SIEMENS

Data sheet

3RT2045-1XF40-0LA2



traction contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 110 V DC, 0.7-1.25* Us, electronic drive, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal

NU 6/1	
product brand name	SIRIUS
product designation	Power contactor
design of the product	With extended operating range
product type designation	3RT2
General technical data	
size of contactor	S3
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 	15.9 W
 at AC in hot operating state per pole 	5.3 W
 without load current share typical 	1 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at DC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-40 +70 °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 	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	125 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	125 A
rated value	
— up to 690 V at ambient temperature 60 °C	105 A
rated value	
• at AC-2 at 400 V rated value	80 A
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value — at 690 V rated value	80 A 58 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
— at 1000 V rated value	30 A
• at AC-4 at 400 V rated value	66 A
minimum cross-section in main circuit	
 at maximum AC-1 rated value 	50 mm²
at maximum Ith rated value	50 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	34 A
at 690 V rated value	24 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
• with 2 current paths in series at DC-1	400 A
— at 24 V rated value — at 110 V rated value	100 A 100 A
— at 220 V rated value	10 A
- at 440 V rated value	1.8 A
— at 600 V rated value	1A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	40 A
— at 110 V rated value	2.5 A
— at 220 V rated value — at 440 V rated value	1 A 0.15 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	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A

• with 3 current paths in series at DC-3 at DC-5	400.4
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
 operating power at AC-2 at 400 V rated value 	37 kW
• at AC-3	57 KW
• at AC-3 — at 230 V rated value	22 kW
— at 200 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	17.9 kW
• at 690 V rated value	21.8 kW
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 500 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	1 186 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	851 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	538 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	423 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	1 000 1/h
operating frequency	
 at AC-2 at AC-3e maximum 	400 1/h
 at AC-4 maximum 	300 1/h
Ratings for railway applications	
thermal current (Ith) up to 690 V	
 up to 40 °C according to IEC 60077 rated value 	125 A
 up to 70 °C according to IEC 60077 rated value 	90 A
Control circuit/ Control	
Control circuit/ Control type of voltage	DC
Control circuit/ Control type of voltage type of voltage of the control supply voltage	DC DC
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC	DC
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value	
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated	DC
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value	DC 110 V
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC	DC
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value	DC 110 V 0.7
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value	DC 110 V 0.7 1.25
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor	DC 110 V 0.7 1.25 with varistor
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak	DC 110 V 0.7 1.25 with varistor 1.5 A
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak duration of inrush current peak	DC 110 V 0.7 1.25 with varistor 1.5 A 50 μs
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value	DC 110 V 0.7 1.25 with varistor 1.5 A 50 µs 1.1 A
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak	DC 110 V 0.7 1.25 with varistor 1.5 A 50 µs 1.1 A 2.7 A
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC	DC 110 V 0.7 1.25 with varistor 1.5 A 50 µs 1.1 A 2.7 A 150 ms
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC	DC 110 V 0.7 1.25 with varistor 1.5 A 50 μs 1.1 A 2.7 A 150 ms 15 mA
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC	DC 110 V 0.7 1.25 with varistor 1.5 A 50 µs 1.1 A 2.7 A 150 ms 15 mA 64 W 1 W
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC	DC 110 V 0.7 1.25 with varistor 1.5 A 50 µs 1.1 A 2.7 A 150 ms 15 mA 64 W
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay	DC 110 V 0.7 1.25 with varistor 1.5 A 50 µs 1.1 A 2.7 A 150 ms 15 mA 64 W 1 W 50 70 ms
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC • at DC	DC 110 V 0.7 1.25 with varistor 1.5 A 50 µs 1.1 A 2.7 A 150 ms 15 mA 64 W 1 W 50 70 ms 38 57 ms
Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay	DC 110 V 0.7 1.25 with varistor 1.5 A 50 µs 1.1 A 2.7 A 150 ms 15 mA 64 W 1 W 50 70 ms

Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	1
number of NO contacts for auxiliary contacts	1
instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 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	10.4
at 24 V rated value	10 A 2 A
at 48 V rated value	2 A 2 A
 at 60 V rated value at 110 V rated value 	2 A 1 A
at 125 V rated value	0.9 A
 at 220 V rated value at 220 V rated value 	0.3 A
at 600 V rated value	0.1 A
UL/CSA ratings	0.171
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	77 A
at 600 V rated value	62 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	25 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	60 hp
— at 575/600 V rated value	60 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
product function short circuit protection	No
design of the fuse link	
 for short-circuit protection of the main circuit with two of coordination 1 required 	
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (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
fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
 side-by-side mounting 	Yes
height	140 mm
width	70 mm
depth	152 mm
required spacing	
with side-by-side mounting	
— forwards — upwards	20 mm
	10 mm

- downward		10 mm			
	— at the side		0 mm		
for grounded parts					
— forwards		20 mm			
— upwards		10 mm			
— at the side	9	10 mm			
- downward	ls	10 mm			
 for live parts 					
— forwards		20 mm			
— upwards		10 mm	10 mm		
- downward	ls	10 mm	10 mm		
— at the side	2	10 mm			
Connections/ Termina	als				
type of electrical co					
 for main curren 		screw-type terminals			
 for auxiliary and 					
		screw-type terminals			
	auxiliary contacts	Screw-type terminals			
of magnet coil		Screw-type terminals			
type of connectable c contacts	conductor cross-sections for main				
	with core and processing	$2x(2.5, 35 \text{ mm}^2)$ $1x(2.5)$	50 mm^2		
-	with core end processing	2x (2.5 35 mm²), 1x (2.5	50 mm)		
	conductor cross-sections				
 for auxiliary cor 		0x (0 E 1 E mm ²) 0x (0 E	$2 E mm^2$		
— solid or str		2x (0.5 1.5 mm ²), 2x (0.75			
-	nded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75	2.5 mm²)		
	for auxiliary contacts	2x (20 16), 2x (18 14)			
AWG number as coordinates and section	ded connectable conductor cross				
 for main contact 		10 2			
		20 14			
 for auxiliary cor 	itacis	20 14			
Safety related data					
product function					
 mirror contact according to IEC 60947-4-1 		Yes			
 positively driven operation according to IEC 60947- 		No			
5-1		4 000 000			
5-1 B10 value with high d	lemand rate according to SN 31920	1 000 000			
5-1 B10 value with high d proportion of dange	lemand rate according to SN 31920 prous failures				
5-1 B10 value with high d proportion of dange • with low demar	demand rate according to SN 31920 prous failures and rate according to SN 31920	40 %			
5-1 B10 value with high d proportion of dange • with low demar • with high dema	demand rate according to SN 31920 prous failures and rate according to SN 31920 and rate according to SN 31920	40 % 73 %			
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with	demand rate according to SN 31920 prous failures and rate according to SN 31920	40 %			
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920	demand rate according to SN 31920 Prous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN	40 % 73 % 100 FIT			
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes	demand rate according to SN 31920 prous failures and rate according to SN 31920 and rate according to SN 31920	40 % 73 %			
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508	demand rate according to SN 31920 Prous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to	40 % 73 % 100 FIT 20 a			
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508	demand rate according to SN 31920 Prous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN	40 % 73 % 100 FIT			
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529	demand rate according to SN 31920 Prous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to con the front according to IEC	40 % 73 % 100 FIT 20 a IP20	st from the front		
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on	demand rate according to SN 31920 prous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC the front according to IEC 60529	40 % 73 % 100 FIT 20 a	ct from the front		
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prot	demand rate according to SN 31920 prous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC the front according to IEC 60529 procol	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac	ct from the front		
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prot	demand rate according to SN 31920 arous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC the front according to IEC 60529 accol is communication	40 % 73 % 100 FIT 20 a IP20	ct from the front		
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prot	demand rate according to SN 31920 arous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC the front according to IEC 60529 accol is communication	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac	ct from the front		
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prot	demand rate according to SN 31920 erous failures nd rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN et interval or service life according to on the front according to IEC the front according to IEC 60529 focol	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac	ct from the front		
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prote product function but	demand rate according to SN 31920 erous failures nd rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN et interval or service life according to on the front according to IEC the front according to IEC 60529 focol	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac	ct from the front		
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prote product function but	demand rate according to SN 31920 erous failures nd rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN et interval or service life according to on the front according to IEC the front according to IEC 60529 focol	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac	ct from the front	FDF	
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prote product function but	demand rate according to SN 31920 arous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC at the front according to IEC 60529 accol is communication as approval	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac		FUL	
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prote product function but	demand rate according to SN 31920 arous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC at the front according to IEC 60529 accol is communication as approval	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac		EHC	
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prote product function but	demand rate according to SN 31920 arous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC at the front according to IEC 60529 accol is communication as approval	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac		EHC	
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prote product function but	demand rate according to SN 31920 arous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC at the front according to IEC 60529 accol is communication as approval	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac		EAC	
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prote product function but	demand rate according to SN 31920 arous failures and rate according to SN 31920 and rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC at the front according to IEC 60529 accol is communication as approval	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac		EAC	
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prote product function but	demand rate according to SN 31920 prous failures and rate according to SN 31920 low demand rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC the front according to IEC 60529 cocol is communication Soproval Confirmation	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac		EAC	
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prote product function but	demand rate according to SN 31920 prous failures and rate according to SN 31920 low demand rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC the front according to IEC 60529 cocol is communication s proval Confirmation Functional	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact No		EAC	
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prot product function bu Certificates/ approval General Product Ap	demand rate according to SN 31920 arous failures and rate according to SN 31920 low demand rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC the front according to IEC 60529 accol is communication S proval Confirmation Functional	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contac	KC	EAC	
5-1 B10 value with high d proportion of dange • with low demar • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prot product function bu Certificates/ approval General Product Ap	demand rate according to SN 31920 arous failures and rate according to SN 31920 low demand rate according to SN 31920 low demand rate according to SN at interval or service life according to on the front according to IEC the front according to IEC 60529 accol is communication as confirmation Confirmation Functional Safety/Safety of Declaration	40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact No	KC	EAC	

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RCM

Type Examination Certificate

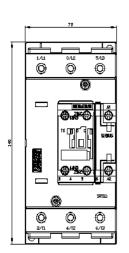


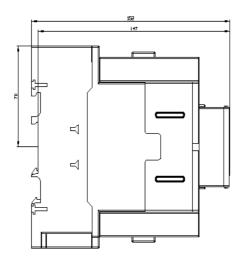


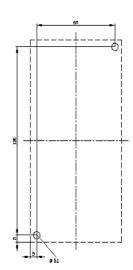
Special Test Certificate Type Test Certificates/Test Report

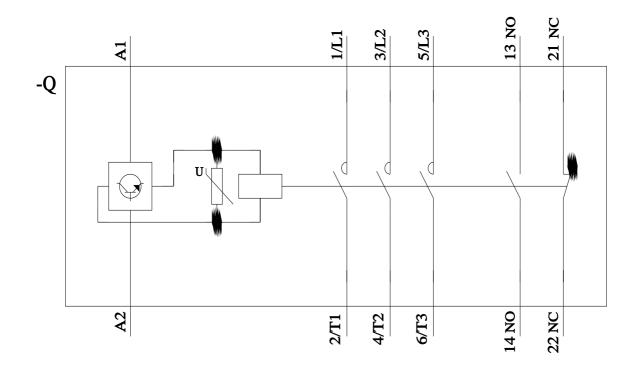
Marine / Shipping					other
ABS	Lloyd's Register uts	PRS	RINA	RMRS	<u>Confirmation</u>
Railway					
Special Test Certific- ate	Vibration and Shock	<u>Type Test Certific-</u> ates/Test Report			
Further information					

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2045-1XF40-0LA2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-1XF40-0LA2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1XF40-0LA2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2045-1XF40-0LA2⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1XF40-0LA2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-1XF40-0LA2&objecttype=14&gridview=view1









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