combination switch	0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA  tuse gL/gG: 25 A fuse gL/gG: 10 A
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum permissible  I2t value with closed switch • at 240 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum o at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum o at 690 V for combination switch + gG fuse maximum o at 690 V for combination switch + gG fuse maximum design of the fuse link o for short-circuit protection of the main circuit required operational current of upstream fuse rated value  according UL operational current at AC according to UL 508/UL 60947-4-1	0 3 4 8 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA  4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A 25 A
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  permissible  I2t value with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  cat 690 V for combination switch + gG fuse maximum  at 690 V for combination switch + gG fuse maximum  eat 690 V for combination switch + gG fuse maximum  oat 690 V for combination switch + gG fuse maximum  eat 690 V for combination switch + gG fuse maximum  oberighted for short-circuit protection of the main circuit required  operational current of upstream fuse rated value  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL	3 4 8 mm  50 kA  3.5 kA 3.5 kA 4 kA  4 kA2.s 4 kA2.s 5 kA 4 kA2.s 4 kA2.s 7 kA2.s 7 kA3.s
number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  permissible  l2t value with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  cat 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-	3 4 8 mm  50 kA  3.5 kA 3.5 kA 4 kA 4 kA  4 kA2.s 4 kA2.s 4 kA2.s 7 tuse gL/gG: 25 A 7 fuse gL/gG: 10 A 25 A

508/UL 60947-4-1	
	50 A
continuous current of upstream fuse according to UL rated value type of fuse according to UL	RK5
Connections	RNS
AWG number as coded connectable conductor cross section	
solid	
• maximum	8
• minimum	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (1,516mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (1,510mm²)
• stranded	1x (1,516mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
type of electrical connection	
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	188 mm
width	146 mm
depth	149 mm
type of device	fixed mounting
fastening method	Complete unit in enclosure
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	877 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	



Confirmation







Miscellaneous

General Product Approval

Declaration of Conformity

Test Certificates

Marine / Shipping

EHC

CE EG-Konf.



Miscellaneous



Miscellaneous

other

other Environment

<u>Confirmation</u>

Environmental Confirmations

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=3LD2165-4VD51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2165-4VD51

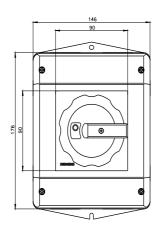
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2165-4VD51">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2165-4VD51</a>

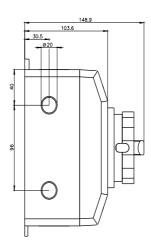
CAx-Online-Generator

http://www.siemens.com/cax

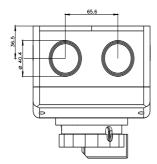
**Tender specifications** 

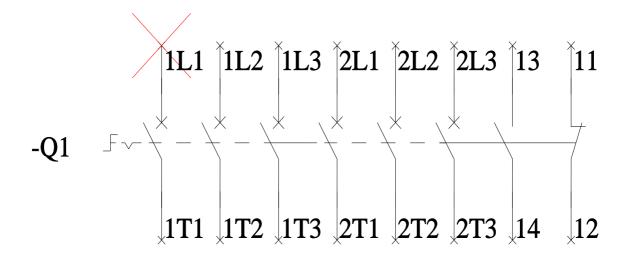
http://www.siemens.com/specifications

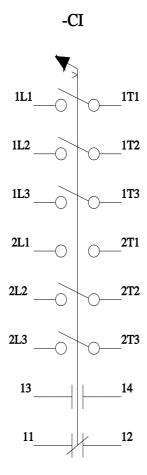












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