SIEMENS

Data sheet 3RT2317-1BB40



Contactor, AC-1, 22 A/400 V/40 $^{\circ}$ C, S00, 4-pole, 24 V DC, screw terminal

product brand name	SIRIUS		
product designation	Contactor		
product type designation	3RT23		
General technical data			
size of contactor	S00		
product extension			
 function module for communication 	No		
auxiliary switch	Yes		
insulation voltage			
 of main circuit with degree of pollution 3 rated value 	690 V		
surge voltage resistance			
 of main circuit rated value 	6 kV		
 of auxiliary circuit rated value 	6 kV		
shock resistance at rectangular impulse			
• at DC	7.3g / 5 ms, 4.7g / 10 ms		
shock resistance with sine pulse			
• at DC	11,4g / 5 ms, 7,3g / 10 ms		
mechanical service life (switching cycles)			
 of contactor typical 	30 000 000		
 of the contactor with added auxiliary switch block typical 	10 000 000		
reference code acc. to IEC 81346-2	Q		
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		
during storage	-55 +80 °C		
relative humidity minimum	10 %		
relative humidity during operation	10 95 %		
relative humidity at 55 °C acc. to IEC 60068-2-30 maximum	95 %		
Main circuit			
number of poles for main current circuit	4		
number of NO contacts for main contacts	4		
operational current			
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	22 A		

• at AC-1			
 up to 690 V at ambient temperature 40 °C rated value 	22 A		
 up to 690 V at ambient temperature 60 °C rated value 	20 A		
• at AC-3			
— at 400 V rated value	12 A		
at AC-4 at 400 V rated value	8.5 A		
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²		
operating power			
at AC-3 at 400 V rated value	5.5 kW		
 at AC-4 at 400 V rated value 	4 kW		
short-time withstand current in cold operating state up to 40 °C			
 limited to 1 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value		
limited to 30 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value		
Iimited to 60 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency	- I will think		
• at DC	10 000 1/h		
operating frequency at AC-1 maximum	1 000 1/h		
Control circuit/ Control			
	DC		
type of voltage	DC DC		
type of voltage of the control supply voltage	DC		
control supply voltage at DC	04.1/		
• rated value	24 V		
operating range factor control supply voltage rated value of magnet coil at DC			
• initial value	0.8		
• full-scale value			
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		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NC contacts for auxiliary contacts			
attachable	2		
number of NO contacts for auxiliary contacts			
 attachable 	2		
Short-circuit protection			
product function short circuit protection	No		
design of the fuse link			
for short-circuit protection of the main circuit			
— with type of coordination 1 required	gG: 35 A (690 V, 100 kA)		
— with type of assignment 2 required	gG: 20 A (690 V, 100 kA)		
for short-circuit protection of the auxiliary switch	gG: 10 A (690 V, 1 kA)		
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 according to DIN EN 60715		
side-by-side mounting	Yes		
height	58 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			
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 main current circuit	screw-type terminals			
	screw-type terminals			
for auxiliary and control circuit type of connectable conductor cross-sections	screw-type terminals			
• for main contacts				
	2v (0 5 1 5 mm²) 2v (0 7	E 2.5 mm²) 2v.4 mm²		
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²			
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²			
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
at AWG cables for main contacts	2x (20 16), 2x (18 14),	2X 12		
connectable conductor cross-section for main contacts				
• solid	0.5 4 mm²			
solid or stranded	0.5 4 mm ²			
stranded	0.5 4 mm ²			
finely stranded with core end processing	0.5 2.5 mm ²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm²			
type of connectable conductor cross-sections				
for auxiliary contacts				
— solid	2x (0.5 1.5 mm²), 2x (0.7	5 2.5 mm²)		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²			
finely stranded with core end processing	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			
AWG number as coded connectable conductor cross				
section				
• for main contacts	20 12			
 for auxiliary contacts 	20 12			
afety related data				
product function mirror contact acc. to IEC 60947-4-1	Yes; with 3RH29			
T1 value for proof test interval or service life acc. to	20 y			
IEC 61508				
protection class IP on the front acc. to IEC 60529	IP20			
touch protection on the front acc. to IEC 60529	finger-safe, for vertical conf	finger-safe, for vertical contact from the front		
Communication/ Protocol				
product function bus communication	No			
ertificates/ approvals				
			Functional	
General Product Approval		EMC	Safety/Safety of	











Type Examination
Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping

UK Declaration of Conformity



Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping











Confirmation

other

other



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=3RT2317-1BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2317-1BB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-1BB40

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

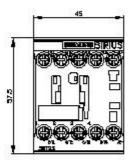
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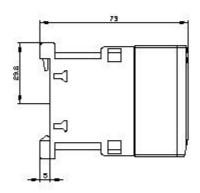
Characteristic: Tripping characteristics, I²t, Let-through current

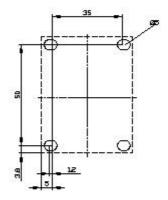
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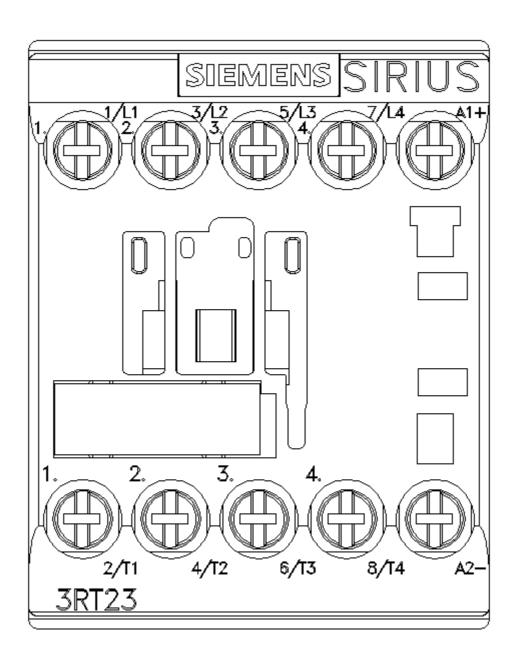
Further characteristics (e.g. electrical endurance, switching frequency)

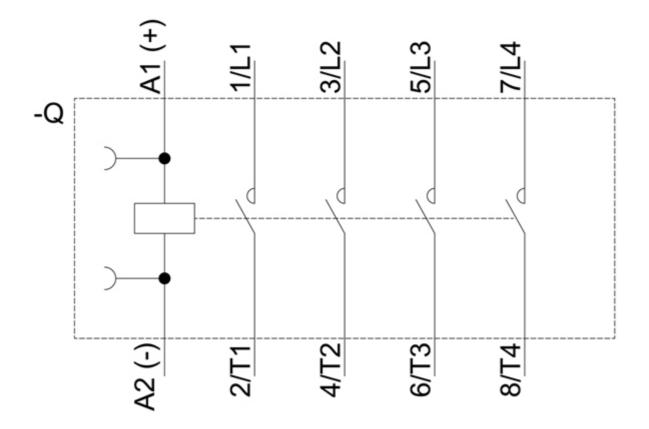
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