



Safety position switch with separate actuator 5 directions of approaches Metal enclosure, according to EN 50047 31 mm, ASIsafe integrated AS-i status: 1:F-IN1, 2: F-IN2 3:AS-i/FAULT Slow-action contacts 2 NC with M12 connector 4-pole Channel 1 to NC, Channel 2 to NC

product brand name	SIRIUS
product designation	Mechanical safety switches
product type designation	3SF12
manufacturer's article number	3SE5000-0AV01 standard actuator, 3SE5000-0AV02 actuator with vertical fixing, 3SE5000-0AV03 actuator with transverse fixing, 3SE5000-0AV04 radius actuator left, 3SE5000-0AV05 universal actuator, 3SE5000-0AV06 radius actuator right
<ul style="list-style-type: none"> of the optional actuators 	
suitability for use safety switch	Yes
General technical data	
product function positive opening	Yes
insulation voltage rated value	30 V
degree of pollution	class 3
surge voltage resistance rated value	0.8 kV
shock resistance according to IEC 60068-2-27	30g / 11 ms
vibration resistance according to IEC 60068-2-6	0.35 mm/5g
mechanical service life (operating cycles) typical	1 000 000
material of the enclosure of the switch head	plastic enclosure
reference code according to IEC 81346-2	B
active principle	mechanical
repeat accuracy	0.1 mm
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7 Diboron trioxide - 1303-86-2
Net Weight	0.248 kg
minimum actuating force in directions of actuation	20 N
length of the sensor	118 mm
width of the sensor	31 mm
Ambient conditions	
ambient temperature	-25 ... +60 °C -40 ... +80 °C
<ul style="list-style-type: none"> during operation during storage 	
design of the switching contact	mechanical
number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts	0
Enclosure	
design of the housing	block, narrow
material of the enclosure	metal

coating of the enclosure	cathodic dip coating	
design of the housing according to standard	Yes	
Drive Head		
design of the actuating element	without	
design of the switching function	positive opening	
circuit principle	slow-action contacts	
number of switching contacts safety-related	2	
design of plug-in connection	M12 plug, 4-pole: Pin 1 = ASI+ , Pin 2 = not assigned, Pin 3= ASI-, Pin 4 = not assigned	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	screw fixing	
Connections/ Terminals		
type of electrical connection	M12 plug, fixed, 4-pole	
Supply voltage		
type of voltage of the supply voltage of the optional LED display	DC	
supply voltage of LED	24 V	
design of the interface for safety-related communication	ASIsafe via M12 plug	
Safety related data		
proportion of dangerous failures with high demand rate according to SN 31920	20 %	
B10 value with high demand rate according to SN 31920	1 000 000	
Approvals Certificates		
General Product Approval	Test Certificates	other



[Type Test Certificates/Test Report](#)



other	Environment
Confirmation	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,...)
<https://www.siemens.com/ic10>
Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SF1214-1QV40-1BA1>
Cax online generator
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SF1214-1QV40-1BA1>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3SF1214-1QV40-1BA1>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SF1214-1QV40-1BA1&lang=en

