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Data sheet 3SE5242-0BC05-1AJ0



Position switch Plastic 50 mm Increased corrosion protection Device connection 2x (M20x 1.5) 1 NO/1 NC slow-action contacts Rounded plunger functional at -40 °C Shock and vibration test according to EN 61373, Category 1B

product brand name	SIRIUS
product designation	Mechanical position switches
product type designation	3SE5
manufacturer's article number	
● of the supplied switching contacts	3SE5000-0BA00
suitability for use safety switch	Yes
General technical data	
product function positive opening	Yes
insulation voltage rated value	400 V
degree of pollution	class 3
surge voltage resistance rated value	6 kV
protection class IP	IP66/IP67
shock resistance	
● **according to IEC 60068-2-27**	30g / 11 ms
● for railway applications according to EN 61373	Category 1, Class B
vibration resistance	
● **according to IEC 60068-2-6**	0.35 mm/5g
● for railway applications according to EN 61373	Category 1, Class B
mechanical service life (operating cycles) typical	15 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current	10 A
material of the enclosure of the switch head	plastic
reference code according to IEC 81346-2	B
continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A
continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
continuous current of the DIAZED fuse link gG	6 A
active principle	mechanical
repeat accuracy	0.05 mm
Substance Prohibitance (Date)	07/01/2006
Weight	0.1 kg
minimum actuating force in directions of actuation	20 N
length of the sensor	60.7 mm
width of the sensor	50 mm
Ambient conditions	
ambient temperature	
● during operation	-40 ... +85 °C
● during storage	-40 ... +90 °C
explosion protection category for dust	none
Main circuit	

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design of the switching contact	mechanical
operating frequency rated value	50 ... 60 Hz
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
operational current at AC-15	
● at 24 V rated value	6 A
● at 120 V rated value	6 A
● at 240 V rated value	6 A
● at 400 V rated value	4 A
operational current at DC-13	
● at 24 V rated value	3 A
● at 125 V rated value	0.55 A
● at 250 V rated value	0.27 A
● at 400 V rated value	0.12 A
Enclosure	
design of the housing	block, wide
material of the enclosure	plastic
coating of the enclosure	Other types
design of the housing according to standard	No
Drive Head	
design of the actuating element	Rounded plunger, plastic plunger
standard-compliant actuator head	EN 50047, design B
shape of the switch head	rounded
design of the switching function	positive opening
circuit principle	slow-action contacts
number of switching contacts safety-related	1
cable entry type	2x (M20 x 1.5)
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Connections/ Terminals	
type of electrical connection	screw terminal
type of connectable conductor cross-sections	
● solid	1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)
● finely stranded with core end processing	1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)
● for AWG cables solid	1x (20 ... 16), 2x (20 ... 18)
● for AWG cables stranded	1x (20 ... 16), 2x (20 ... 18)
design of the interface for safety-related communication	without
Communication/ Protocol	
design of the interface	without

Approvals Certificates

General Product Approval					Functional Saftey
CCC	EG-Konf.	UKCA	cULus	EAC	Type Examination Certificate

Test Certificates		other		Environment
Type Test Certificates/Test Report	Type Test Certificates/Test Report	Confirmation	产品合格 QC PASS	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)

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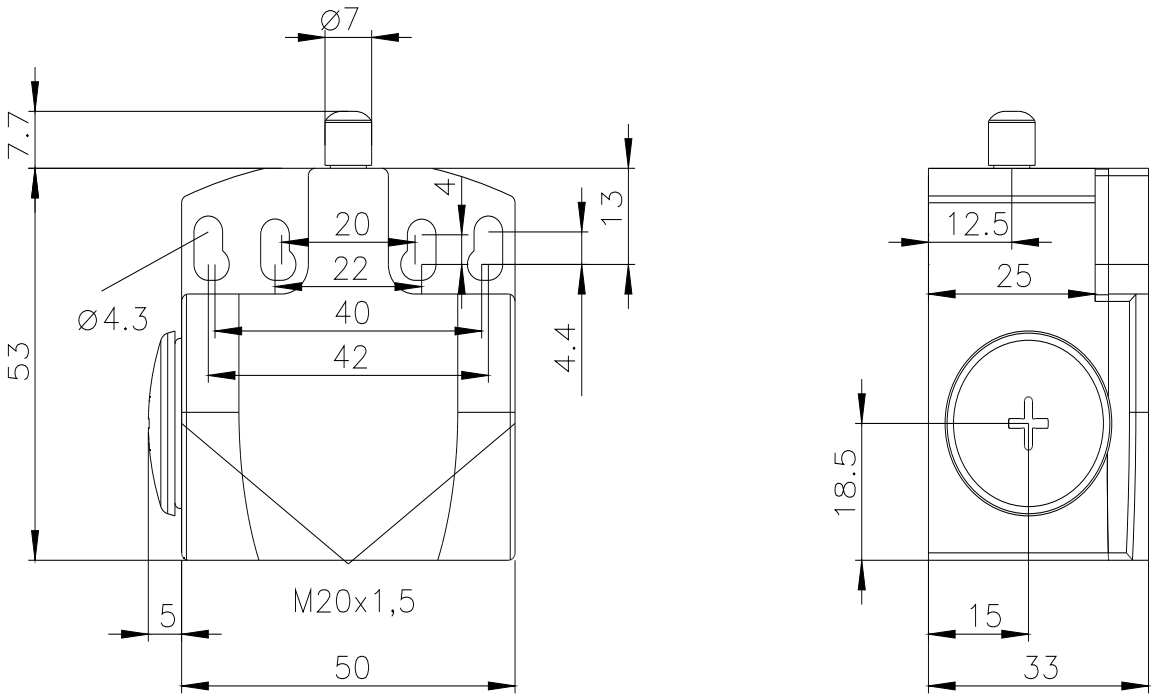
https://www.siemens.com/ic10

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5242-0BC05-1AJ0

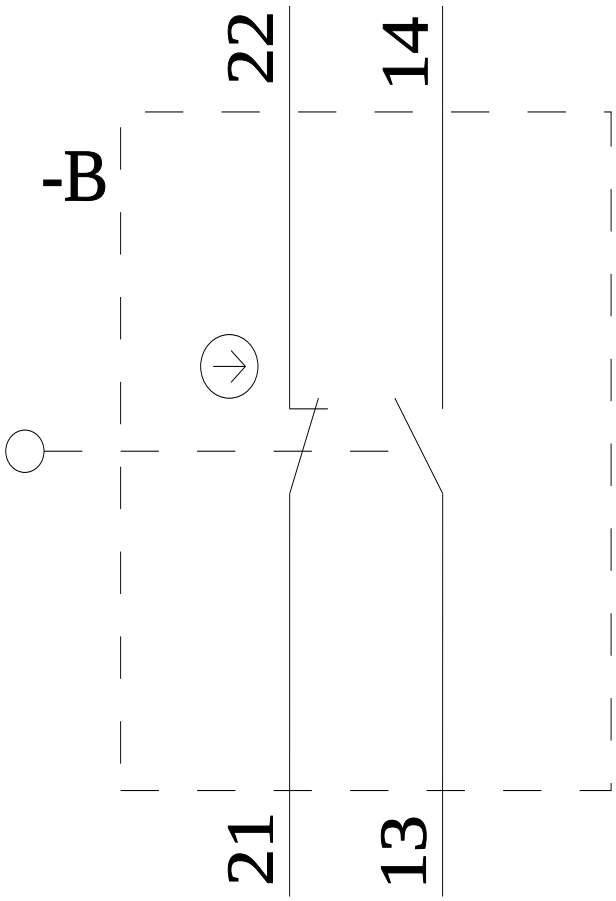
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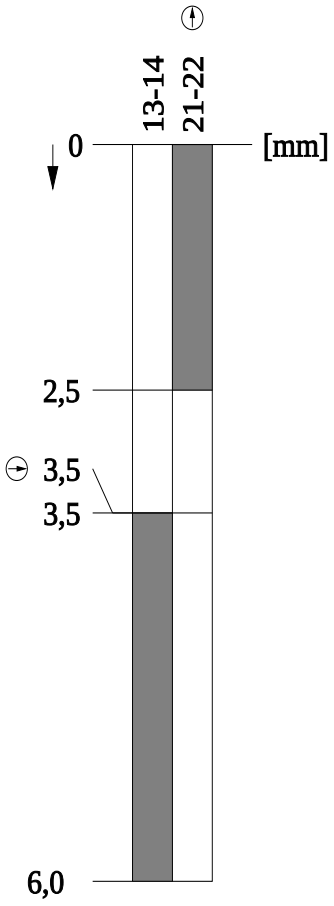
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SE5242-0BC05-1AJ0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5242-0BC05-1AJ0&lang=en



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