SIEMENS

Data sheet 3RT2327-1AP60



Contactor, AC-1, 50 A/400 V/40 °C, S0, 4-pole, 220 V AC/50 Hz, 240 V/60 Hz, 1 NO+1 NC, screw terminal

product brand name	SIRIUS	
product designation	Contactor	
product type designation	3RT23	
General technical data		
size of contactor	S0	
product extension		
 function module for communication 	No	
auxiliary switch	Yes	
surge voltage resistance		
 of main circuit rated value 	6 kV	
 of auxiliary circuit rated value 	6 kV	
shock resistance at rectangular impulse		
• at AC	8,3g / 5 ms, 5,3g / 10 ms	
shock resistance with sine pulse		
• at AC	13,5g / 5 ms, 8,3g / 10 ms	
mechanical service life (switching cycles)		
 of contactor typical 	10 000 000	
of the contactor with added auxiliary switch block typical	100 000 000	
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	
 ambient temperature during operation ambient temperature during storage	-25 +60 °C -55 +80 °C	
	··· · · · · ·	
ambient temperature during storage	-55 +80 °C	
ambient temperature during storage relative humidity during operation	-55 +80 °C	
ambient temperature during storage relative humidity during operation Main circuit	-55 +80 °C 95 %	
ambient temperature during storage relative humidity during operation Main circuit number of poles for main current circuit number of NO contacts for main contacts	-55 +80 °C 95 %	
ambient temperature during storage relative humidity during operation Main circuit number of poles for main current circuit	-55 +80 °C 95 %	
ambient temperature during storage relative humidity during operation Main circuit number of poles for main current circuit number of NO contacts for main contacts operating voltage at AC	-55 +80 °C 95 % 4 4	
ambient temperature during storage relative humidity during operation Main circuit number of poles for main current circuit number of NO contacts for main contacts operating voltage at AC — at 50 Hz rated value	-55 +80 °C 95 % 4 4 690 V	
ambient temperature during storage relative humidity during operation Main circuit number of poles for main current circuit number of NO contacts for main contacts operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value	-55 +80 °C 95 % 4 4 690 V	
ambient temperature during storage relative humidity during operation Main circuit number of poles for main current circuit number of NO contacts for main contacts operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value operational current at AC-1 at 400 V at ambient temperature 40 °C	-55 +80 °C 95 % 4 4 690 V 690 V	

— up to 690 V at ambient temperature 60 °C	42 A
rated value	45.5 A
at AC-3 at 400 V rated value	15.5 A
at AC-4 at 400 V rated value AC-4 The interval acceptance and in the interval at the province AC-4.	15.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operating power	
at AC-3 at 400 V rated value	7.5 kW
at AC-4 at 400 V rated value	7.5 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	5 000 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	220 V
• control supply voltage at AC at 60 Hz rated value	240 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	81 V·A
• at 60 Hz	79 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 V·A
• at 60 Hz	8.5 V·A
inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.25
● at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
 attachable 	2
instantaneous contact	1
number of NO contacts for auxiliary contacts	1
• attachable	2
instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 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 DC-12			
 at 24 V rated value 	10 A		
 at 48 V rated value 	6 A		
at 60 V rated value	6 A		
at 110 V rated value	3 A		
• at 125 V rated value	2 A		
at 220 V rated value	1 A		
• at 600 V rated value	0.15 A		
operational current at DC-13			
at 24 V rated value	10 A		
● at 48 V rated value	2 A		
• at 110 V rated value	1 A		
• at 125 V rated value	0.9 A		
at 220 V rated value	0.3 A		
● at 600 V rated value	0.1 A		
design of the miniature circuit breaker for short-circuit	gG: 10 A (230 V, 400 A)		
protection of the auxiliary switch required			
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			
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: 63 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	ge:(,		
Installation/ mounting/ dimensions			
·	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
Installation/ mounting/ dimensions mounting position	forward and backward by +/- 22.5° on vertical mounting surface		
Installation/ mounting/ dimensions			
Installation/ mounting/ dimensions mounting position	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail		
Installation/ mounting/ dimensions mounting position fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — torwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side • at the side • at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 0 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 6 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — at the side — forwards — at the side — downwards • for live parts — forwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — downwards • for live parts — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards — downwards — downwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for live parts — forwards — upwards — downwards — at the side — downwards — at the side — downwards — at the side — downwards — upwards — upwards — upwards — upwards — at the side Connections/ Terminals	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — for live parts — forwards — upwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — upwards — at the side Connections/ Terminals type of electrical connection	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for live parts — forwards — upwards — at the side — downwards • at the side — downwards — at the side — downwards — at the side — downwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm		
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — upwards — upwards — at the side Connections/ Terminals type of electrical connection	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		

for main contacts		
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
solid solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2,5 mm²), 2x (2,5 10 mm²)	
 finely stranded with core end processing at AWG cables for main contacts 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
connectable conductor cross-section for main	2x (16 12), 2x (14 8)	
contacts		
• solid	1 10 mm²	
 solid or stranded 	1 10 mm²	
• stranded	1 10 mm²	
finely stranded with core end processing	1 10 mm²	
connectable conductor cross-section for auxiliary contacts		
 solid or stranded 	0.5 2.5 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 (0.75 2.5 mm²)	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 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)	
 AWG number as coded connectable conductor cross section for main contacts 	16 8	
 AWG number as coded connectable conductor cross section for auxiliary contacts 	20 14	
Safety related data		
product function		
 mirror contact acc. to IEC 60947-4-1 	Yes	
T1 value for proof test interval or service life acc. to IEC 61508	20 y	
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
Communication/ Protocol		
product function bus communication	No	
Certificates/ approvals		
		Declaration of

General Product Approval

EMC

Declaration of Conformity













Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous

Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

other







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=3RT2327-1AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2327-1AP60

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

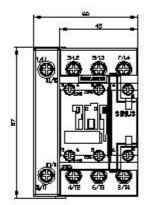
https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-1AP60

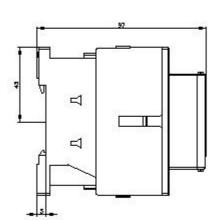
Characteristic: Tripping characteristics, I2t, Let-through current

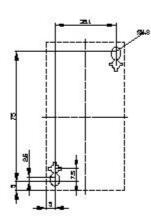
https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-1AP60/char

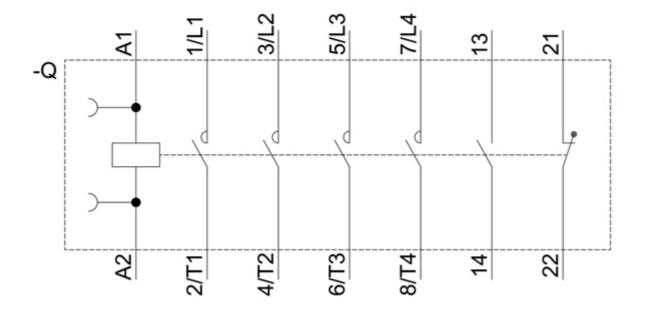
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2327-1AP60&objecttype=14&gridview=view1









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