SIEMENS

Data sheet 3RT2317-2AK60



Contactor, AC-1, 22 A/400 V/40 °C, S00, 4-pole, 110 V AC/50 Hz, 120 V/60 Hz, Spring-type 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		
power loss [W] for rated value of the current			
 at AC in hot operating state 	6.4 W		
at AC in hot operating state per pole	1.6 W		
insulation voltage			
 of main circuit with degree of pollution 3 rated value 	690 V		
 of the auxiliary and control 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 AC	7,3g / 5 ms, 4,7g / 10 ms		
shock resistance with sine pulse			
• at AC	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 according to IEC 81346-2	Q		
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 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 	22 A
rated value — up to 690 V at ambient temperature 60 °C	20 A
rated value ● 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 mm²
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
limited to 60 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage	AC
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
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	36 VA
● at 60 Hz	36 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	5.9 VA
• at 60 Hz	5.9 VA
inductive power factor with the holding power of the coil	0.24
• at 50 Hz	0.24
• at 60 Hz	0.24
closing delay	0. 25 mg
• at AC	9 35 ms
opening delay • at AC	7 13 ms
arcing time	7 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Otalidaid A1 - A2
number of NC contacts for auxiliary contacts	
 attachable 	2
attachable number of NO contacts for auxiliary contacts.	2
number of NO contacts for auxiliary contacts	
number of NO contacts for auxiliary contacts • attachable	2
number of NO contacts for auxiliary contacts	

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 required 	gG: 10 A (690 V, 1 kA)	
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	70 mm	
width	45 mm	
depth	73 mm	
required spacing		
with side-by-side mounting	40	
— forwards	10 mm	
— upwards	10 mm	
— downwards— at the side	10 mm 0 mm	
	O THIII	
for grounded partsforwards	10 mm	
— lorwards — upwards	10 mm	
— upwarus — at the side	6 mm	
— downwards	10 mm	
for live parts	10 11111	
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	6 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit	spring-loaded terminals	
 for auxiliary and control circuit 	spring-loaded terminals	
at contactor for auxiliary contacts	Spring-type terminals	
of magnet coil	Spring-type terminals	
type of connectable conductor cross-sections		
• for main contacts		
— solid	2x (0.5 4 mm²)	
— 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)	
at AWG cables for main contacts	2x (20 12)	
connectable conductor cross-section for main contacts		
• solid	0.5 4 mm²	
 solid or stranded 	0.5 4 mm²	
• stranded	0.5 4 mm²	
finely stranded with core end processing	0.5 2.5 mm ²	
finely stranded without core end processing	0.5 2.5 mm²	
connectable conductor cross-section for auxiliary contacts		
 solid or stranded 	0.5 4 mm²	
 finely stranded with core end processing 	0.5 2.5 mm ²	
finely stranded without core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
for auxiliary contacts		
— solid	2x (0.5 2.5 mm²)	
-	2x (0.5 2.5 mm²) 2x (0,5 4 mm²) 2x (0.5 2.5 mm²)	

 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
 at AWG cables for auxiliary contacts 	2x (20 12)	
AWG number as coded connectable conductor cross section		
 for main contacts 	20 12	
 for auxiliary contacts 	20 12	
Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29	
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	
Communication/ Protocol		
product function bus communication	No	
Certificates/ approvals		
General Product Approval		EMC

(1)

Confirmation









Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Environmental Confirmations Confirmation



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=3RT2317-2AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2317-2AK60

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

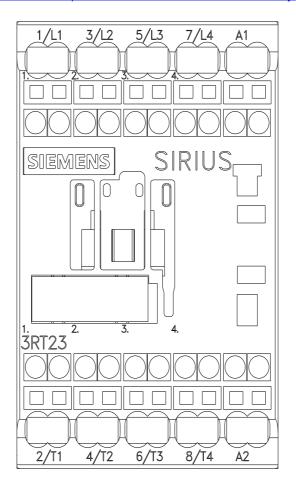
https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-2AK60

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2317-2AK60&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-2AK60/char



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