## **SIEMENS**

Data sheet 3LD2165-4VD53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 6- pole, lu: 25 A, operating power / at AC-23 A 400 V: 9.5 kW, Molded plastic encapsulation for metric cable gland, 1 NC, 1 NO, rotary operating mechanism, red/yellow

product brand name   SENTRON   product designation   Switch disconnector   Self-RON   Switch design of the product   EMERGENCY-STOP switch   design of the product   Simple yearsion for switch position indicator manual operation   1.0N - 0.0FF   type of switch   Molded-plastic enclosure for metric threaded joint   design of the actuating element   Short rotary knob   Short rotary Sh	Model	
design of the product display version for switch position indicator manual operation 1 ON - 0 OFF 1 ON - 0 ON 1 ON 1 ON - 0 ON 1 ON 1 ON - 0 ON 1 O	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 design of handle type of the driving mechanism motor drive forear I 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 of sugar esistance rated value • minimum • at AC rated value • rated value • minimum • at AC rated value • rated value operating facta prope  Main circuit  operating state per pole  Main circuit  operational current • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	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 number of poles of switch disconnector electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) at AC-23 A at 690 V operating frequency maximum operating voltage at AC rated value operating rougenery datue minimum operating voltage at AC rated value operating requency nacy maximum operating voltage at AC rated value operating requency rated value operating value operati	design of the product	EMERGENCY-STOP switch
design of the actuating element red red classing element red red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No Renarla technical data  Number of poles 6 6 No No Size of Switch disconnector 2 2 No No Size of Switch disconnector 2 2 No No Size of Switch disconnector 2 2 No No Size of Switch disconnector 3 No Size of Switch disconnector 4 No	display version for switch position indicator manual operation	1 ON - 0 OFF
color of the actuating element         red           design of handle         rotary operating mechanism, red/yellow           type of the driving mechanism motor drive         No           General technical data           number of poles           number of poles note         N           size of switch disconnector         2           mechanical service life (operating cycles) typical         100 000           electrical endurance (operating cycles) typical         100 000           e at AC-23 A at 690 V         6000           operating frequency rakinum         690 V           surge voltage resistance rated value         690 V           e at AC rated value         690 V           operating frequency rated value         690 V           e maximum         50 Hz           e minimum         50 Hz           e maximum         60 Hz           Protection class	type of switch	Molded-plastic enclosure for metric threaded joint
design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No  General technical data  number of poles 6 number of poles 9 number of poles 10 num	design of the actuating element	Short rotary knob
type of the driving mechanism motor drive  General technical data  number of poles 6 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) • at AC-23 At 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3  Voltage insulation voltage rated value 690 V operating frequency maximum 60 Hz • at AC-21 Ad 500 V operating frequency maximum 50 1/h degree of pollution Voltage rated value 690 V operating requency rated value 690 V operating voltage resistance rated value 690 V operating voltage resistance rated value 690 V operating frequency rated value 690 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 A at 240 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A	color of the actuating element	red
A command to poles on the size of switch disconnector 2  mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles)  • at AC-23 A at 690 V 6000 operating frequency maximum 50 1/h degree of pollution 3  Voltage  insulation voltage rated value 690 V operating voltage resistance rated value 690 V operating frequency rated value 690 V operating voltage each cycle of both cycle of bot	design of handle	rotary operating mechanism, red/yellow
number of poles	type of the driving mechanism motor drive	No
number of poles note N size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles)  • at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V operating voltage resistance rated value 690 V operating voltage resistance rated value 690 V operating voltage resistance rated value 690 V operating requency 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 100 Hz  Protection class  protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65  Dissipation  operating state per pole  Main circuit  operating state per pole  Main circuit  operational current 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 240 V rated value 25 A	General technical data	
Size of switch disconnector   2	number of poles	6
mechanical service life (operating cycles) typical  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  690 V  operating voltage  • at AC rated value  690 V  operating frequency rated value  690 V  operating requency rated value  690 V  operating frequency rated value  • minimum  50 Hz  • maximum  60 Hz  Protection class IP  degree of protection NEMA rating  1, 4X, 12  protection class IP on the front  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  • at AC-21 at 690 V rated value  • 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	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  690 V  operating frequency rated value  • minimum  • maximum  60 Hz  Protection class  protection class IP  degree of protection NEMA rating  1, 4X, 12  protection class IP on the front  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  • 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 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 voltage  ● at AC rated value 690 V operating frequency rated value ● minimum 50 Hz ● maximum 50 Hz ● maximum 60 Hz  Protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP 0 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 440 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 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 • maximum 60 Hz  Protection class  protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP on the front Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current • at AC-21 at 690 V rated value 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 440 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 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 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 690 V operating voltage	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  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 • 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	Voltage	
operating voltage  • at AC rated value  operating frequency rated value  • minimum  • maximum  footetion 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  • 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  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  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  50 Hz  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  • 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	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>protection class IP on the front</li> <li>IP65</li> </ul> Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit <ul> <li>operational current</li> <li>at AC-21 at 690 V rated value</li> <li>at AC-21 A at 240 V rated value</li> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 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</li> <li>at AC-21 at 690 V rated value</li> <li>at AC-21 A at 240 V rated value</li> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 400 V rated value</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  • 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  1, 4X, 12  protection class IP on the front  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 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 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 IP	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	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	201
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-23 A at 090 V rated value     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 400 V rated value      at AC-3 at 690 V rated value	7.5 kW
Auxiliary circuit	7.5 KW
	0
number of CO contacts for auxiliary contacts	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	500 V
operating voltage of auxiliary contacts at AC maximum	
continuous current of the auxiliary contact rated value	10 A
insulation voltage of the auxiliary switch rated value	500 V
Suitability	
suitability for use	Von
• main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	Yes
safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
<ul> <li>motor drive</li> </ul>	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts attachable maximum	2
number of connectable NO contacts for auxiliary contacts	3
attachable maximum	
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum	3
number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks	
number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum	3
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	3 4 8 mm
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 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	3 4 8 mm
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	3 4 8 mm 50 kA 3.5 kA
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	3 4 8 mm 50 kA 3.5 kA 3.5 kA
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	3 4 8 mm 50 kA 3.5 kA
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	3 4 8 mm 50 kA 3.5 kA 3.5 kA
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	3 4 8 mm 50 kA 3.5 kA 3.5 kA
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	3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA
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	3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA
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 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum	3 4 8 mm  50 kA  3.5 kA 3.5 kA 4 kA 4 kA
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 690 V for combination switch + gG fuse maximum	3 4 8 mm  50 kA  3.5 kA 3.5 kA 4 kA 4 kA
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 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	3 4 8 mm  50 kA  3.5 kA 3.5 kA 4 kA 4 kA
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 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  design of the fuse link • for short-circuit protection of the main circuit required	3 4 8 mm  50 kA  3.5 kA 3.5 kA 4 kA 4 kA  the state of the state o
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  • at 690 V for combination switch + gG fuse maximum  on the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required	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 fuse gL/gG: 25 A fuse gL/gG: 10 A
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 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  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	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 fuse gL/gG: 25 A fuse gL/gG: 10 A
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  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  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	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 5 kA 4 kA2.s 6 kA2.s 7 kA2.s 7 kA2.s
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 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  oat 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	3 4 8 mm  50 kA  3.5 kA 3.5 kA 4 kA  4 kA2.s  4 kA2.s  4 kA2.s  fuse gL/gG: 25 A fuse gL/gG: 10 A  25 A
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  l2t value 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  • at 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 kA2.s 4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A 25 A  600 V
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 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 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	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 fuse gL/gG: 25 A fuse gL/gG: 10 A 25 A  600 V

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	NN3
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)
<ul> <li>finely stranded with core end processing</li> </ul>	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	882 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

other

EAC

CE EG-Konf.



Miscellaneous



Miscellaneous

other

Environment

Confirmation

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=3LD2165-4VD53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2165-4VD53

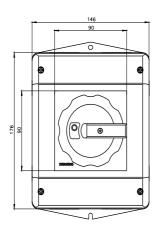
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2165-4VD53">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2165-4VD53</a>

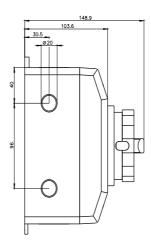
CAx-Online-Generator

http://www.siemens.com/cax

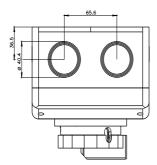
**Tender specifications** 

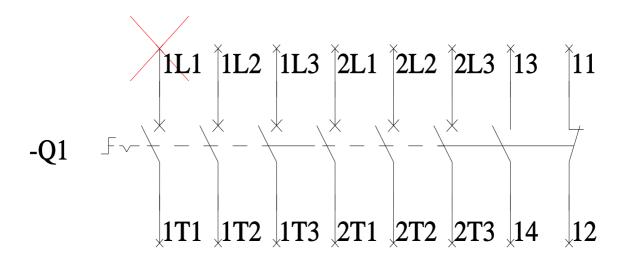
http://www.siemens.com/specifications

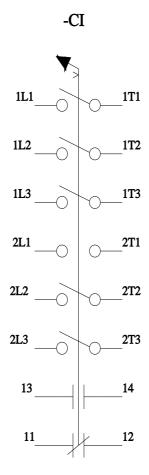












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