SIEMENS

Product data sheet 3LD2165-3VB51



MAIN SWITCH 6-POLE IU=25, P/AC-23A AT 400V=9,5KW 2 N-TERMINAL MOULDED-PLASTIC ENCLOSURED, IP65

Similar to image

General technical details:		
product brand name		SENTRON
product designation		main and EMERGENCY-OFF switches
Type from device		fixed mounting
Design of the operating mechanism		rotary actuator, black
Protection class IP		IP65
Number of poles		6
Acceptability for application		
• switch disconnector		Yes
• main switch		Yes
• safety cut-out switch		Yes
emergency stop switch		No
maintenance/repair switch		Yes
Product equipment / interlock		Yes
Type of the driving mechanism / motor drive		No
Product extension / optional		
• motor drive		No
voltage trigger		No
Ambient temperature / during operating	°C	-25 +55

Impulse voltage resistance / rated value Active power loss / per conductor / typical Mechanical operating cycles as operating time / of the main contacts / typical Protoction against electrical shock Item designation / according to DIN EN 61346-2 Bern designation / according to DIN EN 61346-2 Solution of the main contacts / typical Main circuit: Continuous current / rated value Operating current / at Ac-21 / rated value Operating frequency Operating frequency Operating rother / at Ac-23 A - at 400 V / rated value Service power / at Ac-23 A - at 400 V / rated value Operating cycles / maximum Autiliary circuit: Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Continuous current / of the auxiliary contacts / for auxiliary contacts Continuous current / of the auxiliary contacts / for Ac / maximum Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary switch / rated value Number of In contacts / for auxiliary contacts Continuous current / of the auxiliary contacts / for auxiliary contacts / for auxiliary contacts Continuous current / of the auxiliary contacts / for Ac / maximum Number of thing contact / for auxiliary contacts Continuous current / of the auxiliary contacts / for Ac / maximum Number of the contacts / for auxiliary contacts Continuous current / of the auxiliary contact / for Ac / maximum V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the main circuit / necessary From mounting with central fisation From mounting with central fisation From mounting with central fisation No	Insulation voltage / rated value	V	690
Mechanical operating cycles as operating time / of the main contacts / typical Protection against electrical shock Item designation / according to DIN 40719 extendable after IEC 204-2 / according to EC 750 Main circuit: Continuous current / rated value Operating current / at AC-21 / rated value Operating frequency Operating requency Operating requency Operating value / a 50	Impulse voltage resistance / rated value	V	6,000
contacts / typical Protection against electrical shock Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Main circuit: Continuous current / rated value Operating current / at AC-21 / rated value A	Active power loss / per conductor / typical	W	1.1
Item designation / according to DIN EN 61346-2 S			100,000
Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Main circuit: Continuous current / rated value A 25 Short-time current resistance (Icw) / at 690 V / limited to 1 s / rated value Operating frequency Hz 50 60 Operating requency Hz 50 60 Operating voltage / at 50/60 Hz / for AC / rated value V 690 Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • by 5 Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Continuous current / of the auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contact / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/climensions: Type of mounting • front mounting • front mounting	Protection against electrical shock		finger-safe
Main circuit: Continuous current / rated value A 25 Operating current / at AC-21 / rated value A 25 Short-time current resistance (icw) / at 690 V / limited to 1 s / rated value Operating frequency Hz 50 60 Operating voltage / at 50/60 Hz / for AC / rated value V 690 Service power / at AC-3 - at 400 V / rated value A 26 Service power / at AC-3 - at 400 V / rated value Service power / at AC-3 - at 400 V / rated value A 25 Service power / at AC-3 - at 400 V / rated value KW 7.5 Service power / at AC-23 A - at 400 V / rated value A 290 Operating cycles / maximum In b 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting floor mounting floor mounting floor mounting floor mounting	Item designation / according to DIN EN 61346-2		S
Continuous current / rated value Operating current / at AC-21 / rated value A 25 Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating frequency Operating voltage / at 50/60 Hz / for AC / rated value Operating voltage / at 50/60 Hz / for AC / rated value Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • by 5. Operating cycles / maximum 1 //h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts O 0 Number of NC contacts / for auxiliary contacts O 0 Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value Operating voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / racessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • foor mounting • foor mounting			S
Operating current / at AC-21 / rated value Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating frequency Operating voitage / at 50/60 Hz / for AC / rated value V 690 Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • by V / rated value • continuous current / of the auxiliary contacts • continuous current / of the auxiliary contacts / for AC / maximum • by Soo Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • foor mounting • foor mounting	Main circuit:		
Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating frequency Operating requency Operating voltage / at 50/60 Hz / for AC / rated value V 690 Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • by 55 Operating cycles / maximum 1 /h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • foor mounting • foor mounting	Continuous current / rated value	А	25
Operating frequency Operating voltage / at 50/60 Hz / for AC / rated value V 690 Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • kW 9.5 Operating cycles / maximum In 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of Ange-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contact / rated value Operating voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting	Operating current / at AC-21 / rated value	Α	25
Operating voltage / at 50/60 Hz / for AC / rated value Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value • at 400 V / rated value • at 400 V / rated value • at 690 V / rated value • Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contact / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting • floor mounting • floor mounting No		А	640
Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value • by 9.5 Operating cycles / maximum Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting • floor mounting • floor mounting	Operating frequency	Hz	50 60
• at 400 V / rated value • at 690 V / rated value Service power / at AC-23 A • at 400 V / rated value • at 690 V / rated value Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Continuous current / of the auxiliary contacts / 0 Operating voltage / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value V So Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting If loor mounting	Operating voltage / at 50/60 Hz / for AC / rated value	V	690
- at 690 V / rated value	Service power / at AC-3		
Service power / at AC-23 A • at 400 V / rated value • at 690 V / rated value • at 690 V / rated value Number of NC contacts / for auxiliary contacts O	• at 400 V / rated value	kW	7.5
• at 400 V / rated value • at 690 V / rated value Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts O	• at 690 V / rated value	kW	7.5
• at 690 V / rated value Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O 0 Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting Insulation voltage / of the auxiliary switch / required Installation/mounting/dimensions:	Service power / at AC-23 A		
Auxiliary circuit:	• at 400 V / rated value	kW	9.5
Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contacts / for AC / maximum Insulation voltage / of the auxiliary switch / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting Insulation / No	• at 690 V / rated value	kW	9.5
Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting Installation / No	Operating cycles / maximum	1/h	50
Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting No	Auxiliary circuit:		
Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting floor mounting No	Number of NC contacts / for auxiliary contacts		0
Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting No	Number of NO contacts / for auxiliary contacts		0
Operating voltage / of the auxiliary contacts / for AC / maximum Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting No	Number of change-over switches / for auxiliary contacts		0
Insulation voltage / of the auxiliary switch / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting No	Continuous current / of the auxiliary contact / rated value	Α	10
Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting No	Operating voltage / of the auxiliary contacts / for AC / maximum	V	500
Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting No	Insulation voltage / of the auxiliary switch / rated value	V	500
Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting No	Short-circuit:		
Installation/mounting/dimensions: Type of mounting • front mounting No			fuse gL/gG: 25 A
Type of mounting • front mounting No			fuse gL/gG: 10 A
• front mounting No	Installation/mounting/dimensions:		
	Type of mounting		floor mounting
• front mounting with central fixation No	• front mounting		No
	front mounting with central fixation		No

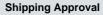
• front mounting with 4-hole fixation		No
• series installation		No
Rail installation		No
Width	mm	146
Height	mm	188
Depth	mm	149

Connection type:	
Design of the electrical connection / for main current circuit	connection terminals
Design of the electrical connection / for auxiliary contact	connection terminals
Type of the connectable conductor cross-section / for main contacts	
• finely stranded / with conductor end processing	10 mm ²
Type of connectable conductor cross section / for auxiliary contacts	
• solid	2x (0.75 to 2.5 mm2), 1x 4 mm2
• stranded	2x (0.75 2.5 mm2), 1x 4 mm2

Certificates/approvals:				
Verification of suitability		CSA / UL / CCC / GL / LRS / DNV / PRS		
Conductor cross-section that can be connected / for main contacts / solid / minimum	mm²	1.5		
Conductor cross-section that can be connected / for main contacts / solid / maximum	mm²	16		
Conductor cross section that can be connected / for main contacts / stranded / minimum	mm²	1.5		
Conductor cross section that can be connected / for main contacts / stranded / maximum	mm²	16		
Conductor cross-section that can be connected / for main contacts / stranded wire / with conductor end processing / maximum	mm²	10		
Conductor cross-section that can be connected / for auxiliary contact / solid / minimum	mm²	0.75		
Conductor cross-section that can be connected / for auxiliary contact / solid / maximum	mm²	4		
Conductor cross-section that can be connected / for auxiliary contact / finely stranded / with conductor end processing / minimum	mm²	0.75		
Conductor cross-section that can be connected / for auxiliary contact / finely stranded / with conductor end processing / maximum	mm²	2.5		
Conductor cross section that can be connected / for auxiliary contacts / stranded / min.	mm²	0.75		
Conductor cross section that can be connected / for auxiliary contacts / stranded / max.	mm²	4		

Certificates/approvals:

General Product Approval















other

Declaration of
ConformityEnvironmental
Confirmations

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/lowvoltage/mall

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

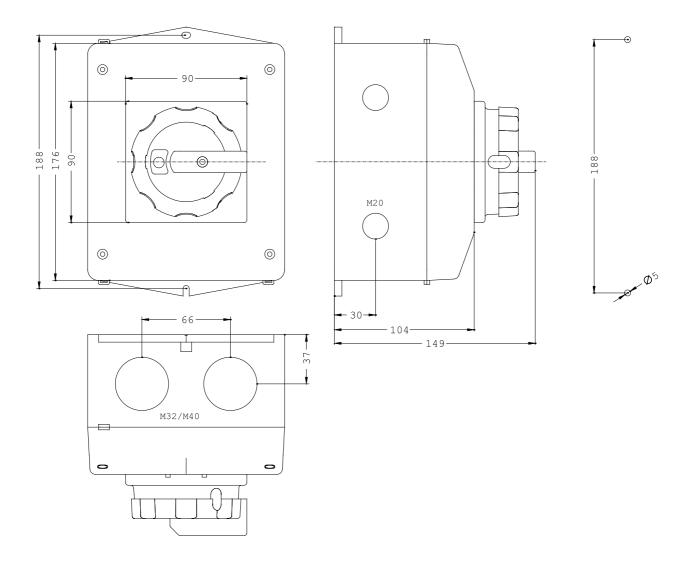
http://support.automation.siemens.com/WW/view/en/3LD2165-3VB51/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2165-3VB51

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