## **SIEMENS**

Data sheet 3RT5055-6AF36



Contactor 110...127 V AC/DC AC3 kW 400 V AC (50...60 Hz) / DC operation auxiliary contacts 2 NO + 2 NC, 3-pole, size S6 bar connections conventional operating mechan. screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT5
General technical data	
size of contactor	S6
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	9 W
<ul> <li>without load current share typical</li> </ul>	5.2 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	1 000 V
degree of pollution	3
surge voltage resistance rated value	8 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
at AC-3e rated value maximum	1 000 V
operational current	
● at AC-1 up to 690 V	
<ul> <li>at ambient temperature 40 °C rated value</li> </ul>	185 A

• at AC-3	
— at 400 V rated value	150 A
— at 690 V rated value	150 A
• at AC-3e	
— at 400 V rated value	150 A
— at 690 V rated value	150 A
connectable conductor cross-section in main circuit at AC-	
1	
• at 60 °C minimum permissible	70 mm <sup>2</sup>
at 40 °C minimum permissible	95 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	68 A
at 690 V rated value	57 A
operating power	
• at AC-1	
— at 230 V at 60 °C rated value	60 kW
— at 400 V at 60 °C rated value	105 kW
— at 690 V at 60 °C rated value	181 kW
• at AC-3	
— at 230 V rated value	50 kW
— at 400 V rated value	84 kW
— at 690 V rated value	146 kW
• at AC-3e	
— at 400 V rated value	75 kW
— at 690 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	38 kW
at 690 V rated value	55 kW
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	110 127 V
at 60 Hz rated value	110 127 V
control supply voltage at DC	
rated value	110 127 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
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	300 VA
• at 60 Hz	300 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	
• at 50 Hz	5.8 VA
• at 60 Hz	5.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8

closing power of magnet coil at DC	360 W
holding power of magnet coil at DC	5.2 W
uxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
at 400 V rated value	3 A
operational current at DC-12	
at 24 V rated value	6 A
at 110 V rated value	3 A
at 220 V rated value	1 A
operational current at DC-13	
• at 24 V rated value	6 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
IL/CSA ratings	
yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value	125 hp
hort-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	fuse gL/gG: 355 A
<ul> <li>— with type of assignment 2 required</li> </ul>	fuse gL/gG: 315 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
nstallation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	172 mm
width	120 mm
depth	170 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
afety related data	
product function mirror contact according to IEC 60947-4-1	Yes
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Sertificates/ approvals	



Confirmation









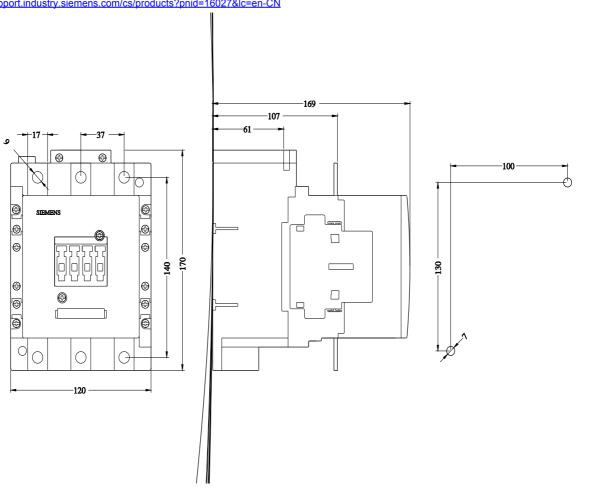
Declaration of Conformity

other



## Further information

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/products?pnid=16027&lc=en-CN



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