# **SIEMENS**

Data sheet 3RH2122-2AV60



Contactor relay, 2 NO + 2 NC, 480 V AC, 60 Hz, Size S00, Spring-type terminal

product brand name	SIRIUS	
product designation	Auxiliary contactor	
product type designation	3RH2	
General technical data		
size of contactor	S00	
product extension auxiliary switch	Yes	
insulation voltage with degree of pollution 3 at AC rated value	690 V	
degree of pollution	3	
surge voltage resistance rated value	6 kV	
shock resistance at rectangular impulse		
• at AC	7,3g / 5 ms, 4,7g / 10 ms	
shock resistance with sine pulse		
• at AC	11,4g / 5 ms, 7,3g / 10 ms	
mechanical service life (switching cycles)		
<ul> <li>of contactor typical</li> </ul>	30 000 000	
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000	
reference code according to IEC 81346-2	K	
Substance Prohibitance (Date)	10/01/2009	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul><li>during operation</li></ul>	-25 +60 °C	
during storage	-55 +80 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Main circuit		
no-load switching frequency		
• at AC	10 000 1/h	
• at DC	10 000 1/h	
Control circuit/ Control		
type of voltage of the control supply voltage	AC	
control supply voltage at AC		
at 60 Hz rated value	480 V	
control supply voltage frequency		
• 2 rated value	60 Hz	

operating range factor control supply voltage rated	
value of magnet coil at AC	0.05
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	37 VA
inductive power factor with closing power of the coil	0.8
apparent holding power of magnet coil at AC	5.7 VA
inductive power factor with the holding power of the	0.25
coil	
closing delay  • at AC	8 33 ms
opening delay	0 33 IIIS
	4 45
• at AC	4 15 ms 10 15 ms
arcing time	10 15 MS
Auxiliary circuit	-
number of NC contacts for auxiliary contacts	2
instantaneous contact	2
number of NO contacts for auxiliary contacts	2
instantaneous contact	2
identification number and letter for switching	22 E
elements operational current at AC-12 maximum	10 A
	10 /
operational current at AC-15	10.0
at 230 V rated value     at 400 V rated value	10 A
at 400 V rated value     at 500 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at 1 current path at DC-12	40.4
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	10 A
• at 220 V rated value	3.6 A
• at 440 V rated value	2.5 A
at 600 V rated value	1.8 A
operating frequency at DC-12 maximum	1 000 1/h
operational current at 1 current path at DC-13	
• at 24 V rated value	10 A
• at 110 V rated value	1 A
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
<ul><li>at 24 V rated value</li><li>at 60 V rated value</li></ul>	10 A 3.5 A

al 440 V rated value beta food v rated value cate of value contact reliability of curillary contacts contact rating of auxiliary contacts contact rating of value contact rating value contact rating of value contact rating value contact r		
poperational current with 3 current paths in series at 10-C-13  * at 24 V rated value * at 60 V rated value * at 220 V rated value * at 260 V rated value * at 270 V rated value * at 270 V rated value * poperating frequency at 0C-13 maximum design of the ministure circuit breaker for short-circuit protection of the auditing vicant by 0.250 V contact rating of auxiliary contacts  * at 200 V rated value * at 200	<ul> <li>at 440 V rated value</li> </ul>	0.2 A
a cit 24 V rated value b cit 60 V rated value c cit 440 V rated value c contact rating for auxiliary contacts contact rating of auxiliary and control circuit vibration possible on vertical mounting surface, can be titled forward and backward by 4: 22 5° on vertical mounting surface, can be titled forward and backward by 4: 22 5° on vertical mounting auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary and control circuit vibration for auxiliary and control circuit vibration for auxiliary contacts contact rating of a		0.1 A
a dt 24 V rated value at 60 V rated value at 7 A at 8 A at 8 A at 7 A at 8 A at 8 A at 8 A at 8 A at 7 A at 8 A a		
at 10 V rated value at 110 V rated value 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A		10 A
* at 110 V rated value     * at 220 V rated value     * at 220 V rated value     * at 400 V rated value     * at 600 V rated value     * operating frequency at DC-13 maximum     * design of the ministure circuit breaker for short-circuit protection of the auxiliary contacts     * contact reliability of auxiliary contacts     * contact rating of auxiliary contacts     * contact rating of auxiliary contacts according to UL  Short-circuit protection     * design of the fuse link for short-circuit protection of the auxiliary switch required     * fasterning method     * fasterning method     * screw and snap-on mounting onto 35 mm standard mounting surface     * screw and snap-on mounting onto 35 mm standard mounting rail     * with side-by-side mounting     * with side-by-side mounting     * upwards     * downwards     * upwards     * or or grounded parts     * forwards     * or forwards     * or forwards     * or or grounded parts     * el forwards     * or or grounded parts     * el forwards     * or or sunding connection for auxiliary and control circuit     * type of connectable conductor cross-sections     * or auxiliary contacts     * section or stranded     * electrical connection for auxiliary and control circuit     * type of connectable conductor cross-sections     * or with tow demand rate according to SN 31920     * with tow demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according to SN 31920     * with thigh demand rate according		
at 220 V rated value at 440 V rated value call 440 V rated value 0.26 A 0.26 A 0.26 N 0.20 N		
• at 440 V rated value  operating frequency at DC-13 maximum  design of the ministure circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  contact reliability of auxiliary contacts  Characteristic 6 A; 0.4 kA  public SA rating  contact reliability of auxiliary contacts  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the rise ink for short-circuit protection of the auxiliary switch required  fuse gL/gC: 10 A  limited auxiliary switch required  forward and backward by 4/- 22.5 for vertical mounting surface can be tilled forward and backward by 4/- 22.5 for vertical mounting rail  **To minimized auxiliary switch required  forward and backward by 4/- 22.5 for vertical mounting surface can be tilled  forward and backward by 4/- 22.5 for vertical mounting surface can be tilled  forward and backward by 4/- 22.5 for vertical mounting surface can be tilled  forward and backward by 4/- 22.5 for vertical mounting surface can be tilled  forward and backward by 4/- 22.5 forward and backw		
• at 800 V rated value operating frequency at DC-13 maximum ossign of the ministure circuit breaker for short-circuit protection of the auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  DUCSA ratings contact ratiality of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  DUCSA ratings contact rating of auxiliary contacts  A600 / G600  Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required mounting position  design of the fuse link for short-circuit protection of the auxiliary switch required finistriction mounting dimension.  mounting position  fastening method screw and snap-on mounting onto 35 mm standard mounting rail  A5 mm depth 70 mm width 45 mm depth 73 mm  required spacing  • with side-by-side mounting  — forwards — ownwards — ownwards — ownwards — ownwards — ownwards — of grounded parls — forwards — ownwards — of fill we parts — forwards — ownwards — ownwards — ownwards — ownwards — ownwards — ownwards — of live parts — forwards — ownwards		
Design of the miniature circuit breaker for short-clicuit protection of the auxiliary contacts   1 faults switching per 100 million (17 V, 1 mA)		
design of the ministure circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  1 faulty switching per 100 million		
protection of the auxiliary circuit up to 230 V contact reliability of auxiliary contacts  UUCSA ratings  contact rating of auxiliary contacts according to UL A600 / O600  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required Installation/mounting/dimensions  mounting position fastening method height 70 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting — forwards — upwards — of warwards — of orwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards • for live parts — forwards • for live parts — forwards — upwards • for live parts — forwards • for live parts — forwards — upwards • for live parts — forwards • for live parts — forwards — at the side — downwards • for live parts — live of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of a characteristic formatic  Upwards — finely stranded without core end processing • at AWG cables for auxiliary contacts  BIO value with high demand rate according to SN 31920 • with ligh demand rate according to SN 31920 • with ligh demand rate according to SN 31920 • with ligh demand rate according to SN 31920 • with ligh demand rate according to SN 31920 • With ligh demand rate according to SN 31920 • With ligh demand rate according to SN 31920 • With ligh demand rate according to SN 31920 • With ligh demand rate according to SN 31920 • With ligh demand rate according to SN 31920 • With ligh demand rate according to SN 31920 • Up protection class IP on the front according to EC  IP20		
Taulty switching per 100 million (17 V, 1 mA)		C Characteristic. 6 A, 6.4 KA
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position  fastening method height  fuse gL/gC: 10 A  surface and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface according to Sh may be available on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting rail  ### A to Missing the surface according to Sh and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forwards and backward by +/- 22.5° on vertical mounting surface; can be tilted forward by a fusion possible on vertical mounting surface; can be tilted forwards and backward by +/- 22.5° on vertical mounting surface; can be tilted forwards and backward by +/- 22.5° on vertical mounting surface; can be tilted forward by a fusion possible on vertical mounting surface; can be tilted forwards and backward by +/- 22.5° on vertical mounting surface; can be tilted forwards and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be		1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection   design of the fuse link for short-circuit protection of the auxiliary work required   Instalation/ mounting/ dimensions   +/-180" rotation possible on vertical mounting surface; can be titled forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward shall surface   Section of the forward and backward by +/- 22.5" on vertical mounting surface   Section of the forward shall surface   Section of the forwa	UL/CSA ratings	
design of the fuse link for short-circuit protection of the auxiliary switch required mensions  mounting position  fastening method  height  width  depth  required spacing  with side-by-side mounting  - forwards  - downwards  - orwards  - orwards  - orwards  - ormards  - orwards  - ormards  - orm	contact rating of auxiliary contacts according to UL	A600 / Q600
Installation/ mounting position  mounting position  fastening method height width depth 70 mm  vitith frequired spacing  • with side-by-side mounting — forwards — downwards — of grounded parts — the side — downwards — upwards — to mm — the side — downwards — to mm — at the side — downwards — of wive parts — forwards — the side — downwards — the side — downwards — the side — downwards — to mm — at the side — downwards — to mm — at the side — downwards — to mm — the side — downwards — to mm — the side — downwards — to mm — the side — downwards — upwards — to mm — the side — downwards — to mm — the side — downwards — upwards — to mm — the side — downwards — upwards — to mm — upwards — downwards — upwards — so for live parts — forwards — upwards — downwards — the side — downwards — upwards — downwards — the side — downwards — the side — downwards — the side — downwards — at the side  Connections Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections — for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for auxiliary contacts  Safety rolated data  Blo value with high demand rate according to SN 31920  proportion of dangerous failures — with low demand rate according to SN 31920  The value for proof test interval or service life according to SN 31920  The value for proof test interval or service life according to EC  IP20		
mounting position  #/-180" rotation possible on vertical mounting surface; can be titled forward and backward by 4/- 22.5" on vertical mounting surface screw and backward by 4/- 22.5" on vertical mounting surface screw and span-on mounting onto 35 mm standard mounting rail 70 mm  width		fuse gL/gG: 10 A
mounting position  #/-180" rotation possible on vertical mounting surface; can be titled forward and backward by 4/- 22.5" on vertical mounting surface screw and backward by 4/- 22.5" on vertical mounting surface screw and span-on mounting onto 35 mm standard mounting rail 70 mm  width		
forwards and backward by +- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail vidth 45 mm 45 mm 45 mm 46 mm 46 mm 46 mm 46 mm 47	· · · · · · · · · · · · · · · · · · ·	+/-180° rotation possible on vertical mounting surface; can be tilted
height width		
width depth 73 mm  required spacing  • with side-by-side mounting  — forwards 10 mm — downwards 10 mm — at the side 0 mm — end the side 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm — downwards 10 mm — downwards 10 mm — this side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm  Connections/ Terminals  Type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded 2x (0,5 4 mm²) — at AWG cables for auxiliary contacts 2x (0,5 2,5 mm²) — at AWG cables for auxiliary contacts 2x (0,5 2,5 mm²) — at AWG cables for auxiliary contacts 2x (0,5 2,5 mm²) — at AWG cables for auxiliary contacts 2x (0,5 2,5 mm²) — at AWG cables for auxiliary contacts 2x (0,5 2,5 mm²) — with ligh demand rate according to SN 31920 — with high demand rate according to SN 31920 — with high demand rate according to SN 31920 — with high demand rate according to SN 31920 1 value for proof test interval or service life according to IEC  IP20	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — upwards — upwards — upwards — the side — downwards — to mm — at the side — downwards — to mm — at the side — downwards — to mm — at the side — downwards — to mm — t	height	70 mm
required spacing  with side-by-side mounting  — forwards — upwards — downwards — at the side — for grounded parts — for grounded parts — forwards — upwards — upwards — upwards — upwards — the side — downwards — 10 mm — at the side — downwards — 10 mm — of rilve parts — for live parts — for wards — upwards — upwards — 10 mm — odwnwards — upwards — upwards — 10 mm — odwnwards — upwards — 10 mm — odwnwards — at the side — formards — at the side — formards — upwards — in mm — odwnwards — at the side — formardis — the side — formation of auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections — for auxiliary contacts — solid or stranded — finely stranded without core end processing — finely stranded without core end processing — at AWO cables for auxiliary contacts  Safety related data  B10 value with high demand rate according to SN 31920 — with low demand rate according to SN 31920 — with low demand rate according to SN 31920 T1 value for proof test interval or service life according to EC  IP20  In value for proof test interval or service life according to EC  IP20	width	45 mm
<ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>for grounded parts</li> <li>upwards</li> <li>for mm</li> <li>to mm</li> <li>to mm</li> <li>upwards</li> <li>upwards</li> <li>to mm</li> <li>at the side</li> <li>6 mm</li> <li>downwards</li> <li>for live parts</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>upwards</li> <li>to mm</li> <li>adownwards</li> <li>at the side</li> <li>6 mm</li> </ul> Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>with low demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> </ul>	depth	73 mm
forwards	required spacing	
- upwards	<ul><li>with side-by-side mounting</li></ul>	
- downwards - at the side  • for grounded parts - forwards - upwards - at the side  • for mm  - upwards - at the side - downwards - at the side - downwards - for live parts - forwards - upwards - for live parts - forwards - upwards - upwards - upwards - upwards - downwards - downwards - downwards - at the side - formards - upwards - for mm - at the side - formards - upwards - for mm - at the side - formards - upwards - for mm - at the side - formards - in the side - formards - at the side - formards - at the side - formards - for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - at AWG cables for auxiliary contacts - at AWG cables for auxiliary contacts - with high demand rate according to SN 31920 - with high demand rate according to SN 31920 - with low demand rate according to SN 31920	— forwards	10 mm
- at the side  • for grounded parts  - forwards  - upwards  - at the side  - downwards  • for live parts  - forwards  10 mm  • for live parts  - forwards  10 mm  • for live parts  - forwards  10 mm  - upwards  10 mm  - upwards  10 mm  - downwards  - at the side  6 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - finely stranded with core end processing  - at AWG cables for auxiliary contacts  2x (0.5 4 mm²)  2x (0.5 2.5 mm²)  2x (0.5 2.5 mm²)  2x (20 12)  Safety related data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with low	— upwards	10 mm
• for grounded parts  — forwards — upwards — at the side — downwards — 10 mm  • for live parts — forwards — upwards — to mm  • for live parts — forwards — upwards — downwards — downwards — at the side — formards — the side — formards — the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12)  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 11 value for proof test interval or service life according to EIC 61508 protection class IP on the front according to IEC IP20	— downwards	10 mm
- forwards	— at the side	0 mm
- upwards - at the side - downwards • for live parts • for live parts - forwards - upwards - downwards - downwards - downwards - at the side - downwards - at the side - downwards - at the side - at	<ul> <li>for grounded parts</li> </ul>	
- at the side - downwards • for live parts - forwards - upwards - upwards - at the side - downwards - at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12)  Safety related data  B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC IP20	— forwards	10 mm
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>6 mm</li> </ul> Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>2x (0.5 2.5 mm²)</li> <li>at AWG cables for auxiliary contacts</li> <li>2x (20 12)</li> </ul> Safety related data B10 value with high demand rate according to SN 31920 <ul> <li>with low demand rate according to SN 31920</li> <li>with ligh demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FiT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to [EC 61508]</li> </ul> protection class IP on the front according to IEC <ul> <li>IP20</li> </ul>	— upwards	10 mm
• for live parts  — forwards — upwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for auxiliary contacts  B10 value with high demand rate according to SN 31920  proportion of dangerous failures • with low demand rate according to SN 31920  i with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IP20  protection class IP on the front according to IEC  IP20	— at the side	6 mm
forwards	— downwards	10 mm
- upwards - downwards - at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  • at AWG cables for auxiliary contacts  2x (20 12)  Safety related data  B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920  • with low demand rate according to SN 31920  1 000 000; With 0.3 x le  proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920  1 000 Filt 31920  T1 value for proof test interval or service life according to IEC IP20	for live parts	
	— forwards	10 mm
— 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  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — at AWG cables for auxiliary contacts  Safety related data  B10 value with high demand rate according to SN 31920  • with low demand rate according to SN 31920 • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC  IP20	— upwards	10 mm
type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for auxiliary contacts  Safety related data  B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920  • with low demand rate according to SN 31920  100 FIT  100 FIT  11 value for proof test interval or service life according to IEC  Protection class IP on the front according to IEC	— downwards	10 mm
type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • at AWG cables for auxiliary contacts  Safety related data  B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920  1000 FIT  1000 FIT  1000 FIT  1000 FIT  1000 FIT  1000 FIT	— at the side	6 mm
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²)  1000 000; With 0.3 x le  1000 000; With 0.3 x le  1000 000; With 0.3 x le  1000 for in the first according to SN 31920  40 %  1000 for in the first according to SN 31920  73 %  100 filt  100 filt  20 y  1000 filt	Connections/ Terminals	
<ul> <li>for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         — finely stranded without core end processing         — at AWG cables for auxiliary contacts         2x (0.5 2.5 mm²)         2x (20 12)  Safety related data  B10 value with high demand rate according to SN 31920         proportion of dangerous failures         — with low demand rate according to SN 31920         — with high demand rate according to SN 31920         — with high demand rate according to SN 31920         — T1 value for proof test interval or service life according to IEC 61508          protection class IP on the front according to IEC</li> </ul>	type of electrical connection for auxiliary and control circuit	spring-loaded terminals
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  Safety related data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920 • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC IP20	type of connectable conductor cross-sections	
<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>— at AWG cables for auxiliary contacts</li> <li>Eafety related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>— with low demand rate according to SN 31920</li> <li>— with high demand rate according to SN 31920</li> <li>— with high demand rate according to SN 31920</li> <li>— with high demand rate according to SN 31920</li> <li>— with low demand rate according to SN 31920</li> <li>— T1 value for proof test interval or service life according to IEC</li> <li>IP20</li> </ul>	<ul> <li>for auxiliary contacts</li> </ul>	
<ul> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>2x (20 12)</li> <li>Safety related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC</li> <li>IP20</li> </ul>	<ul><li>— solid or stranded</li></ul>	2x (0,5 4 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> <li>Safety related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC</li> <li>IP20</li> </ul>	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
Bafety related data Bare Balo value with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920 • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  Tal value for proof test interval or service life according to IEC IP20	<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
B10 value with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC IP20	at AWG cables for auxiliary contacts	2x (20 12)
proportion of dangerous failures	Safety related data	
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC</li> <li>protection class IP on the front according to IEC</li> <li>IP20</li> </ul>	B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le
<ul> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC</li> <li>IP20</li> </ul>	proportion of dangerous failures	
failure rate [FIT] with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC IP20  protection class IP on the front according to IEC IP20	<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC IP20	with high demand rate according to SN 31920	73 %
Protection class IP on the front according to IEC IP20		100 FIT
	IEC 61508	20 y
		IP20

#### Certificates/ approvals

#### **General Product Approval**





Confirmation



<u>KC</u>



**EMC** 

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping

other



Confirmation



### **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=3RH2122-2AV60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-2AV60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2AV60

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

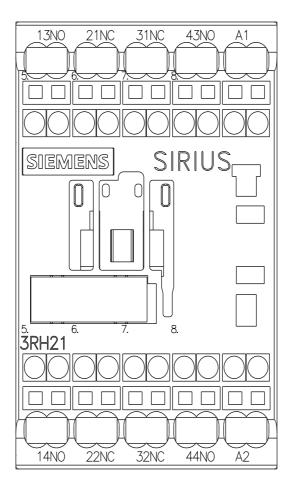
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2122-2AV60&lang=en

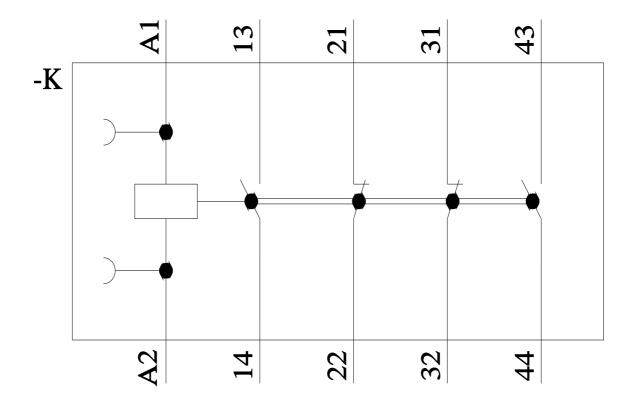
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2AV60/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-2AV60&objecttype=14&gridview=view1





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