SIEMENS

Data sheet

3RT2035-1AG20



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2 $\,$

product brand name SIRUS product designation Power contactor optiduct type designation SRT2 Centeral technical data S2 size of contactor S2 optiduct type designation No • function module for communication No • auxiliary switch Yes • at AC in hot operating state 6.6 W • at AC in hot operating state per pole 2.2 W • without load current share typical 65.5 W insulation voltage 660 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 64 KV • of auxiliary circuit rated value 64 V • of auxiliary circuit rated value 10.00 V • oth contactor wit	4/3 ¥/3	
product type designation 3RT2 General technical data	product brand name	SIRIUS
General technical data S2 size of contactor S2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.6 W • at AC in hot operating state 6.6 W • at AC in hot operating state prope 2.2 W • without load current share typical 6.6 W • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 64 kV • of the contactor with added electronically optimized auxiliary switch bine pulse 11.8g / 5 ms, 7.4g / 10 ms • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical	product designation	Power contactor
size of contactor §2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.6 W • at AC in hot operating state per pole 2.2 W • without load current share typical 6.5 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 64 KV • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 64 KV • of auxiliary circuit rated value 64 KV • of auxiliary circuit rated value 64 KV maximum permissible voltage for protective separation between collated main on contrates according to EN 60947-1 400 V shock resistance with sine pulse 11.8g / 5 ms, 7.4g / 10 ms • at AC 11.8g / 5 ms, 7.4g / 10 ms mechanical service life (operating cycles) 0 000 000 • of duxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to EC 61346-2 Q Substance Prohibitance (Date) 100/10/2014	product type designation	3RT2
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• auxiliary switch Yes power loss [W] for rated value of the current 6.6 W • at AC in hot operating state per pole 2.2 W • without load current share typical 6.5 W • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 600 V • of main circuit rated value 600 V • of maxing vircuit with degree of pollution 3 rated value 600 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse • at AC • at AC 10.000 000 • of ontactor typical 10 000 000 • of ontactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 1	product extension	
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• at AC in hot operating state prole 6.6 W • at AC in hot operating state per pole 2.2 W • without load current share typical 6.5 W insultation voltage 6.6 W • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance at rectangular impulse at AC • at AC 10 000 000 • of contactor with added electronically optimized 2000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 100 <td>auxiliary switch</td> <td>Yes</td>	auxiliary switch	Yes
• at AC in hot operating state per pole 2.2 W • without load current share typical 6.5 W insulation voltage 600 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 68 V • of main circuit with degree of pollution 8 rated value 6 kV • of main circuit with degree of pollution 8 rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms • at AC 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms • at AC 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch b	power loss [W] for rated value of the current	
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of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV 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 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 000000 • 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 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 2000 m ambient conditions 2000 m installation altitude at height above sea level maximum 2000 m • during operation -25 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C • flai	insulation voltage	
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• of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms • of the contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 2000 m	 of auxiliary circuit with degree of pollution 3 rated value 	690 V
• 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 400 V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 11.8g / 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 0 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % 95 % 95 %	surge voltage resistance	
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• at AC11.8g / 5 ms, 7.4g / 10 msshock resistance with sine pulse		400 V
shock resistance with sine pulse Image number of your state • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • 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 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 95 % Main circuit 40 mino circuit	shock resistance at rectangular impulse	
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• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	mechanical service life (operating cycles)	
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Substance Prohibitance (Date) 10/01/2014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 %	 of the contactor with added auxiliary switch block typical 	10 000 000
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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	reference code according to IEC 81346-2	Q
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ambient temperature -25 +60 °C • 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	Ambient conditions	
• 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 %	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	 during operation 	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit	during storage	-55 +80 °C
Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

number of NO contacts for main contacts	3
	3
 operating voltage at AC-3 rated value maximum 	690 V
at AC-3 rated value maximum at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	60 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	60 A
value	
— up to 690 V at ambient temperature 60 °C rated value	55 A
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
at AC-4 at 400 V rated value	35 A
• at AC-5a up to 690 V rated value	52.8 A
• at AC-5b up to 400 V rated value	33.2 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	36.5 A
— up to 400 V for current peak value n=20 rated value	36.5 A
— up to 500 V for current peak value n=20 rated value	36.5 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 	24.2 A
 — up to 400 V for current peak value n=30 rated value 	24.2 A
 — up to 500 V for current peak value n=30 rated value 	24.2 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	16 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	22 A
• at 690 V rated value	18.5 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	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	ZZ KVV
4	
 at 400 V rated value 	11.6 kW
 at 690 V rated value 	16.8 kW
operating apparent power at AC-6a	
 operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 	14.5 kVA
• up to 230 V for current peak value n=20 rated value	14.5 kVA 25.2 kVA
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	
• up to 230 V for current peak value n=20 rated value	25.2 kVA
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	25.2 kVA 31.6 kVA
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 	25.2 kVA 31.6 kVA
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value Operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 	25.2 kVA 31.6 kVA 28.6 kVA 9.6 kVA
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	25.2 kVA 31.6 kVA 28.6 kVA 9.6 kVA 16.8 kVA
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 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	25.2 kVA 31.6 kVA 28.6 kVA 9.6 kVA 16.8 kVA
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	25.2 kVA 31.6 kVA 28.6 kVA 9.6 kVA 16.8 kVA 21 kVA
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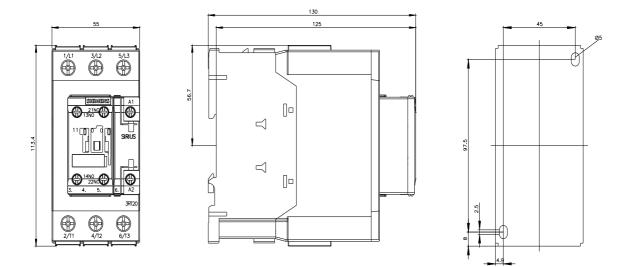
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact number of NO contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	10 A
at 230 V rated value	
at 400 V rated value	3 A 2 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	10.4
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 2 A
at 125 V rated value	2 A
at 220 V rated value	1 A 0.15 A
at 600 V rated value	0.15 A
operational current at DC-13	10.4
• 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	1A
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	
• at 480 V rated value	40 A
• at 600 V rated value	41 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	3 hp

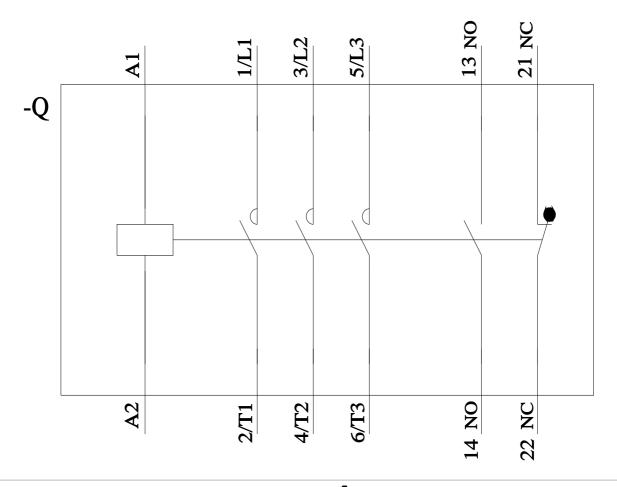
• for 3-phase AC motor·- at 200208 V rated value10 hp- at 200208 V rated value30 hp- at 450/480 V rated value30 hp- at 450/480 V rated value40 hpconcat rating of auxiliary contacts according to ULA600 / P600Short-Caruit protection50 hp- at 7500 V rated value50 hp- at 7500 V rated value10 hp- at 7500 V rate		
	— at 230 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the Ste link gl: 160 A (690 V, 100 KA), all: 80 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) - with type of coordination 1 required gl: 10 A (690 V, 100 KA), all: 50 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) - with type of assignment 2 required gl: 10 A (690 V, 100 KA), all: 50 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) - with type of obsignment 2 required gl: 10 A (690 V, 100 KA), all: 50 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) - with type of assignment 2 required gl: 10 A (690 V, 100 KA), all: 50 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) - with type of assignment 2 required gl: 10 A (690 V, 100 KA), all: 50 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) if assignment 2 required spacing science and snap-on mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward by the orgen and snap-on mounting onto 35 mm DIN rail according to DIN EN (50 K) vertify sole mounting 10 mm		
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • fold-by-side mounting • fold-by-side mounting • fold-by-side mounting • fold-by-side mounting • of younded pacing • with side-by-side mounting • of younded pacing • with side by-side mounting • of younded pacing		
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 kK) gG: 80 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kK) gG: 80 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kK) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kK) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kK) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 10 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kK) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 10 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kKA) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 1 kA)<!--</td--><td></td><td>A600 / P600</td>		A600 / P600
• for short-circuit protection of the main circuit gG: 160 4 (800 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 KA) - with type of coordination 1 required gG: 80A (690V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V,80kA) - with type of assignment 2 required gG: 80A (690 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415V,80kA) - or short-circuit protection of the auxiliary witch required gG: 80A (690 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415V,80kA) required spacing +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward bited forward bited forward backward by +22.5° on vertical mounting surface; can be tilted forward by the forward backward by +22.5° on vertical mounting surface; can be tilted forward band the downard bited forward backward by the forward b	Short-circuit protection	
with type of coordination 1 required gC: 80A (680 V, 100 kA), akt: 80A (680 V, 100 kA), BS88: 125 A (415 V, 80 kK) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 63A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 63A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 63A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 63A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 63A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 125 A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 125 A (415 V, 80 kA) with type of assignment 2 required assi	•	
with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required installator/ mounting/ dimensions 	 for short-circuit protection of the main circuit 	
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting dimensions +/180° rotation possible on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.50° on terminals • ofwards 10 mm 0 mm • of orwards 10 mm 0 mm • of orwards 10 mm 0 mm <	 — with type of coordination 1 required 	kA)
installation/ mounting/ dimensions */180° rotation possible on vertical mounting surface; can be titled forward and backward by +/ 2.2 ° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing • • with side-by-side mounting 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm </td <td> — with type of assignment 2 required </td> <td>gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)</td>	 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
mounting position +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by 4/-22.5° on vertical mounting surface 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 0 mm - upwards 10 mm - upwards 0 mm - dorwards 0 mm - upwards 10 mm - dorwards	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
backward by +/ 22.5" on vertical mounting surface fastening method screw and by +/ 22.5" on vertical mounting surface fastening method screw and sup-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 114 mm width 55 mm deepth 130 mm required spacing	nstallation/ mounting/ dimensions	
• side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing - - forwards 10 mm - upwards 00 mm - downwards 10 mm - downwards 00 mm - downwards 00 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - at the side 0 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 50 mm - forwards 50 mm - forwards 50 mm - forwards 10 mm	mounting position	
height 114 mm width 55 mm depth 130 mm required spacing 100 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
Jord 55 mm depth 130 mm required spacing 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - at the side 6 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - for usiliary and contol circuit screw-type terminals for auxiliary and contol circuit screw-type terminals i of auxiliary and contacts Screw-type terminals i of magnet coil Screw-type te	side-by-side mounting	Yes
depth 130 mm required spacing - • with side-by-side mounting - - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm - for groundel parts - - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - for auxiliary and control circuit <td>height</td> <td>114 mm</td>	height	114 mm
required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - for grounded parts - - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - for availary and control circuit screw-type terminals for a auxiliary and control circuit screw-type	· · · · · · · · · · · · · · · · · · ·	55 mm
with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm • for grounded parts - - forwards 10 mm - upwards 0 mm - upwards 0 mm - upwards 6 mm - downwards 0 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 0 mm - downwards 10 mm - at the side 6 mm Tornectons/ Terminals 6 mm Vpe of electrical connection screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary contacts Screw-type terminals • of magnet coil screw-type terminals • of ond conductor cross-section	depth	130 mm
with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm • for grounded parts - - forwards 10 mm - upwards 0 mm - upwards 0 mm - upwards 6 mm - downwards 0 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 0 mm - downwards 10 mm - at the side 6 mm Tornectons/ Terminals 6 mm Vpe of electrical connection screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary contacts Screw-type terminals • of magnet coil screw-type terminals • of ond conductor cross-section	•	
- forwards10 mm- upwards10 mm- downwards10 mm- downwards0 mm- at the side0 mm- at the side10 mm- forwards10 mm- upwards10 mm- upwards0 mm- upwards0 mm- at the side6 mm- downwards0 mm- downwards10 mm- forwards10 mm- downwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- upwards10 mm- downwards6 mm- downwards6 mm- downwards5 mm- downwards5 mm- downwards5 mm- downwards5 mm- at the side6 mmConnections/ Terminals- for axiliary and control circuitscrew-type terminals- for axiliary and control circuitscrew-type terminals- at contactor for axiliary contactsScrew-type terminals- of adje colilScrew-type terminals- of adje colilScrew-type terminals- of connectable conductor cross-sections for main contacts2x (1 35 mm²), 1x (1 50 mm²)- finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)		
- downwards10 mm- at the side0 mm• for grounded parts forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- downwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards5 mmConnections/Terminals5 crew-type terminals- for ani current circuitscrew-type terminals- for axilliary and control circuitscrew-type terminals- of magnet coilScrew-type terminals- solid or stranded2x (1 35 mm²), 1x (1 50 mm²)- finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)		10 mm
- downwards10 mm- at the side0 mm• for grounded parts0 mm- forwards10 mm- upwards0 mm- at the side6 mm- downwards10 mm- downwards0 mm- downwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards5 mmConnections/Terminals5 crew-type terminals- for ania current circuitscrew-type terminals- for main current circuitscrew-type terminals- of magnet coilScrew-type terminals- of magnet coilScrew-type terminals- of magnet coilScrew-type terminals- of magnet coilScrew-type terminals- solid or strandedScrew-type terminals- solid or strandedScrew-type terminals- solid or stranded with core end processing2x (135 mm²), 1x (150 mm²)- finely stranded with core end processing2x (125 mm²), 1x (135 mm²)	— upwards	10 mm
• for grounded parts10 mm- forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm• for live parts10 mm- forwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards6 mm- downwards6 mm- downwards5 crew-type terminals- at the side5 crew-type terminals- for auxiliary and control circuitscrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• of inagnet coilScrew-type terminals• of inagnet coilScrew-type terminals• solid or stranded2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)	•	10 mm
- forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- forwards10 mm- forwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards6 mm- downwards6 mm- downwards5 mm- at the side5 mm	— at the side	0 mm
- forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- forwards10 mm- forwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards6 mm- downwards6 mm- downwards5 mm- at the side5 mm	 for grounded parts 	
- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- for live parts forwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards6 mm- downwards6 mm- at the side6 mmConnections/ Terminalstype of electrical connection- for main current circuitscrew-type terminals- for auxiliary and control circuitscrew-type terminals- of magnet coilScrew-type terminals- of magnet coilScrew-type terminals- type of connectable conductor cross-sections for main contactsScrew-type terminals- solid or stranded2x (1 35 mm²), 1x (1 50 mm²)- finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)		10 mm
at the side6 mm downwards10 mm forwards10 mm forwards10 mm upwards10 mm downwards10 mm downwards6 mm at the side6 mmConnections/ TerminalsConnections/ Terminals for wailiary and control circuitscrew-type terminals for auxiliary contactsScrew-type terminals of magnet coilScrew-type terminals of magnet co		
• for live parts10 mm- upwards10 mm- upwards10 mm- downwards10 mm- at the side6 mmConnections/ Terminals6 mmtype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid or stranded2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 50 mm²)		
- forwards10 mm- upwards10 mm- downwards10 mm- downwards6 mm- at the side6 mmConnections/Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• solid or strandedScrew-type terminals• solid or stranded2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)		
- upwards10 mm- downwards10 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid or stranded2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)		10 mm
downwards10 mm at the side6 mmConnections/ TerminalsConnections/ Terminals• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• solid or stranded2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)		
at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid or stranded2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)	•	
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²)		
type of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid or stranded2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)		
• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid or stranded2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)		
• 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 Screw-type terminals • solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²)		scrow type terminale
• at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts Screw-type terminals • solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) • connectable conductor cross-section for main contacts Screw-type terminals		
• of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts Screw-type terminals • solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts Screw-type terminals	-	
type of connectable conductor cross-sections for main contacts • solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts		
• solid or stranded 2x (1 35 mm ²), 1x (1 50 mm ²) • finely stranded with core end processing 2x (1 25 mm ²), 1x (1 35 mm ²) Connectable conductor cross-section for main contacts		onew-type terminals
• finely stranded with core end processing 2x (1 25 mm ²), 1x (1 35 mm ²) connectable conductor cross-section for main contacts		$2y(4) = 25 \text{ mm}^2 + 1y(4) = 50 \text{ mm}^2$
connectable conductor cross-section for main contacts		
		2x (1 25 mm²), 1x (1 35 mm²)
- tinely strended with seve and pressessing 4 OF2		4 05 mm2
finely stranded with core end processing 1 35 mm ²		1 50 []][]]"
connectable conductor cross-section for auxiliary contacts	-	0.5 0.5 mm²
solid or stranded 0.5 2.5 mm ²		
finely stranded with core end processing 0.5 2.5 mm ²		0.5 2.5 MM*
type of connectable conductor cross-sections		
• for auxiliary contacts	-	
- solid or stranded 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
- finely stranded with core end processing $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$		
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)	•	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	section	
• for main contacts 18 1	for main contacts	18 1
• for auxiliary contacts 20 14		

Safety related data					
product function			/		
	according to IEC 60947-4-1		és		
. ,	n operation according to IEC		lo		
	ty-related switching OFF		'es		
	emand rate according to SN	31920 1	000 000		
proportion of danger					
	nd rate according to SN 3192		0 %		
	nd rate according to SN 319		3 %		
	ow demand rate according t		00 FIT		
T1 value for proof test 61508	t interval or service life accor	rding to IEC 2	0 a		
	on the front according to IE	-C 60529	20		
-	the front according to IEC		nger-safe, for vertical contact	from the front	
Certificates/ approvals			ngor dalo, for vortidal dontade		
General Product Ap					
General i roduct Ap	provar				
	\frown	Confirmation	\sim	<u>KC</u>	
(SĐ	(m)		(UL)		FHI
					LIIL
CSA	ccc		UL		
	Functional				
EMC	Safety/Safety of Ma-	Declaration of Cor	nformity	Test Certificates	
	chinery				
•	Tuno Examination Cor	1.112		Turne Test Cortifie	Special Test Cortifie
	<u>Type Examination Cer-</u> tificate	UK	((<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate
<u>(</u>)		Z O			
RCM			EG-Konf.		
ABS			Register	PRS	RINA
Marine / Shipping	VERITAS		Railway	Dangerous Good	Environment
			· ······		
	Confirmation	Confirmation	Vibration and Shock	Transport Information	Environmental Con-
	Confirmation	Confirmation	Vibration and Shock	Transport Information	Environmental Con- firmations
RMPS	Confirmation	Confirmation	Vibration and Shock	Transport Information	
RMRS RMRS	<u>Confirmation</u>	Confirmation	Vibration and Shock	Transport Information	
RMRS	<u>Confirmation</u>	<u>Confirmation</u>	Vibration and Shock	Transport Information	
RMRS RMRS	Confirmation	Confirmation	Vibration and Shock	Transport Information	
			<u>Vibration and Shock</u>	Transport Information	
Siemens has decided https://press.siemens.	d to exit the Russian mark	tet (see here). /siemens-wind-down-	-russian-business	Transport Information	
Siemens has decided https://press.siemens. Siemens is working of	d to exit the Russian mark .com/global/en/pressrelease on the renewal of the curr	tet (see here). /siemens-wind-down- ent EAC certificates	- <u>russian-business</u>		firmations
Siemens has decided https://press.siemens. Siemens is working Please contact your lo	d to exit the Russian mark .com/global/en/pressrelease on the renewal of the curr	tet (see here). /siemens-wind-down- ent EAC certificates tatus of validity of the	- <u>russian-business</u> EAC certification if you intend		firmations
Siemens has decided https://press.siemens. Siemens is working of Please contact your lo EAC relevant market (Information on the page	d to exit the Russian mark com/global/en/pressrelease on the renewal of the curr ocal Siemens office on the si (other than the sanctioned E backaging	tet (see here). /siemens-wind-down- ent EAC certificates tatus of validity of the EAEU member states	- <u>russian-business</u> EAC certification if you intend		firmations
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