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Data sheet 3SE5114-1CH60-1AF3

position switch, 3SE5114 metal enclosure 40 mm with twist lever adjustable length with grid hole EN 50041, 1 NO/1 NC quick action contacts with M12 plug, 5-pole, fixed with 2 LEDs, yellow/green, 24 V DC pin assignment: Pin1=21, Pin2=22 Pin 3=13 + LED green, Pin 4=14 and LED yellow, Pin 5=ground LED

product brand name	SIRIUS
product designation	Mechanical position switches
product type designation	3SE5
manufacturer's article number	
● of the supplied basic switch	3SE5114-1CA00-0AF3
● of the supplied actuator head for position switches	3SE5000-0AH00
● of the supplied operating lever	3SE5000-0AA60
● of the supplied switching contacts	3SE5000-0CA00
suitability for use safety switch	Yes
General technical data	
product function positive opening	Yes
insulation voltage rated value	125 V
degree of pollution	class 3
surge voltage resistance rated value	0.8 kV
protection class IP	IP66/IP67
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	15 000 000
thermal current	4 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	4 A; for a short-circuit current smaller than 400 A
continuous current of the DIAZED fuse link gG	4 A
active principle	mechanical
repeat accuracy	0.05 mm
operating resource protection class	III (according to EN 60536)
Substance Prohibitance (Date)	07/01/2006
SVHC substance name	Lead - 7439-92-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7
Net Weight	0.37 kg
minimum actuating torque in directions of actuation	0.25 N·m
length of the sensor	206 mm
width of the sensor	40 mm
Ambient conditions	
ambient temperature	
● during operation	-25 ... +60 °C
● during storage	-40 ... +90 °C

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explosion protection category for dust	none
Main circuit	
design of the switching contact	mechanical
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
operational current at DC-13	
• at 24 V rated value	3 A
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	Adjustable twist lever, adjustable-length metal lever with latching, plastic roller 19 mm
standard-compliant actuator head	EN 50041, design A
shape of the switch head	roller
design of the switching function	positive opening
circuit principle	snap-action contacts
number of switching contacts safety-related	1
cable entry type	M12 plug
design of plug-in connection	M12 plug, 5-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13/LED green, Pin 4 = 14/LED yelow, Pin 5 = ground LED
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Connections/ Terminals	
type of electrical connection	M12 plug, fixed
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)
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	without
Communication/ Protocol	
design of the interface	without
Safety related data	
product function suitable for safety function	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
• with low demand rate according to SN 31920	20 %
• with high demand rate according to SN 31920	20 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3

Approvals Certificates

General Product Approval	**Test Certificates**
CCC, UKCA, CE EG-Konf., cULus, EAC	Type Test Certificates/Test Report

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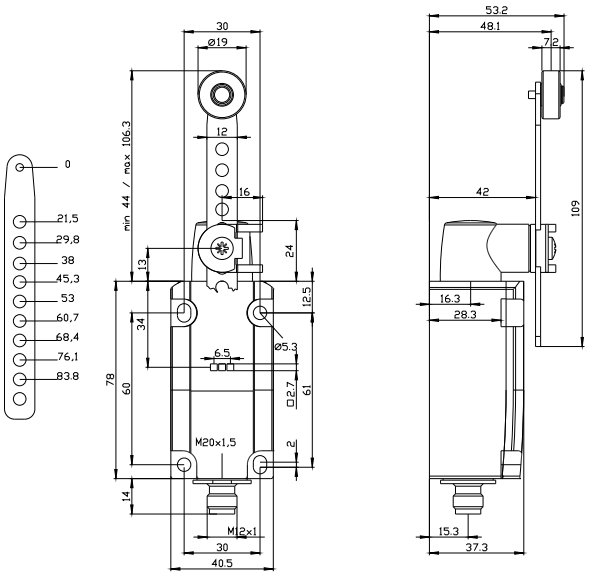
other	Environment
Confirmation	Environmental Confirmations

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=3SE5114-1CH60-1AF3
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5114-1CH60-1AF3
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SE5114-1CH60-1AF3
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5114-1CH60-1AF3&lang=en



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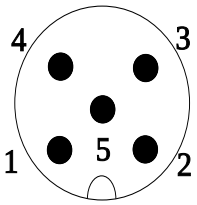
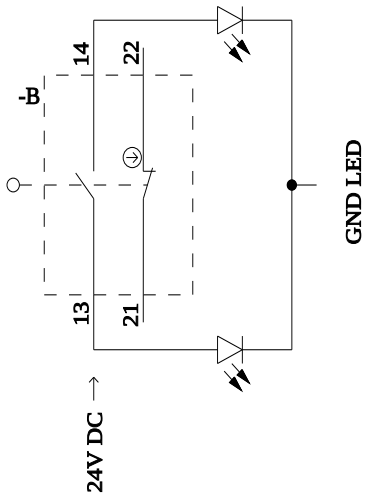
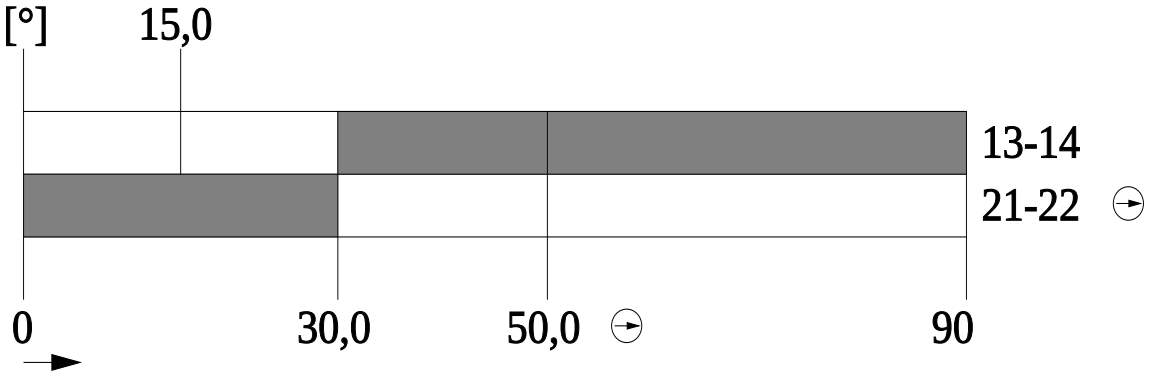


1	BN = Brown	→	21
2	WH = White	→	22
3	BU = Blue	→	13+LED-Green
4	BK = Black	→	14+LED-Yellow
5	GY = Grey	→	GND LED





last modified: 12/7/2025

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