## SIEMENS

## **Product data sheet**

## 3LD2565-0TB51



MAIN CONTROL SWITCH 3-POLE IU=63, P/AC-23A AT 400V=22KW 1 N-TERMINAL + 1 PE-TERMINAL ENCAPSUL.IN M.P.ENCLOSURE, IP65 ROTARY ACTUATOR BLACK METRIC THREAD

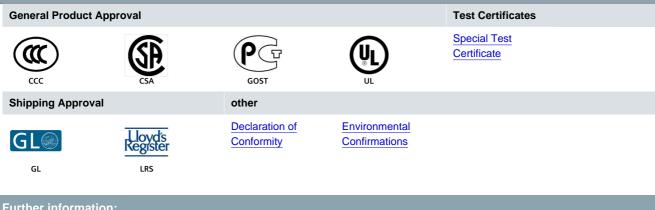
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General technical details:				
product brand name		SENTRON		
Product designation		main and EMERGENCY-OFF switches		
Design of the operating mechanism		rotary actuator, black		
Type from device		fixed mounting		
Protection class IP		IP65		
Number of poles		3		
Mounting type		floor mounting		
front mounting		No		
rail mounting		No		
series installation		No		
Insulation voltage / rated value	V	690		
Continuous current / rated value	А	63		
Product equipment / interlock		Yes		
Design of the electrical connection				
<ul> <li>for auxiliary contact</li> </ul>		connection terminals		
for main current circuit		connection terminals		
Type of the driving mechanism / motor drive		No		
Number of NC contacts / for auxiliary contacts		0		

Number of NO contacts / for auxiliary contacts         0           Number of changeover contacts / for auxiliary contacts         0           Operating surfacts         A           Solutiary contacts / for Auxiliary contacts         A           Operating surfacts / for AC / maximum         V           • of the auxiliary contacts / for AC / maximum         V           • of the auxiliary contacts / for AC / maximum         V           • of the auxiliary contacts / for AC / maximum         V           • of the auxiliary contacts / for AC / maximum         V           • of the auxiliary contacts / for AC / maximum         V           • of the auxiliary contacts / for AC / maximum         V           • of the auxiliary contacts / for AC / maximum         V           • at 400 V / raide value         kW           Short-time current resistance (few) / at 690 V / limited to 1 s / raide value         A           Operating cycles as operating time / of the main contacts / typical         mm           with the for short-circuit protection of the auxiliary switch / required         100,000           Connectable conductor ross-section         istanded we / with conductor end processing / maximum         mm <sup>2</sup> • stranded         mm <sup>2</sup> 25 35           • stranded we / with conductor end processing / maximum         16 <t< th=""><th>Impulse voltage resistance / rated value</th><th>V</th><th>6,000</th></t<>	Impulse voltage resistance / rated value	V	6,000
Operating current / at AC-21 / rated valueA63Operating voltage-• of the auxiliary contacts / for AC / maximumV500• at 50050 Hz / for AC / rated valueV500Service power / at AC-3-• at 400 V / rated valueVW15.5• at 680 V / rated valueKW15.5Short-time current resistance (tow) / at 690 V / limited to 1 s / rated valueA1200Depthmm149Heightmm149With10.0000100.000With10.0000100.000Active power loss / per conductor / typicalW4.5Connectable conductor / typicalW4.5• for main contacts	Number of NO contacts / for auxiliary contacts	-	0
Operating voltageV500• of the auxiliary contacts / for AC / maximumV500• at 50050 Hz / for AC / rated valueV660Service power / at AC-3	Number of changeover contacts / for auxiliary contacts	-	0
of the auxiliary contacts / for AC / maximumV500at 5080 Hz / for AC / rated valueV690Service power / at AC-3KW18.5- at 400 V / rated valueKW15Short-time current resistance (low) / at 690 V / limited to 1 s / rated valueA1,260Depthmm149Heightmm149Mitching16100.000Kirkithmm100.000Active power loss / per conductor / typicalW4.5Active power loss / per conductor / typicalW4.5Northed waluemm2.5 35- inf anio contactsmm²2.5 35- inf anio contactsmm²2.5 35- inf anio contactsmm²2.5 35- inf anio contactsmm²0.75 2.5- inf anio contactsmm²0.75 2.5- inf anio contactsmm²0.75 4- inf and y standedmm²0.75 4.5- inf and y standedmm²0.75 4- inf anio contactsmm²0.75 4.15- inf anio contactsmm²0.75 4.15- inf anio contactsmm²0.75 4.15- inf and y standedmm²0.75 4.5- inf anio contactsmm²0.75 4.5- inf anio contactsma²0.75 4.5- inf anio contactsma²0.75 1.5 mm2, 1x 2.5 mm2- inf anio contactsma²0.75 4.55- inf anio contactsma²0.75 4.55 <td< td=""><td>Operating current / at AC-21 / rated value</td><td>A</td><td>63</td></td<>	Operating current / at AC-21 / rated value	A	63
variationV690Service power / at AC-3	Operating voltage	_	
Service power / at AC-3         Mathematical action of the second of	<ul> <li>of the auxiliary contacts / for AC / maximum</li> </ul>	V	500
At 400 V / rated valueKW18.5i at 690 V / rated valueKW15Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated valueA1,260DepthMm199WidthMm199WidthMm146Mechanical operating cycles as operating time / of the main contacts / typicalMV4.5Design of the fuse link / for short-circuit protection of the axiliary switch / requiredMV4.5Design of the fuse link / for short-circuit protection of the axiliary switch / requiredMV535• for main contactsMm²2.535• for main contactsmm²2.535• for axiliary switch / requiredmm²0.752.5• for axiliary contactmm²0.752.5• for axiliary contactmm²0.754• with conductor end processing / maximummm²0.754• for axiliary contactmm²0.754• for axiliary contactsmm²0.754• for axiliary contactsmm²0.754• for axiliary contacts2.4.07515 mm2). 1x 2.5 mm2• for axiliary contactsmm²0.754• for axiliary contacts2.4.07515 mm2). 1x 2.5 mm2• for axiliary contactsmm²0.754• for axiliary contactsmm² </td <td>• at 50/60 Hz / for AC / rated value</td> <td>V</td> <td>690</td>	• at 50/60 Hz / for AC / rated value	V	690
• at 690 V / rated valueNW15Short-time current resistance (low) / at 690 V / limited to 1 s / rated valueA1,260Depthmm149Heightmm149Widthmm146Mechanical operating cycles as operating time / of the main contacts / typical0m146Active power loss / per conductor / typicalW4.5Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredMm2.5• for main contactsmm²2.535• for main contactsmm²2.536• for auxiliary switch / with conductor end processing / maximum • for auxiliary switchmm²0.7525• for auxiliary switchmm²0.754• for auxiliary contactmm²0.754• for auxiliary contactsmm²0.754• for auxiliary contacts	Service power / at AC-3	-	
Short-time current resistance (icw) / at 690 V / limited to 1 s / rated valueA1,260Depthmm149Heightmm199Withmm146Mechanical operating cycles as operating time / of the main contacts / typical00,000Active power loss / per conductor / typicalW4.5Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredMm2.535Connectable conductor cross-section · for main contactsmm22.535· for main contactsmm22.535· strandedmm21.6· tor auxiliary contact · finely strandedmm20.754· for auxiliary contact · finely strandedmm20.754· for auxiliary contact · finely strandedmm22.535· for auxiliary contact · finely strandedmm20.754· for auxiliary contact · finely strandedmm20.754· for auxiliary contact · finely stranded / with conductor end processing · strandedmm20.754· for auxiliary contacts · finely stranded / with conductor end processingmm20.754· for auxiliary contacts · finely stranded / with conductor end processingmm215· for auxiliary contacts · finely stranded / with conductor end processingmm20.754· for auxiliary contacts · finely stranded / with conductor end processingmm215· for auxiliary contacts · finely stranded / with conductor end processingmm215·	• at 400 V / rated value	kW	18.5
rated valueImage: standed science: standed science: standed with conductor end processing science: standed with conductor end processing science: standed science: scie	• at 690 V / rated value	kW	15
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We We We the Mechanical operating cycles as operating time / of the main contacts / typicalmm146Mechanical operating cycles as operating time / of the main contacts / typical100,000Active power loss / per conductor / typicalW4.5Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredW4.5Connectable conductor cross-section · for main contactsmm22.535· for main contactsmm22.535· strandedmm22.535· stranded wire / with conductor end processing / maximum · for auxiliary contactmm20.752.5· with conductor end processing / maximum · strandedmm20.754· with conductor end processingmm20.754· with conductor end processingmm20.754· with conductor end processingmm20.754· transedmm20.754· transedmm20.754· transedmm20.754· transet2x (0.751.5 mm2), 1x 2.5 mm2· transetmm20.754· transetinsel - safe· transetmm20.754· transetinsel - safe· transetinsel - safe· transetinsel - safe· transetinser-safe· transetinser-safe· transetinser-safe· transetinser-safe· transetinser-safe· transetinser-safe· transetinser-safe <td>Depth</td> <td>mm</td> <td>149</td>	Depth	mm	149
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contacts / typicalintermediateActive power loss / per conductor / typicalW4.5Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredfuse gL/gG: 10 AConnectable conductor cross-sectionFuse gL/gG: 10 A• for main contactsmm <sup>2</sup> 2.5 35• single- or multi-strandedmm <sup>2</sup> 2.5 35• stranded wire / with conductor end processing / maximummm <sup>2</sup> 2.5 35• for auxiliary contactmm <sup>2</sup> 0.75 4• with conductor end processing / maximummm <sup>2</sup> 0.75 4• with conductor end processingmm <sup>2</sup> 0.75 4• with conductor end processingmm <sup>2</sup> 0.75 4• strandedmm <sup>2</sup> 0.75 4• strandedmm <sup>2</sup> 2x (0.75 15 mm2), 1x 2.5 mm2• finely strandedmm <sup>2</sup> 2x (0.75 15 mm2), 1x 2.5 mm2• for auxiliary contactsmm <sup>2</sup> 2x (0.75 15 mm2), 1x 2.5 mm2• finely stranded / with conductor end processing2x (0.75 15 mm2), 1x 2.5 mm2• for auxiliary contacts2x (0.75 15 mm2), 1x 2.5 mm2• finely stranded / with conductor end processing2x (0.75 15 mm2), 1x 2.5 mm2• for auxiliary contacts1/h50• for application1/h50• main switchYes• main switchYes	Width	mm	146
Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredfuse gL/gG: 10 AConnectable conductor cross-section • for main contacts • single- or multi-strandedmm²2.5 35• stranded • stranded wire / with conductor end processing / maximum • for auxiliary contact • finely strandedmm²2.5 35• with conductor end processing / maximum • for auxiliary contact • single- or multi-strandedmm²0.75 2.5• single- or multi-stranded • with conductor end processing / maximummm²0.75 4• for auxiliary contact • single- or multi-stranded • with conductor end processingmm²0.75 4• strandedmm²0.75 4• strandedmm²0.75 4• for auxiliary contacts • for a		_	100,000
auxiliary switch / requiredImage: Connectable conductor cross-sectionImage: Connectable conductor cross-section• for main contactsmm²2.5 35• single- or multi-strandedmm²2.5 35• stranded wire / with conductor end processing / maximummm²16• for auxiliary contactmm²0.75 2.5• with conductor end processing / maximummm²0.75 2.5• with conductor end processingmm²0.75 4• strandedmm²0.75 4• tor auxiliary contacts2x (0.75 1.5 mm2), 1x 2.5 mm2• for auxiliary contacts2x (0.75 1.5 mm2), 1x 2.5 mm2• for auxiliary contacts1/h50• for auxiliary contactsYes• for auxiliary contactsYes• for auxiliary contacts1/h50• for auxiliary contactsYes• for auxiliary contactsYes• for auxiliary contactsYes• for auxiliary contactsYes• fo	Active power loss / per conductor / typical	W	4.5
<ul> <li>for main contacts</li> <li>isingle- or multi-stranded</li> <li>istranded</li> <li>istranded</li> <li>istranded wire / with conductor end processing / maximum</li> <li>ifor auxiliary contact</li> <li>ifor auxiliary contact</li> <li>with conductor end processing</li> <li>mm2</li> <li>0.75 2.5</li> <li>isingle- or multi-stranded</li> <li>mm2</li> <li>0.75 4</li> <li< td=""><td></td><td></td><td>fuse gL/gG: 10 A</td></li<></ul>			fuse gL/gG: 10 A
• single- or multi-strandednm22.5 35• stranded wire / with conductor end processing / maximumnm22.5 35• for auxiliary contactmm216• for auxiliary contactmm216• finely strandedmm20.75 4• with conductor end processingmm20.75 4• with conductor end processingmm20.75 4• single- or multi-strandedmm20.75 4• strandedmm20.75 4• strandedmm20.75 4• finely stranded / with conductor end processingmm20.75 4• finely stranded / with conductor end processing°C0.50• finely stranded / with conductor end processing°C0.50• for auxiliary contactssco.1/h50• for auxiliary contactsin an aswitchYes• main switchin an aswitchYes• with disconnectorYesYes	Connectable conductor cross-section		
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• stranded wire / with conductor end processing / maximummm²16• for auxiliary contact• finely stranded• with conductor end processingmm²0.75 2.5• single- or multi-strandedmm²0.75 4• strandedmm²0.75 4• strandedmm²0.75 4• strandedmm²0.75 4• strandedmm²0.75 4• strandedmm²0.75 4• for auxiliary contacts• finely stranded / with conductor end processing-2x (0.75 1.5 mm2), 1x 2.5 mm2• finely stranded / with conductor end processing-2x (0.75 1.5 mm2), 1x 2.5 mm2• for auxiliary contacts50• forection against electrical shockIn50• main switchYes• main switch-YesYes	• single- or multi-stranded	mm²	2.5 35
• for auxiliary contactImage: Section and	• stranded	mm²	2.5 35
• finely strandedImm20.75 2.5• with conductor end processingmm20.75 4• single- or multi-strandedmm20.75 4• strandedmm20.75 4• strandedmm20.75 4• for auxiliary contactsmm20.75 4• finely stranded / with conductor end processingref2x (0.75 1.5 mm2), 1x 2.5 mm2• finely stranded / with conductor end processing°C-25 +55• for auxiliary contactsinger-safefinger-safe• for application1/h50• main switchresYes• switch disconnectorYesYes	<ul> <li>stranded wire / with conductor end processing / maximum</li> </ul>	mm²	16
• with conductor end processingmm20.75 2.5• single- or multi-strandedmm20.75 4• strandedmm20.75 4• strandedmm20.75 4Type of the connectable conductor cross-section • for auxiliary contacts• finely stranded / with conductor end processing-2x (0.75 1.5 mm2), 1x 2.5 mm2Ambient temperature / during operating°CProtection against electrical shockImage: safe-Operating cycles / maximum1/h50-Acceptability for application • main switch • switch disconnectorYesYes	• for auxiliary contact		
• single- or multi-strandedmm20.75 4• strandedmm20.75 4Type of the connectable conductor cross-section • for auxiliary contacts • finely stranded / with conductor end processing	finely stranded		
• strandedmm20.75 4• type of the connectable conductor cross-section • for auxiliary contacts • finely stranded / with conductor end processingImm2Imm2• finely stranded / with conductor end processing2x (0.75 1.5 mm2), 1x 2.5 mm2• Ambient temperature / during operating°C-25 +55• Protection against electrical shockImm2finger-safe• Operating cycles / maximum1/h50• main switch • switch disconnectorYesYes• switch disconnectorYesYes	<ul> <li>with conductor end processing</li> </ul>	mm²	0.75 2.5
Type of the connectable conductor cross-sectionImage: Section and the	• single- or multi-stranded	mm²	0.75 4
• for auxiliary contactsImage: Final stranded / with conductor end processingImage: Final strand stra	• stranded	mm²	0.75 4
• finely stranded / with conductor end processing2x (0.75 1.5 mm2), 1x 2.5 mm2Ambient temperature / during operating°C25 +55Protection against electrical shockImage: finger-safeOperating cycles / maximum1/h50Acceptability for applicationYes• main switchYes• switch disconnectorYes	Type of the connectable conductor cross-section		
Ambient temperature / during operating°C-25 +55Protection against electrical shockfinger-safeOperating cycles / maximum1/h50Acceptability for applicationYes• main switchYes• switch disconnectorYes	for auxiliary contacts		
Protection against electrical shockfinger-safeOperating cycles / maximum1/h50Acceptability for applicationYes• main switchYes• switch disconnectorYes	<ul> <li>finely stranded / with conductor end processing</li> </ul>		2x (0.75 1.5 mm2), 1x 2.5 mm2
Operating cycles / maximum     1/h     50       Acceptability for application     50       • main switch     Yes       • switch disconnector     Yes	Ambient temperature / during operating	°C	-25 +55
Acceptability for application     Yes       • main switch     Yes       • switch disconnector     Yes	Protection against electrical shock		finger-safe
main switch     switch disconnector     Yes	Operating cycles / maximum	1/h	50
• switch disconnector Yes	Acceptability for application		
	• main switch		Yes
maintenance/repair switch Yes	switch disconnector		Yes
	maintenance/repair switch		Yes

safety cut-out switch		Yes
emergency stop switch		No
Product extension / optional		
motor drive		No
voltage trigger		No
Mounting type		
<ul> <li>front mounting with central attachment</li> </ul>		Yes
front mounting with 4-hole attachment		No
Operating frequency		
initial value	Hz	50
• final value	Hz	60
Design of the fuse link / for short-circuit protection of the main circuit / necessary		fuse gL/gG: 63 A
Service power / at AC-23 A		
• at 400 V / rated value	kW	22
• at 690 V / rated value	kW	18.5
Insulation voltage / of the auxiliary switch / rated value	V	500
Continuous current / of the auxiliary contact / rated value	А	10
Item designation		
according to DIN EN 61346-2		S

Certificates/approvals:



**Further information:** 

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

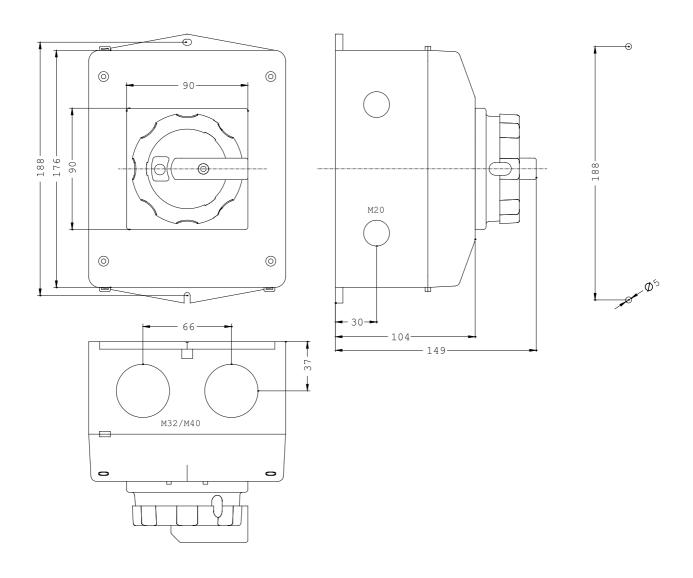
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3LD2565-0TB51

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3LD2565-0TB51/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2565-0TB51

## **CAx-Online-Generator**

http://www.siemens.com/cax



last change:

Apr 21, 2014