



Reference: 3RT2028-1AL20

CONTACTOR, AC-3, 18.5KW/400V, 1NO +1NC, AC 230V 50/60HZ, 3-POLE, SZ S0 **SCREW TERMINAL**

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product brand name	SIRIUS
Product designation	3RT2 contactor
General technical data:	
Size of contactor	S0
Product extension	
function module for communication	No
Auxiliary switch	Yes
Insulation voltage	
rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between coil and main contacts acc. to EN 60947-1	400 V
Protection class IP	
on the front	IP20
of the terminal	IP20
Shock resistance	
at rectangular impulse	
— at AC	8,3g / 5 ms, 5,3g / 10 ms
with sine pulse	
— at AC	13,5g / 5 ms, 8,3g / 10 ms

Mechanical service life (switching cycles)	
of contactor typical	10 000 000
of the contactor with atd>	5 000 000
of the contactor with atd>	10 000 000
Ambient conditions:	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit:	
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating voltage	
at AC-3 rated value maximum	690 V
Operating current	
at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	50 A
at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
at AC-2 at 400 V rated value	38 A
at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
Connectable conductor cross-section in main circuit at AC-1	
at 60 °C minimum permissible	10 mm²
at 40 °C minimum permissible	10 mm²
Operating current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	12 A
at 690 V rated value	12 A
Operating current	
at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A

— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
Operating current	
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 24 V rated value	35 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 24 V rated value	35 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
Operating power	
at AC-1	
— at 230 V rated value	16 kW
— at 230 V at 60 °C rated value	15.5 kW
— at 400 V rated value	28 kW

— at 400 V at 60 °C rated value	27.5 kW
— at 690 V rated value	48 kW
— at 690 V at 60 °C rated value	47.5 kW
at AC-2 at 400 V rated value	18.5 kW
at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
Operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	6 kW
at 690 V rated value	10.3 kW
Thermal short-time current limited to 10 s	304 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	3.8 W
No-load switching frequency	
at AC	5 000 1/h
Operating frequency	
at AC-1 maximum	1 000 1/h
at AC-2 maximum	750 1/h
at AC-3 maximum	750 1/h
at AC-4 maximum	250 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
Operating range factor control supply voltage rated value of magnet coil at AC	
at 50 Hz	0.8 1.1
at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	
at 50 Hz	81 V·A
at 60 Hz	79 V·A
Inductive power factor with closing power of the coil	
at 50 Hz	0.72
at 60 Hz	0.74
Apparent holding power of magnet coil at AC	
at 50 Hz	10.5 V·A

25 28 40 ms 16 ms 10 ms
40 ms
40 ms
16 ms
16 ms
10 ms
mA
mA
A
A
A
A
4
A
A
A
A
A
A
L5 A
A
A
A

at 110 / rated value		
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: Full-load current (FLA) for three-phase AC motor at 480 V rated value 34 A at 600 V rated value 27 A Vielded mechanical performance [hp] for single-phase AC motor 3 hp at 230 V rated value 5 hp for three-phase AC motor 10 hp at 220/230 V rated value 10 hp at 220/230 V rated value 5 hp for three-phase AC motor 10 hp at 220/230 V rated value 10 hp at 220/230 V rated value 25 hp Contact rating of auxiliary contacts according to UL 8600 / 0600 Short-circuit protection Design of the fuse link for short-circuit protection of the main circuit with type of assignment 2 required gu/gG NH 3NA, DIAZED 558, NEOZED 55E: 125 A with type of assignment 2 required gu/gG NH 3NA, DIAZED 558, NEOZED 55E: 50 A for short-circuit protection of the auxiliary switch guster for the fuse little forward and backward by +/- 22.5° on vertical mounting filmensions: Mounting position 45 mm Mounting type 5 cerew and snap-on mounting onto 35 mm standard mounting type Side-by-side mounting 45 mm Witd> 45 mm Depth 97 mm Required spacing with side by-side mounting mith side by-side mounting forwards 0 mm	at 110 V rated value	
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: Full-load current (FLA) for three-phase AC motor at 480 V rated value 27 A Yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 3 hp 4 for three-phase AC motor at 200/208 V rated value 5 hp 6 for three-phase AC motor 4 to 10 hp 4 for three-phase AC motor 5 hp 6 for three-phase AC motor 6 for three-phase AC motor 7 for three-phase AC motor 9 for three-phase AC m	at 125 V rated value	0.9 A
Contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings: Full-load current (FLA) for three-phase AC motor at 480 V rated value 27 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 5 hp for three-phase AC motor — at 200/280 V rated value 10 hp — at 200/280 V rated value 10 hp — at 200/280 V rated value 25 hp — at 375/600 V rated value 25 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 gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A — with type of assignment 2 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required sundant protection of the sundant protection of th	at 220 V rated value	0.3 A
ULCSA ratings: Full-load current (FLA) for three-phase AC motor at 480 V rated value 34 A at 600 V rated value 27 A Vielded mechanical performance (hp) for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 5 hp for three-phase AC motor — at 200/208 V rated value 10 hp — at 270/230 V rated value 10 hp — at 270/230 V rated value 25 hp — at 460/480 V rated value 25 hp — at 575/600 V rated value 25 hp — ontact rating of auxiliary contacts according to UL 25 hp — with type of coordination 1 required 9L/G NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A — with type of coordination 1 required 9L/G NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required 1 fuse gL/gG: 10 A Installation/ mounting/ dimensions: Mounting position 4/-180° rotation possible on vertical mounting surface: can be tilted forward and backward by +/- 22.5° on vertical mounting onto 35 mm standard mounting type Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting — forwards 0 d mm	at 600 V rated value	0.1 A
Full-load current (FLA) for three-phase AC motor at 480 V rated value 34 A at 600 V rated value 27 A Yielded mechanical performance (hp) for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 5 hp for three-phase AC motor — at 220/230 V rated value 10 hp — at 220/230 V rated value 25 hp — at 460/480 V rated value 25 hp — at 575/600 V rated value 25 hp 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 gL/gG NH 3NA, DIAZED 55B, NEOZED 55E: 125 A with type of assignment 2 required gL/gG NH 3NA, DIAZED 55B, NEOZED 55E: 50 A for short-circuit protection of the auxiliary switch required Mounting position 4-/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface screw and snap-on mounting noto 35 mm standard mounting type Side-by-side mounting Yes Height 85 mm Witd> 45 mm Pepth Prowards O mm	Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
at 480 V rated value 27 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 5 hp for three-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value 25 hp — at 460/480 V rated value 25 hp — at 575/600 V rated value 25 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 assignment 2 required glu/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A — with type of assignment 2 required glu/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required fuse glu/gG: 10 A Installation/ mounting/ dimensions: Mounting position 4-/-180° rotation possible on vertical mounting surface: can be tilted forward and backward by +/- 22.5° on vertical mounting surface: can be under the surface of	UL/CSA ratings:	
Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 5 hp for three-phase AC motor — at 200/208 V rated value 10 hp — at 200/208 V rated value 25 hp — at 460/480 V rated value 25 hp — at 460/480 V rated value 25 hp — at 575/600 V rated value 25 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 yellow of coordination 1 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A Installation/ mounting/ dimensions: Mounting position 4-/-180* rotation possible on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can be tilted forward and backward by 4/- 22.5* on vertical mounting surface; can	Full-load current (FLA) for three-phase AC motor	
Vielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp for three-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value 25 hp — at 460/480 V rated value 25 hp — at 460/480 V rated value 25 hp — at 575/600 V rated value 25 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 ype of coordination 1 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A fuse gL/gG: 10 A Installation/ mounting/ dimensions: Mounting position 4-/-180* rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; Side-by-side mounting 45 mm Mounting type 55 mm Witd- 45 mm Depth 97 mm Required spacing with side-by-side mounting Uman 10 mm	at 480 V rated value	34 A
resingle-phase AC motor	at 600 V rated value	27 A
- at 110/120 V rated value 5 hp - at 230 V rated value 5 hp for three-phase AC motor - at 200/208 V rated value 10 hp - at 220/230 V rated value 25 hp - at 460/480 V rated value 25 hp - at 575/600 V rated value 25 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 gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A gu/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A Installation/ mounting/ dimensions: Mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting rail according to DIN EN 50022 Side-by-side mounting Yes Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting with side-by-side mounting - forwards 0 mm	Yielded mechanical performance [hp]	
for three-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — 25 hp — at 575/600 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 gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A — with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting position #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface and be tilted forward and backward by the surface; can be tilted forward.	for single-phase AC motor	
for three-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — 25 hp — at 575/600 V rated value — 25 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 — with type of assignment 2 required gL/gG NH 3NA, DIAZED 55B, NEOZED 55E: 125 A — with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: #/-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 type Side-by-side mounting Yes Height #5 mm Witd> #5 mm Pepth Required spacing with side-by-side mounting O mm	— at 110/120 V rated value	3 hp
- at 200/208 V rated value 10 hp - at 220/230 V rated value 25 hp - at 460/480 V rated value 25 hp - at 575/600 V rated value 25 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 gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A Installation/ mounting/ dimensions: Mounting position +/-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 Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting Unmards 0 mm	— at 230 V rated value	5 hp
— at 220/230 V rated value 10 hp — at 460/480 V rated value 25 hp — at 575/600 V rated value 25 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 gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A — with type of assignment 2 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required function frequired gL/gG: 10 A Installation/ mounting/ dimensions: Mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface mounting surface screw and snap-on mounting onto 35 mm standard mounting type Screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting o mm	for three-phase AC motor	
- at 460/480 V rated value 25 hp - at 575/600 V rated value 25 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 gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A - with type of assignment 2 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A Installation/ mounting/ dimensions: Mounting position	— at 200/208 V rated value	10 hp
- at 575/600 V rated value 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 gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A with type of assignment 2 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting position #/-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 type Side-by-side mounting Yes #S5 mm Witd> #5 mm Depth P7 mm Required spacing with side-by-side mounting #installation/ mounting #installation/ mounting #installation/ mounting #installation/ mounting onto 35 mm standard mounting rail according to DIN EN 50022 #installation/ mounting #	— at 220/230 V rated value	10 hp
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 gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A - with type of assignment 2 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A Installation/ mounting/ dimensions: Mounting position +/-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 full according to DIN EN 50022 Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting - forwards 0 mm	— at 460/480 V rated value	25 hp
Short-circuit protection Design of the fuse link for short-circuit protection of the main circuit - with type of coordination 1 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A - with type of assignment 2 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A Installation/ mounting/ dimensions: Mounting position +/-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 Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting with side-by-side mounting — forwards 0 mm	— at 575/600 V rated value	25 hp
Design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A — with type of assignment 2 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A Installation/ mounting/ dimensions: Mounting position +/-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 Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting — forwards 0 mm	Contact rating of auxiliary contacts according to UL	A600 / Q600
for short-circuit protection of the main circuit - with type of coordination 1 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A - with type of assignment 2 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth Popth 97 mm Required spacing with side-by-side mounting with side-by-side mounting - forwards 0 mm	Short-circuit protection	
 with type of coordination 1 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A with type of assignment 2 required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting position +/-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 Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting mounting mounting o mm 	Design of the fuse link	
— with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting position Mounting type Mounting type Side-by-side mounting Height Witd> 45 mm Depth Required spacing with side-by-side mounting — forwards gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A fuse gL/gG: 10 A fuse gL/g	for short-circuit protection of the main circuit	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting position +/-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 Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting — forwards 0 mm	— with type of coordination 1 required	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
Installation/ mounting/ dimensions: Mounting position +/-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 Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting - forwards 0 mm	— with type of assignment 2 required	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A
Hounting position +/-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 Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting — forwards 0 mm		fuse gL/gG: 10 A
Mounting position can be tilted forward and backward by +/- 22.5° on vertical mounting surface Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting — forwards 0 mm	Installation/ mounting/ dimensions:	
Side-by-side mounting Yes Height 85 mm Witd> 45 mm Depth Pequired spacing with side-by-side mounting — forwards mounting rail according to DIN EN 50022 Yes 85 mm 97 mm 0 mm	Mounting position	can be tilted forward and backward by +/- 22.5° on
Height 85 mm Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting — forwards 0 mm	Mounting type	
Witd> 45 mm Depth 97 mm Required spacing with side-by-side mounting — forwards 0 mm	Side-by-side mounting	Yes
Depth 97 mm Required spacing with side-by-side mounting — forwards 0 mm	Height	85 mm
Required spacing with side-by-side mounting — forwards 0 mm	Witd>	45 mm
with side-by-side mounting — forwards 0 mm	Depth	97 mm
— forwards 0 mm	Required spacing	
	with side-by-side mounting	
— Backwards 0 mm	— forwards	0 mm
	— Backwards	0 mm

— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— 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 current circuit	screw-type terminals
Type of connectable conductor cross-sections	sciew-type terrimas
for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— single or multi-stranded	2x (1 2,5 mm²), 2x (2,5 10 mm²)
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
at AWG conductors for main contacts	2x (16 12), 2x (14 8)
Type of connectable conductor cross-sections	27 (10 12), 27 (14 0)
for auxiliary contacts	
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14)
Safety related data:	ZA (ZO 10), ZA (10 17)
B10 value	
with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures	1 000 000
with low demand rate acc. to SN 31920	40 %
with high demand rate acc. to SN 31920	73 %
Failure rate [FIT]	13 /0
with low demand rate acc. to SN 31920	100 FIT
with low defination rate acc. to SN 31920	T00 L11

Product function	
Mirror contact acc. to IEC 60947-4-1	Yes
T1 value for proof test interval or service life acc. to IEC 61508	20 y