SIEMENS

Data sheet 3RB3133-4WB0



Overload relay 20...80 A Electronic For motor protection Size S2, Class 5E...30E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset Internal ground fault detection

product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB3
General technical data	
size of overload relay	S2
size of contactor can be combined company-specific	S2
power loss [W] for rated value of the current at AC in hot operating state	4.6 W
• per pole	1.53 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": 8g / 11 ms
thermal current	80 A
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/15/2014
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7
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	20 80 A
operating voltage	
• rated value	690 V
 for remote-reset function at DC 	24 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz

operational current rated value operational current at AC-Se at 400 V ated value operating power * (** of Sphase meters at 400 V at 50 Hz * (** of AC meters at 500 V at 50 Hz * (** of AC meters at 500 V at 50 Hz * (** of AC meters at 500 V at 50 Hz * (** of AC meters at 500 V at 50 Hz * (** of AC meters at 500 V at 50 Hz * (** of AC meters at 500 V at 50 Hz * (** of AC meters at 500 V at 50 Hz * (** of AC meters at 500 V at 50 Hz * (** of AC meters at 500 V at 50 Hz * (** of AC meters at 500 V at 50 Hz * (** of AC meters for auxiliary contacts at AC-15 * (** of AC meters for auxiliary contacts at AC-15 * (** of AC meters for auxiliary contacts at AC-15 * (** of AC meters for auxiliary contacts at AC-15 * (** of AC meters for auxiliary contacts at AC-15 * (** of AC meters for auxiliary contacts at AC-15 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts at DC-13 * (** of AC meters for auxiliary contacts according to UL SCAS SE, 10E, 20E and 30E adjustable design of the auxiliary contacts according to UL SCAS SE, 10E, 20E and 30E adjustable design of the overload release * (** of AC meters for auxiliary contacts according to UL SCAS SE, 10E, 300 A G SCA A SCAS 300 A G SCA A SCAS 300 A G SCAS A SCAS 300 A G		00 4
operating power • for 3 phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 600 V at 50 Hz • for AC motors at 600 V at 50 Hz • for AC motors at 600 V at 50 Hz • for AC motors at 600 V at 50 Hz • for AC motors at 600 V at 50 Hz • note note • no	operational current rated value	80 A
• for 3-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for according for auxiliary switch number of NC contacts for auxiliary contacts • for mumber of NC contacts for auxiliary contacts • for mumber of NC contacts for auxiliary contacts • for message tripped' • for subtribute of for message tripped' • for subtribute for for message tripped' • for subtribute for for message tripped' • for subtribute for for message tripped' • for	·	80 A
For AC motors at 800 V at 60 Hz For AC motors at 800 V at 800 Fa 8		
### 18.5 75 kW Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts	·	
Austlany circuit design of the auxillary switch number of NC contacts for auxillary contacts • note note note note note note note note		
design of the auxiliary writch number of NC contacts for auxiliary contacts 1		18.5 75 kW
number of NC contacts for auxiliary contacts	Auxiliary circuit	
number of NC contacts for auxiliary contacts into the contacts for auxiliary contacts into the contacts for auxiliary contacts at AC-15 into the contact for auxiliary contacts at DC-13 into the contact for auxiliary contacts at Contact for auxiliary contacts at auxiliary at DC-13 into the contact for auxiliary contacts according to UL. Bood / R300 Short-circuit protection of the main circuit	design of the auxiliary switch	integrated
number of NO contacts for auxiliary contacts • note • note number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • a1 24 V • a1 110 V • a1 125 V • a1 230 V • a1 230 V • a1 60 V	number of NC contacts for auxiliary contacts	1
number of CO contacts for auxillary contacts at AC-15 out 24 V out 170 V out		
number of CO contacts for auxiliary contacts at AC-15 a 12 4V at 110 V 4 A at 110 V 4 A 4 A at 120 V 4 A at 125 V 5 A at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 120 V 5 A at 25 V 5 A at 20 V operational current of auxiliary contacts at DC-13 at 24 V at 100 V 5 A at 110 V 6 A at 120 V 5 A at 120 V 6 A at 120 V 7 A at 120 V 7 A at 120 V 7 A at 120 V 6 A at 120 V 7 A A A A A A A A A A A A A	number of NO contacts for auxiliary contacts	1
operational current of auxillary contacts at AC-15 at 24 V at 110 V at 120 V 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A		
at 24 V at 110 V at 120 V at 125 V at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 120 V at 110 V	number of CO contacts for auxiliary contacts	0
at 110 V at 126 V at 126 V at 126 V at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 127 V at 60 V at 127 V at 128 V at 128 V beta 128 V cat 128	operational current of auxiliary contacts at AC-15	
at 120 V at 125 V at 230 V 3 A operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 100 V 5 A at 110 V 0,3 A at 110 V 0,3 A at 125 V 0,11 A Protective and monitoring functions trip class design of the overload release response value current of the grounding protection minimum response time of the grounding protection minimum Control of the grounding protection relating to current set value amaximum Motor > lower current setting value x 3.5 UUCSA rating Tull-load current (FLA) for 3-phase AC motor at 48 0V rated value at 80 V rated value A	• at 24 V	4 A
at 125 V at 230 V 3 A perational current of auxillary contacts at DC-13 at 24 V at 50 V 0.55 A at 110 V 0.3 A at 125 V 0.3 A at 125 V 0.3 A at 125 V 0.3 A	• at 110 V	4 A
e at 230 V operational current of auxiliary contacts at DC-13 e at 24 V e at 60 V other contacts at 10 V other contacts at 110 V other contacts at 110 V other contacts at 125 V other contact rating of auxiliary contacts according to UL short-circuit protection of the main circuit of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required height of short-circuit protection of the auxiliary switch required height of of short-circuit protection of the auxiliary switch required height of of short-circuit protection of the auxiliary switch required height of of short-circuit protection of the auxiliary switch required height of of short-circuit protection of the auxiliary switch required height of of short-circuit protection of the auxiliary switch required height of of short-circuit protection of the auxiliary switch required height of of short-circuit protection of the auxiliary and control circuit of of or auxiliary and control circuit	• at 120 V	4 A
e at 24 V 2 A	• at 125 V	4 A
at 24 V at 60 V billion at 1110 V cat 1110 V cat 125 V cat 125 V cat 125 V cat 125 V cat 126 V		3 A
e at 60 V e at 110 V e at 125 V e at 125 V e at 220 V e. at 220 V	operational current of auxiliary contacts at DC-13	
e at 110 V e at 125 V	• at 24 V	2 A
e at 125 V e at 220 V	• at 60 V	0.55 A
a ta 220 V Protective and monitoring functions trip class design of the overload release electronic response value current of the grounding protection minimum response time of the grounding protection in settled state operating range of the grounding protection relating to current set value in minimum maximum multing 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 — for short-circuit protection of the auxiliary switch required height for short-circuit protection of the auxiliary switch required height for short-circuit protection of the sulliary switch required height for short-circuit protection of the sulliary switch required for short-circuit protection of the sulliary switch required height for mounting position fastening method Contactor mounting height yes connections/Terminals product component removable terminal for auxiliary and control circuit for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit arrangement of electrical connectors for main current for auxiliary and control circuit arrangement of electrical connectors for main current for auxiliary and control circuit for auxiliary and control circuit arrangement of electrical connectors for main current for auxiliary and control circuit Top and bottom	• at 110 V	0.3 A
Protective and monitoring functions trip class CLASS 5E, 10E, 20E and 30E adjustable design of the overload release electronic response value current of the grounding protection minimum 0.75 x Motor response time of the grounding protection in settled state operating range of the grounding protection relating to current set value • minimum Motor > lower current setting value	• at 125 V	0.3 A
trip class design of the overload release electronic response value current of the grounding protection minimum 0.75 x lMotor response time of the grounding protection in settled state operating range of the grounding protection relating to current set value • minimum • maximum Ilmotor < upper current setting value • minimum • maximum Ilmotor < upper current setting value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of condination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary and control circuit - with type of electrical connection • for main current circuit • for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliar	• at 220 V	0.11 A
design of the overload release response value current of the grounding protection minimum prospers time of the grounding protection in settled state operating range of the grounding protection relating to current set value • minimum IMotor > lower current setting value • maximum IMotor > lower current setting value • 80 A • 90 A • 60 Fason Fason Fason Fason • 60 Fason Fason Fason Fason Fason Fason • 60 Fason Fason Fason Fason Fason Fason • 60 Fason Fason Fason Fason Fason Fason Fason • 60 Fason Fason Fason Fason Fason Fason Fason Fason Fason • 60 Fason Faso	Protective and monitoring functions	
response value current of the grounding protection minimum response time of the grounding protection in settled state operating range of the grounding protection relating to current set value • minimum	trip class	CLASS 5E, 10E, 20E and 30E adjustable
response time of the grounding protection in settled state operating range of the grounding protection relating to current set value • minimum • maximum IlMotor > lower current setting value • minimum • maximum IlMotor > urrent setting value x 3.5 UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • for 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 gc: 250 A • for short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions mounting position fastening method Contactor mounting height 99 mm width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit • for main current circuit • for main current circuit • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom	design of the overload release	electronic
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Maximum Motor < upper current setting value x 3.5		
full-load current (FLA) for 3-phase AC motor	ourrout set value	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required fuse gG: 250 A • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method Contactor mounting height 99 mm width 55 mm depth 104 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom		IMotor > lower current setting value
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at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	minimum maximum	The state of the s
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: 250 A, RK5: 300 A — with type of assignment 2 required gG: 250 A • for short-circuit protection of the auxiliary switch required function in the auxiliary switch required function funct	minimum maximum UL/CSA ratings	The state of the s
Short-circuit protection	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor	IMotor < upper current setting value x 3.5
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 9G: 250 A, RK5: 300 A • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height 99 mm width 655 mm depth 104 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value	IMotor < upper current setting value x 3.5
of r 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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	IMotor < upper current setting value x 3.5 80 A 80 A
— with type of coordination 1 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height 99 mm width 55 mm depth 104 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value contact rating of auxiliary contacts according to UL	IMotor < upper current setting value x 3.5 80 A 80 A
— with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method Contactor mounting height 99 mm width 55 mm depth 104 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	IMotor < upper current setting value x 3.5 80 A 80 A
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method Contactor mounting height 99 mm width 55 mm depth 104 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	IMotor < upper current setting value x 3.5 80 A 80 A
Installation/ mounting/ dimensions mounting position any fastening method Contactor mounting height 99 mm width 55 mm depth 104 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit	IMotor < upper current setting value x 3.5 80 A 80 A 80 A B600 / R300
mounting position fastening method Contactor mounting height 99 mm width 55 mm depth 104 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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	80 A 80 A 80 A B600 / R300 gG: 250 A, RK5: 300 A
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width 55 mm depth 104 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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	IMotor < upper current setting value x 3.5 80 A 80 A 80 O B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A
depth 104 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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	80 A 80 A 80 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A
product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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 for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	IMotor < upper current setting value x 3.5 80 A 80 A 80 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting
product component removable terminal for auxiliary and control circuit type of electrical connection	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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	IMotor < upper current setting value x 3.5 80 A 80 A 80 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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	IMotor < upper current setting value x 3.5 80 A 80 A 80 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm
 for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom 	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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	IMotor < upper current setting value x 3.5 80 A 80 A 80 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm
• for auxiliary and control circuit arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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	IMotor < upper current setting value x 3.5 80 A 80 A 80 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm
arrangement of electrical connectors for main current circuit Top and bottom	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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 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	IMotor < upper current setting value x 3.5 80 A 80 A 80 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm
circuit	minimum maximum IUL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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 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	IMotor < upper current setting value x 3.5 80 A 80 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm
type of connectable conductor cross-sections for main contacts	minimum maximum IUL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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 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	IMotor < upper current setting value x 3.5 80 A 80 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm Yes screw-type terminals
• solid 1x (1 50 mm²), 2x (1 35 mm²)	minimum maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 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 for auxiliary and control circuit arrangement of electrical connectors for main current	IMotor < upper current setting value x 3.5 80 A 80 A 8600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm Yes screw-type terminals screw-type terminals

• stranded	2x (10 35 mm²), 1x 50 mm²
 solid or stranded 	1x (1 50 mm²), 2x (1 35 mm²)
finely stranded with core end processing	1x (1 35 mm²), 2x (1 25 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
— solid or stranded	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
for AWG cables for auxiliary contacts	1x (20 14), 2x (20 14)
tightening torque	
 for main contacts with screw-type terminals 	3 4.5 N·m
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv PZ 2
design of the thread of the connection screw	
• for main contacts	M6
of the auxiliary and control contacts	M3
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Communication/ Protocol	
type of voltage supply via input/output link master	No
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
 due to conductor-earth surge according to IEC 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
 due to high-frequency radiation according to IEC 61000- 4-6 	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
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 switching status	Slide switch
Approvals Certificates	











Confirmation



General Product Approval

EMV

For use in hazardous locations

Test Certificates

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping





PR



Confirmation

other

Environmental Confirmations

Environment

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=3RB3133-4WB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3133-4WB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3133-4WB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3133-4WB0&lang=en

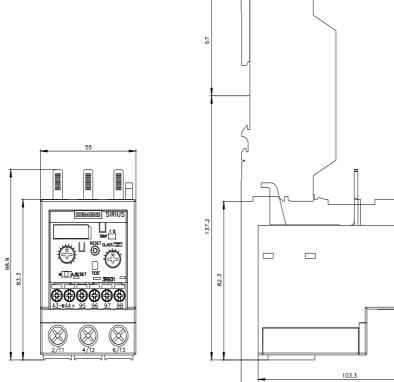
Characteristic: Tripping characteristics, I2t, Let-through current

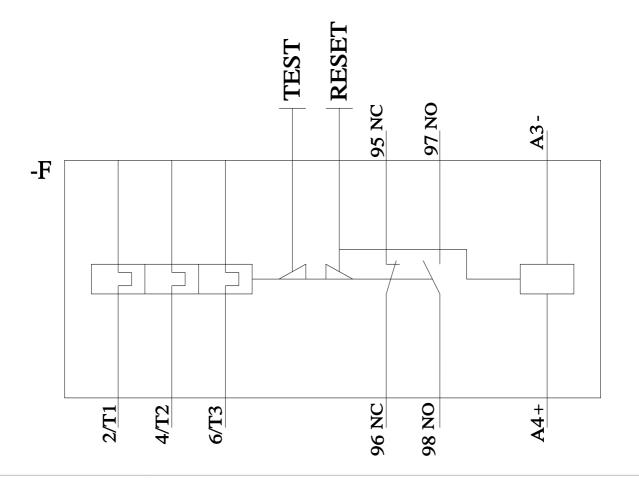
https://support.industry.siemens.com/cs/ww/en/ps/3RB3133-4WB0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3133-4WB0&objecttype=14&gridview=view1

125.1

113.1





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