SIEMENS

Data sheet

3RT1276-6NB36





Figure similar

Product brand name	SIRIUS
Product designation	Vacuum contactor
Product type designation	3RT12
General technical data	
Size of contactor	S12
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
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 acc. to EN 	690 V
60947-1	
Protection class IP	
• on the front	IP00; IP20 on the front with cover / box terminal
• of the terminal	IP00

Shock registering at regtorigular impulse	
Shock resistance at rectangular impulse	$8.5a/5mc_{1}/2a/10mc_{2}$
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
Shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
Mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	К
Reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
 during operation 	-25 +60 °C
 during storage 	-55 +80 °C
Main circuit	
Number of 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
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	610 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	610 A
rated value	
	550 A
rated value — up to 690 V at ambient temperature 60 °C	
rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C	550 A
rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C	550 A 610 A
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 rated value up to 690 V at ambient temperature 60 °C rated value up to 1000 V at ambient temperature 40 °C rated value up to 1000 V at ambient temperature 60 °C rated value at AC-2 at 400 V rated value 	550 A 610 A 550 A 500 A

at AC-4 at 400 V rated value 430 A Connectable conductor cross-section in main drout at AC-1 370 mm² • at 60 °C minimum permissible 370 mm² • at 40 °C minimum permissible 370 mm² • at 40 °C minimum permissible 370 mm² • at 40 °C minimum permissible 215 A • at 400 V rated value 215 A • at 600 V rated value 215 A • at 400 V rated value 215 A • at 400 V rated value 208 kW - at 230 V at 60 °C rated value 208 kW - at 400 V rated value 362 kW - at 400 V rated value 224 kW - at 600 V rated value 224 kW - at 600 V rated value 226 kW - at 400 V rated value 250 kW • at AC-3 160 kW - at 230 V rated value 355 kW - at 400 V rated value 355 kW - at 690 V rated value 356 kW - at 690 V rated value 350 kW - at 690 V rated value 350 kW - at 690 V rated value 350 kW - at 400 V rated value 350 kW - at 690 V rated value 320 kW </th <th>— at 690 V rated value</th> <th>500 A</th>	— at 690 V rated value	500 A
Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible at 40 °C minimum permissible at 40 °C minimum permissible at 40 °C minimum permissible at 40 °C minimum permissible 215 A • at 400 V rated value at 600 V rated value • at AC-1 - at 230 V at 60 °C rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 600	— at 1000 V rated value	500 A
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- at 230 V at 60 °C rated value 208 kW - at 400 V rated value 362 kW - at 400 V at 60 °C rated value 550 kW - at 690 V rated value 624 kW - at 690 V at 60 °C rated value 905 kW - at 1000 V at 60 °C rated value 905 kW - at 230 V rated value 905 kW - at 230 V rated value 250 kW • at AC-3 - - at 230 V rated value 250 kW • at AC3 - - at 230 V rated value 250 kW • at 400 V rated value 250 kW - at 230 V rated value 250 kW - at 400 V rated value 250 kW - at 600 V rated value 250 kW - at 600 V rated value 250 kW - at 600 V rated value 210 kW - at 1000 V rated value 212 kW - at 400 V rated value 22 kW • at 400 V rated value 22 kW • at 690 V rated value 22 kW • at 400 V for rated value of the operating cycles 200 A Power loss [M] at AC-3 at 400 V for rated value of the operating cycles	Operating power	
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- at 690 V rated value624 kW- at 690 V at 60 °C rated value905 kW- at 1000 V at 60 °C rated value905 kW- at AC-2 at 400 V rated value250 kW- at 230 V rated value160 kW- at 400 V rated value250 kW- at 500 V rated value355 kW- at 690 V rated value500 kW- at 1000 V rated value500 kW- at 690 V rated value500 kW- at 690 V rated value500 kW- at 400 V rated value500 kW- at 690 V rated value212 kW1 000 V rated value212 kW- at 690 V rated value220 kW- at 690 V rated value212 kW- at 690 V rated value212 kW- at 690 V rated value212 kW- at 690 V rated value1000 APower loss [M] at AC-3 at 400 V for rated value of the operating current per conductor2000 ANo-load switching frequency1000 1/h- at AC1 000 1/h- at AC-1 maximum250 1/h- at AC-1 maximum250 1/h- at AC-2 maximum250 1/h- at AC-3 maximum250 1/h	— at 400 V rated value	362 kW
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at 1000 V at 60 °C rated value905 kW- at AC-2 at 400 V rated value250 kW- at 230 V rated value160 kW- at 230 V rated value250 kW- at 400 V rated value250 kW- at 690 V rated value355 kW- at 690 V rated value500 kW- at 690 V rated value710 kWOperating power for approx. 20000 operating cycles at AC-4122 kW- at 400 V rated value212 kW- at 690 V rated value100 APower loss [M] at AC-3 at 400 V for rated value of the operating current limited to 10 s32 W- at AC1 000 1/h- at AC1 000 1/h- at AC1 000 1/h- at AC1 000 1/h- at AC-1 maximum700 1/h- at AC-2 maximum250 1/h- at AC-3 maximum750 1/h- at AC-4 maximum250 1/h	— at 690 V rated value	624 kW
 at AC-2 at 400 V rated value at AC-3 at 230 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 000 V rated value at 000 V rated value book WW at 400 V rated value 210 kW at 400 V rated value 210 kW at 400 V rated value 212 kW at 400 V rated value 212 kW at 690 V rated value 212 kW at 690 V rated value 212 kW at 690 V rated value 212 kW at 400 V rated value 212 kW at 400 V rated value 122 kW book A condot A<	— at 690 V at 60 °C rated value	624 kW
art AC-3160 kW- at 230 V rated value160 kW- at 400 V rated value250 kW- at 500 V rated value355 kW- at 690 V rated value500 kW- at 1000 V rated value710 kWOperating power for approx. 200000 operating cycles at AC-4122 kW• at 400 V rated value122 kW• at 690 V rated value212 kW• at 690 V rated value1000 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor32 WNo-load switching frequency • at AC1 000 1/h• at AC-1 maximum700 1/h• at AC-1 maximum700 1/h• at AC-3 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum750 1/h	— at 1000 V at 60 °C rated value	905 kW
- at 230 V rated value160 kW- at 400 V rated value250 kW- at 500 V rated value355 kW- at 690 V rated value500 kW- at 1000 V rated value710 kWOperating power for approx. 200000 operating cycles at AC-4122 kW• at 400 V rated value122 kW• at 690 V rated value212 kW• at 690 V rated value4000 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor32 WNo-load switching frequency • at AC1000 1/h• at AC1 000 1/h• at AC1 000 1/h• at AC-1 maximum700 1/h• at AC-1 maximum250 1/h• at AC-3 maximum250 1/h• at AC-4 maximum550 1/h	• at AC-2 at 400 V rated value	250 kW
Indication250 kW- at 400 V rated value250 kW- at 500 V rated value355 kW- at 690 V rated value500 kW- at 1000 V rated value710 kWOperating power for approx. 200000 operating cycles at AC-4122 kW• at 400 V rated value122 kW• at 690 V rated value212 kW• at 690 V rated value1000 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor32 WNo-load switching frequency • at AC1 000 1/h• at AC1 000 1/h• at AC1 000 1/h• at AC-1 maximum700 1/h• at AC-1 maximum250 1/h• at AC-3 maximum250 1/h• at AC-4 maximum750 1/h	• at AC-3	
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at 690 V rated value500 kW at 1000 V rated value710 kWOperating power for approx. 200000 operating cycles at AC-4122 kW- at 400 V rated value122 kW- at 690 V rated value212 kW- at 690 V rated value212 kWThermal short-time current limited to 10 s4 000 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor32 WNo-load switching frequency • at AC1 000 1/h- at AC1 000 1/h- at AC-1 maxinum700 1/h- at AC-2 maxinum250 1/h- at AC-3 maxinum750 1/h- at AC-4 maxinum250 1/h	— at 400 V rated value	250 kW
	— at 500 V rated value	355 kW
Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 122 kW • at 690 V rated value 212 kW Thermal short-time current limited to 10 s 4 000 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 32 W No-load switching frequency 32 W • at AC 1 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 250 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h	— at 690 V rated value	500 kW
at AC-4122 kW• at 400 V rated value122 kW• at 690 V rated value212 kWThermal short-time current limited to 10 s4 000 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor32 WNo-load switching frequency • at AC1 000 1/h• at AC • at DC1 000 1/hOperating frequency250 1/h• at AC-1 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum750 1/h	— at 1000 V rated value	710 kW
• at 400 V rated value122 kW• at 690 V rated value212 kWThermal short-time current limited to 10 s4 000 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor32 WNo-load switching frequency-• at AC1 000 1/h• at DC1 000 1/hOperating frequency-• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h		
• at 690 V rated value212 kWThermal short-time current limited to 10 s4 000 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor32 WNo-load switching frequency • at AC1 000 1/h• at DC1 000 1/hOperating frequency • at AC-1 maximum700 1/h• at AC-2 maximum • at AC-3 maximum • at AC-4 maximum250 1/h• at AC-4 maximum • at AC-4 maximum250 1/h	at AC-4	
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Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor32 WNo-load switching frequency1000 1/h• at AC1 000 1/h• at DC1 000 1/hOperating frequency700 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h		
the operating current per conductorNo-load switching frequency• at AC1 000 1/h• at DC1 000 1/hOperating frequency• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h		
• at AC1 000 1/h• at DC1 000 1/hOperating frequency700 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h		32 W
• at DC1 000 1/hOperating frequency700 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h	No-load switching frequency	
Operating frequency700 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h	● at AC	1 000 1/h
• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h	• at DC	1 000 1/h
• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h	Operating frequency	
• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h	• at AC-1 maximum	700 1/h
• at AC-4 maximum 250 1/h	• at AC-2 maximum	250 1/h
	• at AC-3 maximum	750 1/h
Control circuit/ Control	● at AC-4 maximum	250 1/h
	Control circuit/ Control	

Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
• at 50 Hz rated value	21 27.3 V
• at 60 Hz rated value	21 27.3 V
Control supply voltage at DC	
rated value	21 27.3 V
Type of PLC-control input acc. to IEC 60947-1	Туре 1
Consumed current at PLC-control input acc. to IEC	20 mA
60947-1 maximum	
Operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.8
• Full-scale value	1.1
Operating range factor control supply voltage rated	
value of magnet coil at AC	0.8 1.1
• at 50 Hz	
• at 60 Hz	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	E70.) / A
• at 50 Hz	570 V·A
Inductive power factor with closing power of the coil	
• at 50 Hz	0.8
Apparent holding power of magnet coil at AC	5 6 1/ 4
• at 50 Hz	5.6 V·A
Inductive power factor with the holding power of the coil	
• at 50 Hz	0.8
Closing power of magnet coil at DC	800 W
Holding power of magnet coil at DC	3.6 W
Closing delay	
• at AC	60 90 ms
• at DC	60 90 ms
Opening delay	
• at AC	80 100 ms
• at DC	80 100 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	2
instantaneous contact	2
Number of NO contacts for auxiliary contacts	2
instantaneous contact	2
Operating current at AC-12 maximum	10 A

Operating 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
Operating 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
Operating 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 220 V rated valueat 600 V rated value	0.3 A 0.1 A
• at 600 V rated value	0.1 A
• at 600 V rated value Contact reliability of auxiliary contacts	0.1 A
at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings	0.1 A
at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor	0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 477 A
at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 477 A
the at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp]	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 477 A
 at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for three-phase AC motor 	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 477 A 472 A
 at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V rated value 	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 477 A 472 A 150 hp
 at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V rated value at 220/230 V rated value 	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 477 A 472 A 150 hp 200 hp
 at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 477 A 472 A 150 hp 200 hp 400 hp
 at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 477 A 472 A 150 hp 200 hp 400 hp 500 hp
 at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Contact rating of auxiliary contacts according to UL 	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 477 A 472 A 150 hp 200 hp 400 hp 500 hp
 at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for three-phase AC motor at 220/208 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value Contact rating of auxiliary contacts according to UL 	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 477 A 472 A 150 hp 200 hp 400 hp 500 hp

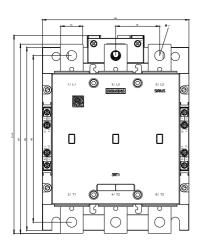
— with type of assignment 2 required

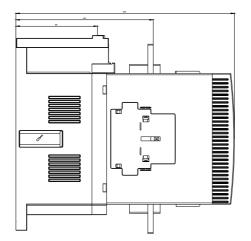
for short-circuit protection of the auxiliary switch required
 (415 V, 50 kA)
 gG: 10 A (500 V, 1 kA)

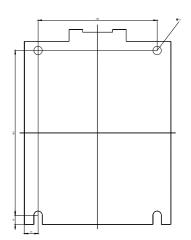
gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A

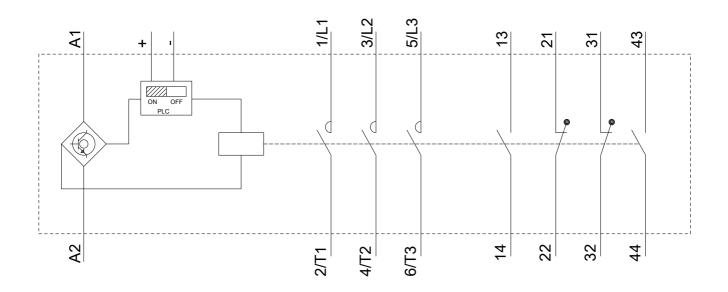
Installation/ mounting/ dimensions			
Mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting		
	surface; standing, on horizontal mounting surface		
Mounting type	screw fixing		
Side-by-side mounting	Yes		
Height	210 mm		
Width	145 mm		
Depth	206 mm		
Required spacing			
 with side-by-side mounting 			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
 for grounded parts 			
— forwards	20 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
● for live parts			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/Terminals			
Type of electrical connection			
 for main current circuit 	Connection bar		
 for auxiliary and control current circuit 	screw-type terminals		
Type of connectable conductor cross-sections			
 at AWG conductors for main contacts 	2/0 500 kcmil		
Connectable conductor cross-section for main contacts			
• stranded	70 240 mm²		
Connectable conductor cross-section for auxiliary			
contacts	0.5 4 mm ²		
• single or multi-stranded	0.5 4 mm ²		
• finely stranded with core end processing	0.5 2.5 mm²		
Type of connectable conductor cross-sections			
• for auxiliary contacts	$2x (0.5 - 1.5 mm^2) 2x (0.75 - 2.5 mm^2) = 2x (0.75 - 4 mm^2)$		
— solid	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²)		
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)		

	rocessing	2x (0.5 1.5 mm²), 2x (0		
 at AWG conductors for auxiliary cor 	-			
AWG number as coded connectable cond section	ductor cross			
• for auxiliary contacts		18 14		
Safety related data				
Product function				
 Mirror contact acc. to IEC 60947-4- 	1	Yes		
 positively driven operation acc. to If 1 	EC 60947-5-	No		
		finger-safe when touched	vertically from front	acc. to IEC 60529
Certificates/approvals				
General Product Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
CCC CSA		EHC	Certificate	EG-Konf.
Test Certificates	Marine / S	hipping	other	
Special Test Certi- Type Test Certific- ficate ates/Test Report	ABS	RMRS	<u>Miscellaneous</u>	<u>Confirmation</u>
Further information				
Information- and Downloadcenter (Catalo)		
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last modified:

12/22/2018