## **SIEMENS**

Data sheet 3RT5056-6AF36



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 type designation 3RT5  General technical data  size of contactor S6 product extension auxiliary switch Yes  power loss [W] for rated value of the current  • at AC in hot operating state per pole 13 W
General technical data  size of contactor  product extension auxiliary switch  power loss [W] for rated value of the current
size of contactor  product extension auxiliary switch  power loss [W] for rated value of the current
product extension auxiliary switch  Power loss [W] for rated value of the current  Yes
power loss [W] for rated value of the current
• at AC in hot operating state per pole 13 W
without load current share typical  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
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)
• of contactor typical 10 000 000
• of the contactor with added auxiliary switch block typical 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
— at ambient temperature 40 °C rated value 215 A
— at ambient temperature 60 °C rated value 185 A

• at AC-3	
— at 400 V rated value	185 A
— at 690 V rated value	170 A
• at AC-3e	
— at 400 V rated value	185 A
— at 690 V rated value	170 A
connectable conductor cross-section in main circuit at AC- 1	
<ul> <li>at 60 °C minimum permissible</li> </ul>	95 mm²
at 40 °C minimum permissible	95 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	81 A
at 690 V rated value	65 A
operating power	
• at AC-1	
— at 230 V at 60 °C rated value	70 kW
— at 400 V at 60 °C rated value	121 kW
— at 690 V at 60 °C rated value	210 kW
• at AC-3	
— at 230 V rated value	61 kW
— at 400 V rated value	104 kW
— at 690 V rated value	167 kW
• at AC-3e	
— at 400 V rated value	90 kW
— at 690 V rated value	160 kW
operating power for approx. 200000 operating cycles at AC-	
• at 400 V rated value	45 kW
at 690 V rated value	65 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	100 mi
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	NO.DO
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	110 121 V
• 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	0.0 7,1
• at 50 Hz	0.8
• at 60 Hz	0.8
₩ at 00 Hz	0.0

closing power of magnet coil at DC	360 W
holding power of magnet coil at DC	5.2 W
auxiliary 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	150 hp
hort-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
<ul> <li>— with type of coordination 1 required</li> </ul>	fuse gL/gG: 355 A
with type of assignment 2 required	fuse gL/gG: 315 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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
side-by-side mounting	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	
for auxiliary contacts	
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	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



Confirmation









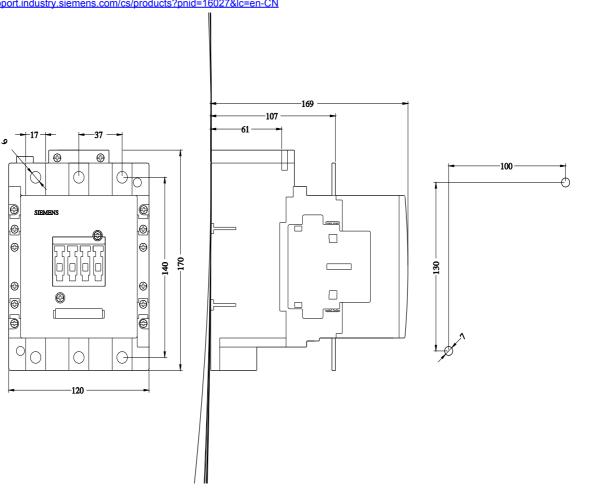
Declaration of Conformity

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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