## SIEMENS

## Data sheet

## 3RH2122-1AP60



Contactor relay, 2 NO + 2 NC, 220 V AC, 50 Hz, 240 V, 60 Hz, Size S00, screw terminal

product brand name         SHUS           product brand name         SHUS           product type designation         3RH2           Cancral technical data         S00           product extension auxiliary switch         Yes           power loss [W] for rated value of the current without load current         1.43 W           share typical         690 V           degree of pollution         3           surge voltage resistance rated value         68V           shock resistance at rectangular impulse         6 kV           shock resistance at rectangular impulse         6 kV           e at AC         7.3g / 5 ms, 7.3g / 10 ms           mechanical service life (operating cycles)         0 000 000           e of the contactor with added electronically optimized auxilary switch block typical         10 000 000           e of the contactor with added auxilary switch block typical         10 000 000           e of the contactor with added auxilary switch block typical         10 000 000           e during system block optical         2000 m           ambient temperature         - 4.80 °C           e during storage         -55 +60 °C           e during storage         -55 +60 °C           e during storage         -55 +60 °C           e during storegae of the contro				
product type designation         3RH2           General technical data         500           groduct extension auxiliary switch         Yes           power loss [W] for rated value of the current without load current share typical         1.43 W           Insulation voltage with degree of pollution 3 at AC rated value         680 V           degree of pollution         3           surge voltage resistance rated value         6 kV           shock resistance at rectangular impulse         6 kV           et AC         7, 3g / 5 ms, 4, 7g / 10 ms           shock resistance with sine pulse         1.4, 9 / 5 ms, 7, 3g / 10 ms           et AC         11, 4g / 5 ms, 7, 3g / 10 ms           mechanical service life (operating cycles)         0 000 000           e of contactor typical         30 000 000           e of the contactor with added electronically optimized auxilary switch block typical         1000 000           e of the contactor with added auxilary switch block typical         1000 000           e of the contactor with added auxilary switch block typical         1000 020           e during operation         25 + 60 °C           • during operation         25 + 60 °C           • during operation         10 %           etative humidity at 55 °C according to IEC 60068-2.30 maximum         95 %	product brand name	SIRIUS		
General technical data     S00       size of contactor     S00       product extension auxiliary switch     Yes       power loss [V] for rated value of the current without load current     1.43 W       insulation voltage with degree of pollution 3 at AC rated value     680 V       degree of pollution     3       surge voltage resistance rated value     6 kV       shock resistance at rectangular impulse     7,3g / 5 ms, 4,7g / 10 ms       shock resistance at rectangular inpulse     7,3g / 5 ms, 4,7g / 10 ms       e at AC     7,3g / 5 ms, 7,3g / 10 ms       mechanical service life (operating cycles)     30 000 000       of ot neorador with added electronically optimized     300 0000       availiary switch block typical     500 000       e of the contactor with added electronically optimized     300 0000       auxiliary switch block typical     1000 000       e ference code according to EC 81346-2     K       Substance Prohibitance (Date)     1001/2009       Ambient conditions     2.5 +60 °C       relative humidity at 55 °C according to EC 6068-2-30     95 %       maximum     10 %       Yeps of voltage of the control supply voltage     AC       control supply voltage at AC     220 V       e at 6D L rated value     220 V       e at 6D L rated value     220 V		· ·		
size of contactor     S00       product extension auxiliary switch     Yes       power loss [M] for rated value of the current without load current share typical     143 W       insulation voltage with degree of pollution 3 at AC rated value     680 V       degree of pollution     3       surge voltage resistance rated value     6 kV       shock resistance at rectangular impulse     6 kV       e at AC     7,3g / 5 ms, 4,7g / 10 ms       shock resistance with sine pulse     11,4g / 5 ms, 7,3g / 10 ms       e at AC     11,4g / 5 ms, 7,3g / 10 ms       mechanical service life (operating cycles)     30 000 000       e of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       e of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       e of the contactor with added auxiliary switch block typical     10 000 000       reference code according to IEC 81346-2     K       Substance Prohibitance (Date)     10001/1000       Ambient conditions     25 +60 °C       e during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity minimum     10 %       relative humidity minimum     10 000 1/h       e at OC     10 000 1/h       e at O     10 0000 1/h       e at O     10 00		3RH2		
product extension auxiliary switch     Yes       power loss [W] for rated value of the current without load current share typical     1.43 W       insulation voltage with degree of pollution 3 at AC rated value     680 V       degree of pollution     3       surge voltage resistance rated value     6k V       shock resistance at rectangular impulse     6k V       • at AC     7.3g / 5 ms, 4,7g / 10 ms       shock resistance with sine pulse     11.4g / 5 ms, 7.3g / 10 ms       • at AC     11.4g / 5 ms, 7.3g / 10 ms       mechanical service life (operating cycles)     00 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       reference code according to IEC 81346-2     K       Substance Prohibitance (Date)     1001/2009       Ambient conditions     -25 +60 °C       - during storage     -55 +80 °C       - during storage     -55 +80 °C       - relative humidity at 55 °C according to IEC 60068-2:30 maximum     95 %       Main circuit     10 000 1/h       no-load switching frequency     10 000 1/h       - at DC     10 000 1/h       - at DC     10 000 1/h       - at OC     10 000 1/h       - at OC     10 000 1/h       - at OC     10 000 1/h       - at OC bitz rated value     220 V				
power loss [W] for rated value of the current without load current share typical     1.43 W       insulation voltage with degree of pollution 3 at AC rated value     690 V       degree of pollution     3       surge voltage resistance rated value     64 V       shock resistance at rectangular impulse     64 V       • at AC     7.3g / 5 ms, 4.7g / 10 ms       shock resistance with sine pulse     11.4g / 5 ms, 7.3g / 10 ms       mechanical service life (operating cycles)     00 000 000       • of contactor typical     30 000 000       • of the contactor with added electronically optimized auxilary witch block typical     10 000 000       • of the contactor with added auxilary switch block typical     10 000 000       • of the contactor with added auxilary switch block typical     10 000 000       • of the contactor with added auxilary switch block typical     10 000 000       • of the contactor with added auxilary switch block typical     10 000 000       • of the contactor with added auxilary switch block typical     10 000 000       • during operation     -25 +60 °C       • during storage     -55 +60 °C       • during storage     -55 +80 °C       • during storage     -55 +80 °C       • during storage     -55 +80 °C       • during operation     -25 +60 °C       • at AC     10 000 1/h       • at AC				
share typical     690 V       insulation voltage with degree of pollution 3 at AC rated value     690 V       degree of pollution     3       surge voltage resistance arted value     6 kV       shock resistance at rectangular impulse     6 kV       • at AC     7,3g / 5 ms, 4,7g / 10 ms       shock resistance with sine pulse     7,3g / 5 ms, 7,3g / 10 ms       • at AC     11,4g / 5 ms, 7,3g / 10 ms       mechanical service life (operating cycles)     30 000 000       • of the contactor with added electronically optimized     30 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       efference code according to IEC 81346-2     K       Substance Prohibitance (Date)     10/01/2009       Ambient conditions     2 000 m       ambient temperature     4 uring operation       • during operation     -25 +60 °C       • during storage     -55 +80 °C       • at AC     10 000 1/h       • at A				
degree of pollution     3       surge voltage resistance rated value     6 kV       shock resistance at rectangular impulse     6 kV       • at AC     7,3g / 5 ms, 4,7g / 10 ms       shock resistance with sine pulse     11,4g / 5 ms, 7,3g / 10 ms       • at AC     11,4g / 5 ms, 7,3g / 10 ms       mechanical service life (operating cycles)     0 000 000       • of the contactor typical     30 000 000       • of the contactor typical     30 000 000       • of the contactor typical     10 000 000       • of the contactor typical     10 000 000       reference code according to IEC 81346-2     K       Substance Prohibitance (Date)     10/1/2009       Ambient conditions     10       installation altitude at height above sea level maximum     2 000 m       ambient temperature     -25 +60 °C       • during operation     -25 +60 °C       • at AC     10 0000 1/h       relative humidity minimum     10 %       relative humidity dt 55 °C according to IEC 60068-2-30     95 %       maximum     10 0000 1/h       • at AC     10 0000 1/h		1.43 W		
surge voltage resistance rated value     6 kV       shock resistance at rectangular impulse     7.3g / 5 ms, 4.7g / 10 ms       • at AC     7.3g / 5 ms, 4.7g / 10 ms       shock resistance with sine pulse     11.4g / 5 ms, 7.3g / 10 ms       • at AC     11.4g / 5 ms, 7.3g / 10 ms       mechanical service life (operating cycles)     30 000 000       • of the contactor typical     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • at height above sea level maximum     2 000 m       ambient conditions     10/01/2009       Ambient conditions     2 000 m       • during operation     -25 +60 °C       • during storage     -55 +80 °C       relative humidity at 55 °C according to IEC 60068-2-30     95 %       Main circuit     10 000 1/h       no-load switching frequency     0 0000 1/h       • at AC     10 000 1/h       • at AC     <	insulation voltage with degree of pollution 3 at AC rated value	690 V		
shock resistance at rectangular impulse     7,3g / 5 ms, 4,7g / 10 ms       shock resistance with sine pulse     11,4g / 5 ms, 7,3g / 10 ms       e at AC     11,4g / 5 ms, 7,3g / 10 ms       mechanical service life (operating cycles)     30 000 000       • of contactor typical     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       * of the contactor with added auxiliary switch block typical     10 000 000       * of the contactor with added auxiliary switch block typical     10 000 000       * of the contactor with added auxiliary switch block typical     10 000 000       * of the contactor with added auxiliary switch block typical     10 000 100       * arbient conditions     -25 +60 °C       * installation altitude at height above sea level maximum     2 000 m       ambient conditions     -25 +60 °C       • relative humidity minimum     10 %       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30     95 %       Main cincuit     1	degree of pollution	3		
• at AC7,3g / 5 ms, 4,7g / 10 msshock resistance with sine pulse • at AC11,4g / 5 ms, 7,3g / 10 msmechanical service life (operating cycles) • of contactor typical30 000 000• of contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2KSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation-25 +60 °C• during storage-55 +80 °Crelative humidity at 55 °C according to IEC 60068-2-30 maximum95 %Main circuit10 000 01/h• at AC • at AC • at AC10 000 1/h• at AC • at AC10 000 1/h• at AC • at AC • at AC200 V• at 60 Hz rated value • at 50 Hz rated value220 V• at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value220 V• at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value220 V• at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value220 V• at 60 Hz rated value • at 60 Hz rated value <t< th=""><th>surge voltage resistance rated value</th><th>6 kV</th></t<>	surge voltage resistance rated value	6 kV		
shock resistance with sine pulse     11.4g / 5 ms, 7.3g / 10 ms       mechanical service life (operating cycles)     30 000 000       • of contactor typical     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       Ambient conditions     10 001/2009       Ambient conditions     2 000 m       ambient temperature     -25 +60 °C       • during storage     -25 +60 °C       • during storage     -55 +80 °C       relative humidity at 55 °C according to IEC 60068-2-30     95 %       Main circuit     10 000 1/h       no-load switching frequency     0 000 0/h       • at AC     10 000 1/h       • at AC     220 V       • at 50 Hz rated value     220	shock resistance at rectangular impulse			
• at AC11.4g / 5 ms, 7.3g / 10 msmechanical service life (operating cycles)30 000 000• of contactor typical30 000 000• of the contactor with added electronically optimized30 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• feference code according to IEC 81346-2KSubstance Prohibitance (Date)2000 mambient conditions2 000 m• during operation-25 +60 °C• during storage-55 +60 °C• during storage-55 +60 °C• during storage95 %• according to IEC 60068-2-30 maximum95 %Main circuit	• at AC	7,3g / 5 ms, 4,7g / 10 ms		
mechanical service life (operating cycles)     available of the contactor typical       • of contactor typical     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       reference code according to IEC 81345-2     K       Substance Prohibitance (Date)     10/01/2009       Ambient conditions     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 %       Main circuit     no-load switching frequency       • at AC     10 000 1/h       • at C     10 000 1/h       Control circuit/ Control     AC       control supply voltage at AC     220 V       • at 50 Hz rated value     220 V       • at 60 Hz rated value     220 V       • at 60 Hz rated value     240 V	shock resistance with sine pulse			
• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2KSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %Main circuit no-load switching frequency • at AC10 000 1/hcontrol circuit/ Control10 000 1/hControl circuit/ Control220 V• at 50 Hz rated value • at 60 Hz rated value220 V• at 60 Hz rated value • at 60 Hz rated value220 V• at 60 Hz rated value • at 60 Hz rated value220 V• at 60 Hz rated value • at 60 Hz rated value220 V• at 60 Hz rated value • at 60 Hz rated value240 V	• at AC	11,4g / 5 ms, 7,3g / 10 ms		
• of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       K         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity minimum       10 000 0/h         Main circuit       10 000 1/h         no-load switching frequency       10 000 1/h         • at AC       10 000 1/h         • at Control       10 000 1/h         • at 50 Hz rated value       220 V         • at 60 Hz rated value       240 V	mechanical service life (operating cycles)			
auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2KSubstance Prohibitance (Date)10/01/2009Ambient conditions10/01/2009installation altitude at height above sea level maximum2 000 mambient temperature-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °Crelative humidity at 55 °C according to IEC 60068-2-3095 %Main circuit	<ul> <li>of contactor typical</li> </ul>	30 000 000		
reference code according to IEC 81346-2       K         Substance Prohibitance (Date)       10/01/2009         Amblent conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         amblent temperature       -25 +60 °C         • 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 %         Main circuit       no-load switching frequency         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       K         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       220 V         • at 60 Hz rated value       220 V         • at 60 Hz rated value       240 V		5 000 000		
Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -25 +60 °C         • 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 maximum       95 %         Main circuit       no-load switching frequency         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       Kpp of voltage of the control supply voltage         for the at 50 Hz rated value       220 V         • at 60 Hz rated value       220 V         • at 60 Hz rated value       240 V	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000		
Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • 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 %         Main circuit       0 000 1/h         no-load switching frequency       10 000 1/h         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       V         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       220 V         • at 60 Hz rated value       240 V	reference code according to IEC 81346-2	К		
installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • 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 maximum       95 %         Main circuit	Substance Prohibitance (Date)	10/01/2009		
ambient temperature       -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       95 %         no-load switching frequency       0 000 1/h         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       10 000 1/h         type of voltage of the control supply voltage       AC         control supply voltage at AC       220 V         • at 50 Hz rated value       220 V         • at 60 Hz rated value       240 V	Ambient conditions			
• during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %Main circuit00no-load switching frequency0• at AC10 000 1/h• at AC10 000 1/h• at DC10 000 1/hControl circuit/ Control4Ctype of voltage of the control supply voltageAC• at 50 Hz rated value220 V• at 60 Hz rated value240 V• control supply voltage frequency240 V	installation altitude at height above sea level maximum	2 000 m		
• during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit	ambient temperature			
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       95 %         no-load switching frequency       10 000 1/h         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       10 000 1/h         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       220 V         • at 60 Hz rated value       240 V         control supply voltage frequency       240 V	during operation	-25 +60 °C		
relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       95 %         no-load switching frequency       10 000 1/h         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       10 000 1/h         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       220 V         • at 60 Hz rated value       240 V	during storage	-55 +80 °C		
maximumMain circuitMain circuitno-load switching frequency10 000 1/h• at AC10 000 1/h• at DC10 000 1/hControl circuit/ ControlACtype of voltage of the control supply voltageACcontrol supply voltage at AC220 V• at 60 Hz rated value240 V• control supply voltage frequency240 V	relative humidity minimum	10 %		
no-load switching frequency     in one stat and the stat		95 %		
• at AC10 000 1/h• at DC10 000 1/hControl circuit/ Controltype of voltage of the control supply voltageACcontrol supply voltage at AC• at 50 Hz rated value220 V• at 60 Hz rated value240 Vcontrol supply voltage frequency	Main circuit			
• at DC     10 000 1/h       Control circuit/ Control     AC       type of voltage of the control supply voltage     AC       control supply voltage at AC     220 V       • at 50 Hz rated value     220 V       • at 60 Hz rated value     240 V	no-load switching frequency			
Control circuit/ Control         type of voltage of the control supply voltage       AC         control supply voltage at AC       220 V         • at 50 Hz rated value       220 V         • at 60 Hz rated value       240 V         control supply voltage frequency       240 V	• at AC	10 000 1/h		
type of voltage of the control supply voltage     AC       control supply voltage at AC     220 V       • at 50 Hz rated value     220 V       • at 60 Hz rated value     240 V       control supply voltage frequency     Control supply voltage frequency	• at DC	10 000 1/h		
control supply voltage at AC     220 V       • at 50 Hz rated value     240 V       control supply voltage frequency     240 V	Control circuit/ Control			
at 50 Hz rated value 220 V     at 60 Hz rated value 240 V     control supply voltage frequency	type of voltage of the control supply voltage	AC		
• at 60 Hz rated value 240 V control supply voltage frequency	control supply voltage at AC			
control supply voltage frequency	• at 50 Hz rated value	220 V		
	• at 60 Hz rated value	240 V		
• 1 rated value 50 Hz	control supply voltage frequency			
	• 1 rated value	50 Hz		

• 2 rated value	60 Hz
operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.8 1.1
• 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 coil	0.25
closing delay	
• at AC	8 33 ms
opening delay	
• at AC	4 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 elements	22 E
operational current at AC-12 maximum	10 A
operational current at AC-15	
• 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	1 A
operational current at 1 current path at DC-12	
at 24 V rated value	10 A
at 110 V rated value	3 A
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>	1 A 0.3 A
at 600 V rated value	0.15 A
operational current with 2 current paths in series at DC-12	0.15 A
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
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	

<ul> <li>at 24 V rated value</li> </ul>	10 A			
<ul> <li>at 60 V rated value</li> </ul>	4.7 A			
<ul> <li>at 110 V rated value</li> </ul>	3 A			
<ul> <li>at 220 V rated value</li> </ul>	1.2 A			
<ul> <li>at 440 V rated value</li> </ul>	0.5 A			
at 600 V rated value	0.26 A			
operating frequency at DC-13 maximum	1 000 1/h			
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 6 A; 0.4 kA			
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 fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A			
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm DIN rail			
height	57.5 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			
	0 mm			
for grounded parts     forwards	10 mm			
— forwards				
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
• for live parts				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection for auxiliary and control circuit	screw-type terminals			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12			
Safety related data				
product function positively driven operation according to IEC 60947-5-1	Yes			
B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le			
proportion of dangerous failures				
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %			
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %			
failure rate [FIT] with low demand rate according to SN 31920	100 FIT			
T1 value for proof test interval or service life according to IEC 61508	20 a			
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
Certificates/ approvals				
General Product Approval				

		<u>Confirmation</u>	(U) II	<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conform	mity	Test Certificates		
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	
Marine / Shipping						
ABS	B UREAU VERITAS		Lloyd's Kegister us	PRS	RINA	
Marine / Shipping	other		Railway	Environment		
RMRS	Confirmation		<u>Vibration and Shock</u>	Environmental Con- firmations		
Further information						
Siemens has decided https://press.siemens.or Siemens is working of Please contact your lo EAC relevant market ( Information on the pa https://support.industry Information- and Dow https://www.siemens.or Industry Mall (Online https://mall.industry.sie	Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). 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=3RH2122-1AP60 Cax online generator					

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-1AP60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1AP60

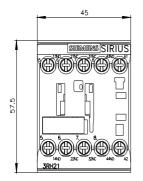
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2122-1AP60&lang=en

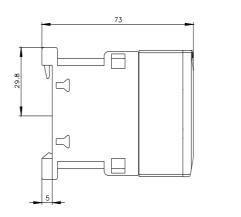
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

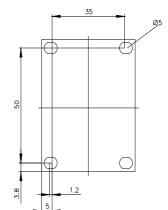
https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1AP60/char

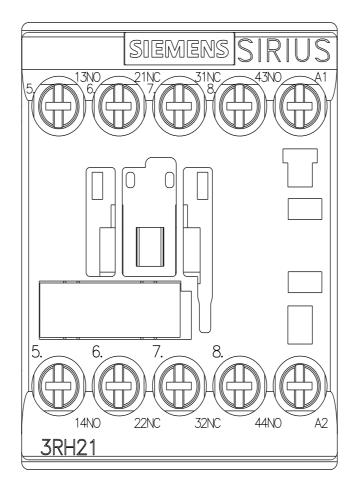
Further characteristics (e.g. electrical endurance, switching frequency)

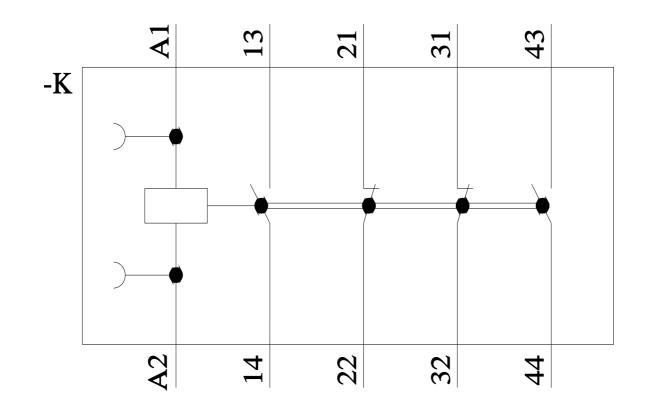
3RH2122-1AP60&objecttype=14&gridview=view1 http://www.automation.sien ns.com/bilddb/index.aspx?view= . &mlfh











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