## SIEMENS

## Data sheet

## 3SU1251-0EB70-0AA0-Z Y10



Pushbutton, compact, with extended stroke (12 mm), 22 mm, round, Metal, clear, pushbutton, flat, momentary contact type, with holder, with laser labeling, upper case and lower case, always upper case at beginning of line

product designation         Pushbuttons           design of the product         Complete unit           product type designation         3SU1           product line         Metal, shiny, 22 mm           Enclosure         Intervention           Actuator         Gesign of the actuating element           principle of operation of the actuating element         Flat button with extended stroke, transparent           principle of operation of the actuating element         Yes           • contact module         Yes           redeart all gelement         20.5 mm           marking of the actuating element         20.5 mm           redesign of the front ring         Standard           marking of the front ring         Standard           Gesign of the front ring         Standard           General technical data         Image: Standard <tr< th=""><th></th><th></th></tr<>		
design of the product         Complete unit           product type designation         3SU1           product time         Metal, shiny, 22 mm           Enclosure         Intervention           Actuator         Intervention           design of the actuating element         Flat button with extended stroke, transparent           principle of operation of the actuating element         momentary contact type           output extension optional         Yes           • light source         Yes           • contact module         Yes           color of the actuating element         clear           material of the actuating element         plastic           shape of the actuating element         20.5 mm           outer diameter of the actuating element         20.5 mm           product component front ring         Yes           optical table         Yes           product component front ring         Standard           material of the front ring         Standard           material of the front ring         Standard           material of the front ring         Standard           design of the front ring         Standard           design of the front ring         Standard           of the front ring         Standard	product brand name	SIRIUS ACT
product type designation         3SU1           product line         Metal, shiny, 22 mm           Enclosure         Inumber of command points         1           Actuator         1           design of the actuating element         Flat button with extended stroke, transparent           principle of operation of the actuating element         momentary contact type           product extension optional         womentary contact type           • light source         Yes           • color of the actuating element         clear           material of the actuating element         pastic           shape of the actuating element         pound           outer diameter of the actuating element         29.5 mm           marking of the actuating element         Customized labeling, text in lower case / capital letters, all lines start with capital letter           product component front ring         Yes           design of the front ring         Standard           color of the actuating element         1,2,3,3R,4,4X,12,13           material of the front ring         sliver           design of the front ring         Standard           material of the front ring         sliver           design of the front ring         Sliver           design of the front ring         Sliver <td< th=""><th></th><th></th></td<>		
product line         Metal, shiny, 22 mm           Enclosure         I           Actuator         I           design of the actuating element         Flat button with extended stroke, transparent           principle of operation of the actuating element         momentary contact type           principle of operation of the actuating element         momentary contact type           product extension optional         Yes           • contact module         Yes           color of the actuating element         plastic           material of the actuating element         plastic           shape of the actuating element         round           outer diameter of the actuating element         29.5 mm           customized labeling, text in lower case / capital letters, all lines start with capital letter           Product component front ring         Yes           design of the front ring         Standard           color of the front ring         Standard           degree of protection NEMA rating         1, 2, 3, 3R, 4, 4X, 12, 13           shock resistance         acc. to IEC 60068-2-27           e. acc. to IEC 60068-2-6         10 500 Hz: 5g           e. for railway applications acc. to DIN EN 61373         Category 1, Class B           operating frequency maximu         3 600 1/h		
Findosure       1         Actuator       Flat button with extended stroke, transparent         design of the actuating element       Flat button with extended stroke, transparent         principle of operation of the actuating element       momentary contact type         product extension optional       •         •       light source       Yes         •       contact module       Yes         color of the actuating element       clear         material of the actuating element       plastic         shape of the actuating element       29.5 mm         outer diameter of the actuating element       Customized tabeling, text in lower case / capital letters, all lines start with capital letter         Front ring       Yes         product component front ring       Yes         design of the front ring       Standard         material of the front ring       sliver         General technical data       Image: Protection NEMA rating         protection class IP       Image: Protection NEMA rating         e. acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         e. for raliway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       acc. to IEC 60068-2-6       10500 Hz: 5g         e. for raliway applications acc. to DIN EN 61		
number of command points         1           Actuator         Common second	1	Metal, shiny, 22 mm
Actuator       Flat button with extended stroke, transparent         principle of operation of the actuating element       momentary contact type         product extension optional       ight source         i light source       Yes         contact module       Yes         color of the actuating element       clear         material of the actuating element       plastic         shape of the actuating element       29.5 mm         outer diameter of the actuating element       29.5 mm         marking of the actuating element       Customized labeling, text in lower case / capital letters, all lines start with capital letter         Product component front ring       Yes         gelsign of the front ring       Standard         material of the front ring       Standard         material of the front ring       Standard         material of the front ring       Silver         Goneral technical data       General technical data         protection class IP       IP66, IP67, IP69(IP69K)         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 50g / 11 ms         • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category 1, Class B	Enclosure	
design of the actuating element         Flat button with extended stroke, transparent           principle of operation of the actuating element         momentary contact type           product extension optional         -           • light source         Yes           • contact module         Yes           color of the actuating element         clear           material of the actuating element         plastic           shape of the actuating element         29.5 mm           outer diameter of the actuating element         29.5 mm           marking of the front ring         Yes           product component front ring         Yes           otl of the front ring         Standard           material of the front ring         Standard           General technical data         gliver           Protection class IP         IP66, IP67, IP69(IP69K)           degree of protection NEMA rating         1, 2, 3, 3R, 4, 4X, 12, 13           shock resistance         -           • acc. to IEC 60068-2-27         Sinusoidal half-wave 50g / 11 ms           • for railway applications acc. to DIN EN 61373         Category 1, Class B           vibration resistance         -           • acc. to IEC 60068-2-6         10 500 Hz: 5g           • for railway applications acc. to DIN EN 61373 <th>number of command points</th> <th>1</th>	number of command points	1
principle of operation of the actuating element       momentary contact type         product extension optional       ilight source         i light source       Yes         contact module       Yes         color of the actuating element       clear         material of the actuating element       plastic         shape of the actuating element       29.5 mm         outer diameter of the actuating element       29.5 mm         marking of the actuating element       Customized labeling, text in lower case / capital letters, all lines start         with capital letter       Product component front ring         feesign of the front ring       Standard         material of the front ring       Metal, high gloss         color of the front ring       sliver         General technical data       Protection class IP         ot Cic ColorBe-2-27       Sinusoidal half-wave 50g / 11 ms         e for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       acc. to IEC 60088-2-6       10 500 Hz: 5g         e acc. to IEC 60088-2-6       10 500 Hz: 5g       otagory 1, Class B         operating frequency maximum       3 600 1/h       feerence code acc. to IEC 81346-2	Actuator	
product extension optionalYes• light sourceYes• contact moduleYescolor of the actuating elementplasticshape of the actuating elementplasticshape of the actuating element29.5 mmouter diameter of the actuating element29.5 mmmarking of the actuating elementCustomized labeling, text in lower case / capital letters, all lines startmarking of the actuating elementYesproduct component front ringYesdesign of the front ringStandardmaterial of the front ringStandardmaterial of the front ringMetal, high glosscolor of the front ringIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-610 500 Hz: 5g• of railway applications acc. to DIN EN 61373Category 1, Class Bvibrating frequency maximum3600 1/hmechanical service liffe (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	design of the actuating element	Flat button with extended stroke, transparent
• light sourceYes• contact moduleYescolor of the actuating elementclearmaterial of the actuating elementplasticshape of the actuating elementcoundouter diameter of the actuating element29.5 mmmarking of the actuating elementCustomized labeling, text in lower case / capital letters, all lines start with capital letterFront ringYesproduct component front ringStandarddesign of the front ringStandardmaterial of the front ringStandardmaterial of the front ringNetal, high glosscolor of the front ringsilverGeneral technical dataIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceIP66, IP67, IP69(IP69K)• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceI0 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	principle of operation of the actuating element	momentary contact type
• contact moduleYescolor of the actuating elementclearmaterial of the actuating elementplasticshape of the actuating elementroundouter diameter of the actuating element29.5 mmmarking of the actuating elementCustomized labeling, text in lower case / capital letters, all lines start with capital letterFront ringYesproduct component front ringYesdesign of the front ringStandardmaterial of the front ringMetal, high glosscolor of the front ringIlverGeneral technical dataIlverprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	product extension optional	
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material of the actuating elementplasticshape of the actuating elementroundouter diameter of the actuating element29.5 mmmarking of the actuating elementCustomized labeling, text in lower case / capital letters, all lines start with capital letterproduct component front ringYesdesign of the front ringStandardmaterial of the front ringMetal, high glosscolor of the front ringsilverGeneral technical dataIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 50g / 11 mse for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5ge for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	contact module	Yes
shape of the actuating elementroundouter diameter of the actuating element29.5 mmmarking of the actuating elementCustomized labeling, text in lower case / capital letters, all lines start with capital letterFront ringYesproduct component front ringStandardmaterial of the front ringMetal, high glosscolor of the front ringsilverGeneral technical dataProtection NEMA ratingprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 50g / 11 mse for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5ge for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	color of the actuating element	clear
outer diameter of the actuating element29.5 mmmarking of the actuating elementCustomized labeling, text in lower case / capital letters, all lines start with capital letterFront ringYesproduct component front ringYesdesign of the front ringStandardmaterial of the front ringMetal, high glosscolor of the front ringsilverGeneral technical dataIP66, IP67, IP69(IP69K)protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesilvere acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 mse for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5ge for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	material of the actuating element	plastic
marking of the actuating elementCustomized labeling, text in lower case / capital letters, all lines start with capital letterFront ringYesdesign of the front ringStandardmaterial of the front ringMetal, high glosscolor of the front ringsilverGeneral technical dataIP66, IP67, IP69(IP69K)protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceSinusoidal half-wave 50g / 11 mse acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 msof railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance0e acc. to IEC 60068-2-610 500 Hz: 5goperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	shape of the actuating element	round
Front ringwith capital letterproduct component front ringYesdesign of the front ringStandardmaterial of the front ringMetal, high glosscolor of the front ringMetal, high glosscolor of the front ringIVerGeneral technical dataIP66, IP67, IP69(IP69K)protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceInstance• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceI• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	outer diameter of the actuating element	29.5 mm
product component front ringYesdesign of the front ringStandardmaterial of the front ringMetal, high glosscolor of the front ringsilverGeneral technical dataIP66, IP67, IP69(IP69K)protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-65000 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-65000 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B• for railway applications acc. to DIN EN 61373Category 1, Class B• for railway applications acc. to DIN EN 61373Category 1, Class B• perturn frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000• reference code acc. to IEC 81346-2S	marking of the actuating element	
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color of the front ringsilverGeneral technical datasilverprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesilver• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceI0 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	design of the front ring	Standard
General technical datagrotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance	material of the front ring	Metal, high gloss
protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	color of the front ring	silver
degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	General technical data	
shock resistanceSinusoidal half-wave 50g / 11 ms• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	protection class IP	IP66, IP67, IP69(IP69K)
	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	shock resistance	
vibration resistanceImage: Constraint of the system• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	• acc. to IEC 60068-2-27	Sinusoidal half-wave 50g / 11 ms
e acc. to IEC 60068-2-6     10 500 Hz: 5g     for railway applications acc. to DIN EN 61373     Category 1, Class B     operating frequency maximum     3 600 1/h     mechanical service life (switching cycles) typical     5 000 000     reference code acc. to IEC 81346-2     S	<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B
for railway applications acc. to DIN EN 61373     Category 1, Class B     operating frequency maximum     3 600 1/h     mechanical service life (switching cycles) typical     5 000 000     reference code acc. to IEC 81346-2     S	vibration resistance	
operating frequency maximum3 600 1/hmechanical service life (switching cycles) typical5 000 000reference code acc. to IEC 81346-2S	• acc. to IEC 60068-2-6	10 500 Hz: 5g
mechanical service life (switching cycles) typical       5 000 000         reference code acc. to IEC 81346-2       S	<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B
reference code acc. to IEC 81346-2 S	operating frequency maximum	3 600 1/h
	mechanical service life (switching cycles) typical	5 000 000
Ambient conditions	reference code acc. to IEC 81346-2	S
	Ambient conditions	

## ambient temperature during operation ambient temperature during storage

-25	• • •	+70	°C	
-40		+80	°C	

environmental category during operation acc. to IEC 60721

3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95 %)

007	~	1				

Installation/ mounting/ dimensions			
height	40 mm		
width	30 mm		
shape of the installation opening	round		
mounting diameter	22.3 mm		
positive tolerance of installation diameter	0.4 mm		
mounting height	20.3 mm		
installation width	29.5 mm		
installation depth	30.9 mm		
Certificates/ approvals			

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1251-0EB70-0AA0-Z Y10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1251-0EB70-0AA0-Z Y10

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1251-0EB70-0AA0-Z Y10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1251-0EB70-0AA0-Z Y10&lang=en

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