## SIEMENS

## Data sheet

## 3RH2140-2AK60



Contactor relay, 4 NO, 110 V AC, 50 Hz, 120 V, 60 Hz, Size S00, Spring-type terminal

product brand name     SIRUS       product designation     Auxiliary contactor       product designation     3RH2       Ceneral technical data     size of contactor       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     7.3g / 5 ms, 4.7g / 10 ms       e at AC     11,4g / 5 ms, 7.3g / 10 ms       mechanical service life (switching cycles)     30 000 000       of contactor with added electronically optimized auxiliary switch block typical     30 000 000       of the contactor with added auxiliary switch block typical     10 0000 000       of the contactor with added auxiliary switch block typical     10 000 000       arteference code acc. to IEC 81346-2     K       Substance Prohibitance (Date)     0 1.10.2009 00:00:00       Ambient temperature during operation     -25 +60 °C       • arbient temperature during storage     -55 +80 °C       Main circuit     2000 m       • arbient temperature during storage     -55 +80 °C       Main circuit     10 0000 1/h       • at DC     10 0000 1/h       • at DC     10 0000 1/h       •		
product type designation     3RH2       General tochnical data     size of contactor       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     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 of contactor typical     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     2 000 m       • 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 upp operation     -25 +60 °C       • ambient temperature during operation     -25 +60 °C       • ambient temperature during storage     -55 +80 °C       Main circuit     10 0000 1/h       • at C     10 0000 1/h       • at DC     10		
General technical data     S00       size of contactor     S00       product extension auxiliary switch     Yes       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       • 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 (switching cycles)     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     30 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       reference code acc. to IEC 81346-2     K       Substance Prohibitance (Date)     01.10.2009 00:00:00       Ambient conditions     -25 +60 °C       • ambient temperature during operation     -25 +60 °C       • ambient temperature during storage     -55 +80 °C       • at DC     10 0000 1/h       • at DC     10 000 1/h       • at 50 Hz rated value     110 V       • at 60 Hz rated value     120 V       • at		
size of contactor     S00       product extension auxiliary switch     Yes       insulation voltage with degree of pollution 3 at AC rated     690 V       value     690 V       degree of pollution     3       surge voltage resistance at rectangular impulse     6 kV       • at AC     7,3g / 5 ms, 4,7g / 10 ms       shock resistance at rectangular impulse     7,3g / 5 ms, 7,3g / 10 ms       • at AC     11,4g / 5 ms, 7,3g / 10 ms       mechanical service life (switching 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     10 000 000       installation attrude dring operation     -25 +60 °C       • ambient temperature during operation     -25 +60 °C       • ambient temperature during operation     -25 +80 °C       Main circuit     10 000 1/h       • at AC     10 000 1/h       • at AC <t< td=""><td></td><td>3RH2</td></t<>		3RH2
product extension auxiliary switch     Yes       insulation voltage with degree of pollution 3 at AC rated     680 V       value     680 V       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 (switching cycles)     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     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       • of the contactor with added auxiliary switch block typical     2000 m       installation altitude at height above sea level maximum     2 000 m       • ambient temperature during operation     -25 +60 °C       • ambient temperature during storage     -55 +80 °C       Main circuit     10 0000 1/h       • at AC	General technical data	
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     7,3g / 5 ms, 4,7g / 10 ms       • at AC     7,3g / 5 ms, 7,3g / 10 ms       • at AC     11,4g / 5 ms, 7,3g / 10 ms       • of contactor typical     30 000 000       • of the contactor with added electronically optimized auxiliary switch block 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 acc. to IEC 81346-2     K       Substance Prohibitance (Date)     01.10.2009 00:00:00       Ambient conditions     -25 +60 °C       • ambient temperature during operation • ambient temperature during storage     -25 +60 °C       • at AC     10 000 1/h       • at AC		S00
value       3         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         mechanical service life (switching cycles)       11,4g / 5 ms, 7,3g / 10 ms         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5000 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         • afterence code acc. to IEC 81346-2       K         Substance Prohibitance (Date)       01.10.2009 00.00:00         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       10 0000 1/h         no-load switching frequency       •10 0000 1/h         • at AC       10 0000 1/h     <		Yes
surge voltage resistance at rectangular impulse       6 kV         shock resistance at rectangular impulse       7.3g / 5 ms, 4.7g / 10 ms         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 (switching cycles)       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         e of the contactor with added auxiliary switch block typical       10 000 000         e of the contactor with added auxiliary switch block typical       10 000 000         reference code acc. to IEC 81346-2       K         Substance Prohibitance (Date)       01.10.2009 00:00:00         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         e ambient temperature during operation       -25 +60 °C         ambient temperature during storage       -55 +80 °C         Main circuit       10 0000 1/h         no-load switching frequency       10 0000 1/h         e at AC       10 000 1/h         e at DC       10 0000 1/h         e at O Hz rated value       1		690 V
shock resistance at rectangular impulse       7,3g / 5 ms, 4,7g / 10 ms         • at AC       7,3g / 5 ms, 4,7g / 10 ms         • at AC       11,4g / 5 ms, 7,3g / 10 ms         mechanical service life (switching cycles)       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5000 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         reference code acc. to IEC 81346-2       K         Substance Prohibitance (Date)       01.10.2009 00:00:00         Ambient conditions       2000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +60 °C         • at AC       10 000 01/h         • at DC       10 000 1/h         • at 6D Hz rated value       110 V         • at 60 Hz rated value       110 V         • at 60 Hz rated value       120 V         control supply voltage frequency       120 V         • at 60 Hz rated value       120 V	degree of pollution	3
• 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 (switching cycles)       0         • 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         * reference code acc. to IEC 81346-2       K         Substance Prohibitance (Date)       01.10 2009 00:00:00         Ambient conditions       1         installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       10 000 1/h         no-load switching frequency       10 000 1/h         • at DC       10 000 1/h         control supply voltage at AC       110 V         • at 60 Hz rated value       110 V         • at 60 Hz rated value       120 V         control supply voltage frequency       120 V         control supply voltage frequency	surge voltage resistance rated value	6 kV
shock resistance with sine pulse     11,4g / 5 ms, 7,3g / 10 ms       mechanical service life (switching 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       • freference code acc. to IEC 81346-2     K       Substance Prohibitance (Date)     01.10.2009 00:00:00       Ambient conditions     2 000 m       installation altitude at height above sea level maximum     2 000 m       • ambient temperature during operation     -25 +60 °C       • ambient temperature during storage     -55 +80 °C       Main circuit     10 000 1/h       no-load switching frequency     10 000 1/h       • at AC     10 000 1/h       • a	shock resistance at rectangular impulse	
• at AC       11,4g / 5 ms, 7,3g / 10 ms         mechanical service life (switching cycles)       30 000 000         • of contactor typical       30 000 000         • 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         • of the contactor with added auxiliary switch block typical       10 000 000         reference code acc. to IEC 81346-2       K         Substance Prohibitance (Date)       01.10.2009 00:00:00         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       10 000 1/h         ro-load switching frequency       10 000 1/h         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       4C         • at 50 Hz rated value       110 V         • at 60 Hz rated value       120 V         control supply voltage frequency       50 Hz	• at AC	7,3g / 5 ms, 4,7g / 10 ms
mechanical service life (switching cycles)     30 000 000       • of contactor typical     30 000 000       • 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 acc. to IEC 81346-2     K       Substance Prohibitance (Date)     01.10.2009 00:00:00       Ambient conditions     2 000 m       • ambient temperature during operation     -25 +60 °C       • ambient temperature during storage     -55 +80 °C       Main circuit     10 000 1/h       • at AC     10 000 1/h       • at AC     10 000 1/h       • at DC     10 000 1/h       Control circuit/ Control     4C       • at 50 Hz rated value     110 V       • at 60 Hz rated value     120 V       control supply voltage frequency     120 V       • at 60 Hz rated value     50 Hz	shock resistance with sine pulse	
<ul> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code acc. to IEC 81346-2</li> <li>K</li> <li>Substance Prohibitance (Date)</li> <li>O1.10.2009 00:00:00</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature during operation</li> <li>-25 +60 °C</li> <li>ambient temperature during storage</li> <li>-55 +80 °C</li> <li>Main circuit</li> <li>no-load switching frequency</li> <li>at AC</li> <li>10 000 1/h</li> <li>at DC</li> <li>10 000 1/h</li> <li>ot 000 1/h</li> <li>ot 000 1/h</li> <li>at 50 Hz rated value</li> <li>110 V</li> <li>at 60 Hz rated value</li> <li>50 Hz</li> </ul>	• at AC	11,4g / 5 ms, 7,3g / 10 ms
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block</li> <li>of the contactor with added auxiliary switch block</li> <li>to 000 000</li> <li>to 000 0</li></ul>		30 000 000
typicalreference code acc. to IEC 81346-2KSubstance Prohibitance (Date)01.10.2009 00:00:00Ambient conditionsinstallation altitude at height above sea level maximum2 000 m• ambient temperature during operation • ambient temperature during storage-25 +60 °C• ambient temperature during storage-55 +80 °CMain circuitno-load switching frequency • at AC • at DC10 000 1/h• at DC10 000 1/hControl circuit/ Controltype of voltage of the control supply voltage • at 50 Hz rated valueAC• at 60 Hz rated value110 V• at 60 Hz rated value120 V• 1 rated value50 Hz	<ul> <li>of the contactor with added electronically optimized</li> </ul>	5 000 000
Substance Prohibitance (Date)       01.10.2009 00:00:00         Ambient conditions       installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       -25 +80 °C         no-load switching frequency       -55 +80 °C         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       4C         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       110 V         • at 60 Hz rated value       120 V         control supply voltage frequency       120 V         • 1 rated value       50 Hz		10 000 000
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       -55 +80 °C         no-load switching frequency       • at AC         • at DC       10 000 1/h         Control circuit/ Control       10 000 1/h         Control circuit/ Control       -55 +80 °C         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       110 V         • at 60 Hz rated value       120 V         control supply voltage frequency       120 V         control supply voltage frequency       50 Hz	reference code acc. to IEC 81346-2	К
installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       -55 +80 °C         no-load switching frequency       -         • 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       110 V         • at 60 Hz rated value       120 V         control supply voltage frequency       120 V         control supply voltage frequency       50 Hz	Substance Prohibitance (Date)	01.10.2009 00:00:00
• ambient temperature during operation         -25 +60 °C           • ambient temperature during storage         -55 +80 °C           Main circuit         -55 +80 °C           mo-load switching frequency         -61 000 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         110 V           • at 60 Hz rated value         120 V           control supply voltage frequency         50 Hz	Ambient conditions	
<ul> <li>ambient temperature during storage</li> <li>-55 +80 °C</li> <li>Main circuit</li> <li>no-load switching frequency         <ul> <li>at AC</li> <li>at AC</li> <li>10 000 1/h</li> <li>at DC</li> <li>10 000 1/h</li> </ul> </li> <li>Control circuit/ Control         <ul> <li>type of voltage of the control supply voltage</li> <li>AC</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>110 V</li> <li>at 60 Hz rated value</li> <li>120 V</li> </ul> </li> <li>control supply voltage frequency         <ul> <li>at 60 Hz rated value</li> <li>50 Hz</li> </ul> </li> </ul>	installation altitude at height above sea level maximum	2 000 m
<ul> <li>ambient temperature during storage</li> <li>-55 +80 °C</li> <li>Main circuit</li> <li>no-load switching frequency         <ul> <li>at AC</li> <li>at AC</li> <li>10 000 1/h</li> <li>at DC</li> <li>10 000 1/h</li> </ul> </li> <li>Control circuit/ Control         <ul> <li>type of voltage of the control supply voltage</li> <li>AC</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>110 V</li> <li>at 60 Hz rated value</li> <li>120 V</li> </ul> </li> <li>control supply voltage frequency         <ul> <li>at 60 Hz rated value</li> <li>50 Hz</li> </ul> </li> </ul>	<ul> <li>ambient temperature during operation</li> </ul>	- -25 +60 °C
no-load switching frequencyI• at AC10 000 1/h• at DC10 000 1/hControl circuit/ Controltype of voltage of the control supply voltageACACcontrol supply voltage at ACI• at 50 Hz rated value110 V• at 60 Hz rated value120 Vcontrol supply voltage frequency50 Hz		-55 +80 °C
• 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 value110 V• at 60 Hz rated value120 Vcontrol supply voltage frequency50 Hz	Main circuit	
• 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 value110 V• at 60 Hz rated value120 Vcontrol supply voltage frequency50 Hz	no-load switching frequency	
Control circuit/ Control         type of voltage of the control supply voltage       AC         control supply voltage at AC       Intervention         • at 50 Hz rated value       110 V         • at 60 Hz rated value       120 V         control supply voltage frequency       50 Hz		10 000 1/h
type of voltage of the control supply voltage       AC         control supply voltage at AC       -         • at 50 Hz rated value       110 V         • at 60 Hz rated value       120 V         control supply voltage frequency       -         • 1 rated value       50 Hz	• at DC	10 000 1/h
control supply voltage at AC       110 V         • at 50 Hz rated value       110 V         • at 60 Hz rated value       120 V         control supply voltage frequency       50 Hz	Control circuit/ Control	
control supply voltage at AC       110 V         • at 50 Hz rated value       110 V         • at 60 Hz rated value       120 V         control supply voltage frequency       50 Hz	type of voltage of the control supply voltage	AC
• at 60 Hz rated value     120 V       control supply voltage frequency     50 Hz		
control supply voltage frequency     50 Hz	• at 50 Hz rated value	110 V
• 1 rated value 50 Hz	• at 60 Hz rated value	120 V
	control supply voltage frequency	
• 2 rated value 60 Hz	• 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 V·A
inductive power factor with closing power of the coil	0.8
apparent holding power of magnet coil at AC	5.7 V·A
inductive power factor with the holding power of the coil	0.25
closing delay	
• at AC	8 33 ms
opening delay	000113
• at AC	4 15 ms
arcing time	10 15 ms
Auxiliary circuit	10 10 113
	1
number of NO contacts for auxiliary contacts	4
instantaneous contact	
identification number and letter for switching elements	40 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> </ul>	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
<ul> <li>at 60 V rated value</li> </ul>	10 A
<ul> <li>at 110 V rated value</li> </ul>	4 A
<ul> <li>at 220 V rated value</li> </ul>	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	
<ul> <li>at 24 V rated value</li> </ul>	10 A
• at 60 V rated value	10 A
<ul> <li>at 110 V rated value</li> </ul>	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

<ul> <li>at 440 V rated value</li> </ul>	0.2 A
• at 600 V rated value	0.1 A
operational current with 3 current paths in series at DC-13	
	10.4
at 24 V rated value	10 A 4 7 A
at 60 V rated value	4.7 A 3 A
at 110 V rated value	1.2 A
at 220 V rated value	
at 440 V rated value	0.5 A
• at 600 V rated value	0.26 A 1 000 1/h
operating frequency at DC-13 maximum	
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	fuse gL/gG: 10 A
auxiliary switch required	
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 standard mounting rail
height	70 mm
width	45 mm
depth	73 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
<ul> <li>for live parts</li> </ul>	
— 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	spring-loaded terminals
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
— finely stranded without core end processing	2x (0.5 2.5 mm <sup>2</sup> )
at AWG cables for auxiliary contacts	2x (20 12)
Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000; With 0.3 x le
proportion of dangerous failures	
with low demand rate acc. to SN 31920	40 %
with high demand rate acc. to SN 31920	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
product function positively driven operation acc. to IEC	Yes
60947-5-1	20.4
T1 value for proof test interval or service life acc. to	20 у



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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2140-2AK60&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2AK60/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-2AK60&objecttype=14&gridview=view1











last modified:

12/15/2020 🖸