## **SIEMENS**

## **Data sheet**

## 3SE5114-0LA00-1AE3



Basic switch with M12 connector for position switch 3SE51 Metal enclosure 40 mm according to EN 50041. Device connection with M12 connector, 5-pole, fixed 1 NO/2 NC quick action contacts (2 NC and PE connected) Max. 125 V, 4 A Pin1=21, Pin4=22 Pin2=31, Pin5=32 Pin3=PE. Suitable for connection to all SIMATIC ET200\* compact block I/O modules.

product type designation suitability for use safety switch Yes  Ceneral technical data  product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 1.5 kV protection class IP shock resistance a caccording to IEC 80088-2-27 30g /11 ms mechanical service life (operating cycles) typical thermal current 4.A A reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the Quick DIAZED fuse link gG active principle repeat accuracy Substance Prohibitance (Date) SVHC substance (Prohibitance (Date) SVHC substance name Lead - 7439-92-1 minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature 4 during storage 4 active protection category for dust 4 during storage 4 during storage 4 during storage 5 +85 °C 4 during storage 4 active protection category for dust 4 during storage 4 active protection category for dust 4 during storage 5 +85 °C 4 during storage 4 during storage 4 during storage 5 +85 °C 4 during storage 5 +85 °C 4 during storage 5 +85 °C 4 during storage 6 +80 °C 6 +80 °C 7 resident at AC-15 7 +80 °C 8	product brand name	SIRIUS
suitability for use safety switch  General technical data product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 1.5 kV protection class IP shock resistance * according to IEC 60068-2-27 **according to IEC 60068-2-27 **according to IEC 60068-2-27 **according to IEC 60068-2-27 **according to IEC 81346-2 **B continuous current of the C characteristic MCB continuous current of the C characteristic MCB 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 4 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link G active principle repeat accuracy 0.05 mm Substance Prohibitance (Date)  SVHC substance Prohibitance (Date)  Timinimum actuating force in directions of actuation length of the sensor 40 mm Ambient temperature 4 during storage 4 during forequent rated value 9 captesion protection category for dust design of the switching contact 1 mechanical 1 operating frequency rated value 1 operating frequency rated value 1 operation 1 category for dust 1 operation 2 category for dust 1 operation 3 category for dust 1 operation 3 category and actualizary contacts 2 can be a tild Y rated value 1 operation 3 category for dust 2 can be a tild Y rated value 3 category and a value 4 during a tild Y rated value 4 during a tild Y rated value 5 category and a value 6 category and a value 7	product designation	Mechanical safety switches
Separal technical data   Product function positive opening   Yes   Insulation voltage rated value   125 V   Segree of pollution   Class 3   Surge voltage resistance rated value   1.5 kV   Protection class IP   IP66/IP67   Shock resistance   ** according to IEC 60068-2.27   30g / 11 ms   Separation   Surge voltage resistance   ** according to IEC 60068-2.27   30g / 11 ms   Separation   Surge voltage resistance   ** according to IEC 81346-2   Separation   Surge voltage resistance   ** according to IEC 81346-2   B   Surge voltage	product type designation	3SE5
product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 1.5 kV protection class IP shock resistance a carcing to IEC 60068-2-27 30g / 11 ms mechanical service life (operating cycles) typical thermal current 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 plaZED fuse link 4 A; for a short-circuit current smaller than 400 A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature during operation during storage 40 +90 "C explosion protection category for dust design of the switching contact mechanical repeating frequency rated value fedising of the switching contact mechanical operating frequency rated value sa 125 V rated value 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A	suitability for use safety switch	Yes
Insulation voltage rated value  degree of pollution  class 3  surge voltage resistance rated value  protection class IP  shock resistance  * according to IEC 60068-2-27  mechanical service life (operating cycles) typical  thermal current  4 A  reference code according to IEC 81346-2  continuous current of the C characteristic MCB  continuous current of the Quick DIAZED fuse link  continuous current of the Quick DIAZED fuse link gG  active principle  repeat accuracy  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Imidiazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  40 mm  Ambient conditions  ambient temperature  during operation  during storage  explosion protection category for dust  does not be a condition of the conditions  ambient temperature  during operation  design of the switching contact  operating frequency rated value  so 60 Hz  number of NC contacts for auxiliary contacts  operational current at AC-15  at 24 V rated value  at 125 V rated value  at 125 V rated value  operational current at DC-13	General technical data	
degree of pollution  surge voltage resistance rated value  1.5 kV  protection class IP  #F66/IP67  shock resistance  according to IEC 60068-2-27  30g / 11 ms  mechanical service life (operating cycles) typical  thermal current  4 A  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 Q characteristic MCB  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  Substance Prohibitance (Date)  5VHC substance name  Lead - 7439-92-1  minimum actuating force in directions of actuation  length of the sensor  40 mm  Ambient conditions  minimum actuating sorte in directions of actuation  40 mm  Ambient conditions  minimum componenture  40 during operation  40 uring operation  40 uring sorge  40 uring sorge  40 uring sorge  40 uring sorge  40 uring operation  40 uring frequency rated value  design of the switching contact  mechanical  operating frequency rated value  for contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  1 operational current at AC-15  at 126 V rated value  at 125 V rated value  4 A  4 A  4 A  4 A  4 A  4 A  4 A  4	product function positive opening	Yes
surge voltage resistance rated value  protection class IP  shock resistance  according to IEC 60068-2-27  mechanical service life (operating cycles) typical  thermal current  reference code according to IEC 81346-2  B  continuous current of the C characteristic MCB  continuous current of the Quick DIAZED fuse link  continuous current of the Quick DIAZED fuse link  continuous current of the DIAZED fuse link G  d AA  active principle  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Imidazolidine-2-thion (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  width of the sensor  40 mm  Ambient conditions  ambient temperature  during operation  during storage  explosion protection category for dust  none  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  e at 24 V rated value  e at 125 V rated value  operational current at DC-13	insulation voltage rated value	125 V
protection class IP shock resistance	degree of pollution	class 3
shock resistance  according to IEC 60068-2-27  mechanical service life (operating cycles) typical thermal current  4 A  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  repeat accuracy 0.05 mm  Substance Prohibitance (Date)  SYHC substance name  Lead - 7439-92-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation length of the sensor  width of the sensor 40 mm  Ambient conditions  ambient temperature  during operation -25 +85 °C  during operation -25 +90 °C  explosion protection category for dust none  design of the switching contact neghanical operating frequency rated value  number of NC contacts for auxiliary contacts 1 operational current at AC-15  at 24 V rated value  at 125 V rated value  4 A  4 A  4 A  4 A  4 A  4 A  4 A  4	surge voltage resistance rated value	1.5 kV
according to IEC 60068-2-27  mechanical service life (operating cycles) typical thermal current  4 A  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  Substance Prohibitance (Date)  SYHC substance name  Lead - 7439-92-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation 20 N  length of the sensor 40 mm  Ambient conditions  ambient temperature during operation -25 +85 °C during operation -25 +95 °C explosion protection category for dust design of the switching contact operating frequency rated value 10 current at AC-15 10 et 24 V rated value 11 current at AC-15 12 current at DC-13	protection class IP	IP66/IP67
mechanical service life (operating cycles) typical thermal current 4 A reference code according to IEC 81346-2 B continuous current of the C characteristic MCB 1 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 active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 SVHC substance name Lead - 7439-92-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7 minimum actuating force in directions of actuation length of the sensor 99.7 mm width of the sensor 40 mm Ambient conditions ambient temperature during operation -25 +85 °C during operation -40 +90 °C explosion protection category for dust none design of the switching contact noperating frequency rated value 10 perating frequency rated value 10 perating frequency rated value 10 perating frequency rated value 11 perating frequency rated value 12 pumber of NC contacts for auxiliary contacts 12 eat 24 V rated value 13 the A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4	shock resistance	
thermal current reference code according to IEC 81346-2 B continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the pulck DIAZED fuse link gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 minimum actuating force in directions of actuation length of the sensor width of the sensor width of the sensor 40 mm Ambient conditions ambient temperature during operation explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 e at 24 V rated value e at 125 V rated value operational current at DC-13	<ul> <li>according to IEC 60068-2-27</li> </ul>	30g / 11 ms
reference code according to IEC 81346-2  continuous current of the C characteristic MCB  continuous current of the quick DIAZED fuse link  continuous current of the quick DIAZED fuse link  continuous current of the DIAZED fuse link gG  active principle  mechanical  repeat accuracy  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  y99,7 mm  width of the sensor  40 mm  Ambient conditions  ambient temperature  during operation  during storage  -40 +90 °C  explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  operational current at AC-15  e at 24 V rated value  4 A  operational current at DC-13	mechanical service life (operating cycles) typical	15 000 000
continuous current of the C characteristic MCB  continuous current of the quick DIAZED fuse link  continuous current of the quick DIAZED fuse link d  continuous current of the DIAZED fuse link gG  active principle  mechanical  repeat accuracy  0.05 mm  Substance Prohibitance (Date)  SYHC substance name  Lead - 7439-92-1  Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation  length of the sensor  99.7 mm  width of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  • at 24 V rated value  • at 125 V rated value  operational current at DC-13	thermal current	4 A
continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) O7/01/2006 SVHC substance name Lead - 7439-92-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7 minimum actuating force in directions of actuation length of the sensor width of the sensor width of the sensor 40 mm Ambient conditions ambient temperature during operation during storage -40 +90 °C explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 at 24 V rated value at 125 V rated value operational current at DC-13	reference code according to IEC 81346-2	В
continuous current of the DIAZED fuse link gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 SVHC substance name Lead - 7439-92-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7 minimum actuating force in directions of actuation 20 N length of the sensor 99.7 mm width of the sensor 40 mm  Ambient conditions ambient temperature • during operation • during storage 40 +90 °C explosion protection category for dust none design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value • at 125 V rated value • at 125 V rated value operational current at DC-13	continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A
active principle mechanical repeat accuracy 0.05 mm  Substance Prohibitance (Date) 07/01/2006  SVHC substance name Lead - 7439-92-1 Imidazoline-2-thione (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation 20 N  length of the sensor 99.7 mm  width of the sensor 40 mm  Ambient conditions  ambient temperature  • during operation -25 +85 °C  • during storage -40 +90 °C  explosion protection category for dust none  design of the switching contact mechanical operating frequency rated value 50 60 Hz  number of NC contacts for auxiliary contacts 2  number of NO contacts for auxiliary contacts 1 operational current at AC-15  • at 24 V rated value 4 A • at 125 V rated value 4 A  operational current at DC-13	continuous current of the quick DIAZED fuse link	4 A; for a short-circuit current smaller than 400 A
repeat accuracy  Substance Prohibitance (Date)  O7/01/2006  SVHC substance name  Lead - 7439-92-1 Imidazoidine-2-thione (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation 20 N  length of the sensor 99.7 mm width of the sensor 40 mm  Ambient conditions  ambient temperature • during operation • during storage • 40 +90 °C explosion protection category for dust design of the switching contact operating frequency rated value operating of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value • at 125 V rated value operational current at DC-13	continuous current of the DIAZED fuse link gG	4 A
Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation 20 N  length of the sensor 99.7 mm  width of the sensor 40 mm  Ambient conditions  ambient temperature • during operation • during storage explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts operational current at AC-15 • at 24 V rated value • at 125 V rated value operational current at DC-13	active principle	mechanical
SVHC substance name  Lead - 7439-92-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation  20 N  length of the sensor  99.7 mm  width of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation  • during storage  explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  operational current at AC-15  • at 24 V rated value  • at 125 V rated value  operational current at DC-13	repeat accuracy	0.05 mm
Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7  minimum actuating force in directions of actuation  20 N  length of the sensor  99.7 mm  width of the sensor  40 mm  Ambient conditions  ambient temperature  • during operation  -25 +85 °C  • during storage  40 +90 °C  explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  perational current at AC-15  • at 24 V rated value  • at 125 V rated value  operational current at DC-13	Substance Prohibitance (Date)	07/01/2006
length of the sensor  width of the sensor  Ambient conditions  ambient temperature  • during operation • during storage • during storage  explosion protection category for dust design of the switching contact operating frequency rated value number of NC contacts for auxiliary contacts perational current at AC-15 • at 24 V rated value • at 125 V rated value operational current at DC-13	SVHC substance name	
width of the sensor  Ambient conditions  ambient temperature  • during operation  • during storage  • capplosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  • at 24 V rated value  • at 125 V rated value  operational current at DC-13	minimum actuating force in directions of actuation	20 N
Ambient conditions  ambient temperature  • during operation  • during storage  • during storage  • xplosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  1  operational current at AC-15  • at 24 V rated value  • at 125 V rated value  operational current at DC-13	length of the sensor	99.7 mm
ambient temperature  • during operation  • during storage  • during storage  explosion protection category for dust  none  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15  • at 24 V rated value  • at 125 V rated value  operational current at DC-13	width of the sensor	40 mm
<ul> <li>during operation</li> <li>during storage</li> <li>during storage</li> <li>40 +90 °C</li> <li>explosion protection category for dust</li> <li>none</li> <li>design of the switching contact</li> <li>mechanical</li> <li>operating frequency rated value</li> <li>50 60 Hz</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NO contacts for auxiliary contacts</li> <li>1</li> <li>operational current at AC-15</li> <li>at 24 V rated value</li> <li>at 125 V rated value</li> <li>4 A</li> <li>operational current at DC-13</li> </ul>	Ambient conditions	
<ul> <li>during storage</li> <li>explosion protection category for dust</li> <li>design of the switching contact</li> <li>operating frequency rated value</li> <li>fo 60 Hz</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NO contacts for auxiliary contacts</li> <li>operational current at AC-15</li> <li>at 24 V rated value</li> <li>at 125 V rated value</li> <li>operational current at DC-13</li> </ul>	ambient temperature	
explosion protection category for dust  design of the switching contact  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15  at 24 V rated value  at 125 V rated value  operational current at DC-13	<ul> <li>during operation</li> </ul>	-25 +85 °C
design of the switching contact  operating frequency rated value  operating frequency rated value  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15  • at 24 V rated value  • at 125 V rated value  operational current at DC-13	during storage	-40 +90 °C
operating frequency rated value 50 60 Hz number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 1 operational current at AC-15	explosion protection category for dust	none
number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current at AC-15  • at 24 V rated value  • at 125 V rated value  operational current at DC-13	design of the switching contact	mechanical
number of NO contacts for auxiliary contacts  operational current at AC-15  • at 24 V rated value  • at 125 V rated value  operational current at DC-13	operating frequency rated value	50 60 Hz
operational current at AC-15  • at 24 V rated value  • at 125 V rated value  4 A  operational current at DC-13	number of NC contacts for auxiliary contacts	2
at 24 V rated value  at 125 V rated value  4 A  4 A  operational current at DC-13	number of NO contacts for auxiliary contacts	1
• at 125 V rated value 4 A  operational current at DC-13	operational current at AC-15	
operational current at DC-13	at 24 V rated value	4 A
	at 125 V rated value	4 A
• at 24 V rated value 3 A	operational current at DC-13	
	at 24 V rated value	3 A

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at 125 V rated value	0.55 A			
Enclosure	0.0071			
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	Other, without, basic switch with plug			
design of the switching function	Positive opening with appropriate positive opening actuator head			
circuit principle	snap-action contacts			
number of switching contacts safety-related	2			
cable entry type	M12 plug			
design of plug-in connection	M12 connector, 5-pin: Pin 1= terminal 21, pin 2= 31, pin 3= PE, pin 4= 22, pin 5= 32			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw fixing			
Connections/ Terminals				
type of electrical connection	M12 plug, fixed			
design of the interface for safety-related communication	without			
Communication/ Protocol				
design of the interface	without			
Approvals Certificates				
General Product Approval				









Confirmation



General Product Approval

**Functional Saftey** 

**Test Certificates** 

other





Type Test Certificates/Test Report

Confirmation

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3SE5114-0LA00-1AE3

Cax online generator

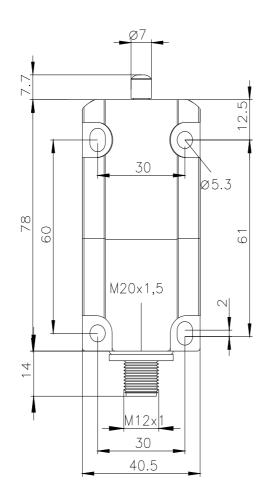
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5114-0LA00-1AE3

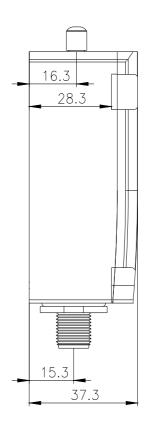
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

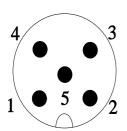
https://support.industry.siemens.com/cs/ww/en/ps/3SE5114-0LA00-1AE3

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

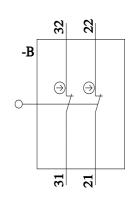
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5114-0LA00-1AE3&lang=er







1	BN = Brown	$\rightarrow$	21
2	WH = White	$\rightarrow$	31
3	GN/YE = Green/Yellow	$\rightarrow$	(1)
4	BK = Black	$\rightarrow$	22
5	GY = Grey	$\rightarrow$	32



last modified: 3/11/2024 **C** 

