



**Electric Automation** 

Automation specialists

Reference: 3RT1015-1AG61

CONTACTOR,AC-3 3 KW/400V, 1NO AC 100V 50HZ/100...110V 60HZ, 3 POLE, MOD. S00, SCREW-TYPE CONNECTION

Buy it at Electric Automation Network



product brand name	SIRIUS	
Product designation	power contactor	
General technical data:		
Size of contactor	S00	
Degree of pollution	3	
Protection class IP		
on the front	IP20	
of the terminal	IP20	
Mechanical service life (switching cycles)		
of contactor typical	30 000 000	
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	
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 value18 Aat AC-1I- up to 690 V at ambient temperature 60 °C rated18 A- at 400 V at ambient temperature 60 °C rated16 Aat AC-3I- at 400 V at davalue7 AOperating currentI- at 400 V rated value15 A- at 100 V rated value15 A- at 110 V rated value15 A- at 24 V rated value15 A- at 110 V rated value15 A- at 110 V rated value15 A- at 24 V rated value15 A- at 100 V rated value15 A- at 110 V rated value15 A- at 24 V rated value15 A- at 110 V rated value15 A- at 110 V rated value15 A- at 24 V rated value15 A- at 110 V rated value15 A- at 24 V rated value15 A- at 110 V rated value15 A- at 24 V rated value15 A- at 24 V rated value15 A- at 24 V rated value025 A- at 24 V rated value15 A- at 40 V rated value15 A- at 40 V rated value15 A- at 400 V rated value16 A- at 400		
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- at 110 V rated value         8.4 A           with 3 current paths in series at DC-1         -           - at 24 V rated value         15 A           - at 110 V rated value         15 A           Operating current         -           at 1 current path at DC-3 at DC-5         -           - at 110 V rated value         0.1 A           - at 110 V rated value         0.25 A           - at 110 V rated value         0.25 A           - at 110 V rated value         15 A           - at 110 V rated value         15 A           - at 110 V rated value         0.1 A           with 3 current paths in series at DC-3 at DC-5         -           - at 110 V rated value         15 A           otat A V rated value         15 A           - at 24 V rated value         15 A           operating power         -           - at 400 V rated value         15 A           operating power         -           - at 400 V rated value         3 kW           at AC-3         -           - at 400 V rated value         3 kW           - at 400 V rated value         3.5 kW           - at 400 V rated value         3.5 kW           - at 600 V rated value         3.5 kW <td>with 2 current paths in series at DC-1</td> <td></td>	with 2 current paths in series at DC-1	
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- at 110 V rated value         15 A           Operating current         -           at 1 current path at DC-3 at DC-5         -           - at 24 V rated value         15 A           - at 110 V rated value         0.1 A           with 2 current paths in series at DC-3 at DC-5         -           - at 110 V rated value         0.25 A           - at 24 V rated value         0.25 A           - at 24 V rated value         15 A           - at 24 V rated value         15 A           - at 24 V rated value         0.25 A           - at 24 V rated value         15 A           - at 400 V rated value         15 A           - at 400 V rated value         3 kW           at AC-3         -           - at 400 V rated value         3 kW           - at 400 V rated value         3.5 kW           - at 400 V rated value         3.5 kW           - at 600 V rated value         4 kW	with 3 current paths in series at DC-1	
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with 2 current paths in series at DC-3 at DC-5	— at 24 V rated value	15 A
- at 110 V rated value0.25 A- at 24 V rated value15 Awith 3 current paths in series at DC-3 at DC-5 at 110 V rated value15 A- at 24 V rated value15 AOperating power-at AC-1 at 400 V rated value11 kWat AC-2 at 400 V rated value3 kW- at 400 V rated value3 kW- at 690 V rated value3 kW- at 690 V rated value0.25 A- at 690 V rated value0.42 W	— at 110 V rated value	0.1 A
- at 24 V rated value15 Awith 3 current paths in series at DC-3 at DC-5 at 110 V rated value15 A- at 24 V rated value15 AOperating power-at AC-1 at 400 V rated value11 kWat AC-2 at 400 V rated value3 kWat AC-3 at 400 V rated value3.5 kW- at 690 V rated value0.42 W	with 2 current paths in series at DC-3 at DC-5	
with 3 current paths in series at DC-3 at DC-5- at 110 V rated value15 A- at 24 V rated value15 AOperating power-at AC-1 at 400 V rated value11 kWat AC-2 at 400 V rated value3 kWat AC-3 at 400 V rated value3 kW- at 690 V rated value3.5 kW- at 690 V rated value0.4 kW	— at 110 V rated value	0.25 A
- at 110 V rated value       15 A         - at 24 V rated value       15 A         Operating power       5 A         at AC-1       - at 400 V rated value         - at 400 V rated value       11 kW         at AC-2 at 400 V rated value       3 kW         - at 400 V rated value       3 kW         - at 400 V rated value       3 kW         - at 400 V rated value       0 kW         - at 690 V rated value       0 kW         - at 690 V rated value       0.42 W	— at 24 V rated value	15 A
- at 24 V rated value       15 A         Operating power       -         at AC-1       -         - at 400 V rated value       11 kW         at AC-2 at 400 V rated value       3 kW         at AC-3       -         - at 400 V rated value       3 kW         - at 600 V rated value       3 kW         - at 690 V rated value       4 kW         Power loss [W] at AC-3 at 400 V for rated value of the operating power due of	with 3 current paths in series at DC-3 at DC-5	
Operating powerat AC-1- at 400 V rated value11 kWat AC-2 at 400 V rated value3 kWat AC-3- at 400 V rated value- at 400 V rated value3 kW- at 400 V rated value3 kW- at 690 V rated value0.4 kWPower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.42 W	— at 110 V rated value	15 A
at AC-1- at 400 V rated value11 kWat AC-2 at 400 V rated value3 kWat AC-3- at 400 V rated value- at 400 V rated value3 kW- at 500 V rated value3.5 kW- at 690 V rated value0.42 W	— at 24 V rated value	15 A
- at 400 V rated value       11 kW         at AC-2 at 400 V rated value       3 kW         at AC-3       - at 400 V rated value         - at 400 V rated value       3 kW         - at 500 V rated value       3.5 kW         - at 690 V rated value       0.4 kW         Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor       0.42 W	Operating power	
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at AC-3         Image: Stress and	— at 400 V rated value	11 kW
- at 400 V rated value     3 kW       - at 500 V rated value     3.5 kW       - at 690 V rated value     4 kW       Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor     0.42 W	at AC-2 at 400 V rated value	3 kW
- at 500 V rated value     3.5 kW       - at 690 V rated value     4 kW       Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor     0.42 W	at AC-3	
- at 690 V rated value     4 kW       Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor     0.42 W	— at 400 V rated value	3 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 0.42 W	— at 500 V rated value	3.5 kW
operating current per conductor	— at 690 V rated value	4 kW
Control circuit/ Control:		0.42 W
	Control circuit/ Control:	

Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
at 50 Hz rated value	100 V
at 60 Hz rated value	100 110 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	0.85 1.1
at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	31.7 V·A
Inductive power factor with closing power of the coil	0.77
Apparent holding power of magnet coil at AC	5.1 V·A
Inductive power factor with the holding power of the coil	0.27
Auxiliary circuit:	
Number of NC contacts	
for auxiliary contacts	
— instantaneous contact	0
Number of NO contacts	
for auxiliary contacts	
— instantaneous contact	1
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
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-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: 35 A
— with type of assignment 2 required	fuse gL/gG: 20 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
Installation/ mounting/ dimensions:	
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Side-by-side mounting	Yes
Height	57.5 mm
Witd>	45 mm
Depth	72 mm
Required spacing	
for grounded parts	
— at the side	6 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	
for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— single or multi-stranded	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 main contacts	2x (20 16), 2x (18 14), 1x 12
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