



CONTACTOR,AC3:37KW/400V, 1NO+1NC, 230V AC
50HZ, 3-POLE, SIZE S2, SCREW TERMINAL
UPRIGHT MOUNTING POSITION

Figure similar

product brand name	SIRIUS
Product designation	3RT2 contactor

General technical data:

Insulation voltage		
• Rated value	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
• of the contactor typical		10 000 000
• of the contactor with added electronics-compatible auxiliary switch block typical		5 000 000
• of the contactor with added auxiliary switch block typical		10 000 000
Thermal short-time current restricted to 10 s	A	640
Protection class IP		
• on the front		IP20
• of the terminal		IP00
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

Main circuit:

Number of poles for main current circuit		3
Number of NC contacts for main contacts		0
Number of NO contacts for main contacts		3
Operating voltage		

• at AC-3 Rated value maximum	V	690
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	A	90
— up to 690 V at ambient temperature 40 °C Rated value	A	90
— up to 690 V at ambient temperature 60 °C Rated value	A	80
• at AC-2 at 400 V Rated value	A	80
• at AC-3		
— at 400 V Rated value	A	80
— at 500 V Rated value	A	80
— at 690 V Rated value	A	58
• at AC-4 at 400 V Rated value	A	55
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	A	75
— at 110 V Rated value	A	4.5
— at 220 V Rated value	A	2
— at 440 V Rated value	A	0.4
— at 600 V Rated value	A	0.25
• at DC-3 at DC-5		
— at 24 V Rated value	A	35
— at 110 V Rated value	A	2.5
— at 220 V Rated value	A	2
— at 440 V Rated value	A	0.1
— at 600 V Rated value	A	0.06
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	A	75
— at 110 V Rated value	A	45
— at 220 V Rated value	A	5
— at 440 V Rated value	A	1
— at 600 V Rated value	A	0.8
• at DC-3 at DC-5		
— at 110 V Rated value	A	25
— at 220 V Rated value	A	5
— at 24 V Rated value	A	55
— at 440 V Rated value	A	0.27
— at 600 V Rated value	A	0.16
Operating current with 3 current paths in series		

<ul style="list-style-type: none"> • at DC-1 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 440 V Rated value — at 600 V Rated value • at DC-3 at DC-5 <ul style="list-style-type: none"> — at 110 V Rated value — at 220 V Rated value — at 24 V Rated value — at 440 V Rated value — at 600 V Rated value 	A	55
	A	45
	A	45
	A	2.9
	A	1.4
	A	45
	A	25
	A	55
	A	0.6
	A	0.6
Operating power		
<ul style="list-style-type: none"> • at AC-1 at 400 V Rated value • at AC-2 at 400 V Rated value • at AC-4 at 400 V Rated value 	kW	59
	kW	37
	kW	30
Operating power		
<ul style="list-style-type: none"> • at AC-1 <ul style="list-style-type: none"> — at 230 V at 60 °C Rated value — at 230 V Rated value — at 400 V at 60 °C Rated value — at 690 V at 60 °C Rated value — at 690 V Rated value • at AC-3 <ul style="list-style-type: none"> — at 230 V Rated value — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value 	kW	28
	kW	34
	kW	49
	kW	85
	kW	102
	kW	22
	kW	37
	kW	37
	kW	45
Operating power for ≥ 200000 operating cycles at AC-4		
<ul style="list-style-type: none"> • at 400 V Rated value • at 690 V Rated value 	kW	15.8
	kW	21.8
Operating frequency		
<ul style="list-style-type: none"> • at AC-3 maximum 	1/h	500
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC
Control supply voltage with AC		
<ul style="list-style-type: none"> • at 50 Hz Rated value 	V	230
Operating range factor control supply voltage rated value of the magnet coil with AC		
<ul style="list-style-type: none"> • at 50 Hz 		0.8 ... 1.1

Auxiliary circuit:

Number of NC contacts		
<ul style="list-style-type: none"> • for auxiliary contacts — instantaneous contact 		1
Number of NO contacts		
<ul style="list-style-type: none"> • for auxiliary contacts — instantaneous contact 		1
Product expansion Auxiliary switch		Yes
Operating current at AC-15		
<ul style="list-style-type: none"> • at 230 V Rated value • at 400 V Rated value • at 690 V Rated value 	A A A	10 3 1
Operating current		
<ul style="list-style-type: none"> • at DC-12 at 125 V Rated value • at DC-12 at 220 V Rated value • at DC-12 at 600 V Rated value • at DC-13 at 125 V Rated value • at DC-13 at 220 V Rated value • at DC-13 at 600 V Rated value 	A A A A A A	2 1 0.15 0.9 0.3 0.1
Operating current		
<ul style="list-style-type: none"> • at DC-12 — at 60 V Rated value — at 110 V Rated value • at DC-13 — at 24 V Rated value — at 60 V Rated value — at 110 V Rated value 	A A A A A A	6 3 10 2 1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings:

Full-load current (FLA) for three-phase AC motor		
<ul style="list-style-type: none"> • at 480 V Rated value • at 600 V Rated value 	A A	65 62
yielded mechanical performance [hp]		
<ul style="list-style-type: none"> • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value 	metric hp metric hp metric hp metric hp	5 15 20 25

<ul style="list-style-type: none"> • for three-phase AC motor at 460/480 V Rated value 	metric hp	50
<ul style="list-style-type: none"> • for three-phase AC motor at 575/600 V Rated value 	metric hp	60
Contact rating of the auxiliary contacts acc. to UL		A600 / P600

Short-circuit:

Design of the fuse link <ul style="list-style-type: none"> • for short-circuit protection of the main circuit <ul style="list-style-type: none"> — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required 		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A fuse gL/gG: 10 A
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Installation/ mounting/ dimensions:

mounting position		standing, on horizontal mounting surface
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
<ul style="list-style-type: none"> • Side-by-side mounting 		Yes
Height	mm	113.4
Width	mm	55
Depth	mm	130
Required spacing		
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side • for grounded parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — at the side — downwards • for live parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side 	mm	0 0 0 0 0 0 0 0 50 6 50 0 0 50 50 6

Connections/ Terminals:

Type of electrical connection		
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<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 		screw-type terminals screw-type terminals
Type of connectable conductor cross-section <ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — single or multi-stranded — finely stranded with core end processing • for AWG conductors for main contacts • for auxiliary contacts <ul style="list-style-type: none"> — single or multi-stranded — finely stranded with core end processing • for AWG conductors for auxiliary contacts 		2x (1 ... 35 mm ²), 1x (1 ... 50 mm ²) 2x (1 ... 25 mm ²), 1x (1 ... 35 mm ²) 2x (18 ... 2), 1x (18 ... 1) 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14)
Apparent pick-up power of the magnet coil with AC <ul style="list-style-type: none"> • at 50 Hz 	V·A	190

Safety related data:

Proportion of dangerous failures <ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 	%	40
	%	73
Product function Mirror contact acc. to IEC 60947-4-1		Yes
Protection against electrical shock		finger-safe when touched vertically from front acc. to IEC 60529


Mechanical data:

Size of contactor		S2
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Ambient conditions:

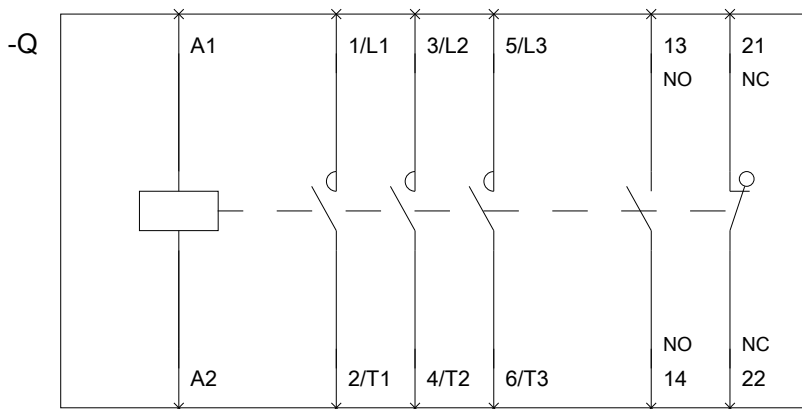
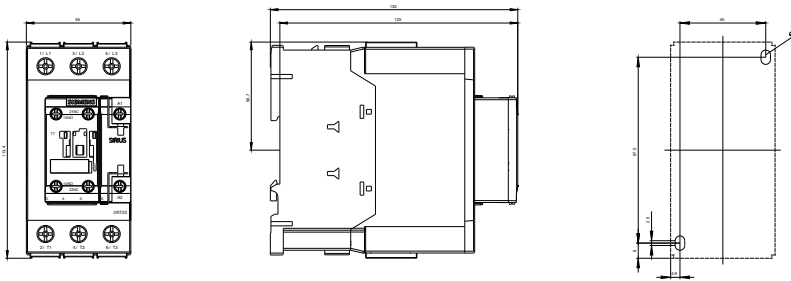
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
<ul style="list-style-type: none"> • during operation • during storage 	°C	-25 ... +60
	°C	-55 ... +80

Certificates/ approvals:

General Product Approval	other
  	Environmental Confirmations

Further information

- Information- and Downloadcenter (Catalogs, Brochures,...)**
<http://www.siemens.com/industrial-controls/catalogs>
- Industry Mall (Online ordering system)**
<http://www.siemens.com/industrymall>
- Cax online generator**
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20381AP001AA0>



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