



Automation specialists

Reference: 3RV2011-4AA10

CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 10...16A, N-RELEASE 208A, SCREW CONNECTION, STANDARD SW. CAPACITY

Buy it at Electric Automation Network



product brand name	SIRIUS	
Product designation	3RV2 circuit breaker	
General technical data:		
Size of the circuit-breaker	S00	
Size of contactor can be combined company-specific	S00, S0	
Product extension		
Auxiliary switch	Yes	
Power loss [W] total typical	7 W	
Insulation voltage with degree of pollution 3 rated value	690 V	
Surge voltage resistance rated value	6 kV	
maximum permissible voltage for safe isolation		
in networks with grounded star point between main and auxiliary circuit	400 V	
in networks with grounded star point between main and auxiliary circuit	400 V	
Protection class IP		
on the front	IP20	
of the terminal	IP20	
Shock resistance		
acc. to IEC 60068-2-27	25g / 11 ms	
Mechanical service life (switching cycles)		

of the main contacts typical	100 000
of auxiliary contacts typical	100 000
Electrical endurance (switching cycles)	
typical	100 000
Type of protection	Increased safety
Certificate of suitability relating to ATEX	on request
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	Q
Ambient conditions:	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
during operation	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
Temperature compensation	-20 +60 °C
Relative humidity during operation	10 95 %
Main circuit:	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current- dependent overload release	10 16 A
Operating voltage	
rated value	690 V
at AC-3 rated value maximum	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	16 A
Operating current	
at AC-3	
— at 400 V rated value	16 A
Operating power	
at AC-3	
— at 230 V rated value	4 000 W
— at 400 V rated value	7 500 W
— at 500 V rated value	7 500 W
— at 690 V rated value	11 000 W
Operating frequency	
at AC-3 maximum	15 1/h
Auxiliary circuit:	
Number of NC contacts	

for auxiliary contacts	0
Number of NO contacts	
for auxiliary contacts	0
Number of CO contacts	
for auxiliary contacts	0
Protective and monitoring functions:	
Trip class	CLASS 10
Design of the overload release	thermal
Operational short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
at 400 V rated value	30 kA
at 500 V rated value	5 kA
at 690 V rated value	2 kA
Maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	55 kA
at AC at 500 V rated value	10 kA
at AC at 690 V rated value	4 kA
Breaking capacity short-circuit current (Icn)	
at 1 current path at DC at 150 V rated value	10 kA
with 2 current paths in series at DC at 300 V rated value	10 kA
with 3 current paths in series at DC at 450 V rated value $% \left({{{\rm{T}}_{\rm{T}}}} \right)$	10 kA
UL/CSA ratings:	
Full-load current (FLA) for three-phase AC motor	
at 480 V rated value	16 A
at 600 V rated value	16 A
Yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
for three-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
Short-circuit protection	
Design of the short-circuit trip	magnetic
Design of the fuse link for IT network for short-circuit protection of the main circuit	

at 400 VgL/gat 500 VgL/gat 690 VgL/gInstallation/ mounting/ dimensions:gL/gMounting positionanyMounting typescreeMounting typegL/gWitd>97 mWitd>45 mDepth96 mRequired spacinggL/gwith side-by-side mountinggL/g- forwards0 m- downwards50 m- at the side0 mfor grounded partsg- forwards0 m- backwards0 m- backwards0 m- forwards0 m- forw	ew and snap-on mounting onto 35 mm standard unting rail according to DIN EN 60715 mm mm mm mm
at 500 VgL/gat 690 VgL/gInstallation/ mounting/ dimensions:anyMounting positionanyMounting typescreetMounting typegreetWitd>97 mWitd>45 mDepth96 mRequired spacinggreetwith side-by-side mountinggreet- forwards0 m- forwards50 m- downwards50 m- at the side0 mfor grounded partsgreet- backwards0 m- backwards0 m- backwards0 m- backwards0 m- forwards0 m- forwards0 m- of mark0 m<	gG 50 A gG 40 A , ew and snap-on mounting onto 35 mm standard unting rail according to DIN EN 60715 mm mm mm mm mm mm
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Required spacing Image: Constraint of the system ounting with side-by-side mounting 0 m - forwards 0 m - Backwards 0 m - upwards 50 m - downwards 50 m - at the side 0 m for grounded parts 0 m - forwards 0 m - Backwards 0 m	ım ım mm
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- downwards 50 m - at the side 0 m for grounded parts 0 m - forwards 0 m - Backwards 0 m	
- at the side 0 m for grounded parts 0 m - forwards 0 m - Backwards 0 m	
for grounded parts - forwards 0 m - Backwards 0 m	mm
- forwards 0 m - Backwards 0 m	ım
- Backwards 0 m	
	ım
	Im
— upwards 50 r	mm
— at the side 30 m	mm
— downwards 50 r	mm
for live parts	
— forwards 0 m	IM
– Backwards 0 m	Im
— upwards 50 r	mm
- downwards 50 r	mm
- at the side 30 r	mm
Connections/Terminals:	
Product function	
removable terminal for auxiliary and control circuit No	
Type of electrical connection	
for main current circuit scre	ew-type terminals
Arrangement of electrical connectors for main current	and bottom
Type of connectable conductor cross-sections	
for main contacts	

— single or multi-stranded	2x (0,75 2,5 mm²), 2x 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 (18 14), 2x 12
Tightening torque	
for main contacts with screw-type terminals	0.8 1.2 N·m
Design of screwdriver shaft	Diameter 5 to 6 mm
Design of the thread of the connection screw	
for main contacts	МЗ
Safety related data:	
B10 value	
with high demand rate acc. to SN 31920	5 000
Proportion of dangerous failures	
with low demand rate acc. to SN 31920	50 %
with high demand rate acc. to SN 31920	50 %
Failure rate [FIT]	
with low demand rate acc. to SN 31920	50 FIT
T1 value for proof test interval or service life acc. to IEC 61508	10 у
Display version	
for switching status	Handle