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Data sheet 3RV1031-4BB10

Figure similar

CIRCUIT-BREAKER, SIZE S2, FOR MOTOR PROTECTION, CLASS 20, A-RELEASE 14...20 A, N-RELEASE 260 A, SCREW CONNECTION, STANDARD BEAKING CAPACITY

product brand name		SIRIUS
Product designation		circuit breaker
Design of the product		for motor protection

General technical data:		
Active power loss total typical	W	12
Shock resistance		25g / 11 ms
Surge voltage resistance Rated value	V	6 000
Mechanical service life (switching cycles)		
• of the main contacts typical		50 000
Protection class IP		
• on the front		IP20
Equipment marking		
• acc. to DIN EN 61346-2		Q

Main circuit:		
Number of poles for main current circuit		3
Adjustable response value current of the current-dependent overload release	A	14 ... 20
Operating voltage		
• Rated value	V	690
• at AC-3 Rated value maximum	V	690
Operating current		
• at AC-3		
— at 400 V Rated value	A	20
Operating power		
• at AC-3		

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— at 400 V Rated value	kW	7.5
Operating frequency		
• at AC-3 maximum	1/h	15

Auxiliary circuit:		
Number of CO contacts		
• for auxiliary contacts		0
Product expansion Auxiliary switch		Yes

Protective and monitoring functions:		
Trip class		CLASS 20
Maximum short-circuit current breaking capacity (Icu)		
• with AC at 240 V Rated value	kA	100
• with AC at 400 V Rated value	kA	50
• with AC at 500 V Rated value	kA	12
• with AC at 690 V Rated value	kA	5

Short-circuit:		
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/ mounting/ dimensions:		
mounting position		any
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Height	mm	140
Width	mm	55
Depth	mm	149
Required spacing		
• with side-by-side mounting		
— Backwards	mm	0
— at the side	mm	0

Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		screw-type terminals with box terminals
• for auxiliary and control current circuit		screw-type terminals
Arrangement of electrical connectors for main current circuit		front side
Product function		
• removable terminal for auxiliary and control circuit		No
Type of connectable conductor cross-section		
• for main contacts		
— solid		2x (0.75 ... 16 mm²)
— stranded		2x (0.75 ... 25 mm²), 1x (0.75 … 35 mm²)

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— finely stranded with core end processing		2x (0.75 ... 16 mm²), 0.75 ... 25 mm²
• for AWG conductors for main contacts		2x (18 ... 2), 1x (18 ... 2)

Safety related data:

Protection against electrical shock		finger-safe

Mechanical data:

Size of the circuit-breaker		S2

Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-20 ... +60
• during storage	°C	-50 ... +80
• during transport	°C	-50 ... +80

Certificates/ approvals:

General Product Approval			Test Certificates	Shipping Approval	
CCC	CSA	EAC	Special Test Certificate	ABS	BUREAU VERITAS

Shipping Approval			other		
DNV	GL	RMRS	Confirmation	Declaration of Conformity	Environmental Confirmations

other	
VDE	other

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV10314BB10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RV10314BB10/all

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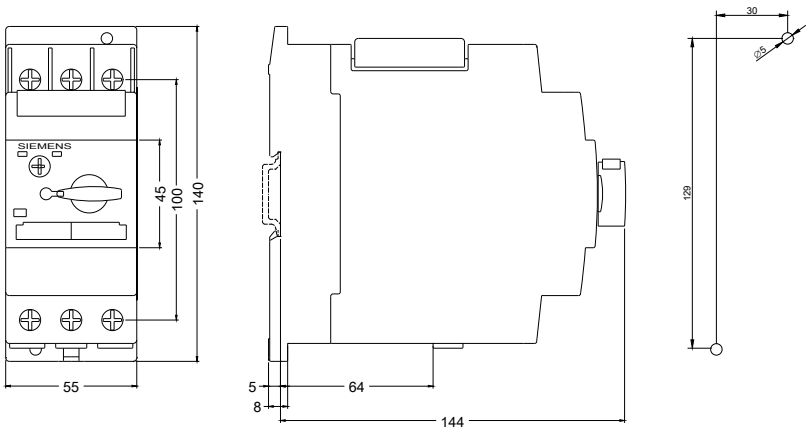
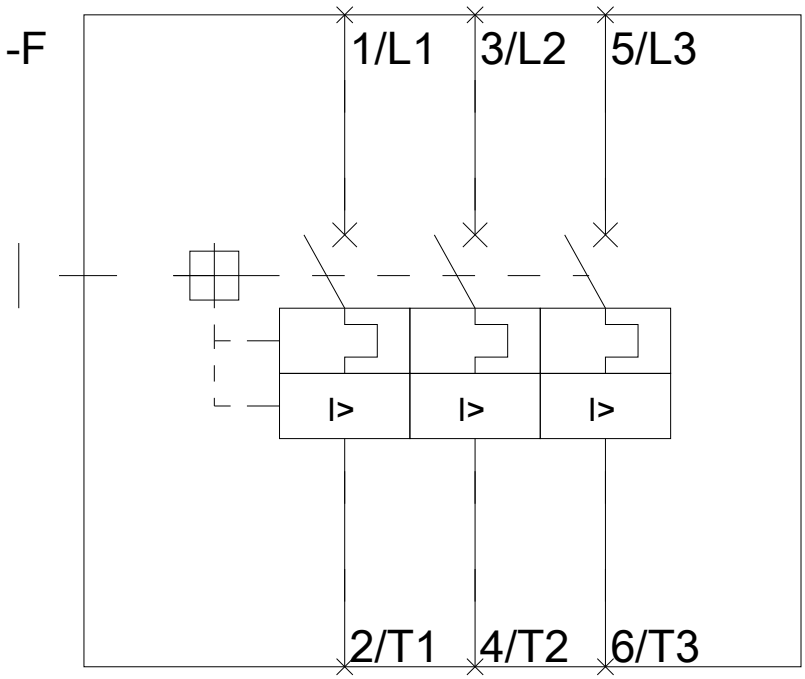
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV10314BB10&lang=en





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