



4NO CONTACTOR,AC1:60A 24V AC 50HZ, 4-POLE, 4NO, SIZE S2, SCREW TERMINAL 1NO+1NC INTEGRATED

Figure similar

product brand name	SIRIUS
Product designation	3RT2 contactor

General technical data:

Insulation voltage		
<ul style="list-style-type: none"> Rated value 	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
<ul style="list-style-type: none"> of the contactor typical of the contactor with added electronics-compatible auxiliary switch block typical of the contactor with added auxiliary switch block typical 		10 000 000 5 000 000 10 000 000
Protection class IP		
<ul style="list-style-type: none"> on the front of the terminal 		IP20 IP00
Equipment marking		
<ul style="list-style-type: none"> acc. to DIN EN 61346-2 acc. to DIN EN 81346-2 		Q Q

Main circuit:

Number of poles for main current circuit		4
Number of NC contacts for main contacts		0
Number of NO contacts for main contacts		4
Operating voltage		
<ul style="list-style-type: none"> at AC-3 Rated value maximum 	V	690

Operating current		
<ul style="list-style-type: none"> • at AC-1 <ul style="list-style-type: none"> — at 400 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value 	A	60 60 55
Operating current with 1 current path		
<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 DC-3 at DC-5 <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 	A A A A A A A A	55 4.5 1 0.4 20 2.5 1 0.1
Operating current with 2 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 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 	A A A A A A A A	55 45 5 1 25 5 55 0.27
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 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 	A A A A A A A A	55 45 45 2.9 45 25 55 0.6
Operating power		

<ul style="list-style-type: none"> • at AC-1 at 400 V Rated value 	kW	39
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 	kW	21
	kW	23
	kW	36
	kW	62
	kW	68
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	24
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 <ul style="list-style-type: none"> — instantaneous contact 		1
Number of NO contacts		
<ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — 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	10
	A	3
	A	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	2
	A	1
	A	0.15
	A	0.9
	A	0.3
	A	0.1
Operating current		
<ul style="list-style-type: none"> • at DC-12 <ul style="list-style-type: none"> — at 60 V Rated value — at 110 V Rated value • at DC-13 	A	6
	A	3

— at 24 V Rated value	A	10
— at 60 V Rated value	A	2
— at 110 V Rated value	A	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		
• at 600 V Rated value	A	17
yielded mechanical performance [hp]		
• for three-phase AC motor at 200/208 V Rated value	metric hp	5
• for three-phase AC motor at 220/230 V Rated value	metric hp	7.5
• for three-phase AC motor at 575/600 V Rated value	metric hp	15
Contact rating of the auxiliary contacts acc. to UL		A600 / P600

Short-circuit:

Design of the fuse link		
• for short-circuit protection of the main circuit		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A fuse gL/gG: 10 A
— with type of assignment 1 required		
— with type of assignment 2 required		
• for short-circuit protection of the auxiliary switch 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
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
• Side-by-side mounting		Yes
Height	mm	113.4
Width	mm	75
Depth	mm	130
Required spacing		
• with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0

— upwards	mm	50
— at the side	mm	6
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	6

Connections/ Terminals:

Type of electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (1 ... 35 mm ²), 1x (1 ... 50 mm ²)
— finely stranded with core end processing		2x (1 ... 25 mm ²), 1x (1 ... 35 mm ²)
• for AWG conductors for main contacts		2x (18 ... 2), 1x (18 ... 1)
• for auxiliary contacts		
— single or multi-stranded		2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²)
— finely stranded with core end processing		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• for AWG conductors for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)
Apparent pick-up power of the magnet coil with AC		
• at 50 Hz	V·A	190

Safety related data:

Proportion of dangerous failures		
• with low demand rate acc. to SN 31920	%	40
• with high demand rate acc. to SN 31920	%	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

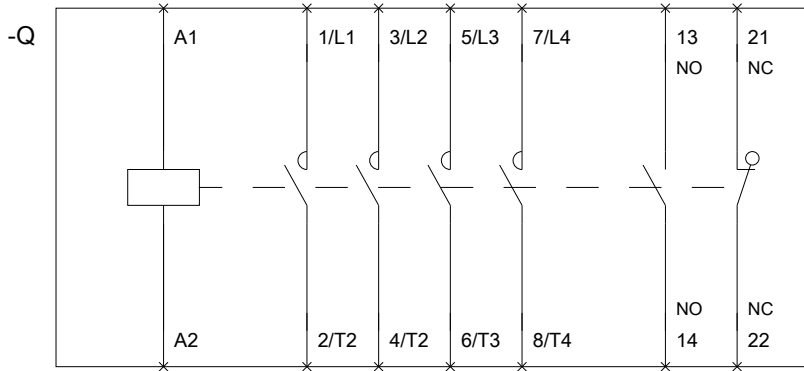
Mechanical data:

Size of contactor		S2
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Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-40 ... +70
• during storage	°C	-55 ... +80

Certificates/ approvals:



last modified:

11.03.2015