SIEMENS

Data sheet 3RT5055-6AP36



Contactor 220 ... 240 V AC/DC AC3 75 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		
 at AC in hot operating state per pole 	9 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	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)		
 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	185 A	
— at ambient temperature 60 °C rated value	160 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	-0.0
• at 60 °C minimum permissible	70 mm²
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	220 240 V
at 60 Hz rated value	220 240 V
control supply voltage at DC	
rated value	220 240 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	50.VA
• at 50 Hz	5.8 VA
• at 60 Hz	5.8 VA
inductive power factor with the holding power of the coil	0.0
at 50 Hzat 60 Hz	0.8
	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
L/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	
for short-circuit protection of the main circuit	
 — with type of coordination 1 required 	fuse gL/gG: 355 A
— with type of assignment 2 required	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
• side-by-side mounting	Yes
height	172 mm
width	120 mm
depth	170 mm
onnections/ 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	
	Yes
product function mirror contact according to IEC 60947-4-1	
	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover



Confirmation









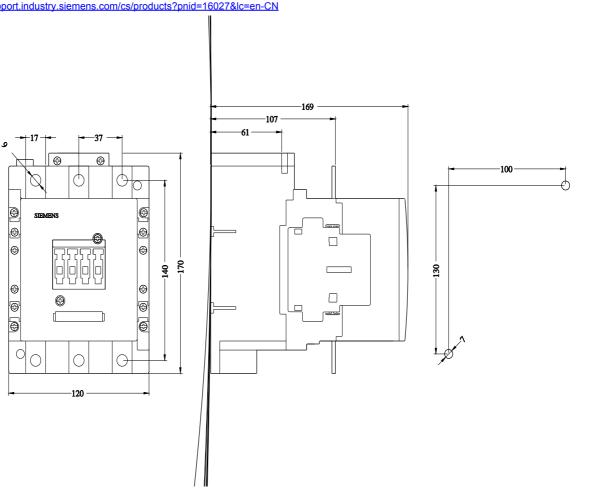
Declaration of Conformity

other



Further information

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



last modified: 7/14/2023 🖸