SIEMENS

Data sheet 3RT2036-1SF30



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 83-150 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NC, screw terminal, size: S2, F-PLC-IN

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	12 W
 at AC in hot operating state per pole 	4 W
 without load current share typical 	1.6 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
• at DC	12g / 5 ms, 7g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	5 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	5 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/29/2021
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 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
Weight	1.14 kg
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
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	70 A
— up to 690 V at ambient temperature 40 °C rated value	70 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
• at AC-5a up to 690 V rated value	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	43.2 A
 up to 400 V for current peak value n=20 rated value 	43.2 A
 up to 500 V for current peak value n=20 rated value 	43.2 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	28.8 A
 up to 400 V for current peak value n=30 rated value 	28.8 A
— up to 500 V for current peak value n=30 rated value	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	24 A
at 690 V rated value	20 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 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	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 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	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 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 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	12.6 kW
at 690 V rated value	18.2 kW
operating apparent power at AC-6a	
• up to 400 V for current peak value n=20 rated value	29 900 VA
• up to 500 V for current peak value n=20 rated value	37 400 VA
• up to 690 V for current peak value n=20 rated value	28 600 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	11 400 VA
• up to 400 V for current peak value n=30 rated value	19 900 VA
• up to 500 V for current peak value n=30 rated value	24 900 VA
• up to 690 V for current peak value n=30 rated value	28 600 VA
short-time with stand current in cold operating state up to 40 $^{\circ}\text{C}$	
 limited to 1 s switching at zero current maximum 	937 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	282 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 1/h

operating frequency	
at AC-1 maximum	1 000 1/h
at AC-2 maximum	600 1/h
• at AC-3 maximum	800 1/h
• at AC-3e maximum	800 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	83 150 V
at 60 Hz rated value	83 150 V
control supply voltage at DC rated value	83 150 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
type of PLC-control input according to IEC 60947-1	Type 1
consumed current at PLC-control input according to IEC 60947-1 maximum	11 mA
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	25 A
duration of inrush current peak	10 µs
locked-rotor current mean value	0.34 A
locked-rotor current peak	0.8 A
duration of locked-rotor current	230 ms
holding current mean value	0.015 A
apparent pick-up power of magnet coil at AC	
• at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power	
at minimum rated control supply voltage at DC	2 VA
at maximum rated control supply voltage at DC	2 VA
apparent holding power	
at minimum rated control supply voltage at AC	
— at 50 Hz	2 VA
— at 60 Hz	2 VA
at maximum rated control supply voltage at AC	OVA
— at 50 Hz	2 VA
— at 60 Hz	2 VA
apparent holding power of magnet coil at AC	2.1/A
• at 50 Hz	2 VA
• at 60 Hz	2 VA
inductive power factor with the holding power of the coil • at 50 Hz	0.05
• at 50 Hz • at 60 Hz	0.95 0.95
	0.95 40 W
closing power of magnet coil at DC	1.6 W
holding power of magnet coil at DC closing delay	1.U VV
• at AC	35 110 ms
• at DC	35 110 ms
	55 110 IIIS
opening delay	20 55 mg
• at AC	30 55 ms
• at DC	30 55 ms
recovery time after power failure typical	2.1 s
arcing time	10 20 ms
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)

Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
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 125 V rated value	0.9 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	
full-load current (FLA) for 3-phase AC motor	FO A
• at 480 V rated value	52 A 52 A
at 600 V rated value Violed demonstration performance [hp]	52 A
yielded mechanical performance [hp] • for single-phase AC motor	
— at 110/120 V rated value	2 hn
— at 230 V rated value	3 hp 10 hp
• for 3-phase AC motor	топр
— at 200/208 V rated value	15 hp
— at 220/230 V rated value — at 220/230 V rated value	15 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
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
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	114 mm
width	55 mm
depth	130 mm
required spacing	
with side-by-side mounting— forwards	10 mm

- upwards		
- at the side • for grounded parts — upwards — at the side — at the side — downwards 10 mm • forwards 10 mm • forwards 10 mm — downwards 10 mm — downwards 10 mm — downwards 10 mm — downwards — upwards — upwar	— upwards	10 mm
- forgrounded parts - forwards - upwards - at the side - downwards - for live parts - forwards - fo	— downwards	10 mm
Forwards upwards upwards upwards downwards 10 mm downwards downwards downwards 10 mm forwards 10 mm forwards 10 mm downwards upwards 10 mm downwards 10 mm downwards upwards downwards upwards downwards upwards downwards upwards downwards upwards upwar	— at the side	0 mm
upwards at the side downwards 10 mm (fortwer parts -	 for grounded parts 	
	— forwards	10 mm
• fol live parts • for live parts • for live parts • for live parts • for live parts • forwards • upwards • downwards • downwards • downwards • for man • downwards • for man • at the side • for man • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Screw-type terminals • for man contacts • for live parts • for MVS cables for man contacts • for standed • for live parts • for for man contacts • for standed • for live parts • for for man contacts • for standed • for live parts • for for man contacts • for governed with core end processing • for for man contacts • for standed • for live parts • for auxiliary contacts • for auxiliary contac	— upwards	10 mm
- for live parts - forwards - upwards - upwards - downwards - d mm - d was side - downwards - at the side - of mm Connections/ Terminals Type of electrical connection - for auxiliary and control circuit - of a auxiliary and control circuit - of main current circuit - of main current circuit - of magnet coil - of magnet coil - of magnet coil - for main contacts - of magnet coil - for main contacts - solid or stranded - freely stranded with core end processing - of nAVG cables for main contacts - solid or stranded - freely stranded with core end processing - of may stranded with core end processing - solid or stranded - freely stranded with core end p	— at the side	6 mm
	— downwards	10 mm
	for live parts	
upwards	•	10 mm
downwards at the side 6 mm Connections' Torminals Type of electrical connection • for main current circuit	— upwards	10 mm
- at the side Connections Torminals Type of electrical connection • for main current circuit • for auxiliary and control circuit • at conductor for auxiliary contacts • of magnet coil Type of connectable conductor cross-sections • for main contacts • for main contacts - solid or stranded - finely stranded with core and processing • for AWG cables for main contacts • finely stranded with core and processing • for AWG cables for main contacts • finely stranded with core and processing • for AWG cables for main contacts • finely stranded with core and processing connectable conductor cross-section for main contacts • finely stranded with core and processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core and processing • for auxiliary contacts - solid or stranded - finely stranded with core and processing • for auxiliary contacts - solid or stranded - finely stranded with core and processing • for AWG cables for auxiliary contacts • for auxiliary contacts - solid or stranded 2x (0.51.5 mm²), 2x (0.752.5 mm²) • for AWG cables for auxiliary contacts • for auxiliary contacts - for auxiliary contacts • for auxiliary contacts	·	
type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • of magnet coil type of connectable conductor cross-sections • for final contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts • finely stranded with core and processing • for formal conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for favily contacts — solid or stranded — finely stranded with core end processing • for alw Cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for alw Cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for alw Cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for alw Cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for alw Cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for alw Cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for alw Cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for alw Cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for formal contacts — solid or stranded — finely stranded with core end processing • for formal contacts — solid or stranded — finely stranded with core end processing • for formal contacts — solid or stranded — finely stranded with core end processing • for formal contacts — solid or stranded — fi		
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type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing — for AWC cables for main contacts * for main contacts — finely stranded with core end processing connectable conductor cross-section for main contacts * finely stranded with core end processing connectable conductor cross-section for main contacts * solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts * solid or stranded finely stranded with core end processing for auxiliary contacts * for auxiliary contacts * for auxiliary contacts * for auxiliary contacts * for AWC cables for auxiliary contacts * for auxiliary contacts * for far Gables for auxiliary contacts * for far for auxiliary contacts * for second connectable conductor cross section * for main contacts * for auxiliary conta		
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing proper of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for davidiary contacts — solid or stranded — finely stranded with core end processing • for fawG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for fawG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for fawG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for fawG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for fawG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for fawG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for fawG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for fawG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for fawG cables for auxiliary contacts	•	
• for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²), 2x (Screw-type terminals
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e finely stranded with core end processing connectable conductor cross-section for auxiliary contacts		2x (18 2), 1x (18 1)
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • mitror contact according to IEC 60947-5-1 • suitable for safety function Yes safe state off test wear-related service life necessary diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 MTBF S2 a	connectable conductor cross-section for main contacts	
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type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function Suitability for use safety-related switching OFF yes safe state toff test wear-related service life necessary diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 * with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to IEC 62061 Safety integrity Level (SIL) according to IEC 62061 Safety integrity Level (SIL) according to IEC 62061 Safety integrity Level (SIL) according to IEC 62061 7.7E-8 1/h PL C	connectable conductor cross-section for auxiliary contacts	
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• for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitability for use safety-related switching OFF suitability for use safety-related switching OFF yes safe state diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 100 FIT MTBF 52 a IEC 62081 Safety Integrity Level (SIL) according to IEC 62061 7.7E-8 1/h ISO 13849 performance level (PL) according to ISO 13849-1	finely stranded with core end processing	0.5 2.5 mm ²
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AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 No • suitable for safety function • suitable for safety function suitability for use safety-related switching OFF yes safe state test wear-related service life necessary diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 100 000 failure rate [FIT] with low demand rate according to SN 31920 failure rate (FIT] with low demand rate according to SN 31920 MTBF 52 a IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 Safety Integrity Level (PL) according to ISO 13849-1 PL c	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • suitable for safety function • suitable for safety function safe state off test wear-related service life necessary diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 MTBF 52 a IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 SIL 2 PFHD with high demand rate according to IEC 62061 SISO 13849 performance level (PL) according to ISO 13849-1 PL c	 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)
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MTBF 52 a IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 PFHD with high demand rate according to IEC 62061 ISO 13849 performance level (PL) according to ISO 13849-1 PL c		
IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 PFHD with high demand rate according to IEC 62061 ISO 13849 performance level (PL) according to ISO 13849-1 PL c	31920	
Safety Integrity Level (SIL) according to IEC 62061 PFHD with high demand rate according to IEC 62061 ISO 13849 performance level (PL) according to ISO 13849-1 PL c	MTBF	52 a
PFHD with high demand rate according to IEC 62061 7.7E-8 1/h ISO 13849 performance level (PL) according to ISO 13849-1 PL c	IEC 62061	
ISO 13849 performance level (PL) according to ISO 13849-1 PL c		
performance level (PL) according to ISO 13849-1 PL c	Safety Integrity Level (SIL) according to IEC 62061	SIL 2
	PFHD with high demand rate according to IEC 62061	
0000 many accounting to 1970 679 69	PFHD with high demand rate according to IEC 62061 ISO 13849	7.7E-8 1/h
category according to ISO 13849-1 2	PFHD with high demand rate according to IEC 62061 ISO 13849 performance level (PL) according to ISO 13849-1	7.7E-8 1/h PL c

device type according to ISO 13849-1	1
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	2
safety device type according to IEC 61508-2	Type B
PFHD with high demand rate according to IEC 61508	7.7E-8 1/h
PFDavg with low demand rate according to IEC 61508	0.0067
Safe failure fraction (SFF)	96 %
hardware fault tolerance according to IEC 61508	0
T1 value of service life according to IEC 61508	20 a
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
Approvals Certificates	

General Product Approval





Confirmation





<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Cer**tificate**

Type Test Certificates/Test Report





Marine / Shipping other Environment Railway







Confirmation

Special Test Certific-<u>ate</u>

Environmental Confirmations

Further information

Information on the packaging

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2036-1SF30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1SF30

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

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

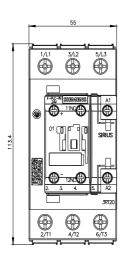
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1SF30&lang=en

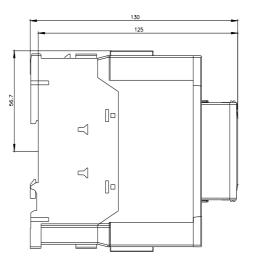
Characteristic: Tripping characteristics, I2t, Let-through current

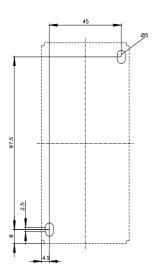
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1SF30/char

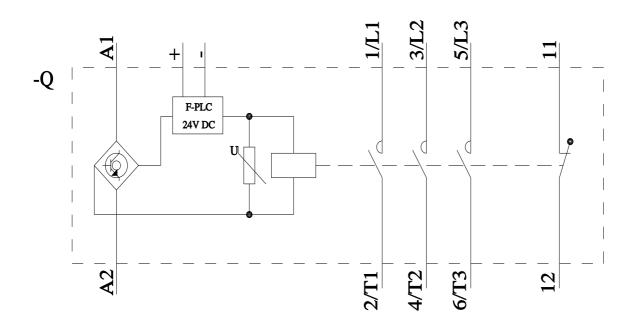
Further characteristics (e.g. electrical endurance, switching frequency)

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last modified:

1/24/2025

