SIEMENS

Data sheet 3RH2131-2BG40



contactor relay, 3 NO + 1 NC, 125 V DC, spring-loaded terminal, frame size S00

product designation product type designation Size of contactor typical Size of	product brand name	SIRIUS
Size of contactor Size of contactor Size of contactor Yes	product designation	Auxiliary contactor
size of contactor product extension auxiliary switch product extension auxiliary switch power loss [W] for rated value of the current without load current share typical insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value 6 kV shock resistance at rectangular impulse • at DC 10g / 5 ms, 5g / 10 ms shock resistance with sine pulse • at DC shock resistance with sine pulse • at DC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical	product type designation	3RH2
product extension auxiliary switch power loss [W] for rated value of the current without load current share typical Insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value • at DC • at DC 10g / 5 ms, 5g / 10 ms shock resistance at rectangular impulse • at DC 15g / 5 ms, 8g / 10 ms shock resistance with sine pulse • at DC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 K Substance Prohibitance (Date) 10/01/2009 Weight 0,33 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental frootprint Environmental Product Declaration(EPD) yes global warming potential [CO2 eq] during manufacturing 13 kg global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during manufacturing 132 kg global warming potential [CO2 eq] after end of life -0.227 kg mo-load switching frequency	General technical data	
power loss [W] for rated value of the current without load current insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 asurge voltage resistance rated value 680 V shock resistance at rectangular impulse at DC 10g / 5 ms, 5g / 10 ms shock resistance with sine pulse at DC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) 5 ms, 8g / 10 ms mechanical service vith added electronically optimized auxiliary switch block typical 5 000 000 000 000 000 000 000 000 000	size of contactor	S00
insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value e at DC shock resistance at rectangular impulse e at DC shock resistance with sine pulse e of the contactor with added electronically optimized auxiliary switch block typical so of the contactor with added auxiliary switch block typical so of the contacto	product extension auxiliary switch	Yes
degree of pollution surge voltage resistance rated value shock resistance at rectangular impulse • at DC shock resistance with sine pulse • at DC 15g /5 ms, 5g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Weight 0.33 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -55 +60 °C • during storage -55 +80 °C relative humidity minimum relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental Froduct Declaration(EPD) yes global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] after end of life Main circuit no-load switching frequency		4 W
surge voltage resistance at rectangular impulse • at DC 10g / 5 ms, 5g / 10 ms shock resistance with sine pulse • at DC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of t	insulation voltage with degree of pollution 3 at AC rated value	690 V
shock resistance at rectangular impulse • at DC shock resistance with sine pulse • at DC mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with adde auxiliary switch block typical 10 000 000 • of the contactor with adde auxiliary switch block t	degree of pollution	3
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shock resistance with sine pulse • at DC mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical 10 000 000 K Substance Prohibitance (Date) Weight 0.33 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • 55 +60 °C relative humidity minimum 10 % relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint Environmental Froduct Declaration(EPD) Yes global warming potential [CO2 eq] total global warming potential [CO2 eq] during operation 1.3 kg global warming potential [CO2 eq] after end of life Main circuit no-load switching frequency	shock resistance at rectangular impulse	
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of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 K Substance Prohibitance (Date) Weight 0.33 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature ouring operation ouring operation ouring storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	• at DC	15g / 5 ms, 8g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 K Substance Prohibitance (Date) Weight	mechanical service life (operating cycles)	
auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 K Substance Prohibitance (Date) Weight 0.33 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation during storage -55 +60 °C oduring storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint Environmental Froduct Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation 132 kg global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	 of contactor typical 	30 000 000
reference code according to IEC 81346-2 K Substance Prohibitance (Date) 10/01/2009 Weight 0.33 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Environmental Footprint Environmental Product Declaration(EPD) Yes global warming potential [CO2 eq] total 133 kg global warming potential [CO2 eq] during manufacturing 1.3 kg global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency		5 000 000
Substance Prohibitance (Date) Weight 0.33 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] after end of life Main circuit no-load switching frequency	of the contactor with added auxiliary switch block typical	10 000 000
Weight 0.33 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Environmental footprint Environmental Product Declaration(EPD) Yes global warming potential [CO2 eq] total 133 kg global warming potential [CO2 eq] during manufacturing 1.3 kg global warming potential [CO2 eq] during operation 132 kg global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	reference code according to IEC 81346-2	K
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation 132 kg global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	Substance Prohibitance (Date)	10/01/2009
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint Environmental Product Declaration(EPD) Yes global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation 132 kg global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	Weight	0.33 kg
ambient temperature • during operation • during storage • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Environmental footprint Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	Ambient conditions	
■ during operation ■ during storage □ -25 +80 °C relative humidity minimum □ 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life Main circuit no-load switching frequency	installation altitude at height above sea level maximum	2 000 m
● during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Environmental footprint Environmental Product Declaration(EPD) Yes global warming potential [CO2 eq] total 133 kg global warming potential [CO2 eq] during manufacturing 1.3 kg global warming potential [CO2 eq] during operation 132 kg global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	ambient temperature	
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint Environmental Product Declaration(EPD) Yes global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation 132 kg global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	 during operation 	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint Environmental Product Declaration(EPD) Yes global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing 1.3 kg global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	during storage	-55 +80 °C
Environmental Froduct Declaration(EPD) Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation 132 kg global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	relative humidity minimum	10 %
Environmental Product Declaration(EPD) global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency		95 %
global warming potential [CO2 eq] total 133 kg global warming potential [CO2 eq] during manufacturing 1.3 kg global warming potential [CO2 eq] during operation 132 kg global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	Environmental footprint	
global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation 132 kg global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	global warming potential [CO2 eq] total	133 kg
global warming potential [CO2 eq] after end of life -0.227 kg Main circuit no-load switching frequency	global warming potential [CO2 eq] during manufacturing	1.3 kg
Main circuit no-load switching frequency	global warming potential [CO2 eq] during operation	132 kg
no-load switching frequency	global warming potential [CO2 eq] after end of life	-0.227 kg
	Main circuit	
• at AC 10 000 1/h	no-load switching frequency	
	• at AC	10 000 1/h
• at DC 10 000 1/h	• at DC	10 000 1/h

Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	125 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	1
number of NO contacts for auxiliary contacts • instantaneous contact	3
identification number and letter for switching elements	31 E
operational current at AC-12 maximum	10 A
operational current at AC-12 maximum	ivi.
at 230 V rated value	10 A
at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1A
operational current at 1 current path at DC-12	
at 24 V rated value	10 A
• at 110 V rated value	3 A
at 220 V rated value	1 A
at 440 V rated value	0.3 A
at 600 V rated value	0.15 A
operational current with 2 current paths in series at DC-12	
at 24 V rated value	10 A
at 60 V rated value	10 A
• at 110 V rated value	4 A
at 220 V rated value	2 A
• at 440 V rated value	1.3 A
at 600 V rated value	0.65 A
operational current with 3 current paths in series at DC-12	
at 24 V rated value	10 A
at 60 V rated value	10 A
at 110 V rated value at 230 V rated value	10 A
at 440 V rated value	3.6 A
at 440 V rated valueat 600 V rated value	2.5 A 1.8 A
operating frequency at DC-12 maximum	1 000 1/h
operational current at 1 current path at DC-13	1 000 1/11
• at 24 V rated value	10 A
at 110 V rated value	1A
at 220 V rated value	0.3 A
at 440 V rated value	0.14 A
at 600 V rated value	0.1 A
operational current with 2 current paths in series at DC-13	
at 24 V rated value	10 A
• at 60 V rated value	3.5 A
• at 110 V rated value	1.3 A
• at 220 V rated value	0.9 A
• at 440 V rated value	0.2 A
• at 600 V rated value	0.1 A
operational current with 3 current paths in series at DC-13	

at 24 V rated value	10 A
• at 60 V rated value	4.7 A
• at 110 V rated value	3 A
• at 220 V rated value	1.2 A
• at 440 V rated value	0.5 A
at 600 V rated value	0.26 A
operating frequency at DC-13 maximum	1 000 1/h
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
Installation/ mounting/ dimensions	
mounting position	+/-180 $^\circ$ rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5 $^\circ$ on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	70 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	TO THIS
— forwards	10 mm
— upwards	10 mm
·	10 mm
— downwards	
— at the side	6 mm
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections	
for auxiliary contacts	2.07.4.2
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 12)
Safety related data	
product function	
 positively driven operation according to IEC 60947-5-1 	Yes
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le
failure rate [FIT] with low demand rate according to SN	
31920	100 FIT
31920 ISO 13849	100 FII
ISO 13849	3

Type A
IP20
finger-safe, for vertical contact from the front

General Product Approval







Confirmation



<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Dangerous goods

Environment

Miscellaneous

Confirmation

Special Test Certific-<u>ate</u>

Transport Information



Environmental Confirmations

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=3RH2131-2BG40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2131-2BG40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-2BG40

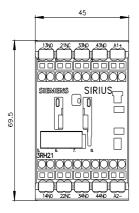
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

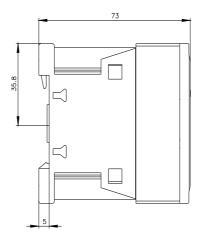
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2131-2BG40&lang=en

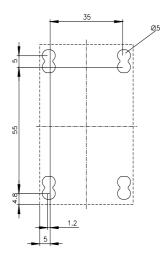
Characteristic: Tripping characteristics, I2t, Let-through current

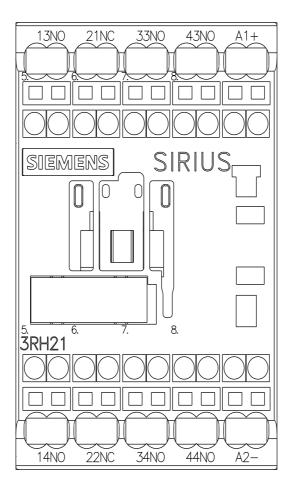
https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-2BG40/char

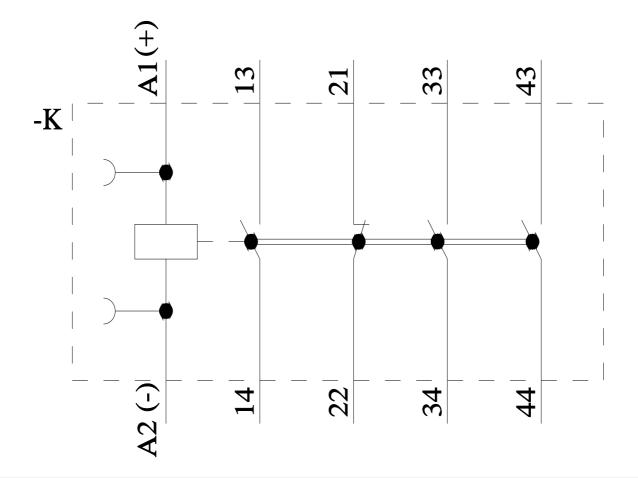
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2131-2BG40&objecttype=14&gridview=view1











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