SIEMENS

Data sheet 3RB3026-2RB0

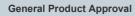


Overload relay 0.1...0.4 A Electronic For motor protection Size S0, Class 20 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB3
General technical data	
size of overload relay	S0
size of contactor can be combined company-specific	S0
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 ungrounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with ungrounded star point between main and auxiliary circuit 	600 V
 in networks with grounded star point 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
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles
thermal current	0.4 A
recovery time after overload trip	
with automatic reset typical	3 min
with remote-reset	0 min
with manual reset	0 min
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
Weight	0.228 kg
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-	0.1 0.4 A
dependent overload release	
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
• note	for message "tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	4 A
• at 24 V	4 A
• at 120 V	4 A
• at 125 V	4 A
• at 125 V • at 230 V	4 A 3 A
	3 A
operational current of auxiliary contacts at DC-13	0.4
• at 24 V	2 A
• at 60 V	0.55 A
• at 110 V	0.3 A
• at 125 V	0.3 A
• at 220 V	0.11 A
Protective and monitoring functions	01 400 005
trip class	CLASS 20E
trip class design of the overload release	CLASS 20E electronic
trip class design of the overload release UL/CSA ratings	
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	electronic
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	electronic 0.4 A
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	0.4 A 0.4 A
trip class design of the overload release 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	electronic 0.4 A
trip class design of the overload release 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	0.4 A 0.4 A
trip class design of the overload release 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	0.4 A 0.4 A
trip class design of the overload release 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	0.4 A 0.4 A B600 / R300
trip class design of the overload release 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	0.4 A 0.4 A B600 / R300 gG: 35 A, RK5: 3 A
trip class design of the overload release 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	electronic 0.4 A 0.4 A 8600 / R300 gG: 35 A, RK5: 3 A gG: 4 A
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	electronic 0.4 A 0.4 A 8600 / R300 gG: 35 A, RK5: 3 A
trip class design of the overload release 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	electronic 0.4 A 0.4 A 8600 / R300 gG: 35 A, RK5: 3 A gG: 4 A
trip class design of the overload release 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	electronic 0.4 A 0.4 A 8600 / R300 gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A
trip class design of the overload release 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	electronic 0.4 A 0.4 A 8600 / R300 gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	electronic 0.4 A 0.4 A B600 / R300 gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	electronic 0.4 A 0.4 A B600 / R300 gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	electronic 0.4 A 0.4 A B600 / R300 gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	electronic 0.4 A 0.4 A B600 / R300 gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	electronic 0.4 A 0.4 A B600 / R300 gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm
trip class design of the overload release 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	electronic 0.4 A 0.4 A B600 / R300 gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm 84 mm
trip class design of the overload release 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	electronic 0.4 A 0.4 A B600 / R300 gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm 84 mm
trip class design of the overload release 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	electronic 0.4 A 0.4 A B600 / R300 gG: 35 A, RK5: 3 A gG: 4 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm 84 mm Yes
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	electronic 0.4 A 0.4 A B600 / R300 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
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	electronic 0.4 A 0.4 A B600 / R300 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 screw-type terminals

• solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x	- stranded	2x 10 mm²
type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts • for auxiliary	0.000	
type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) • for AWG cables for auxiliary contacts 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) • for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts M3 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of voltage supply via input/output link master Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-carth surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-3 • due to high-frequency radiation according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Display type of conducted interference according to IEC 61000-4-2 Display type of conductor-carth surge according to IEC 61000-4-2 Electrostatic discharge according to IEC 61		
• for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) • for AWG cables for auxiliary contacts 1x (20 14), 2x (20 14) 1x (20 14) 1x (20 14), 2x (20 14) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (20 14) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 14) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (0.5 1.5		1X (1 6 mm²), 2 X (1 6 mm²), 1X 10 mm²
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- solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for main contacts with screw-type terminals design of the screwdriver tip	•	
- finely stranded with core end processing		
• for AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip Pozidriv PZ 2 design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts M3 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of voltage supply via input/output link master No Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-carth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-2 Display by for auxiliary contacts with screw-type terminals 2 2.5 N·m 0.8 1.2 N·m M4 9 conducted interference 2 2.5 N·m NA Pozidriv PZ 2 M4 M4 Pozidriv PZ 2 IP20 IP20 IP20 Tommunication/ Protocol 1P20 1P20 2 Voltage supply via input/output link master No Electromagnetic compatibility conducted interference • due to conductor-carth surge according to IEC 61000-4-5 • due to conductor-carth surge according to IEC 61000-4-5 • due to conductor-carth surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-3 • due to high-frequency radiation according to IEC 61000-4-3 • due to high-frequency radiation according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge Display		
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for auxiliary contacts with screw-type terminals design of screwdriver shaft pliameter 5 to 6 mm size of the screwdriver tip design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts • of the auxiliary and control contacts • of the auxiliary and control contacts Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of voltage supply via input/output link master No Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-5 • due to conductor-carth surge according to IEC 61000-4-5 • due to onductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Display	tightening torque	
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of the auxiliary and control contacts of the auxiliary and control contacts Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of voltage supply via input/output link master Communication/ Protocol type of voltage supply via input/output link master No Electromagnetic compatibility conducted interference o due to burst according to IEC 61000-4-4 o due to conductor-earth surge according to IEC 61000-4-5 o due to conductor-conductor surge according to IEC 61000-4-5 o due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Display M3 M3 Electrical Safety IP20 Inger-safe, for vertical contact from the front Communication Protocol INV Inger-safe, for vertical contact from the front Contact from the front Contact from the front Communication Protocol INV Inger-safe, for vertical contact from the front Communication The front Inger-safe, for vertical contact from the front Communication The front Inger-safe, for vertical contact from the front Communication The front Inger-safe, for vertical contact from the front Communication The front Inger-safe, for vertical contact from the front Inger-safe, for vertical contact front Inger-safe, for vertical contact front Inger-safe, for	size of the screwdriver tip	Pozidriv PZ 2
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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 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Display	Electrical Safety	
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Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Display	Communication/ Protocol	
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• due to high-frequency radiation according to IEC 61000- 4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Display 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz 10 V/m 6 kV contact discharge / 8 kV air discharge	• due to conductor-earth surge according to IEC 61000-4-5	2 kV (line to earth) corresponds to degree of severity 3
4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Display 10 V/m 6 kV contact discharge / 8 kV air discharge		1 kV (line to line) corresponds to degree of severity 3
electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge Display		10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
Display	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 and a few points him platters	Display	
display version for switching status Silde switch	display version for switching status	Slide switch
Approvals Certificates		









Confirmation





EMV For use in hazardous locations Test Certificates Marine / Shipping



<u>KC</u>



Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping other











Confirmation

Environment

Environmental Confirmations

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=3RB3026-2RB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-2RB0

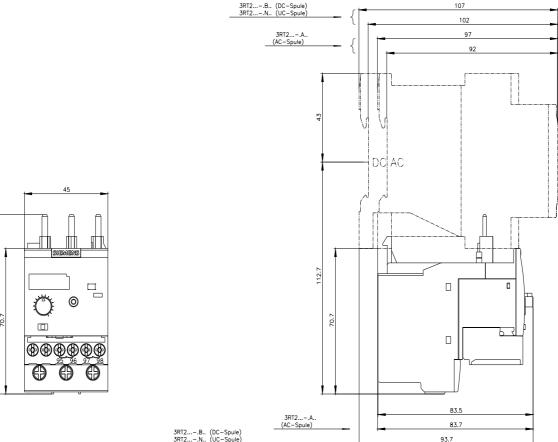
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

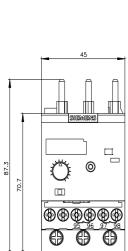
https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2RB0

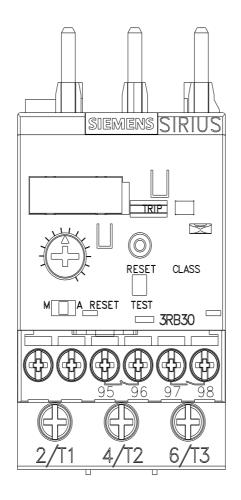
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3026-2RB0&lang=en

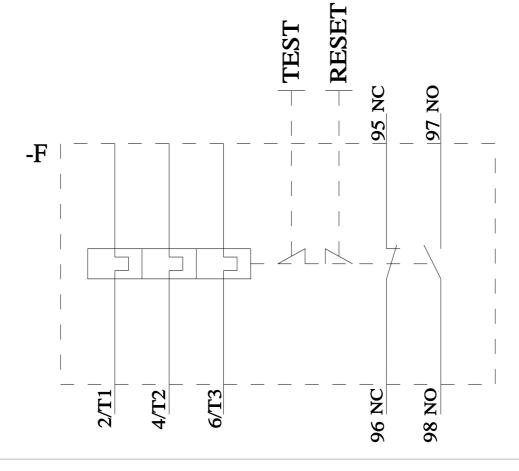
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2RB0/char









last modified: 3/11/2024 🖸