SIEMENS

Data sheet

3RB3026-1RB0



Overload relay 0.1...0.4 A Electronic For motor protection Size S0, Class 10E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	SIRIUS				
product designation	solid-state overload relay				
product type designation	3RB3				
General technical data					
size of overload relay	SO				
size of contactor can be combined company-specific	SO				
power loss [W] for rated value of the current at AC in hot operating state	0.1 W				
• per pole	0.03 W				
insulation voltage with degree of pollution 3 at AC rated value	690 V				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for protective separation in networks with grounded star point					
 between auxiliary and auxiliary circuit 	300 V				
 between auxiliary and auxiliary circuit 	300 V				
 between main and auxiliary circuit 	600 V				
 between main and auxiliary circuit 	690 V				
shock resistance	15g / 11 ms				
 according to IEC 60068-2-27 	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms				
thermal current	0.4 A				
reference code according to IEC 81346-2	F				
Substance Prohibitance (Date)	10/01/2009				
SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
 during operation 	-25 +60 °C				
during storage	-40 +80 °C				
during transport	-40 +80 °C				
temperature compensation	-25 +60 °C				
relative humidity during operation	10 95 %				
Main circuit					
number of poles for main current circuit	3				
adjustable current response value current of the current- dependent overload release	0.1 0.4 A				
operating voltage					
rated value	690 V				
 at AC-3e rated value maximum 	690 V				
operating frequency rated value	50 60 Hz				
operational current rated value	0.4 A				
operational current at AC-3e at 400 V rated value	0.4 A				

operating power					
• for 3-phase motors at 400 V at 50 Hz	0.04 0.09 kW				
• for AC motors at 500 V at 50 Hz	0.04 0.12 kW				
• for AC motors at 690 V at 50 Hz	0.06 0.18 kW				
Auxiliary circuit					
design of the auxiliary switch	integrated				
number of NC contacts for auxiliary contacts	1				
• note	for contactor disconnection				
number of NO contacts for auxiliary contacts	1 for measure "tripped"				
note	for message "tripped" 0				
number of CO contacts for auxiliary contacts	0				
operational current of auxiliary contacts at AC-15 ● at 24 ∨	4 A				
• at 24 v • at 110 V	4 A 4 A				
• at 120 V	4 A				
• at 125 V					
• at 230 V	4 A 3 A				
operational current of auxiliary contacts at DC-13	SA				
• at 24 V	2 A				
• at 24 v	0.55 A				
• at 110 V	0.3 A				
• at 125 V	0.3 A				
• at 220 V	0.11 A				
• at 220 v Protective and monitoring functions					
trip class	CLASS 10E				
design of the overload release	electronic				
UL/CSA ratings					
full-load current (FLA) for 3-phase AC motor					
at 480 V rated value	0.4 A				
at 600 V rated value	0.4 A				
	B600 / R300				
contact rating of auxiliary contacts according to UL	B600 / R300				
contact rating of auxiliary contacts according to UL Short-circuit protection	B600 / R300				
contact rating of auxiliary contacts according to UL	B600 / R300				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit					
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	gG: 35 A, RK5: 3 A				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit					
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required	gG: 35 A, RK5: 3 A gG: 4 A				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	gG: 35 A, RK5: 3 A gG: 4 A				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth	gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and	gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm 84 mm				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm 84 mm				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm 84 mm Yes				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm 84 mm Yes Screw-type terminals				
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for AWG cables t	for auxiliary contacts		1x (20 14)	, 2x (20 14)				
tightening torque								
 for main contacts 	with screw-type terminals		2 2.5 N·m					
 for auxiliary containing 	acts with screw-type termina	ls	0.8 1.2 N∙	.8 1.2 N·m				
design of screwdriver	shaft		Diameter 5 to 6 mm					
size of the screwdrive	size of the screwdriver tip				Pozidriv PZ 2			
design of the thread o	of the connection screw							
 for main contacts 	6		M4					
 of the auxiliary are 	nd control contacts		M3	M3				
Electrical Safety								
protection class IP on	the front according to IEC	60529	IP20					
touch protection on th	ne front according to IEC 6	0529	finger-safe, f	finger-safe, for vertical contact from the front				
Communication/ Protoc	Communication/ Protocol							
type of voltage supply	/ via input/output link mast	ter	No					
Electromagnetic compa	tibility							
conducted interference	e							
 due to burst according 	ording to IEC 61000-4-4		2 kV (power	ports), 1 kV (sign	al ports) corresponds to de	gree of severity 3		
	-earth surge according to IE(C 61000-4-5	2 kV (line to earth) corresponds to degree of severity 3					
due to conductor-conductor surge according to IEC 61000-4-5			1 kV (line to line) corresponds to degree of severity 3					
	ency radiation according to I	IEC 61000-	10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz					
field-based interferen	field-based interference according to IEC 61000-4-3			10 V/m				
electrostatic discharge according to IEC 61000-4-2			6 kV contact discharge / 8 kV air discharge					
Display								
display version for swite	ching status		Slide switch					
Approvals Certificates								
General Product App	roval							
(SB	UK	CE		(Confirmation	መ		
CSA	CA	EG-Konf.						
General Product Approval	EMV			use in hazard- locations	Test Certificates			
	^	<u>KC</u>			Special Test Certific-	Type Test Certific-		
EHE		_		⟨£x⟩	ate	ates/Test Report		
LUL	RCM			ATEX				
Marine / Shipping								
(Sec.)		å		Llovd's	6			
ABS		DNV		Register	DBS	EINA C		
165	VERITAS	Ditt		210				
other	Environment							
Confirmation	Environmental Con-							
	<u>firmations</u>							

 Further information

 Information on the packaging

 https://support.industry.siemens.com/cs/ww/en/view/109813875

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

 https://www.siemens.com/ic10

 Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3026-1RB0 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-1RB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-1RB0

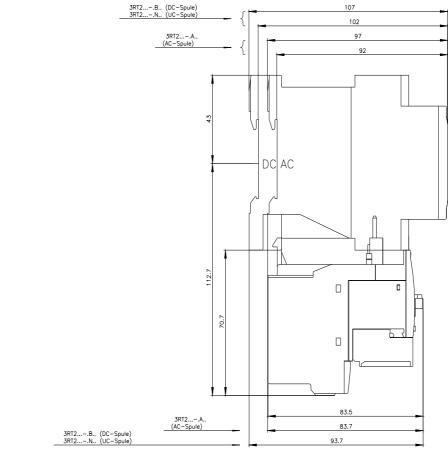
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

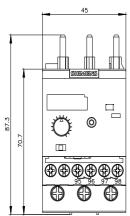
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3026-1RB0&lang=en

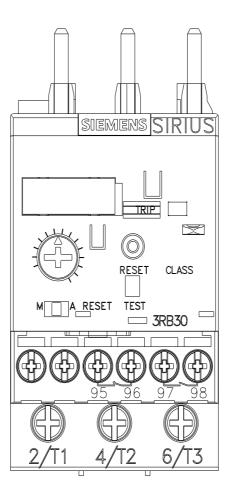
Characteristic: Tripping characteristics, I2t, Let-through current

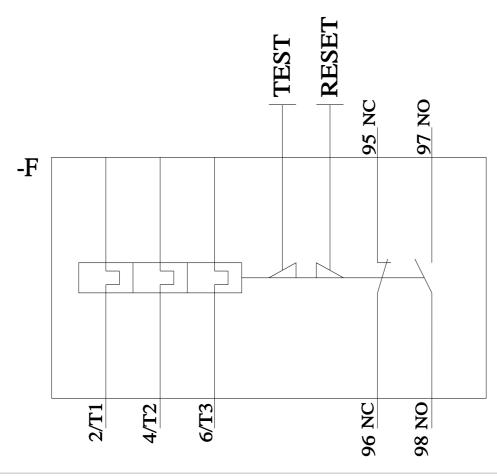
https://support.industry.siemens.com/cs/ww/en/ps/3RB30 6-1RB0/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3026-1RB0&objecttype=14&gridview=view1









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