SIEMENS

Product data sheet

3RT2036-1AV04



CONTACTOR,AC3:22KW/400V, 2NO+2NC, 400V AC 50HZ, 3-POLE, SIZE S2, SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
Size of contactor		S2
Product expansion		
Auxiliary switch		No
function module for communication		No
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 +80
• during operation	°C	-25 +60
Surge voltage resistance / Rated value	kV	6
Insulation voltage / Rated value	V	690
maximum permissible voltage for safe isolation / between coil and main contacts / acc. to EN 60947-1	V	400
Mechanical service life (switching cycles)		
of the contactor / typical		10,000,000
of the contactor with added auxiliary switch block / typical		10,000,000
 of the contactor with added electronics-compatible auxiliary switch block / typical 		5,000,000

Main circuit:		
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Connectable conductor cross-section / in main circuit		
• at AC-1		
• at 40 °C / minimum permissible	mm²	25
• at 60 °C / minimum permissible	mm²	25
Operating current		
• at AC-1 / up to 690 V		
• at ambient temperature 40 °C / Rated value	А	70
• at ambient temperature 60 °C / Rated value	A	60
• at AC-2 / at 400 V / Rated value	A	51
• at AC-3		
• at 400 V / Rated value	А	51
• at 500 V / Rated value	А	50
• at 690 V / Rated value	А	24
• at AC-4 / at 400 V / Rated value	А	41
Operating current / for \geq 200000 operating cycles / at AC-4		
• at 400 V / Rated value	А	24
• at 690 V / Rated value	А	20
Operating current		
• with 1 current path / at DC-1		
• at 24 V / Rated value	А	60
• at 110 V / Rated value	А	4.5
• at 220 V / Rated value	A	2
• at 440 V / Rated value	А	0.4
• at 600 V / Rated value	А	0.25
• with 2 current paths in series / at DC-1		
• at 24 V / Rated value	А	60
• at 110 V / Rated value	А	45
• at 220 V / Rated value	А	5
• at 440 V / Rated value	А	1
• at 600 V / Rated value	А	0.8
• with 3 current paths in series / at DC-1		
• at 24 V / Rated value	А	55
• at 110 V / Rated value	А	45
• at 220 V / Rated value	А	45
• at 440 V / Rated value	А	2.9
• at 600 V / Rated value	А	1.4

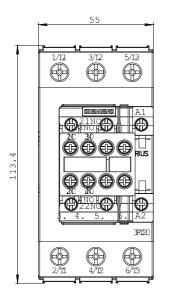
Operating current		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / Rated value	А	35
• at 110 V / Rated value	А	2.5
• at 220 V / Rated value	А	2
• at 440 V / Rated value	А	0.1
• at 600 V / Rated value	А	0.06
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	А	55
• at 110 V / Rated value	А	25
• at 220 V / Rated value	А	5
• at 440 V / Rated value	А	0.27
• at 600 V / Rated value	А	0.16
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	А	55
• at 110 V / Rated value	А	45
• at 220 V / Rated value	А	25
• at 440 V / Rated value	А	0.6
• at 600 V / Rated value	А	0.6
Operating power		
• at AC-1 / at 230 V / Rated value	kW	26
• at AC-1 / at 400 V / Rated value	kW	46
• at AC-1 / at 690 V / Rated value	kW	79
• at AC-2		
• at 400 V / Rated value	kW	22
• at AC-3		
• at 230 V / Rated value	kW	15
• at 400 V / Rated value	kW	22
• at 500 V / Rated value	kW	30
• at 690 V / Rated value	kW	22
• at AC-4		
• at 400 V / Rated value	kW	22
Operating power / for \geq 200000 operating cycles / at AC-4		
• at 400 V / Rated value	kW	12.6
• at 690 V / Rated value	kW	18.2
Thermal short-time current / restricted to 10 s	А	420
Active power loss / at AC-3 / at 400 V / for rated value of the operating current / per conductor	W	4
No-load switching frequency		
• with AC	1/h	5,000

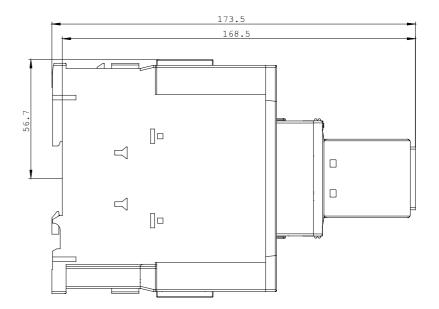
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Operating frequency		
• at AC-1 / maximum	1/h	1,200
• at AC-2 / maximum	1/h	600
• at AC-3 / maximum	1/h	1,000
• at AC-4 / maximum	1/h	300
Control circuit/ Control:	_	
Type of voltage / of the control supply voltage		AC
Control supply voltage		
• with AC / at 50 Hz / Rated value	V	400
Operating range factor control supply voltage rated value / of the magnet coil		
• with AC / at 50 Hz		0.8 1.1
Apparent pick-up power / of the magnet coil / with AC		
• at 50 Hz	V·A	190
Apparent holding power / of the magnet coil / with AC	_	
• at 50 Hz	V·A	16
Closing delay	_	
• with AC	ms	10 80
Opening delay	_	
• with AC	ms	10 18
Arcing time	ms	10 20
Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts / instantaneous contact		2
Number of NO contacts / for auxiliary contacts / instantaneous contact		2
Operating current		
• at AC-12 / maximum	А	10
• at AC-15		
• at 230 V / Rated value	А	6
• at 400 V / Rated value	А	3
• at 500 V / Rated value	А	2
• at 690 V / Rated value	А	1
Operating current / at DC-12		
• at 24 V / Rated value	А	10
• at 48 V / Rated value		6
	A	
• at 60 V / Rated value	A A	6
 at 60 V / Rated value at 110 V / Rated value 		

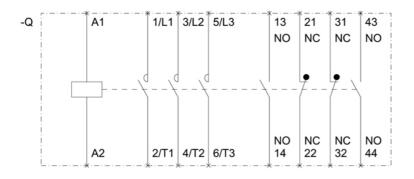
• at 220 V / Rated value	А	1
• at 440 V / Rated value	А	0.3
• at 600 V / Rated value	А	0.15
Operating current / at DC-13	_	
• at 24 V / Rated value	А	6
• at 48 V / Rated value	А	2
• at 60 V / Rated value	А	2
• at 110 V / Rated value	А	1
• at 125 V / Rated value	А	0.9
• at 220 V / Rated value	А	0.3
• at 440 V / Rated value	А	0.14
• at 600 V / Rated value	А	0.1
UL/CSA ratings:		
yielded mechanical performance [hp]		
for single-phase AC motor		
• at 110/120 V / Rated value	hp	3
• at 230 V / Rated value	hp	10
for three-phase AC motor		
• at 200/208 V / Rated value	hp	15
• at 220/230 V / Rated value	hp	15
• at 460/480 V / Rated value	hp	40
• at 575/600 V / Rated value	hp	50
Full-load current (FLA) / for three-phase AC motor		
• at 480 V / Rated value	А	52
• at 600 V / Rated value	А	52
Contact rating / of the auxiliary contacts / acc. to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
 for short-circuit protection of the auxiliary switch / required 		fuse gL/gG: 10 A
for short-circuit protection of the main circuit		
 with type of assignment 1 / required 		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A
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
Width	mm	55
Height	mm	113.4

Depth		mm	173.5
Spacing required / with side-by-side mou	Inting	mm	0
Connections/ terminals:			
Design of the electrical connection			
 for main current circuit 			screw-type terminals
 for auxiliary and control current circu 	it		screw-type terminals
Type of connectable conductor cross-see	ction	_	
 for main contacts 			
 single or multi-stranded 			2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded / with core end pro 	ocessing		2x (1 25 mm²), 1x (1 35 mm²)
for AWG conductors / for main conta	icts		2x (18 2), 1x (18 1)
Type of connectable conductor cross-see	ction		
 for auxiliary contacts 			
 single or multi-stranded 			2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded / with core end pro 	ocessing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors / for auxiliary conductors 	ontacts		2x (20 16), 2x (18 14)
Safety related data:			
Proportion of dangerous failures		-	
• with low demand rate / acc. to SN 31	1920	%	40
• with high demand rate / acc. to SN 31920		%	73
Product function		_	
Mirror contact acc. to IEC 60947-4-1			Yes
• positively driven operation acc. to IEC 60947-5-1			No
Certificates/ approvals:			
General Product Approval	other		
	Confirmation		
Further information:			
Information- and Downloadcenter (Catale			
Industry Mall (Online ordering system) http://www.siemens.com/industrymall			
Cax online generator http://www.siemens.com/cax			
Service&Support (Manuals, Certificates, http://support.automation.siemens.com/V		/all	

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2036-1AV04







last change:

Dec 17, 2014