SIEMENS

Product data sheet 3RV1031-4HA10



CIRCUIT-BREAKER SIZE S2. FOR MOTOR PROTECTION, CLASS 10, A-REL. 40...50A, N-REL. 650A, SCREW TERMINAL, STANDARD SWITCHING CAPACITY

General technical data:		
Product brand name		SIRIUS
Product designation		circuit breaker
Size of the circuit-breaker		S2
Trip class		CLASS 10
Degree of pollution		3
Altitude of installation site / at a height over sea level / maximum	m	2,000
Protection class IP / frontal/front side		IP20
Ambient temperature		
during storage	°C	-5080
during the operating phase	°C	-2070
during transport	°C	8050
Resistance against shock		25g / 11 ms
Insulation voltage / rated value	V	690
Impulse voltage resistance / rated value	kV	6
Real loss power / total / typical	W	20
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		Q
according to DIN EN 61346-2		Q

Mechanical switching cycle as operating period / of the main contacts / typical		50,000
Type of the driving mechanism / Motor drive		No
design of the operating mechanism		selector switch
Product function		
Overload protection		Yes
Short-circuit to earth recognition		No
Phase disturbance recognition		Yes
Product component / auxiliary switch		No
Product component / Undervoltage release mechanism		No
Product component / trip indicator		No
Product extension / optional / Motor drive		Yes
Main circuit:		
Number of poles / for main current circuit		3
Type of voltage		AC/DC
Operating voltage / at 3 AC / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	Α	50
Service power / at AC-3		
at 400 V / rated value	kW	22
Switching frequency / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		front side
Adjustable response current		
of the non-delayed short-circuit release	Α	650650
Adjustable response current		
of the current-dependent overload release	Α	4050
Continuous current / rated value	Α	50
Product extension / auxiliary switch		Yes
Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts / instantaneous switching		0
Number of NO contacts / for auxiliary contacts / instantaneous switching		0
Number of change-over switches / for auxiliary contact		0
Inputs/ Outputs:		
Number of digital inputs		0
Short-circuit:		
Switch-off capacity limit short-circuit current		
• at 400 V / rated value	kA	50

• at 500 V / rated value	kA	10
• at 690 V / rated value	kA	4
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/mounting/dimensions:		
built in orientation		any
Type of fixing/fixation		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Width	mm	55
Height	mm	140
Depth	mm	149
distance, to be maintained, to the ranks assembly		
• backwards	mm	0
• sidewards	mm	0
Product function / removable terminal for auxiliary and control circuit		No

Connections:		
Design of the electrical connection		
• for main current circuit		screw-type terminals with box terminals
Type of the connectable conductor cross-section		
• for main contacts		
• unifilar		2x (0.75 16 mm2)
• stranded wire		2x (0.75 25 mm2), 0.75 35 mm2
• stranded wire		
 with conductor end processing 		2x (0.75 16 mm2), 0.75 25 mm2
• at AWG-conductors / for main contacts		2x (18 2), 1x (18 2)
Conductor cross section that can be connected / for main contacts		
• unifilar	mm²	0.7516
• stranded wire	mm²	0.7535
• stranded wire		
with conductor end processing	mm²	0.7525
AWG number / as coded connectable conductor cross-section		
• for main contacts		182

Safety:	
Protection against electrical shock	finger-safe

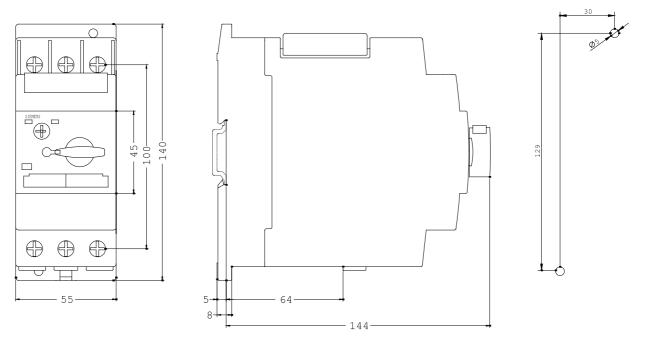
Further information:

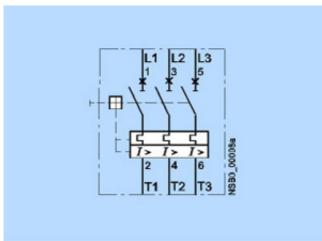
Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

$Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

http://support.automation.siemens.com/WW/view/en/3RV1031-4HA10/all





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