## SIEMENS

## Data sheet

## 3RH2244-1BF40



contactor relay, 4 NO + 4 NC, 110 V DC, size S00, screw terminal, captive auxiliary switch

product brand name	SIRIUS				
product designation	Auxiliary contactor				
product type designation	3RH2				
General technical data					
size of contactor	S00				
product extension auxiliary switch	No				
power loss [W] for rated value of the current without load currentshare typical	4 W				
insulation voltage with degree of pollution 3 at AC rated value	690 V				
degree of pollution	3				
surge voltage resistance rated value	6 kV				
shock resistance at rectangular impulse					
• at DC	10g / 5 ms, 5g / 10 ms				
shock resistance with sine pulse					
• at DC	15g / 5 ms, 8g / 10 ms				
mechanical service life (operating cycles)					
of contactor typical	10 000 000				
reference code according to IEC 81346-2	К				
Substance Prohibitance (Date)	10/01/2009				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
<ul> <li>during operation</li> </ul>	-25 +60 °C				
during storage	-55 +80 °C				
relative humidity minimum	10 %				
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %				
Main circuit					
no-load switching frequency					
• at AC	10 000 1/h				
• at DC	10 000 1/h				
Control circuit/ Control					
type of voltage of the control supply voltage	DC				
control supply voltage at DC					
rated value	110 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				
holding power of magnet coil at DC	4 W				

closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	4
instantaneous contact	4
number of NO contacts for auxiliary contacts	4
<ul> <li>instantaneous contact</li> </ul>	4
identification number and letter for switching elements	44 E
operational current at AC-12 maximum	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
at 600 V rated value	0.15 A
operational current with 2 current paths in series at DC-12	
• at 24 V rated value	10 A
• at 60 V rated value	10 A
at 110 V rated value	4 A
at 220 V rated value	2 A
at 440 V rated value	1.3 A
• at 600 V rated value     operational current with 3 current paths in series at DC-12	0.65 A
at 24 V rated value	10 A
at 24 V rated value     at 60 V rated value	10 A
at 100 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 millio	n(17)(1mA)		
contact reliability of auxiliary contacts	Traulty switching per 100 millio	II (17 V, TIIIA)		
UL/CSA ratings	A600 / Q600			
contact rating of auxiliary contacts according to UL	A6007 Q600			
Short-circuit protection	5 1/ O 40 A	_		
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 ver	tical mounting surface: ca	n be tilted forward and	
mounting position	backward by +/- 22.5° on vertic			
fastening method	screw and snap-on mounting onto 35 mm DIN rail			
height	57.5 mm			
width	45 mm			
depth	117 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	io min			
— 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				
for auxiliary contacts	0 (0 5 4 5 2) 0 (0 75	0.5 % 0.4 %		
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>			
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
<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	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				
Confirmation	~	KC		
(SA) (m)	(Ui)	<u>_</u> _	CUL	
			гпі	
	$\sim$		LIIL	
	UL			
CSA CCC	UL			
	UL			
EMC Functional Safety/Safety of Ma Declaration of	UL	Tost Cortificator		
EMC Functional Safety/Safety of Ma- chinery	Conformity	Test Certificates	LIIL	
EMC Safety/Safety of Ma- Declaration of	Conformity	Test Certificates		

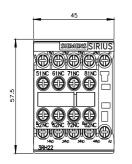
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Register urs	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	
KMRS RMRS	<u>Confirmation</u>		Vibration and Shock	Transport Information	
https://press.siemens.c Siemens is working o Please contact your loc	to exit the Russian mark com/global/en/pressrelease on the renewal of the curre cal Siemens office on the st other than the sanctioned E	/siemens-wind-down-rus ent EAC certificates. tatus of validity of the EA	C certification if you intend	d to import or offer to supp	bly these products to an
Information on the pa https://support.industry	ckaging .siemens.com/cs/ww/en/vie /nloadcenter (Catalogs, B om/ic10	ew/109813875			
https://mall.industry.sie Cax online generator http://support.automatic Service&Support (Ma	mens.com/mall/en/en/Cata on.siemens.com/WW/CAXc nuals, Certificates, Chara	order/default.aspx?lang= acteristics, FAQs,)		2	
	siemens.com/cs/ww/en/ps				

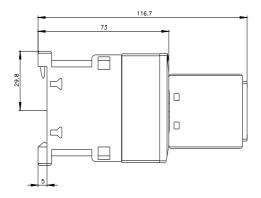
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

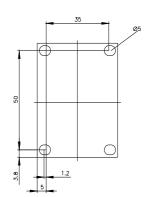
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2244-1BF40&lang=en

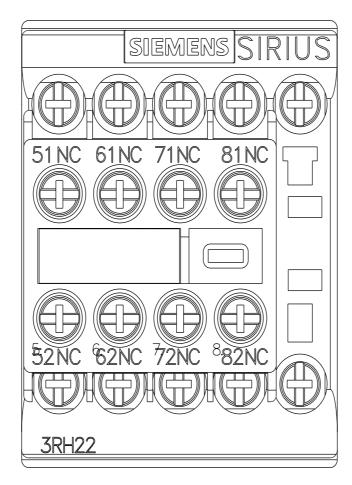
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2244-1BF40/char

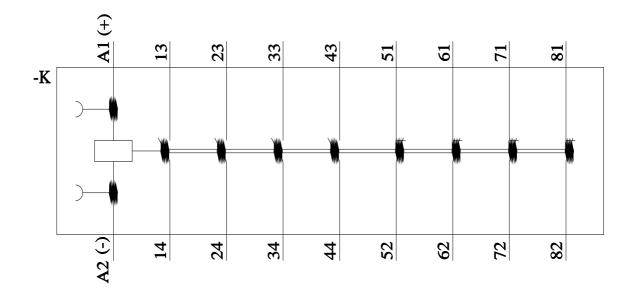
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2244-1BF40&objecttype=14&gridview=view1











last modified:

7/14/2023 🖸

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3RH22441BF40