# **SIEMENS**

Data sheet 3RH2262-1BB40



contactor relay, 6 NO + 2 NC, 24 V DC, size S00, screw terminal, captive auxiliary switch

product designation 3RH2  Size of contactor S00 product extension auxiliary switch No Insulation voltage with degree of pollution 3 at AC rated value 6890 V surge voltage resistance rated value 6 kV shock resistance at rectangular impulse at DC 10g / 5 ms, 5g / 10 ms  surge voltage resistance with sine pulse at DC 15g / 5 ms, 8g / 10 ms  mechanical service life (switching cycles) 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 2000 m  ambient temperature 4 during operation 255 +60 °C -55 +80 °C -55 +90 °C -55 .	product brand name	SIRIUS		
size of contactor S00 product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value e at DC shock resistance at rectangular impulse e at DC shock resistance with sine pulse e store shock re	product designation	Auxiliary contactor		
size of contactor product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value  degree of pollution 3 surge voltage resistance rated value • at DC  shock resistance at rectangular impulse • at DC  mechanical service life (switching cycles) • of contactor typical  reference code according to IEC 81346-2  K Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit no-load switching frequency • at AC • at DC • at DC • control supply voltage at DC • rated value  operating range factor control supply voltage rated value  of linitial value • fulls: scale value •	product type designation	3RH2		
product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value  degree of pollution  surge voltage resistance rated value • at DC • at DC • of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity an influency • at AC • at DC • at AC	General technical data	General technical data		
insulation voltage with degree of pollution 3 at AC rated value  degree of pollution  surge voltage resistance rated value  e at DC  shock resistance at rectangular impulse  • at DC  at DC  shock resistance with sine pulse  • at DC  mechanical service life (switching cycles)  • of contactor typical  reference code according to IEC 81346-2  K Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  relative humidity minimum  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  no-load switching frequency  • at AC  • at DC  • or ated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • fulls casel value  0.8  • fulls casel value  1.1  closing power of magnet coil at DC  • full cools at AC  • full casel value  0.8  • fulls casel value  1.1  closing power of magnet coil at DC  • full cools at AC  • full casel value  1.1	size of contactor	S00		
value       degree of pollution     3       surge voltage resistance rated value     6 kV       shock resistance at rectangular impulse     10g / 5 ms, 5g / 10 ms       • at DC     15g / 5 ms, 8g / 10 ms       mechanical service life (switching cycles)     10 000 000       • of contactor typical     K       reference code according to IEC 81346-2     K       Substance Prohibitance (Date)     10/01/2009       Ambient conditions     10/01/2009       installation altitude at height above sea level maximum     2 000 m       ambient temperature     4 during operation       • during storage     -55 +60 °C       • during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30     95 %       maximum     95 %       Main circuit     10 000 1/h       no-load switching frequency     10 000 1/h       • at DC     10 000 1/h       Control circuit/ Control     24 V       vpearing range factor control supply voltage rated value or magnet coil at DC     24 V       • initial value     0.8       • full-scale value     1.1       closing power of magnet coil at DC     4 W	product extension auxiliary switch	No		
surge voltage resistance rated value shock resistance at rectangular impulse at DC shock resistance with sine pulse at DC stock resistance with sine pulse stock resistance with sine stock resistance with sine pulse stock resistance with sine stock resistance with sine pulse stock resistance with sto		690 V		
shock resistance at rectangular impulse  at DC  shock resistance with sine pulse  at DC  start DC  shock resistance with sine pulse  at DC  start	degree of pollution	3		
shock resistance with sine pulse  at DC  shock resistance with sine pulse  at DC  mechanical service life (switching cycles)  of contactor typical  reference code according to IEC 81346-2  K Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  during operation  during storage  relative humidity minimum  relative humidity minimum  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  no-load switching frequency  at AC  at DC  to 10 000 1/h  at DC  control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  rated value  operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value  1.1  closing power of magnet coil at DC	surge voltage resistance rated value	6 kV		
shock resistance with sine pulse  • at DC  mechanical service life (switching cycles)  • of contactor typical  reference code according to IEC 81346-2  K Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  relative humidity minimum  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  no-load switching frequency  • at AC  • at DC  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  1.1  closing power of magnet coil at DC   4 W	shock resistance at rectangular impulse			
e at DC mechanical service life (switching cycles) e of contactor typical reference code according to IEC 81346-2 K Substance Prohibitance (Date) 10/001/2009  Ambient conditions installation altitude at height above sea level maximum ambient temperature e during operation e during storage -55 +60 °C relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit no-load switching frequency e at AC e at DC 10 000 1/h e at DC Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC e rated value operating range factor control supply voltage rated value of magnet coil at DC e initial value e full-scale value 1.1 closing power of magnet coil at DC  4 W	• at DC	10g / 5 ms, 5g / 10 ms		
mechanical service life (switching cycles)  • of contactor typical  reference code according to IEC 81346-2  K Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  relative humildity minimum  relative humildity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  no-load switching frequency  • at AC  • at DC  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • full-scale value  of tull-scale value  10 000 000  10 000 000  10 000 000  10 000 00	shock resistance with sine pulse			
of contactor typical     reference code according to IEC 81346-2     Substance Prohibitance (Date)     Ambient conditions     installation altitude at height above sea level maximum     ambient temperature     • during operation     • during storage     relative humidity minimum     relative humidity at 55 °C according to IEC 60068-2-30     maximum  Main circuit  no-load switching frequency     • at AC     • at DC     control circuit/ Control  type of voltage of the control supply voltage     control supply voltage at DC     • rated value  operating range factor control supply voltage rated value of magnet coil at DC     • full-scale value  • full-scale value  10 000 000  DC  ON  ON  ON  ON  ON  ON  ON  ON  ON  O	• at DC	15g / 5 ms, 8g / 10 ms		
reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency • at AC • at DC  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value • full-scale value  1.1  closing power of magnet coil at DC  4 W	mechanical service life (switching cycles)			
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency • at AC • at DC  Control circuit/ Control  type of voltage of the control supply voltage control supply voltage at DC • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value • full-scale value  olimitial value  ol	of contactor typical	10 000 000		
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage -55 +80 °C relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency • at AC • at DC  Control circuit/ Control  type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value  full-scale value  1.1  closing power of magnet coil at DC  4 W	reference code according to IEC 81346-2	K		
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency • at AC • at DC  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value • full-scale value  1.1  closing power of magnet coil at DC  4 W	Substance Prohibitance (Date)	10/01/2009		
ambient temperature  • during operation • during storage  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency • at AC • at DC  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value • full-scale value  1.1  closing power of magnet coil at DC  4 W	Ambient conditions			
<ul> <li>during operation</li> <li>during storage</li> <li>-55 +80 °C</li> <li>relative humidity minimum</li> <li>10 %</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</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>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>1.1</li> <li>closing power of magnet coil at DC</li> </ul>	installation altitude at height above sea level maximum	2 000 m		
<ul> <li>during storage</li> <li>relative humidity minimum</li> <li>10 %</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> <li>Main circuit</li> <li>no-load switching frequency <ul> <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</li> <li>type of voltage of the control supply voltage control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>closing power of magnet coil at DC</li> </ul> <li>4 W</li>	ambient temperature			
relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency  • at AC  • at DC  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  • rated value  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  closing power of magnet coil at DC  4 W	<ul><li>during operation</li></ul>	-25 +60 °C		
relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency  • at AC  • at DC  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  • rated value  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  1.1  closing power of magnet coil at DC	during storage	-55 +80 °C		
maximum  Main circuit  no-load switching frequency  • at AC  • at DC  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  closing power of magnet coil at DC  4 W	relative humidity minimum	10 %		
no-load switching frequency  • at AC  • at DC  10 000 1/h  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  • rated value  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  1.1  closing power of magnet coil at DC  4 W		95 %		
<ul> <li>at AC</li> <li>at DC</li> <li>10 000 1/h</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>1.1</li> <li>closing power of magnet coil at DC</li> <li>4 W</li> </ul>	Main circuit			
at DC  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC      rated value      operating range factor control supply voltage rated value of magnet coil at DC      initial value      full-scale value  Closing power of magnet coil at DC  10 000 1/h  24 V  08  1.1  1.1	no-load switching frequency			
type of voltage of the control supply voltage DC  control supply voltage at DC  • rated value 24 V  operating range factor control supply voltage rated value of magnet coil at DC  • initial value 0.8  • full-scale value 1.1  closing power of magnet coil at DC 4 W	• at AC	10 000 1/h		
type of voltage of the control supply voltage  control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  closing power of magnet coil at DC  DC  24 V  0.8  1.1  4 W	• at DC	10 000 1/h		
control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  closing power of magnet coil at DC  4 W	Control circuit/ Control			
<ul> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>closing power of magnet coil at DC</li> <li>24 ∨</li> <li>0.8</li> <li>1.1</li> <li>d W</li> </ul>	type of voltage of the control supply voltage	DC		
operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  closing power of magnet coil at DC  4 W	control supply voltage at DC			
value of magnet coil at DC	rated value	24 V		
● full-scale value 1.1  closing power of magnet coil at DC 4 W				
closing power of magnet coil at DC 4 W	initial value	0.8		
	full-scale value	1.1		
holding power of magnet coil at DC 4 W	closing power of magnet coil at DC	4 W		
	holding power of magnet coil at DC	4 W		

opening delay	30 100 ms
opening delay	30 100 III8
	7 13 ms
	7 15 ms
Auxiliary circuit	10 13 1118
	2
	2
	6
	6
	62 E
elements	02 L
operational current at AC-12 maximum 1	10 A
operational current at AC-15	
• at 230 V rated value	6 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
• at 220 V rated value	1 A
• at 440 V rated value	0.3 A
	0.15 A
operational current with 2 current paths in series at DC-12	
	10 A
	10 A
	4 A
	2 A
	1.3 A
	0.65 A
operational current with 3 current paths in series at	0.0071
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
	1.8 A
	1 000 1/h
operational current at 1 current path at DC-13	
	6 A
	1 A
	0.3 A
	0.14 A
	0.1 A
operational current with 2 current paths in series at DC-13	
	10 A
	3.5 A
	1.3 A
	0.9 A
	0.2 A
	0.1 A
operational current with 3 current paths in series at	
DC-13	
• at 24 V rated value	10 A
• at 60 V rated value	4.7 A
• at 110 V rated value	3 A
• at 220 V rated value	1.2 A

at 440 V rated value	0.5 A
	0.26 A
at 600 V rated value      answering fraguency at DC 13 maximum.	1 000 1/h
operating frequency at DC-13 maximum  design of the miniature circuit breaker for short-circuit	C characteristic: 6 A; 0.4 kA
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	7,000 / 4,000
design of the fuse link for short-circuit protection of the	fuse gL/gG: 10 A
auxiliary switch required	1030 gEgo. 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 standard mounting rail
height	57.5 mm
width	45 mm
depth	117 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	screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>— solid or stranded</li></ul>	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)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
Safety related data	
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 %
with high demand rate according to SN 31920	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 y
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	
, ,	





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

**Dangerous Good** 



Confirmation



<u>Transport Information</u>

### **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=3RH2262-1BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2262-1BB40

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

 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RH2262-1BB40}}$ 

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

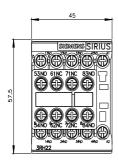
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2262-1BB40&lang=en

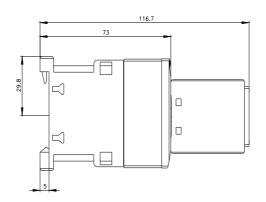
Characteristic: Tripping characteristics, I2t, Let-through current

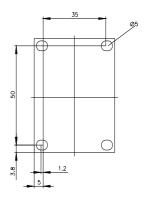
https://support.industry.siemens.com/cs/ww/en/ps/3RH2262-1BB40/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2262-1BB40&objecttype=14&gridview=view1







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