SIEMENS

Data sheet

3RT2336-1AL20



Contactor, AC-1, 60 A/400 V/40 $^\circ\text{C},$ S2, 4-pole, 230 V AC, 50/60 Hz, 1 NO+1 NC, screw terminal

product brand name	SIRIUS	
product designation	Contactor	
product type designation	3RT23	
General technical data		
size of contactor	S2	
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 	12.8 W	
 at AC in hot operating state per pole 	3.2 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	11.8g / 5 ms, 7.4g / 10 ms	
shock resistance with sine pulse		
• at AC	18.5g / 5 ms, 11.6g / 10 ms	
mechanical service life (switching cycles)		
 of contactor typical 	10 000 000	
 of the contactor with added auxiliary switch block typical 	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2014	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-40 +70 °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	60 A
 at AC-1 up to 690 V at ambient temperature 40 °C rated value 	60 A
— up to 690 V at ambient temperature 60 °C rated value	55 A
• at AC-3	
— at 400 V rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²
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
Imited to 60 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	E 000 4/
• at AC	5 000 1/h
operating frequency at AC-1 maximum	700 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	000.17
at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
● at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	40 40
• at AC	10 18 ms 10 20 ms
arcing time control version of the switch operating mechanism	10 20 ms Standard A1 - A2
	Standard AT - AZ
Auxiliary circuit	1
number of NC contacts for auxiliary contacts attachable 	1 2
altachable instantaneous contact	2
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 	1A
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	go. 1077 (200 V, 10077)
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 / P600
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: 160 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 63 A (690 V,100 kA)
 for short-circuit protection of the auxiliary switch 	gG: 10 A (690 V, 1 kA)
required	90. 10 A (000 V, 11A)
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions mounting position	+/-180° rotation possible on vertical mounting surface: can be tilted
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
	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
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
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
mounting position fastening method o 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 114 mm
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 114 mm 75 mm
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 114 mm
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 114 mm 75 mm
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 114 mm 75 mm 130 mm
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 114 mm 75 mm 130 mm
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 114 mm 75 mm 130 mm
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 114 mm 75 mm 130 mm
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 114 mm 75 mm 130 mm 10 mm
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 114 mm 75 mm 130 mm 10 mm 10 mm
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 114 mm 75 mm 130 mm 10 mm 10 mm
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 114 mm 75 mm 130 mm 10 mm 10 mm 0 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — 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 114 mm 75 mm 130 mm 10 mm 10 mm 0 mm 10 mm
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 — upwards — 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 114 mm 75 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — 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 114 mm 75 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm
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 — upwards — at the side — oforwards — upwards — other side — ownwards — at the side — downwards — 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 114 mm 75 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm
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 — oforwards — at the side — at the side — at the side — ownwards — ownwards — in the side — ownwards — in the side — ownwards — in the side — i	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 114 mm 75 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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 — at the side • for grounded parts — forwards — at the side — forwards — at the side — forwards — at the side — forwards — for live parts — forwards • 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 114 mm 75 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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 — at the side • for grounded parts — forwards — at the side — ownwards — at the side — forwards — at the side — downwards • for live parts — forwards • for live parts — upwards — 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 114 mm 75 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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 — oforwards — at the side — downwards — at the side — oforwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — at the side — 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 114 mm 75 mm 130 mm 10 mm
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 - at the side • for grounded parts - forwards - at the side - forwards - at the side - downwards • for live parts - forwards - upwards - at the side - 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 114 mm 75 mm 130 mm 10 mm
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 — at the side • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — at the side — downwards — at the side — upwards — at the side — downwards — at the side Oconnections/ 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 114 mm 75 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm
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 - at the side - downwards • for live parts - forwards - upwards - at the side - downwards - at the side - downwards - at the side - 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 114 mm 75 mm 130 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
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 — at the side • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — at the side — downwards — at the side — upwards — at the side — downwards — at the side Oconnections/ 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 114 mm 75 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm

 for main contacts solid or stranded solid or stranded at AWS cables for main contacts 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²) 2x (0 15 mm³), 2x (0.75 25 mm³) 2x (2 16 mm³), 2x (0.75 25 mm³) 2x (2 16 mm³), 2x (0.75 25 mm³) 2x (2 16 m³), 2x (0.75 25 m³) <		Screw-type terminals
- solid or stranded 2x (1 35 mm ²), 1x (1 50 mm ²), 2x (1 35 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²) connectable conductor cross-section for mail 0. Sinded 150 mm ² 150 mm ² connectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary 150 mm ² 150 mm ² 9 solid or stranded 150 mm ² 9 solid or stranded with core end processing 150 mm ² , 2x (0.75 2.5 mm ²) 2x (0 s 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0 s 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 solid or stranded with core end processing 150 runnicitation 150 runnicitation <		
• at AWG cables for main contacts 2x (182), 1x (181) connectable conductor cross-section for main contacts 150 mm³ • inley stranded with core end processing 150 mm³ connectable conductor cross-section for auxiliary contacts 0.52.5 mm² • inley stranded with core end processing 0.52.5 mm² • finely stranded with core end processing 0.52.5 mm² • for auxiliary contacts 50 mm² • solid 50 mm² • solid or stranded 0.52.5 mm² • for auxiliary contacts 50 mm² • aviliary contacts 15 mm²), 2x (0.75 2.5 mm²) • at AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • at AWG related tata 1015 mm²), 2x (0.75 2.5 mm²) • at AWG related tata 1015 mm²), 2x (0.75 2.5 mm²) • at AWG related tata 1015 mm²), 2x (0.75 2.5 mm²) • at AWG related tata 1015 mm²), 2x (0.75 2.5 mm²) • at AWG related tata 1015 mm²), 2x (0.75 2.5 mm²) • at AWG relate thereal o		
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• finely stranded with core end processing 1 35 mm ² • solid or stranded 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • or auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) • or auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) • or auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) • or auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) • or auxiliary contacts 18 1 • positively driven operation according to IEC 60947-5-1 Yes • tota protection on the front according to IEC 60947-5-1 No • Totaluce for proof test interval or service life according to 20 y Itest for proof test interval or service life according to IP20 forture for proot test interval or service life according to IP20 fortactes/ approvals KC Contrimation No		
connectable conductor cross-section for auxiliary contacts 0.52.5 mm³ • solid or stranded 0.52.5 mm³ • finely stranded with core end processing 0.52.5 mm³ • for auxiliary contacts 0.52.5 mm³ • solid or stranded 2.52.5 mm³ • solid or stranded 2.5	 solid or stranded 	1 50 mm²
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 inely stranded with core end processing inely stranded without core end processing of auxiliary contacts - solid - solid - solid at NVG cables for auxiliary contacts AVG number as coded connectable conductor cross sections i for auxiliary contacts i for auxiliary c		
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type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for main contacts • for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) Safety related data product	 finely stranded with core end processing 	0.5 2.5 mm²
 for auxiliary contacts solid solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for main contacts for auxiliary contacts 20 14 Safety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 T1 value for proof test interval or service life according to IEC 60529 protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front Confirmation No Certificates/ approvals Confirmation No Exercise Functional	 finely stranded without core end processing 	0.5 2.5 mm ²
 - solid 2x (0.5 1.5 mm³), 2x (0.75 2.5 mm³) 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section at AWG cables for auxiliary contacts b for auxiliary contacts 18 1 20 14 Safety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 Ves No 17 value for proof test interval or service life according to IEC 60947- 5-1 17 value for proof test interval or service life according to IEC 60529 touch protection on the front according to IEC 60529 forder function product function Product function on the front according to IEC 60529 forder function Dus communication No Confirmation Confirmation KC Euclimation Euclimation KC Euclimation Euclimation KC Euclimation Euc		
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Marine / Shipping



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