SIEMENS

Data sheet

3RT2518-1BF40



Power contactor, AC-3 16 A, 7.5 kW, 400 V 2 NO + 2 NC 110 V DC 4-pole Size S00 screw terminals

product brand name SIRUS product designation contactor product type designation 3RT25 Central technical data size of contactor size of contactor S00 product strension No • function module for communication No • auxiliary switch Yes insultation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 680 V • of auxiliary circuit ated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary with toke type for Set isolation between coll and main contacts according to EN 6097-1 shock resistance at rectangular impulse 7.3g / 5 ms, 4.7g / 10 ms • at DC 5 mechanical service life (switching cycles) 5 000 000 • of the contactor with added auxiliary switch block typical 30 000 000 <t< th=""><th></th><th></th></t<>		
product type designation 3RT25 General technical data size of contactor \$00 product extension \$00 \$00 • function module for communication No \$00 • auxiliary switch Yes \$00 insulation voltage \$00 V \$00 V • of main circuit with degree of pollution 3 rated value \$00 V \$00 V • of auxiliary circuit with degree of pollution 3 rated value \$00 V \$00 V • of main circuit rated value \$6 kV \$6 kV \$6 kV • of auxiliary circuit rated value \$6 kV \$6 kV \$6 kV • of main contacts according to EN 60947-1 \$6 kV \$6 kV \$00 V shock resistance at rectangular impulse \$10 C \$7.3 / 5 ms, 4.7g / 10 ms \$000 000 • at DC \$11.4g / 5 ms, 7.3g / 10 ms \$000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000 \$5000 000	product brand name	SIRIUS
General technical data size of contactor S00 product extension No • function module for communication No • auxiliary switch Yes insulation voltage 600 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 61 kV • of auxiliary circuit rated value 64 kV maximum premissible voltage for safe isolation between coil and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 61 kV • al DC 7.3g / 5 ms, 4.7g / 10 ms shock resistance with sine pulse 11.4g / 5 ms, 7.3g / 10 ms • of the contactor with added electronically optimized auxiliary switch block typical 30 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 fypical 2000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during operation -25 +60 °C • during operation 10 % relative humidity minimum 10 % re	product designation	contactor
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Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 2 000 m • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit 4		10 000 000
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit 4	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit 4	 during operation 	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit 4	during storage	-55 +80 °C
maximum Main circuit number of poles for main current circuit 4		10 %
number of poles for main current circuit 4		95 %
· · · · · · · · · · · · · · · · · · ·	Main circuit	
number of NO contacts for main contacts 2	number of poles for main current circuit	4
	number of NO contacts for main contacts	2

number of NC contacts for main contacts	2
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	22 A
— at ambient temperature 60 °C rated value	20 A
• at AC-2 at AC-3 at 400 V	
— per NO contact rated value	16 A
— per NC contact rated value	9 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
• at 1 current path at DC-3 at DC-5	
- at 24 V per NC contact rated value	20 A
— at 24 V per NO contact rated value	20 A 20 A
— at 110 V per NC contact rated value	0.075 A
•	0.15 A
— at 110 V per NO contact rated value	
— at 220 V per NC contact rated value	0.375 A
— at 220 V per NO contact rated value	0.75 A
with 2 current paths in series at DC-3 at DC-5 ot 24 // per NC contact reted value	20.4
— at 24 V per NC contact rated value	20 A
— at 24 V per NO contact rated value	20 A
— at 110 V per NC contact rated value	0.175 A
— at 110 V per NO contact rated value	0.35 A
operating power at AC-2 at AC-3	0.01111
at 230 V per NC contact rated value	2.2 kW
at 230 V per NO contact rated value	4 kW
at 400 V per NC contact rated value	4 kW
at 400 V per NO contact rated value	7.5 kW
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	165 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	165 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	92 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3 at 400 V for rated value of the	2.2 W
operational current per conductor	
no-load switching frequency • at AC	10 000 1/h
• at AC • at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	110 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
inductive power factor with closing power of the coil	0.8

closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	_ 4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	
operational current at AC-15	
• at 230 V rated value	10 A
at 400 V rated value	3 A
operational current at DC-12	
• at 48 V rated value	6 A
at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
yielded mechanical performance [hp]	
 for single-phase AC motor at 230 V rated value 	2 hp
 for 3-phase AC motor at 460/480 V rated value 	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
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 (690 V, 100 kA)
- with type of assignment 2 required	gG: 20A (690V, 100kA)
— with type of assignment 2 requiredfor short-circuit protection of the auxiliary switch	
 — with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	gG: 20A (690V, 100kA)
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions 	gG: 20A (690V, 100kA) fuse gG: 10 A
 — with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	gG: 20A (690V, 100kA)
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions 	gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
	gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes
	gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 57.5 mm
	gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth 	gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 57.5 mm 45 mm
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing 	gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 57.5 mm 45 mm
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth 	 gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 57.5 mm 45 mm
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting with side-by-side mounting with side-by-side mounting	 gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 57.5 mm 45 mm 73 mm
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards 	gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 57.5 mm 45 mm 73 mm
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 57.5 mm 45 mm 73 mm 0 mm 0 mm
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	 gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 57.5 mm 45 mm 73 mm 0 mm 0 mm 0 mm 0 mm
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards backwards upwards downwards 	 gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 57.5 mm 45 mm 73 mm 0 mm
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards backwards upwards at the side 	 gG: 20A (690V, 100kA) fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 57.5 mm 45 mm 73 mm 0 mm

— backwards	0 mm
— upwards	0 mm
— upwards — at the side	6 mm
— downwards	0 mm
for live parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
 of magnet coil 	Screw-type terminals
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ²
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
at AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross section for main contacts	20 12
Safety related data	
Safety related data product function	
product function	Yes; with 3RH29
	Yes; with 3RH29 No
 product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 	
 product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 T1 value for proof test interval or service life according to 	No
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC	No 20 y
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	No 20 y IP20
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Certificates/ approvals	No 20 y IP20
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	No 20 y IP20 finger-safe, for vertical contact from the front
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Certificates/ approvals	No 20 y IP20 finger-safe, for vertical contact from the front EMC
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Certificates/ approvals General Product Approval Confirmation Functional Safety/Safety of Declaration of Conformity	No 20 y IP20 finger-safe, for vertical contact from the front EMC
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Certificates/ approvals General Product Approval Confirmation Functional Safety/Safety of Machinery Declaration of Conformity	No 20 y IP20 finger-safe, for vertical contact from the front EMC ion Upper L Upper L Test Certificates
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Certificates/ approvals General Product Approval Confirmation Functional Safety/Safety of Declaration of Conformity	No 20 y IP20 finger-safe, for vertical contact from the front EMC ion Upper L Upper L Test Certificates
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Certificates/ approvals General Product Approval Confirmation Functional Safety/Safety of Machinery Declaration of Conformity	No 20 y IP20 finger-safe, for vertical contact from the front EMC ion Upper L Upper L Test Certificates







Dangerous Good







other



<u>Transport Informa-</u> tion

Further information

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=3RT2518-1BF40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2518-1BF40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2518-1BF40

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

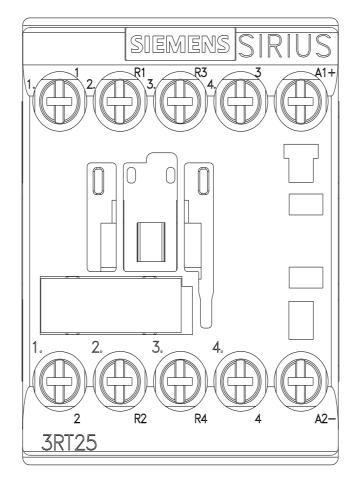
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2518-1BF40&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2518-1BF40/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2518-1BF40&objecttype=14&gridview=view1



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