SIEMENS

Data sheet

3RT2036-1AM20-0UA0



contactor, NEMA version, 25 HP, 460 / 575 V, 3-pole, 208 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name SIRUS product designation Power contactor product type designation 3RT2 Central technical data S2 product extension No • alx Alisy switch Yes power loss [W] for rated value of the current 12 W • at AC in hot operating state 12 W • at AC in hot operating state per pole 4 W • without load current share typical 17.2 W Insulation voltage 690 V • of auxilary circuit with degree of pollution 3 rated value 690 V • of auxilary circuit rated value 690 V • of auxilary circuit rated value 6 kV • of contactor keys for protective separation between coll and main contacts secording to EN 60947-1 400 V shock resistance at rectangular impulse 18.5g / 5 ms, 11.6g / 10 ms • at AC 11.8g / 5 ms, 7.4g / 10 ms mechanical service life (operating cycles) 10 0000 000 • of the contactor wi		
product type designation 3RT2 General technical data	product brand name	SIRIUS
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size of contactor S2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 12 W • at AC in hot operating state per pole 4 W • without load current share typical 17.2 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 KV • of main circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit with degree of pollution 3 rated value 600 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit with degree of pollution and trate value 6 kV • of contactor with sine pulse 11.8g / 5 ms,	product type designation	3RT2
product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 12 W • at AC in hot operating state 12 W • at AC in hot operating state per pole 4 W • without load current share typical 17.2 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of analing vicroit with degree of pollution 3 rated value 690 V • of analing vicroit with degree of pollution 3 rated value 690 V • of analing vicroit with degree of pollution 3 rated value 690 V • of analing vicroit with degree of pollution 3 rated value 690 V • of analing vicroit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 10 000 000 • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 reference code according to EC 81346-2 Q Quo M <t< th=""><th>General technical data</th><th></th></t<>	General technical data	
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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) 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 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 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 at 55 °C according to IEC 60068-2-30 95 % Main circuit Main circuit	 of main circuit with degree of pollution 3 rated value 	690 V
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of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 <u>Ambient conditions</u> installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum <u>Main circuit</u>	mechanical service life (operating cycles)	
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 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	 of contactor 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 maximum 95 %		5 000 000
Substance Prohibitance (Date) 10/01/2014 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 0 00 m -25 +60 °C • during operation -25 +60 °C -25 +80 °C relative humidity minimum 10 % 95 % Main circuit Main circuit 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
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	Substance Prohibitance (Date)	10/01/2014
ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 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 % Main circuit	installation altitude at height above sea level maximum	2 000 m
• 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 temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 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
maximum 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
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	70 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	70 A
— up to 690 V at ambient temperature 60 °C rated	60 A
value	
• 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	43.2 A
— 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 	43.2 A 43.2 A
— up to 500 V for current peak value n=20 rated value	45.2 A 24 A
at AC-6a	24 A
 up to 230 V for current peak value n=30 rated value 	28.8 A
— up to 200 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	25 mm ²
value	
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 	

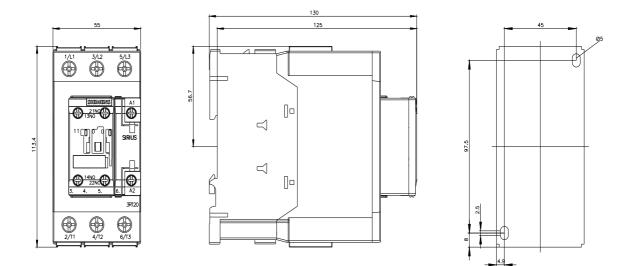
- alt 2V relativation 35 Å - alt 22V relativation 6 Å - alt 22V relativation 0.1 Å - alt 22V relativation 0.06 Å - alt 24V relativation 0.06 Å - alt 25V relativation 0.06 Å		
	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
	— at 220 V rated value	1 A
• with 2 current paths in series at DC-3 at DC-5- at 24 V rated value5A- at 100 V rated value5A- at 24 V rated value5A- at 24 V rated value5A- at 24 V rated value0.16A- at 240 V rated value0.16A- at 240 V rated value55A- at 240 V rated value56A- at 240 V rated value52 kW- at 250 V for current pack value n=20 rated value52 kW-	— 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 40 V rated value 0.27 A - at 60 V rated value 0.6 A - at 24 V rated value 55 A - at 24 V rated value 55 A - at 24 V rated value 55 A - at 20 V rated value 56 A - at 20 V rated value 56 A - at 20 V rated value 0.8 A - at 400 V rated value 22 KW - at 400 V rated value 28 KW - at 400 V rated value 20 KW - at 600 V rated value 20 KW - at 600 V for c	— at 110 V rated value	25 A
	— at 220 V rated value	5 A
 with 3 current paths in series at DC-3 at DC-5 at 22 V rated value 55 A at 110 V rated value 55 A at 110 V rated value 55 A at 110 V rated value 56 A at 22 V rated value 57 A at 400 V rated value 58 A at 400 V rated value 59 A at AC-2 at 400 V rated value 50 A at AC-2 at 400 V rated value 50 V rated value 50	— 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
		0.6 A
operating power at AC-2 at 400 V rated value 22 kW • at AC-3		
• at AC-2 at 400 V rated value 22 kW • at AC-3		
ext AC-3 at 230 V rated value 15 kW at 230 V rated value 22 kW at 600 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 4 400 V rated value 12 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 12 kW operating apparent power at AC-6a up to 500 V for current peak value n=20 rated value 23 kVA op to 500 V for current peak value n=20 rated value 24 kVA op to 500 V for current peak value n=30 rated value 25 kVA operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value 28 kVA op to 500 V for current peak value n=30 rated value 24 kVA at AC-1 rated value n=30 rated value 25 kVA op to 500 V for current peak value n=30 rated value 28 kVA op to 500 V for current peak value n=30 rated value 24 s kVA at AC-1 rated value at AC-1 rated value at AC-1 rated		22 kW
	• at AC-3	
		15 kW
		30 kW
et at AC-3e - at 400 V frated value - at 690 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - binted to 1 s witching at zero current maximum - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - at AC-1 maximum - at AC-1 is switching at zero current maximum - 297 A; Use minimum cross-section acc. to AC-1 rated value - at AC-1 is switching at zero current maximum - 298 A; Use minimum cross-section acc. to AC		
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		22 kW
		30 kW
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • 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 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 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 500 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 24. VXA • up to 500 V for current peak value n=30 rated value 25. KVA • up to 500 V for current peak value n=30 rated value 28. KVA • up to 600 V for current peak value n=30 rated value 28. Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero curren		
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• up to 690 V for current peak value n=20 rated value 28.6 kVA operating apparent power at AC-6a 11.4 kVA • up to 230 V for current peak value n=30 rated value 19.9 kVA • up to 500 V for current peak value n=30 rated value 19.9 kVA • up to 500 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA short-time withstand current in cold operating state up to 40° C 28.6 kVA • limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 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 10 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value	 up to 400 V for current peak value n=20 rated value 	29.9 kVA
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• 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 5 000 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-3 maximum 800 1/h • at AC-4 maximum 250 1/h	-	
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• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3e maximum800 1/h• at AC-4 maximum250 1/hControl circuit/ Control		4 000 4/1
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Control circuit/ Control		
		250 1/h
type of voltage of the control supply voltage AC		
	type of voltage of the control supply voltage	AC

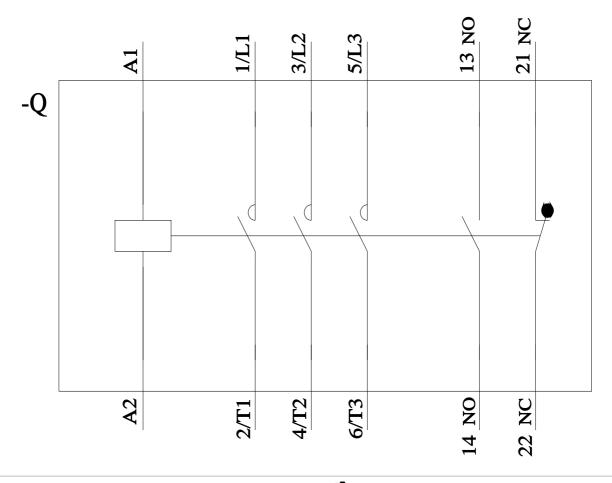
control supply voltage at AC	
• at 50 Hz rated value	208 V
at 60 Hz rated value	208 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power 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 contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
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	1A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
at 40 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 0.15 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	
• at 480 V rated value	52 A
• at 600 V rated value	52 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp

a for 2 phase AC motor	
• for 3-phase AC motor	10 hr
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	25 hp
— at 575/600 V rated value	25 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
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	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	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
	0 mm
for grounded parts forwards	10 mm
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
 for live parts 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
• of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm ²), 1x (1 35 mm ²)
connectable conductor cross-section for main contacts	
finely stranded with core end processing	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
	0.5 2.5 mm ²
finely stranded with core end processing	0.0 2.0 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 1.5 mm ²), 2x (0.75 2.5 mm ²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
for main contacts	18 1
for auxiliary contacts	20 14
Safety related data	

product function					
 mirror contact ac 	cording to IEC 60947-4-1	Yes	;		
 positively driven operation according to IEC 60947-5-1 		C 60947-5-1 No			
B10 value with high der	mand rate according to SN	N 31920 1 00	000 000		
proportion of dangero	ous failures				
	rate according to SN 319	40 40 40	2/6		
	d rate according to SN 31				
	w demand rate according		FIT		
61508	nterval or service life acco	ording to IEC 20 a	3		
	the front according to I	EC 60529 IP2	n		
•				t from the front	
-	to IEC	5 60529 IIIIg	er-safe, for vertical contac		
suitability for use					
 safety-related sw 		Yes			
Certificates/ approvals					_
General Product App	roval				EMC
SP M	<u>Confirmation</u>		KC	EHC	RCM
Functional Safety/Safety of Ma- chinery	Declaration of Confor	rmity	Test Certificates		Marine / Shipping
<u>Fype Examination Cer-</u> tificate	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping		Lloyds Register urs	PRS	RINA	RMRS
other	Railway	Dangerous Good	Environment		
Confirmation	Vibration and Shock	Transport Information	Environmental Con- firmations		
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