## 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

Model		
product brand name	SENTRON	
product designation	3LD Switch disconnector	
design of the product	Main switch	
display version / for switch position indicator manual operation	1 ON - 0 OFF	
design of the actuating element	Short rotary knob	
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	Ν	
type of device	fixed mounting	
type of switch	Molded-plastic enclosure for metric threaded joint	
size of switch disconnector	2	
mechanical service life (switching cycles) / typical	100 000	
electrical endurance (switching cycles)		
• at AC-23 A / at 690 V	6 000	
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	4 kA2.s	
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA2.s	
operating frequency / maximum	50 1/h	
Voltage		
insulation voltage / rated value	690 V	
surge voltage resistance / rated value	6 kV	
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]		
<ul> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	1.1 W	
<ul> <li>per conductor / typical</li> </ul>	1 W	
Current		
operational current		
• at 40 °C / rated value	25 A	
• at 45 °C / rated value	25 A	
• at 50 °C / rated value	25 A	

et d5 °C / rated value 25 Å     et d AC23 A / at 400 / rated value 26 Å     et d AC23 A / at 400 / rated value 25 Å 26 Å  27 5 KW 27 et d AC23 A / at 400 / rated value 27 5 KW 27 et d AC23 A / at 400 / rated value 28 Å 27 5 KW 27 et d AC23 A / at 400 / rated value 29 Å 20 AC23 et d AC23 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value 20 et d AC3 / at 400 / rated value		
• at AC23 A / at 800 / rated value     20 A       • at AC21 A / at 240 / rated value     25 A       • at AC21 A / at 240 / rated value     25 A       • operational current / with rate / rated value     25 A       0 operational current / with rate / rated value     25 A       • at 400 / for combination switch + gG fuse /     3.5 kA       maximum     • at 800 / for combination switch + gG fuse /     4 kA       maximum permissible     5 kW       of at AC23 A / at 240 V / rated value     5 kW       • at AC23 A / at 240 V / rated value     5 kW       • at AC23 A / at 240 V / rated value     10 kW       • at AC23 A / at 240 V / rated value     10 kW       • at AC23 A / at 240 V / rated value     10 kW       • at AC23 A / at 240 V / rated value     10 kW       • at AC23 A / at 3400 V / rated value     10 kW       • at AC23 / at 3400 V / rated value     25 A       Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
• at AC-21 / at B00 // rated value     25 Å       • at AC-21 A / at 440 // rated value     25 Å       • at AC-21 A / at 440 // rated value     25 Å       • at 4AC-21 / rated value     25 Å       • at 440 // for combation switch + gG fuse /     3.5 kÅ       • maximum     at 660 // for combation switch + gG fuse /     3.5 kÅ       • maximum permissible     5 kW     4 kÅ       • at AC-23 A / at 240 // rated value     5 kW     4 kÅ       • at AC-23 A / at 240 // rated value     5 kW     4 kÅ       • at AC-23 A / at 400 // rated value     5 kW     4 kÅ       • at AC-23 A / at 240 // rated value     10 kW     4 kÅ       • at AC-3 / at 240 // rated value     25 kM     4 kÅ       • at AC-3 / at 400 // rated value     10 kW     4 kÅ       • at AC-3 / at 240 // rated value     25 kM     4 kÅ       • at AC-3 / at 240 // rated value     7 kKM     26 kA       • at AC-3 / at 240 // rated value     26 kA     26 kA       • at AC-3 / at 240 // rated value     26 kA     26 kA       • at AC-3 / at 240 // rated value     26 kA     26 kA       • at AC-3 / at 240 // rated value     26 kA     26 kA       • at AC-3 / at 240 v/ rated value     7 kW     26 kA       • at AC-3 / at 240 v/ rated value     7 kW     26 kA       • at AC-3 / at 24		
• + rh C-21 A/ rf 240 V/ rated value     25 A       operational current / of upstream fuse / rated value     25 A       iset 440 V/ for combination switch * g6 fuse /     35 kA       maximum     • at d80 V/ for combination switch * g6 fuse /     4 kA       maximum     • at d80 V/ for combination switch * g6 fuse /     4 kA       maximum     • at d80 V/ for combination switch * g6 fuse /     4 kA       operating power     • at AC-23 A/ at 240 V / rated value     5 kW       • at AC-23 A/ at 240 V / rated value     5 kW     • at AC-23 A/ at 240 V / rated value       • at AC-23 A/ at 240 V / rated value     5 kW     • at AC-23 A/ at 240 V / rated value       • at AC-23 A/ at 240 V / rated value     5 kW     • at AC-3 a/ at 240 V / rated value       • at AC-3 a/ at 300 V / rated value     25 A     Auxiliary at 240 V / rated value       • at AC-3 a/ at 300 V / rated value     25 A     Auxiliary at 240 V / rated value       • at AC-3 a/ at 300 V / rated value     25 A     Auxiliary at 240 V / rated value       • at AC-3 rated value     25 A     Auxiliary at 240 V / rated value     25 A       Auxiliary at 240 V / rated value     25 A     Auxiliary at 240 V / rated value     26 A       operational current / rated value     25 A     Auxiliary at 24 V / rated value     26 A       outrition of CO contacts / for auxiliary contacts     1     1		
• at AC21 Ar fat 40 V / rated value         25 A           operational current / of updream fuse / rated value         26 A           • at 440 V / for combination switch + gG fuse /         3.5 KA           • at 030 V / for combination switch + gG fuse /         3.6 KA           • at 030 V / for combination switch + gG fuse /         4 KA           • at 040 V / for combination switch + gG fuse /         4 KA           • at 040 V / for combination switch + gG fuse /         4 KA           • at 040 V / for combination switch + gG fuse /         4 KA           • at 040 V / for combination switch + gG fuse /         4 KA           • at 040 V / for data value         5 KW           • at 040 V / for data value         10 KW           • at 040 V / for data value         10 KW           • at 040 V / for data value         25 A           • at 040 V / for value         25 A           • at 040 V / for value         25 A           • at 040 V / for value         25 A           • at 040 V / for value         25 A           • at 040 V / for value         25 A           • at 040 V / for value         25 A           • at 040 V / for value         26 A           • at 040 V / for value         26 A           • at 040 V / for value         26 A <t< td=""><td></td><td></td></t<>		
operational current / of updarteam fuse / rated value         25 A           let-through current / with closed switch = at 480 V / for combination switch + gG fuse / maximum         3.5 kA           ext disd V / for combination switch + gG fuse / maximum permisable         3.5 kA           Main circuit         ext disd V / for combination switch + gG fuse / ext AC-23 A / at 240 V / rated value         5 kW           et at AC-23 A / at 240 V / rated value         5 kW           et at AC-23 A / at 240 V / rated value         10 kW           et at AC-3 A / at 240 V / rated value         95 kW           et at AC-3 / at 240 V / rated value         95 kW           et at AC-3 / at 260 V / rated value         75 kW           et at AC-3 / at 260 V / rated value         75 kW           et at AC-3 / at 260 V / rated value         25 A           Auxiliary contracts         0           number of CO conteats / for auxiliary contracts         1           number of CO conteats / for auxiliary contracts         1           operational current / rated value         500 V           contracts / for auxiliary contracts         10 A           imaulation value / of the auxiliary contracts         10 A           imaulation value / of the auxiliary contracts         10 A           imaulation value / of the auxiliary contracts         500 V           co		
let.through current / with closed switch       3.5 kA         • at 460 // for combination switch + gG fuse /       3.5 kA         • at 800 // for combination switch + gG fuse /       4 kA         maximum permissible       4 kA         • at AC-23 Ar / at 240 V / rated value       5 kW         • at AC-23 Ar / at 400 V / rated value       5 kW         • at AC-23 Ar / at 400 V / rated value       9.5 kW         • at AC-23 Ar / at 400 V / rated value       9.5 kW         • at AC-23 Ar / at 400 V / rated value       9.5 kW         • at AC-3 / at 400 V / rated value       9.5 kW         • at AC-3 / at 400 V / rated value       25 A         Auxiliary carcent       7.5 kW         • at AC-3 / at 400 V / rated value       25 A         Auxiliary carcent       7.5 kW         operational current / rated value       25 A         Auxiliary carcent       1         number of NC contacts / for auxiliary contacts       1         number of NC contacts / for auxiliary contacts       1         operating valueg / of auxiliary contacts       1         outnows       500 V         suitability for use       •         • main switch       Yes         • safety switch       Yes         • safety switch       Yes <td></td> <td></td>		
• at 400 / 1/or combination switch + gG fuse / maximum     3.5 kA       • at 800 / 1/or combination switch + gG fuse / maximum permissible     4 kA <b>Main circuit</b> operating power          • at AC-23 A / at 400 // rated value       5 KW         • at AC-23 A / at 400 // rated value       10 kW         • at AC-23 A / at 400 // rated value       10 kW         • at AC-23 A / at 400 // rated value       10 kW         • at AC-23 A / at 400 // rated value       10 kW         • at AC-37 at 240 // rated value       25 A         Auxiliary circuit           number of Contracts // or auxiliary contracts           number of NC contracts // or auxiliary contracts           subtability for use           • suitability for use           • suitability for use           • auxiliary sentch / rated value           • auxiliary sentch / rated value           • auxiliary sentch / rated value		25 A
maximum       each of the combination switch + gG fuse /       4 kA         maximum permissible       fill         den circuit       5 kW         operating power       a A AC-23 A / at 40 V / rated value       5 kW         at AC-23 A / at 40 V / rated value       9 kW       at AC-23 A / at 40 V / rated value         at AC-23 A / at 40 V / rated value       10 kW       at AC-33 A / at 40 V / rated value         at AC-33 A / at 40 V / rated value       25 k         Accar at 40 V / rated value       25 k         Availing vicination current / rated value       25 k         Availing vicination contacts / for auxiliary contacts       1         number of CO contacts / for auxiliary contacts       1         number of No contacts / for auxiliary contacts       10 A         insultion voltage / of the auxiliary contacts       10 A         insultion voltage / of the auxiliary contacts       10 A         insultion voltage / of the auxiliary contacts       10 A         insultion voltage / of the auxiliary contacts       10 A         insultion voltage / of the auxiliary contact       10 A         insultion voltage / of the auxiliary contact       10 A         insultion voltage / of the auxiliary contact       10 A         is deta billy for use       imain         ima manuch		
maximum permissible           Operating power           • at AC-23 A / at 240 V / rated value           • at AC-23 A / at 440 V / rated value           • at AC-23 A / at 440 V / rated value           • at AC-23 A / at 440 V / rated value           • at AC-23 A / at 440 V / rated value           • at AC-23 A / at 400 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-31 / at 240 V / rated value           • at AC-32 / at 240 V / rated value           • at AC-32 / at 240 V / rated value           • at AC-32 / at 240 V / rated value           • at 30 / at 340 / at 340 / at	maximum	
operating power              is AC-23 A / at 40 V / rated value               5 KW                 et AC-23 A / at 40 V / rated value               9 5 KW               et AC-23 A / at 40 V / rated value               9 5 KW                 et AC-23 A / at 40 V / rated value               9 5 KW               et AC-23 / at 260 V / rated value               9 5 KW                 et AC-23 / at 260 V / rated value               8 KW               et AC-3 / at 260 V / rated value               7 5 KW                 operational current / rated value               7 5 KW               7 5 KW                 operating voltage / of auxiliary contacts               0               1                 rumber of NC contacts / for auxiliary contacts               10 A                   rumber of NC contacts / for auxiliary contacts               10 A                   rumber of NC contacts               auxiliary contacts               10 A                 suitability               suitability               500 V                 sui		4 KA
• at AC-23 A / at 400 V / rated value       5 kW         • at AC-23 A / at 400 V / rated value       9 5 kW         • at AC-23 A / at 400 V / rated value       9 5 kW         • at AC-23 / at 400 V / rated value       10 kW         • at AC-31 / at 200 V / rated value       8 kW         • at AC-31 / at 200 V / rated value       8 kW         • at AC-31 / at 200 V / rated value       7 kW         • at AC-31 / at 500 V / rated value       7 kW         • at AC-31 / at 500 V / rated value       7 kW         • at AC-31 / at 500 V / rated value       7 kW         • at AC-31 / at 500 V / rated value       7 kW         • at AC-31 / for auxiliary contacts       1         rumber of NC contacts / for auxiliary contacts       1         rumber of NC contacts / for auxiliary contacts       1         operating value / auxiliary contact / rated value       500 V         solutability for use       *         • main switch       Yes         • safety switch       Yes         • safety switch       Yes         • asafety switch       Yes         • cont > the bracket locks / maximum       3         hasp thickness / of the bracket locks / maximum       3         hasp thickness / of the bracket locks / maximum       4 mm	Main circuit	
	operating power	
	• at AC-23 A / at 240 V / rated value	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 690 V / rated value         7.5 kW           • operational current / rated value         26 A           Auxiliary circuit         7.5 kW           number of CO contacts / for auxiliary contacts         0           number of NC contacts / for auxiliary contacts         1           number of NC contacts / for auxiliary contacts         1           continuous current / of the auxiliary contacts / at AC / maximum         500 V           continuous current / of the auxiliary contact / rated value         500 V           continuous current / of the auxiliary contact / rated value         500 V           suitability         500 V           suitability for use         9           • main switch         Yes           • witch disconnector         Yes           • maintennec/repair switch         Yes           • ander Concelect locks / maximum         3           color / of the actuating element         black           Product details         7           product details         7           product details         7           order dive         No           • an be locked into OFF position         Yes	<ul> <li>at AC-23 A / at 400 V / rated value</li> </ul>	10 kW
• at AC-3 / at 240 V / rated value         4 kW           • at AC-3 / at 240 V / rated value         8 kW           • at AC-3 / at 690 V / rated value         25 A           Auxiliary circuit         25 A           number of C0 contacts / for auxiliary contacts         0           number of NC contacts / for auxiliary contacts         1           operating voltage / of auxiliary contacts         1           operating voltage / of auxiliary contact / at AC / maximum         500 V           continuous current / of the auxiliary contact / rated value         10 A           insulation voltage / of the auxiliary contact / rated value         500 V           Suitability for use         •           • main switch         Yes           • switch disconnector         Yes           • witch disconnector         Yes           • MERGENCY OFF switch         No           • asifety switch         Yes           • coan be locked into OFF position         Yes           • coan be locked into OFF position         Yes           • coan be locked locks / maximum         8 mm           product detaire         No           • coan be locked locks / maximum         8 mm           product detaires / of the bracket locks / maximum         8 mm           • notage tri	<ul> <li>at AC-23 A / at 440 V / rated value</li> </ul>	9.5 kW
	<ul> <li>at AC-23 A / at 690 V / rated value</li> </ul>	10 kW
• at AC-3 / at 690 V / rated value         7.5 kW           operational current / rated value         25 A           Auxiliary circuit         0           number of NC contacts / for auxiliary contacts         1           operating voltage / of auxiliary contacts         1           operating voltage / of auxiliary contacts         1           operating voltage / of auxiliary contacts         1           insulation voltage / of auxiliary contacts         1           insulation voltage / of the auxiliary contact / rated value         500 V           Sultability         7es           number of bracket lo	• at AC-3 / at 240 V / rated value	4 kW
operational current / rated value         25 A           Auxiliary circuit	• at AC-3 / at 400 V / rated value	8 kW
Auxillary circuit         0           number of CO contacts / for auxiliary contacts         0           number of NO contacts / for auxiliary contacts         1           operating voltage / of auxiliary contacts         1           continuous current / of the auxiliary contacts         500 V           continuous current / of the auxiliary contact         10 A           insulation voltage / of the auxiliary contact / rated value         500 V           Suitability         500 V           suitability for use         0           • main switch         Yes           • solid the disconnector         Yes           • MERGENCY OFF switch         No           • safety switch         Yes           • naintenance/repair switch         Yes           of the actuating element         black           Product details            product feature         •           • a blacket locks / maximum         3           hasp thickness / of the bracket locks / maximum         4 mm           hasp thickness / of the bracket locks / maximum         8 mm           product extension / optional         No           • oldiage trigger         No           • oldiage trigger         No           • oldiage trigger         <	• at AC-3 / at 690 V / rated value	7.5 kW
number of CO contacts / for auxiliary contacts         0           number of NC contacts / for auxiliary contacts         1           operating voltage / of 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         500 V           e main switch         Yes           • switch disconnector         Yes           • mainswitch         Yes           • switch disconnector         Yes           • mainemance/repair switch         Yes           • mainemance/repair switch         Yes           • mainemance/repair switch         Yes           • condr for the actuating element         black           Product details         product details           product details         3           number of bracket locks / maximum         3           nage thickness / of the bracket locks / minimum         4 mm           hasp thickness /	operational current / rated value	25 A
number of CO contacts / for auxiliary contacts         0           number of NC contacts / for auxiliary contacts         1           operating voltage / of 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         500 V           e main switch         Yes           • switch disconnector         Yes           • mainenance/repair switch         Yes           • amainenance/repair switch         Yes           • mainenance/repair switch         Yes           • analytic detating element         black           Product detating         Product detating           product detating         3           namber of bracket locks / maximum         3           nabs thickness / of the bracket locks / minimum         4 mm           hasp thickness / of the bracket locks / maximum         8 mm           product extension / optional         No <td>Auxiliary circuit</td> <td></td>	Auxiliary circuit	
number of NC contacts / for auxiliary contacts       1         number of NC contacts / for auxiliary contacts       1         operating voltage / of auxiliary contacts A C / maximum       500 V         continuous current / of the auxiliary contact / rated value       10 A         suitability       10 A         suitability       10 A         suitability for use       •         • main switch       Yes         • ENERGENCY OFF switch       No         • safety switch       Yes         • maintenance/repair switch       Yes         • maintenance/repair switch       Yes         • color / of the actuating element       black         Product details       product details         product details       Yes         • number of bracket locks / maximum       3         hasp thickness / of the bracket locks / minimum       4 mm         hasp thickness / of the bracket locks / maximum       8 mm         product stension / optional       No         • voltage trigger       No         Short circuit       25 A         operational current / with line-side fuse       600 V         solued / ta 400 / by gG fuse / rated value       50 kA         according UL       25 A         operati	number of CO 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           suitability         suitability           suitability for use         Yes           • switch disconnector         Yes           • EMERGENCY OFF switch         No           • safety switch         Yes           Appearance         color / of the actuating element           Product details            product feature         e           • can be locked into OFF position         Yes           number of bracket locks / maximum         3           hasp thickness / of the bracket locks / maximum         8 mm           product details         No           • voltage trigger         No           Short circuit         Operational short-circuit current / with line-side fuse protection           • at 690 V / by GG fuse / rated value         50 kA           according UL         600 V           operational current / at AC / according to UL         50 kA           according UL         600 V           operational current / at AC / according to UL	number of NC contacts / for auxiliary contacts	1
operating voltage / of auxiliary contacts / at AC / maximum         500 V           continuous current / of the auxiliary sontact / rated value         10 A           insulation voltage / of the auxiliary switch / rated value         500 V           Suitability         suitability           suitability         suitability           suitability for use         Yes           • switch disconnector         Yes           • safety switch         Yes           • main struct         Yes           • anale nance/repair switch         Yes           Appearanco         Color / of the actuating element           product feature         e can be locked into OFF position           number of bracket locks / maximum         3           hasp thickness / of the bracket locks / maximum         8 mm           product extension / optional         No           • voltage trigger         No           Short circuit         Conditional short-circuit current / with line-side fuse protection           • ot stop of fuse / rated value         50 kA           according UL         600 V           operational current / with line-side fuse protection         600 V           south / rated value         50 kA           according UL         600 V           operational cur		1
continuous current / of the auxiliary contact / rated value       10 A         insulation voltage / of the auxiliary switch / rated value       500 V         Suitability       southability         suitability for use       • main switch         • main switch       Yes         • switch disconnector       Yes         • EMERGENCY OFF switch       No         • safety switch       Yes         • maintenance/repair switch       Yes         color / of the actuating element       black         Product details       product feature         • can be locked into OFF position       Yes         number of bracket locks / maximum       3         hasp thickness / of the bracket locks / maximum       8 mm         product setension / optional       No         • ontor drive       No         • voltage trigger       No         Stort circuit       conditional short-circuit current / with line-side fuse         conditional short-circuit current / at AC / according to UL 508/UL       600 V         coperating voltage / at AC / at 50/60 Hz / according to UL 508/UL       600 V         souter (hp] / at AC / at 50/60 Hz / according to UL 508/UL       600 V         souter (hp] / at AC / at 50/60 Hz / according to UL 508/UL       600 V         souter (hp] /	operating voltage / of auxiliary contacts / at AC / maximum	500 V
Suitability         suitability         suitability for use         • main switch       Yes         • switch disconnector       Yes         • EMERGENCY OFF switch       No         • safety switch       Yes         • maintenance/repair switch       Yes         color / of the actuating element       black         Product details       product feature         oclar / of the actuating element       black         Product details       Yes         number of bracket locks / maximum       3         hasp thickness / of the bracket locks / maximum       8 mm         product extension / optional       4 mm         nor drive       No         • voltage trigger       No         Short circuit       0         conditional short-circuit current / with line-side fuse protection       50 kA         according UL       25 A         operating voltage / at AC / at coording to UL 508/UL       600 V         508/UL 60947-4-1 / rated value       600 V         socket power [hp] / at AC / at 480 V / according to UL       10         508/UL 60947-4-1 / rated value       15         active power [hp] / at AC / at 600 V / according to UL       15		10 A
suitability for use     Yes       • main switch     Yes       • switch disconnector     Yes       • EMERGENCY OFF switch     No       • safety switch     Yes       • maintenance/repair switch     Yes       • maintenance/repair switch     Yes       Operatince     EMERGENCY OFF switch       color / of the actuating element     black       Product details     Product details       product feature     •       • can be locked into OFF position     Yes       number of bracket locks / maximum     3       hasp thickness / of the bracket locks / maximum     8 mm       product extension / optional     •       • woltor drive     No       • voltage trigger     No       Short circuit     So kA       according UL     25 A       operational current / at AC / at coording to UL     600 V       508/UL 60947-4-1 / rated value     600 V       obs/UL 60947-4-1 / rated value     10       active power (hp) / at AC / at 480 V / according to UL     10       508/UL 60947-4-1 / rated value     15	insulation voltage / of the auxiliary switch / rated value	500 V
main switch         Yes         switch disconnector         Yes         Switch disconnector         Yes         EMERGENCY OFF switch         No         safety switch         realntenance/repair switch         Yes          Appearance         color / of the actuating element         black          Product details          Product details          roduct feature         c can be locked into OFF position         Yes         number of bracket locks / maximum         3         hasp thickness / of the bracket locks / minimum         hasp thickness / of the bracket locks / maximum         sm         product extension / optional         emotor drive         voltage trigger         No         soldage trigger         No         soldage trigger         soldage         soldage trigger         soldage         soldage trigger         soldage         soldage         conditional short-circuit current / with line-side fuse         protection         soldage trigger         soldage         conditional current / at AC / at coording to UL         Sold KA         according UL         coperating voltage / at AC / at coording to UL         Sold/UL         Sold/L 60947-4-1 / rated value         active power (hp) / at AC / at 480 V / according to UL         Sold/UL         Sold/L 60947-4-1 / rated value         active power (hp) / at AC / at 480 V / according to UL         Sold/UL         Sold/UL         Sold/UL         soldy/L 60947-4-1 / rated value         active power (hp) / at AC / at 600 V / according to UL         Sold/UL	Suitability	
• switch disconnector     Yes       • EMERGENCY OFF switch     No       • safety switch     Yes       • maintenance/repair switch     Yes       Appearance     color / of the actuating element       color / of the actuating element     black       Product details     product feature       • can be locked into OFF position     Yes       number of bracket locks / maximum     3       hasp thickness / of the bracket locks / minimum     4 mm       hasp thickness / of the bracket locks / maximum     8 mm       product extension / optional     • wold of the uncertaint of the bracket locks / maximum       • motor drive     No       • voltage trigger     No       Short circuit     Corrolit current / with line-side fuse protection       • at 690 V / by gG fuse / rated value     50 kA       according UL     operational current / at AC / according to UL 508/UL 60947-4-1 / rated value       operational current / at AC / 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 480 V / according to UL 508/UL 60947-4-1 / rated value     15	suitability for use	
• EMERGENCY OFF switch       No         • safety switch       Yes         • maintenance/repair switch       Yes         Appearance       Color / of the actuating element         color / of the actuating element       black         Product details       product details         product feature       • can be locked into OFF position         Yes       Yes         number of bracket locks / maximum       3         hasp thickness / of the bracket locks / maximum       8 mm         product extension / optional       • motor drive         • notor drive       No         • voltage trigger       No         Short circuit       Conditional short-circuit current / with line-side fuse protection         • at 690 V / by gG fuse / rated value       50 kA         according UL       Operational current / at AC / according to UL 508/UL 60947-4-1 / rated value         operational current / at AC / at 50/60 Hz / according to UL 508/UL 60047-4-1 / rated value       600 V         operational current / by / at AC / at 600 Hz / according to UL 508/UL 60047-4-1 / rated value       10         color power [hp] / at AC / at 600 V / according to UL 508/UL 60047-4-1 / rated value       10         active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value       10         Sob/UL 60947-4-1 / rated val	main switch	Yes
• safety switch     Yes       • maintenance/repair switch     Yes       Appearance     color / of the actuating element     black       Product details     product feature     -       product feature     -     -       • can be locked into OFF position     Yes       number of bracket locks / maximum     3       hasp thickness / of the bracket locks / maximum     8 mm       product extension / optional     •       • woltage trigger     No       Short circuit     Voltage trigger       coording UL     0perational current / with line-side fuse protection       • at 690 V / by gG fuse / rated value     50 kA       according UL     0perational 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	<ul> <li>switch disconnector</li> </ul>	Yes
maintenance/repair switch Yes  Appearance color / of the actuating element black Product details product feature     e can be locked into OFF position     rumber of bracket locks / maximum     hasp thickness / of the bracket locks / minimum     hasp thickness / of the bracket locks / maximum     hasp thickness / of the bracket locks / maximum     hasp thickness / of the bracket locks / maximum     hasp thickness / of the bracket locks / maximum     hasp thickness / of the bracket locks / maximum     hasp thickness / of the bracket locks / maximum     hasp thickness / of the bracket locks / maximum     hasp thickness / of the bracket locks / maximum     hasp thickness / of the bracket locks / maximum     forduct extension / optional         e motor drive         voltage trigger         No         Short circuit     conditional short-circuit current / with line-side fuse     protection         e at 680 V / by gG fuse / rated value         So kA     according UL     operational current / at AC / according to UL         SoBVUL 60947-4-1 / rated value         active power [hp] / at AC / at 480 V / according to UL         SoBVUL 60947-4-1 / rated value         active power [hp] / at AC / at 480 V / according to UL         SoBVUL 60947-4-1 / rated value         active power [hp] / at AC / at 480 V / according to UL         SoBVUL 60947-4-1 / rated value	<ul> <li>EMERGENCY OFF switch</li> </ul>	No
Appearance       color / of the actuating element     black       Product details       product feature     • can be locked into OFF position       number of bracket locks / maximum     3       hasp thickness / of the bracket locks / minimum     4 mm       hasp thickness / of the bracket locks / maximum     8 mm       product extension / optional     • motor drive       • woltage trigger     No       Short circuit     Stort circuit       conditional short-circuit current / with line-side fuse protection     • at 690 V / by gG fuse / rated value       operational current / at AC / according to UL 508/UL 60947-4-1 / rated value     600 V       ober 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 480 V / according to UL 508/UL 60947-4-1 / rated value     15	<ul> <li>safety switch</li> </ul>	Yes
color / of the actuating element     black       Product details       product feature     • can be locked into OFF position       • can be locked into OFF position     Yes       number of bracket locks / maximum     3       hasp thickness / of the bracket locks / minimum     4 mm       hasp thickness / of the bracket locks / maximum     8 mm       product extension / optional     • motor drive       • motor drive     No       • voltage trigger     No       Short circuit       conditional short-circuit current / with line-side fuse       protection     • at 690 V / by gG fuse / rated value       operational current / at AC / according to UL 508/UL     25 A       operating voltage / at AC / at 50/60 Hz / according to UL     600 V       508/UL 60947-4-1 / rated value     600 V       obs/UL 60947-4-1 / rated value     10       active power [hp] / at AC / at 480 V / according to UL     15       508/UL 60947-4-1 / rated value     15	<ul> <li>maintenance/repair switch</li> </ul>	Yes
Product details         product feature         • can be locked into OFF position         number of bracket locks / maximum         1 hasp thickness / of the bracket locks / minimum         4 mm         hasp thickness / of the bracket locks / maximum         8 mm         product extension / optional         • motor drive         • voltage trigger         No         Short circuit         conditional short-circuit current / with line-side fuse         protection         • at 690 V / by gG fuse / rated value         50 kA         according UL         operational current / at AC / according to UL 508/UL         600 V         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         active power [hp] / at AC / at 600 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	Appearance	
product feature       Yes         number of bracket locks / maximum       3         hasp thickness / of the bracket locks / minimum       4 mm         hasp thickness / of the bracket locks / maximum       8 mm         product extension / optional       8 mm         • motor drive       No         • voltage trigger       No         Short circuit       0         conditional short-circuit current / with line-side fuse protection       50 kA         according UL       25 A         operational current / at AC / according to UL 508/UL       600 V         508/UL 60947-4-1 / rated value       600 V         active power [hp] / at AC / at 480 V / according to UL       10         508/UL 60947-4-1 / rated value       15         active power [hp] / at AC / at 600 V / according to UL       15	color / of the actuating element	black
• can be locked into OFF position       Yes         number of bracket locks / maximum       3         hasp thickness / of the bracket locks / minimum       4 mm         hasp thickness / of the bracket locks / maximum       8 mm         product extension / optional       8 mm         • motor drive       No         • voltage trigger       No         Short circuit       0         conditional short-circuit current / with line-side fuse protection       • at 690 V / by gG fuse / rated value         operational current / at AC / according to UL 508/UL       25 A         60947-4-1 / rated value       600 V         operating voltage / at AC / at 50/60 Hz / according to UL       508/UL 60947-4-1 / rated value         active power [hp] / at AC / at 600 V / according to UL       10         508/UL 60947-4-1 / rated value       15	Product details	
number of bracket locks / maximum       3         hasp thickness / of the bracket locks / minimum       4 mm         hasp thickness / of the bracket locks / maximum       8 mm         product extension / optional       8 mm         • motor drive       No         • voltage trigger       No         Short circuit       No         conditional short-circuit current / with line-side fuse protection       50 kA         according UL       50 kA         operating voltage / at AC / according to UL 508/UL 60947-4-1 / rated value       600 V         soBvUL 60947-4-1 / rated value       10         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	product feature	
hasp thickness / of the bracket locks / minimum       4 mm         hasp thickness / of the bracket locks / maximum       8 mm         product extension / optional       8 mm         • motor drive       No         • voltage trigger       No         Short circuit       No         conditional short-circuit current / with line-side fuse protection       50 kA         according UL       50 kA         operational current / at AC / according to UL 508/UL 60947-4-1 / rated value       600 V         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 600 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	<ul> <li>can be locked into OFF position</li> </ul>	Yes
hasp thickness / of the bracket locks / maximum       8 mm         product extension / optional       No         • motor drive       No         • voltage trigger       No         Short circuit       No         conditional short-circuit current / with line-side fuse protection       • at 690 V / by gG fuse / rated value         • at 690 V / by gG fuse / rated value       50 kA         according UL       25 A         operational current / at AC / according to UL 508/UL       600 V         508/UL 60947-4-1 / rated value       600 V         active power [hp] / at AC / at 50/60 Hz / according to UL       10         508/UL 60947-4-1 / rated value       15	number of brooket looke / movimum	
product extension / optional       No         • motor drive       No         • voltage trigger       No         Short circuit       No         conditional short-circuit current / with line-side fuse protection       • at 690 V / by gG fuse / rated value         • at 690 V / by gG fuse / rated value       50 kA         according UL       50 kA         operational current / at AC / according to UL 508/UL       25 A         60947-4-1 / rated value       600 V         operating voltage / at AC / at 50/60 Hz / according to UL       600 V         508/UL 60947-4-1 / rated value       10         active power [hp] / at AC / at 600 V / according to UL       10         508/UL 60947-4-1 / rated value       15	number of bracket locks / maximum	3
• motor driveNo• voltage triggerNoShort circuitconditional short-circuit current / with line-side fuse protection• at 690 V / by gG fuse / rated value50 kAaccording ULoperational current / at AC / according to UL 508/UL 60947-4-1 / rated value25 Aoperating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value600 Vactive power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value10active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value15		
• voltage triggerNoShort circuitconditional short-circuit current / with line-side fuse protection• at 690 V / by gG fuse / rated value50 kAaccording ULoperational current / at AC / according to UL 508/UL 60947-4-1 / rated value25 Aoperating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value600 Vactive power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value10active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value15	hasp thickness / of the bracket locks / minimum	4 mm
Short circuit         conditional short-circuit current / with line-side fuse protection         • at 690 V / by gG fuse / rated value         50 kA         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         active power [hp] / at AC / at 600 V / according to UL         508/UL 60947-4-1 / rated value	hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum	4 mm
conditional short-circuit current / with line-side fuse protection50 kA• at 690 V / by gG fuse / rated value50 kAaccording UL25 Aoperational current / at AC / according to UL 508/UL 60947-4-1 / rated value25 Aoperating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value600 Vactive power [hp] / at AC / at 480 V / according to UL 	hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional	4 mm 8 mm
protection50 kAaccording UL50 kAaccording UL25 Aoperational current / at AC / according to UL 508/UL 60947-4-1 / rated value25 Aoperating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value600 Vactive power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value10active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value15	hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive	4 mm 8 mm No
• at 690 V / by gG fuse / rated value50 kAaccording UL0operational current / at AC / according to UL 508/UL 60947-4-1 / rated value25 Aoperating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value600 Vactive power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value10active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value15	hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger	4 mm 8 mm No
according UL       operational current / at AC / according to UL 508/UL       25 A         60947-4-1 / rated value       coperating voltage / at AC / at 50/60 Hz / according to UL       600 V         operating voltage / at AC / at 50/60 Hz / according to UL       600 V       600 V         so8/UL 60947-4-1 / rated value       10       10         active power [hp] / at AC / at 480 V / according to UL       10         so8/UL 60947-4-1 / rated value       15         so8/UL 60947-4-1 / rated value       15	hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse	4 mm 8 mm No
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value25 Aoperating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value600 Vactive power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value10active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value15	hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection	4 mm 8 mm No No
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	hasp thickness / of the bracket locks / minimum         hasp thickness / of the bracket locks / maximum         product extension / optional         • motor drive         • voltage trigger         Short circuit         conditional short-circuit current / with line-side fuse protection         • at 690 V / by gG fuse / rated value	4 mm 8 mm No No
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	hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL	4 mm 8 mm No No 50 kA
508/UL 60947-4-1 / rated value	hasp thickness / of the bracket locks / minimum         hasp thickness / of the bracket locks / maximum         product extension / optional         • motor drive         • voltage trigger         Short circuit         conditional short-circuit current / with line-side fuse protection         • at 690 V / by gG 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	4 mm 8 mm No No 50 kA 25 A
short-time withstand current (SCCR) / at 600 V / according 5 kA	hasp thickness / of the bracket locks / minimum         hasp thickness / of the bracket locks / maximum         product extension / optional         • motor drive         • voltage trigger         Short circuit         conditional short-circuit current / with line-side fuse protection         • at 690 V / by gG 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 508/UL 60947-4-1 / rated value         active power [hp] / at AC / at 480 V / according to UL	4 mm 8 mm No No 50 kA 25 A 600 V
	hasp thickness / of the bracket locks / minimum         hasp thickness / of the bracket locks / maximum         product extension / optional         • motor drive         • voltage trigger         Short circuit         conditional short-circuit current / with line-side fuse protection         • at 690 V / by gG 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 508/UL 60947-4-1 / rated value         active power [hp] / at AC / at 480 V / according to UL 508/UL 508/UL 60947-4-1 / rated value         active power [hp] / at AC / at 600 V / according to UL 508/UL 508/UL 60947-4-1 / rated value	4 mm 8 mm No No 50 kA 25 A 600 V 10

to UL 508/UL 60947-4-1	50 A
continuous current / of upstream fuse / according to UL / rated value	50 A
type of fuse / according to UL	RK5
Number	
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 CO contacts / for auxiliary contacts / attachable / maximum	0
Connections	
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 (1,510mm <sup>2</sup> )
stranded	1x (1,516mm²)
type of connectable conductor cross-sections / for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary
• finely stranded / with core end processing	switch 1x (0,75 2,5mm <sup>2</sup> ) lateral auxiliary switch 2x (0,75 1,5mm <sup>2</sup> ), 1x 2,5mm <sup>2</sup> ; front auxiliary switch 1x 2,5mm <sup>2</sup>
• stranded	lateral auxiliary switch 2x (0,75 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 2,5mm <sup>2</sup> )
type of electrical connection	
for main current circuit	box terminal
<ul> <li>for auxiliary contacts</li> </ul>	connection terminals
Requirements	
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
Mechanical Design	
height	188 mm
width	146 mm
depth	149 mm
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
General Product Approval	
entern i reader ipprova	
Confirmation CSA	
General Product Declaration of Conformity	Test Certificates Marine / Shipping other

Approval

EHC





Miscellaneous



Environmental Confirmations

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=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, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2165-4VD51 CAx-Online-Generator http://www.siemens.com/cax Tender specifications

http://www.siemens.com/specifications





