



Automation specialists

Reference: 3RT1054-6AP36

CONTACTOR, 55KW/400V/AC-3, AC (40...60HZ)/DC OPERATION UC 220...240V AUX. CONTACTS 2NO+2NC, 3-POLE, SIZE S6 BAR CONNECTIONS CONVENTIONAL OPERATING MECHAN. SCREW TERMINAL

Buy it at Electric Automation Network



Product designationpower contactorGeneral technical data:Size of contactorS6Insulation voltage11000 Vrated value1000 VDegree of pollution3Surge voltage resistance rated value8 kVmaximum permissible voltage for safe isolation690 VSection Class IPon the frontIP00IP00IP00	
Size of contactor 56 Insulation voltage 1 rated value 1 000 V Degree of pollution 3 Surge voltage resistance rated value 8 kV maximum permissible voltage for safe isolation 690 V Protection class IP 1000 on the front IP00	
Insulation voltage rated value 1 000 V Degree of pollution 3 Surge voltage resistance rated value 8 kV maximum permissible voltage for safe isolation 690 V Protection class IP IP00	
rated value1 000 VDegree of pollution3Surge voltage resistance rated value8 kVmaximum permissible voltage for safe isolation690 Vbetween coil and main contacts acc. to EN 60947-1690 VProtection class IP1000on the front11000	
Degree of pollution 3 Surge voltage resistance rated value 8 kV maximum permissible voltage for safe isolation 690 V between coil and main contacts acc. to EN 60947-1 690 V Protection class IP 100	
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maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1 690 V Protection class IP IP00	
between coil and main contacts acc. to EN 60947-1 690 V Protection class IP IP00	
Protection class IP on the front IP00	
on the front IP00	
of the terminal IP00	
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
with sine pulse	
— at AC 13,4g / 5 ms, 6,5g	110
— at DC 13,4g / 5 ms, 6,5g	/ 10 ms
Mechanical service life (switching cycles)	

of contactor typical	10 000 000
of the contactor with atd>	5 000 000
of the contactor with atd>	10 000 000
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 NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	160 A
at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	160 A
— up to 690 V at ambient temperature 60 °C rated value	140 A
 up to 1000 V at ambient temperature 40 °C rated value 	80 A
 up to 1000 V at ambient temperature 60 °C rated value 	80 A
at AC-3	
— at 400 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
Connectable conductor cross-section in main circuit at AC-1	
at 60 °C minimum permissible	50 mm ²
at 40 °C minimum permissible	70 mm ²
Operating current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	54 A
at 690 V rated value	48 A
Operating current	
at 1 current path at DC-1	
— at 24 V rated value	160 A
- at 110 V rated value	18 A
with 2 current paths in series at DC-1	
— at 24 V rated value	160 A

- at 110 V rated value160 AWith 3 current paths in series at DC-1160 A- at 24 V rated value160 AOperating current160 AAt 1 current path at DC-3 at DC-5160 A- at 24 V rated value2.5 A- at 110 V rated value160 A- at 24 V rated value160 A- at 250 V at 60 °C rated value31 kW- at 400 V rated value159 kW- at 400 V rated value159 kW- at AC-3131 W- at AC-3131 W- at 230 V rated value31 kW- at 400 V rated value161 kW- at 400 V rated value131 kW- at 400 V rated value131 kW- at 400 V rated value131 kW- at 400 V rated value29 kW- at 400 V rated value20 kW- at 400 V rated value131 kW- at 400 V rated value21 kW- at 600 V rated value21 kW- at 600 V rated value21 kW- at 400 V rated value21 kW- at 400 V rated value21 kW- at 400 V rated value <td< th=""><th></th></td<>	
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operating current per conductor 7 W No-load switching frequency 2 000 1/h	
at AC 2 000 1/h	
at DC 2 000 1/h	
Operating frequency	

at AC-1 maximum	800 1/h
at AC-2 maximum	400 1/h
at AC-3 maximum	1 000 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control:	150 1/11
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
at 50 Hz rated value	220 240 V
	220 240 V
at 60 Hz rated value	220 240 V
Control supply voltage at DC	222 2424
rated value	220 240 V
Control supply voltage frequency 1 rated value	50 Hz
Control supply voltage frequency 2 rated value	60 Hz
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
Operating range factor control supply voltage rated value of magnet coil at DC	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	300 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of magnet coil at AC	5.8 V·A
Inductive power factor with the holding power of the coil	0.8
Closing power of magnet coil at DC	360 W
Holding power of magnet coil at DC	5.2 W
Closing delay	
at AC	20 95 ms
at DC	20 95 ms
Opening delay	
at AC	40 60 ms
at DC	40 60 ms
Arcing time	10 15 ms
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	10 A
Operating current at AC-15	
at 230 V rated value	6 A
at 400 V rated value	3 A
Operating current at DC-12	
at 60 V rated value	6 A
at 110 V rated value	3 A
at 220 V rated value	1 A
Operating current at DC-13	
at 24 V rated value	10 A
at 60 V rated value	2 A
at 110 V rated value	1 A
at 220 V rated value	0.3 A
UL/CSA ratings:	
Contact rating of auxiliary contacts according to UL	A600 / Q600
Short-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
Installation/ mounting/ dimensions:	
Mounting type	screw fixing
Side-by-side mounting	Yes
Height	172 mm
Witd>	120 mm
Depth	170 mm
Required spacing	
for grounded parts	
— at the side	10 mm
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-sections	
at AWG conductors for main contacts	4 250 kcmil

Type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
- finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12