SIEMENS

Data sheet 3RH2362-2BC40



Contactor relay, 6 NO + 2 NC, 30 V DC, Size S00, spring-type terminal, Removable auxiliary switch

Size of contactor Size of contactor Product extension auxiliary switch No		
product type designation 3RH2 50ncral technical data 50ncral technical data	product brand name	SIRIUS
Size of contactor SOO product extension auxiliary switch No power loss FWJ for rated value of the current without load current share typical insulation voltage with degree of pollution 3 at AC rated value 800 V degree of pollution 3 as V SOO surge voltage resistance rated value SOO SOO SOO SOO SOO SOO SOO SOO SOO SO	product designation	Auxiliary contactor
size of contactor product extension auxiliary switch product extension auxiliary switch share typical insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value 6 kV shock resistance at rectangular impulse • at AC • at DC • at DC • at AC • at DC To contactor typical • of contactor typical • of contactor typical • of winding operation • during storage relative humidity an ish frequency • at AC •	product type designation	3RH2
product extension auxiliary switch No	General technical data	
power loss [W] for rated value of the current without load current share typical insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 surge voltage resistance rated value 6kV shock resistance at rectangular impulse	size of contactor	S00
Insulation voltage with degree of pollution 3 at AC rated value 690 V	product extension auxiliary switch	No
degree of poliution 3		4 W
Surge voltage resistance at rectangular impulse	insulation voltage with degree of pollution 3 at AC rated value	690 V
shock resistance at rectangular impulse	degree of pollution	3
at AC at DC 10g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse at AC at DC 11,4g / 5 ms, 7,3g / 10 ms at DC 11,4g / 5 ms, 7,3g / 10 ms at DC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) of contactor typical of contactor typical 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 during operation during storage 55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit no-load switching frequency at AC a	surge voltage resistance rated value	6 kV
• at DC shock resistance with sine pulse • at AC • at DC • at DC • ot Tog / 5 ms, 8g / 10 ms mechanical service life (operating cycles) • of contactor typical • of control supply voltage • of control supply voltage at DC • of control supply voltage rated value • of control typical • of the control supply voltage rated value of magnet coil at DC • initial value • of contactor typical • of the control supply voltage rated value of magnet coil at DC • initial value	shock resistance at rectangular impulse	
shock resistance with sine pulse at AC at DC to 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) of contactor typical to 000 000 reference code according to IEC 81346-2 K Substance Prohibitance (Date) Installation altitude at height above sea level maximum ambient temperature during operation during storage relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit no-load switching frequency at AC at AC at AC 10 000 1/h at DC control supply voltage at DC related value operating range factor control supply voltage rated value of magnet coil at DC e initial value 0.8	• at AC	7,3g / 5 ms, 4,7g / 10 ms
at AC at DC	• at DC	10g / 5 ms, 5g / 10 ms
• at DC mechanical service life (operating cycles) • of contactor typical reference code according to IEC 81346-2 K Substance Prohibitance (Date) Anbient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage relative humidity at 55 °C according to IEC 60068-2-30 maximum Wain circuit no-load switching frequency • at AC • at DC or at DC control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC • rated value or entail value of control supply voltage rated value of magnet coil at DC • initial value 0.8	shock resistance with sine pulse	
mechanical service life (operating cycles)	• at AC	11,4g / 5 ms, 7,3g / 10 ms
of contactor typical reference code according to IEC 81346-2 K Substance Prohibitance (Date) Installation altitude at height above sea level maximum ambient temperature ouring operation during storage during storage relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit no-load switching frequency at AC at AC at DC at DC outprocessory outprocessory type of voltage of the control supply voltage control supply voltage at DC o rated value operating range factor control supply voltage rated value of magnet coil at DC o initial value or initial value 10 000 000 10 000 000 10 000 1/h 10 000 1/h 20 000 30 V	• at DC	15g / 5 ms, 8g / 10 ms
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 • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Main circuit no-load switching frequency • at AC 10 000 1/h • at DC 10 0000 1/h Control circuit/ Control type of voltage of the control supply voltage DC control supply voltage at DC • rated value 30 V Operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8	mechanical service life (operating cycles)	
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage -25 +80 °C 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 • at DC Control circuit/ Control type of voltage of the control supply voltage or rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8	of contactor typical	10 000 000
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 circuit/ Control type of voltage of the control supply voltage control supply voltage at DC are taded value operating range factor control supply voltage rated value of magnet coil at DC initial value 0.8	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 • at DC control circuit/ Control type of voltage of the control supply voltage or rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value one during storage -25 +60 °C -25 +80 °C -55 +80 °C -55 +80 °C -55 +80 °C -10 % 95 % -10 % -10 % -20 1/h -20	Substance Prohibitance (Date)	10/01/2009
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 or rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value output - 25 +60 °C - 55 +80 °C - 10 % 95 % 95 % 95 % 95 % 95 % 95 % 95 % 95 % 95 % 95 % 95 % 95 % 90 1/h 90 000 1/h	Ambient conditions	
 during operation during storage 55 +80 °C 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 10 000 1/h at DC at DC 10 000 1/h Control circuit/ Control type of voltage of the control supply voltage orated value operating range factor control supply voltage rated value of magnet coil at DC initial value 0.8 	installation altitude at height above sea level maximum	2 000 m
during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30	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 10 000 1/h 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 0.8	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit no-load switching frequency	during storage	-55 +80 °C
maximum Main circuit 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 operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8	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 operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8		95 %
at AC at DC 10 000 1/h 10 000 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC a rated value operating range factor control supply voltage rated value of magnet coil at DC initial value 0.8	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 10 000 1/h DC 30 V 0.8	no-load switching frequency	
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 0.8	• 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 0.8	• at DC	10 000 1/h
control supply voltage at DC	Control circuit/ Control	
• rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8	type of voltage of the control supply voltage	DC
operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8	control supply voltage at DC	
magnet coil at DC	rated value	30 V
• full-scale value 1.1	initial value	0.8
	• full-scale value	1.1

closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	7 VV
• at DC	30 100 ms
	50 100 IIIS
opening delay	7 40 200
• at DC	7 13 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	6
instantaneous contact identification number and letter for puttobing plane at a	6
identification number and letter for switching elements	62 E
operational current at AC-12 maximum	10 A
operational current at AC-15	0.4
• at 230 V rated value	6 A
• at 400 V rated value	3 A
at 500 V rated value at 690 V rated value	2 A 1 A
	1A
operational current at 1 current path at DC-12 • at 24 V rated value	10 A
at 24 V rated value at 110 V rated value	3 A
at 110 V rated value at 220 V rated value	1A
at 220 V rated value 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	0.15 A
• at 24 V rated value	10 A
• at 60 V rated value	10 A
at 100 V rated value 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	0.00 A
• 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	6 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	
at 24 V rated value	10 A
at 60 V rated value	4.7 A
at 110 V rated value	3 A
at 220 V rated value	1.2 A
at 440 V rated value	0.5 A
at 600 V rated value	0.26 A
operating frequency at DC-13 maximum	1 000 1/h

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	70 mm
width	45 mm
depth	121 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— 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	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 12)
Safety related data	
product function positively driven operation according to IEC 60947-5-1	Yes
B10 value with high 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 	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 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	
11.7.7	



Confirmation





<u>KC</u>



EMC Declaration of Conformity Test Certificates Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Dangerous Good

Confirmation



Vibration and Shock

Transport Information

Further information

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=3RH2362-2BC40

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RH2362-2BC40}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2362-2BC40

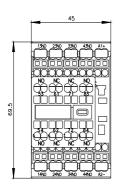
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

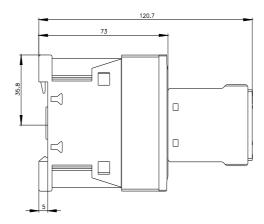
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2362-2BC40&lang=en

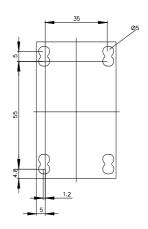
Characteristic: Tripping characteristics, I2t, Let-through current

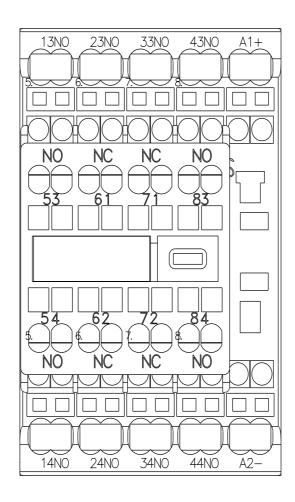
https://support.industry.siemens.com/cs/ww/en/ps/3RH2

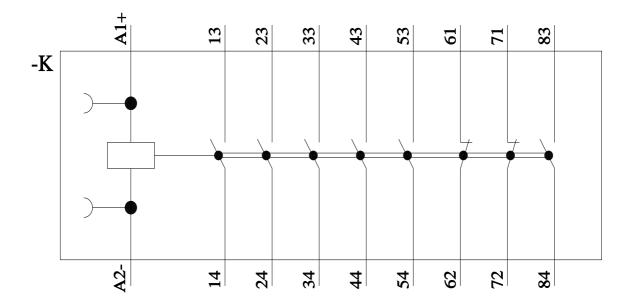
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2362-2BC40&objecttype=14&gridview=view1











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