3LD2164-1GP51-0US2

Data sheet



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

power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W	Model	
design of the product display version for switch position indicator manual operation 1 ON - 0 OF 1 OP 1 1 ON - 0 OF 1 OP 1 1 ON - 0 OF 1 O	product brand name	SENTRON
display version for switch position indicator manual operation 1 ON - 0 OFF	product designation	Switch disconnector
type of switch design of the actuating element Short rotary knob close of the actuating element Short rotary knob black design of handle rotary operating mechanism, black type of the driving mechanism motor drive No General technical data number of poles number of poles number of poles number of poles note size of switch disconnector 2 number of poles note size of switch disconnector 2 electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) at AC-23 At 690 V 6000 operating frequency maximum degree of pollution 3 Voltage insulation voltage resistance rated value operating voltage at AC rated value operating voltage at AC rated value operating frequency rated value minimum 60 Hz Protection class Protection class IP degree of protection NEMA rating protection class IP on the front IP65 degree of protection NEMA rating protection class IP on the front IP65 Desipation power loss [W] for rated value of the current at AC in hot operating state per pole AC 21 At 420 V rated value at AC-21 At 420 V rated value 25 A at AC-21 At 4400 V rated value at AC-21 At 4400 V rated value 25 A at AC-21 At 4400 V rated value	design of the product	Main switch
Short rotary knob	display version for switch position indicator manual operation	1 ON - 0 OFF
color of the actuating element black design of handle rotary operating mechanism, black type of the driving mechanism motor drive No Coneral technical data	type of switch	Molded-plastic enclosure for inch threaded joint
design of handle type of the driving mechanism motor drive No General technical data number of poles 3 number of poles PE size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 100 000 electrical endurance (operating cycles) 100 000 electrical endurance (operating cycles) 100 000 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 frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating state at value 690 V operating state oper operating state operating state oper operating state ope	design of the actuating element	Short rotary knob
type of the driving mechanism motor drive General technical data number of poles note size of switch disconnector 2 mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-21 At 809 V 600 V operating frequency maximum 50 1/h degree of pollution 3 Voltage • at AC rated value • minimum • maximum 50 Hz emaximum 51 Hz emaximum 52 Hz egore or 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 at AC-21 A at 240 V rated value 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 240 V rated value 25 A	color of the actuating element	black
Annumber of poles anumber of poles note size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) et at AC-23 A at 4690 V 6000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 600 Hz Protection class IP protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation Dissipation Ali Croutt 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 • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A	design of handle	rotary operating mechanism, black
number of poles 3 number of poles note PE size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 50 Vh insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating frequency rated value 690 V operating frequency rated value 690 V e at AC rated value 690 V operating frequency rated value 60 Hz e maximum 50 Hz e maximum 166 Hz Protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 DISSipation 1.1 W operating state per pole 4 AC-21 A at 240 V rated value 25 A e at AC-21 A at 240 V rated value 25 A e at AC-21 A at 440 V rated value 25 A e at AC-21 A at 440 V ra	type of the driving mechanism motor drive	No
number of poles note PE size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage 6 kV operating frequency rated value 690 V operating frequency rated value 60 Hz omaximum 50 Hz of maximum 60 Hz Protection class protection class IP IP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation Dower loss IVI for rated value of the current at AC in hot operating state per pole Main circuit Operational current at AC-21 at 690 V rated value 25 A at AC-21 At 240 V rated value 25 A at AC-21 At 41 400 V rate	General technical data	
size of switch disconnector 2	number of poles	3
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 690 V operating frequency rated value 600 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 operating 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	number of poles note	PE
electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum for the degree of pollution surge voltage resistance rated value operating voltage resistance rated value • at AC rated value • minimum • minimum • maximum Protection class IP degree of protection NEMA rating protection class IP on the front Dissipation Dissipation power loss [M] for rated value of the current at AC in hot operating state per pole • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 400 V rated value 25 A • at AC-21 A at 400 V rated value 25 A	size of switch disconnector	2
• at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution 3 Voltage Insulation voltage rated value Surge voltage resistance rated value 690 V surge voltage resistance rated value 690 V operating voltage • at AC rated value 690 V operating frequency rated value • minimum 50 Hz • maximum 60 Hz Protection class IP degree of protection NEMA rating protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit • 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 • 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 surge voltage resistance rated value operating voltage • at AC rated value operating frequency rated value • minimum • maximum 50 Hz • maximum 50 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 operating at 40 V rated value 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 400 V rated value 25 A	electrical endurance (operating cycles)	
degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 6 kV 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 • 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	• at AC-23 A at 690 V	6 000
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 50 Hz ■ maximum 1965 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 440 V rated value 25 A	operating frequency maximum	50 1/h
insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage • at AC rated value 690 V operating frequency rated value • minimum • maximum 50 Hz • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 At 240 V rated value • at AC-21 At 4400 V rated value • at AC-21 At 4400 V rated value • at AC-21 At 4400 V rated value • 25 A • at AC-21 At 4400 V rated value	degree of pollution	3
surge voltage resistance rated value operating voltage	Voltage	
operating voltage	insulation voltage rated value	690 V
 at AC rated value operating frequency rated value minimum maximum 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP on the front Dissipation 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 	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	operating voltage	
	at AC rated value	690 V
● maximum Frotection 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 ● at AC-21 A at 240 V rated value ● at AC-21 A at 400 V rated value ● at AC-21 A at 400 V rated value ● at AC-21 A at 400 V rated value 25 A • at AC-21 A at 400 V rated value 25 A	operating frequency rated value	
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 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 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 • 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
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
 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 25 A 	Main circuit	
 at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value 25 A 	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

at AC-23 A at 400 V rated value	20 A
operating power	40 A
at AC-23 A at 240 V rated value	5 kW
at AC-23 A at 400 V rated value	10 kW
• at AC-23 A at 440 V rated value	9.5 kW
• at AC-23 A at 690 V rated value	10 kW
at AC-3 at 240 V rated value	4 kW
at AC-3 at 240 V rated value at AC-3 at 400 V rated value	8 kW
at AC-3 at 490 V rated value	7.5 kW
Auxiliary circuit	1.5 KW
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
operating voltage of auxiliary contacts at AC maximum	500 V
continuous current of the auxiliary contact rated value	10 A
insulation voltage of the auxiliary switch rated value	500 V
Suitability	000 V
suitability for use	
main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
motor drive	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts	2
attachable maximum	
number of connectable NO contacts for auxiliary contacts attachable maximum	3
number of connectable NO contacts for auxiliary contacts	0
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts	
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks	0
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum	3
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection	0 3 4 8 mm
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value	3
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch	0 3 4 8 mm
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible I2t value with closed switch	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA2.s 4 kA2.s 4 kA2.s
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA fuse gL/gG: 25 A
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA the state of the state
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum o at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum o at 690 V for combination switch	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA tuse gL/gG: 25 A fuse gL/gG: 10 A
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum o at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum o at 690 V for combination switch + gG fuse maximum o at 690 V for combination switch + gG fuse maximum design of the fuse link o for short-circuit protection of the main circuit required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1	0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A 25 A
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum cat 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum eat 690 V for combination switch + gG fuse maximum operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL	3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA2.s 4 kA2.s 5 kA 4 kA2.s 4 kA2.s 7 kA2.s 7 kA3.s
number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum cat 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-	3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA2.s 4 kA2.s 4 kA2.s 7 tuse gL/gG: 25 A 7 fuse gL/gG: 10 A 25 A

508/UL 60947-4-1	
	FO A
continuous current of upstream fuse according to UL rated value	50 A RK5
type of fuse according to UL	RN3
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)
 finely stranded with core end processing 	1x (1,510mm²)
• stranded	1x (1,516mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
type of electrical connection	
• for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	164 mm
width	100 mm
depth	118 mm
type of device	fixed mounting
fastening method	Complete unit in enclosure
fastening method	
 4-hole front mounting 	No
 front mounting with central attachment 	Yes
• rail mounting	No
net weight	489 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







Miscellaneous

<u>Miscellaneous</u>



other

Environment

Miscellaneous

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=3LD2164-1GP51-0US2

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2164-1GP51-0US2

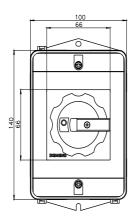
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2164-1GP51-0US2

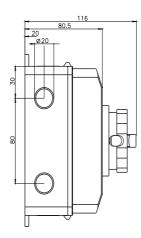
CAx-Online-Generator

http://www.siemens.com/cax

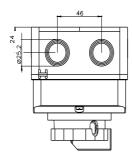
Tender specifications

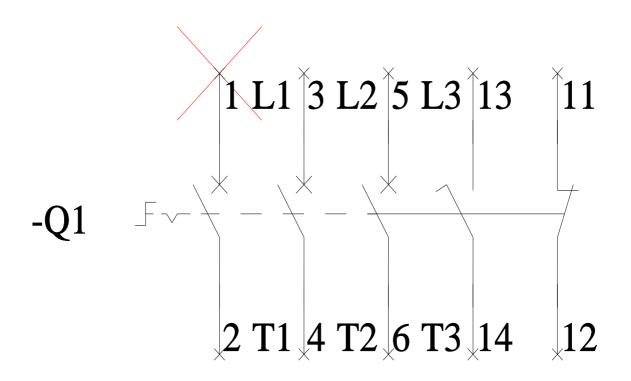
http://www.siemens.com/specifications



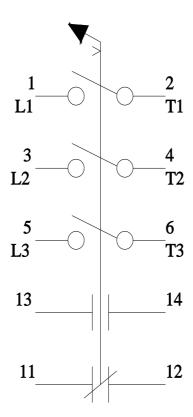












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