SIEMENS

Data sheet

3RT2035-1AP64



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, removable auxiliary switch

product brand nameSIRIUSproduct designationPower contactorproduct type designation3RT2General technical dataS2size of contactorS2product extensionNo• function module for communicationNo• auxiliary switchNopower loss [W] for rated value of the current6.6 W• at AC in hot operating state per pole2.2 W• without load current share typical6.5 W	
product type designation 3RT2 General technical data	
General technical data size of contactor S2 product extension No • function module for communication No • auxiliary switch No power loss [W] for rated value of the current 6.6 W • at AC in hot operating state per pole 2.2 W	
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• function module for communicationNo• auxiliary switchNopower loss [W] for rated value of the current• at AC in hot operating state6.6 W• at AC in hot operating state per pole2.2 W	
• auxiliary switchNopower loss [W] for rated value of the current6.6 W• at AC in hot operating state per pole2.2 W	
power loss [W] for rated value of the current • at AC in hot operating state 6.6 W • at AC in hot operating state per pole 2.2 W	
at AC in hot operating state 6.6 W at AC in hot operating state per pole 2.2 W	
• at AC in hot operating state per pole 2.2 W	
without load current share typical 6.5 W	
insulation voltage	
• of main circuit with degree of pollution 3 rated value 690 V	
of auxiliary circuit with degree of pollution 3 rated value 690 V	
surge voltage resistance	
of main circuit rated value 6 kV	
of auxiliary circuit rated value 6 kV	
maximum permissible voltage for protective separation between 400 V coil and main contacts according to EN 60947-1 400 V	
shock resistance at rectangular impulse	
• at AC 9.8g / 5 ms, 6.5g / 10 ms	
shock resistance with sine pulse	
• at AC 15.3g / 5 ms, 10.1g / 10 ms	
mechanical service life (operating cycles)	
of contactor typical 10 000 000	
of the contactor with added electronically optimized 5 000 000 auxiliary switch block typical	
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 minimum 10 %	
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum	
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 	

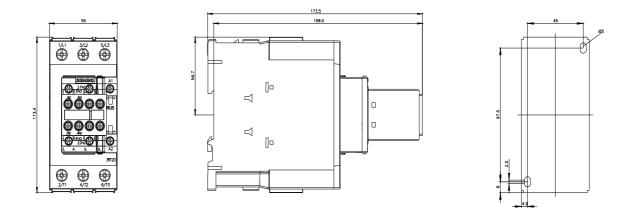
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 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-	
4	
 at 400 V rated value 	11.6 kW
• at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	14.5 kVA
 up to 400 V for current peak value n=20 rated value 	25.2 kVA
• up to 500 V for current peak value n=20 rated value	31.6 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
 operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 	9.6 kVA
• up to 230 V for current peak value n=30 rated value	9.6 kVA 16.8 kVA
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	16.8 kVA
 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 	16.8 kVA 21 kVA
 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 690 V for current peak value n=30 rated value 	16.8 kVA
 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 	16.8 kVA 21 kVA
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 	16.8 kVA 21 kVA
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C 	16.8 kVA 21 kVA 28.6 kVA
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum 	16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum 	16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value
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 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-3 maximum 	16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 750 1/h 1 000 1/h
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 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-3 maximum 	16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 750 1/h 1 000 1/h

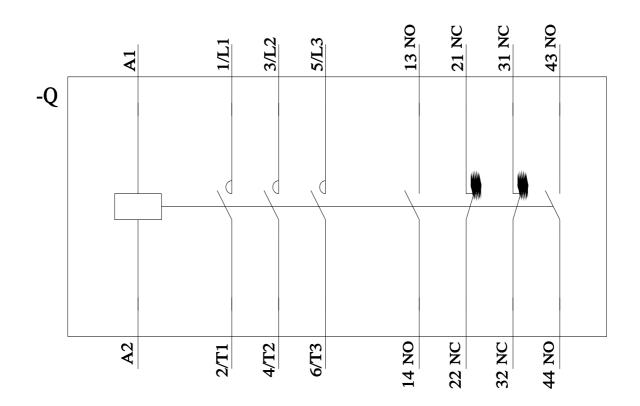
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 60 Hz rated value	240 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	212 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	18.5 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	2
number of NO contacts for auxiliary contacts instantaneous contact	2
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	
• at 24 V rated value	6 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	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 200/208 V rated value 10 hp - at 220/230 V rated value 15 hp - at 460/480 V rated value 30 hp - at 575/600 V rated value 40 hp		
	— at 230 V rated value	7.5 hp
- at 220230 V rated value10 pp- at 275800 V rated value80 ppcontextraing of audilary contacts according to UL800 / 0600Solver accular production production of the main circuit with type of assignment 2 required95: 160 / (650 V, 100 kJ), akt: 80 A (680 V, 100 kJ), BSB8: 125 A (415 V, 80 K)- with type of assignment 2 required95: 160 / (650 V, 100 kJ), akt: 80 A (680 V, 100 kJ), BSB8: 125 A (415 V, 80 K)- with type of assignment 2 required95: 160 / (650 V, 100 kJ), akt: 80 A (680 V, 100 kJ), BSB8: 125 A (415 V, 80 K)- with type of assignment 2 required95: 160 / (650 V, 100 kJ), akt: 80 A (680 V, 100 kJ), BSB8: 125 A (415 V, 80 K)incontring position- with type of assignment 2 requiredincontring position- with type of assignment 2 requiredincontring position- with type of assignment 2 required type of assignment	 for 3-phase AC motor 	
	— at 200/208 V rated value	10 hp
	— at 220/230 V rated value	15 hp
context raining of auxiliary contacts according to UL Ab00 / G600 Short dricell protection Gesign of the tase link Gesign of the tase link - with type of conditation in required gG: 100 A (600 V, 100 KA), abl: 50A (600 V, 100 KA), BSSE: 63A (415V, 80KA) - with type of assignment 2 required gG: 100 A (600 V, 100 KA), abl: 50A (600 V, 100 KA), BSSE: 63A (415V, 80KA) - with type of assignment 2 required gG: 100 A (600 V, 100 KA), abl: 50A (600 V, 100 KA), BSSE: 63A (415V, 80KA) - with type of assignment 2 required gG: 100 A (500 V, 11 KA) Montation of the main induct gG: 100 A (500 V, 11 KA) Montation of the main induct gG: 100 A (500 V, 11 KA) Montation of the main induct gG: 100 A (500 V, 11 KA) Montation of the main induct gG: 100 A (500 V, 11 KA) Montation of the main induct gG: 100 A (500 V, 11 KA) Montation of the main induct gG: 100 A (500 V, 11 KA) Montation of the main induct gG: 100 (500 V, 11 KA) Montation of the main induct gG: 100 (500 V, 11 KA) Montation of the main induct gG: 100 (500 V, 11 KA) Montation of the main induct gG: 100 (500 V, 11 KA) Montation of the main induct gG: 100 (500 V, 110 KA)	— at 460/480 V rated value	30 hp
Short-circuit protection design of the fuse link • vish hord-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required - storing method • association and assign on mounting surface; can be bitted forward and backward by +2-225 for writclin mounting surface; height with alse-by-side mounting - forwards - downwards - downwards - downwards - downwards - forwards	— at 575/600 V rated value	40 hp
design of the fuse link GG: 160 A (690 V, 100 AA), abl: 80 A (690 V, 100 AA), BS88: 128 A (415 V, 80 A (50 V, 100 AA), abl: 50A (690 V, 100 AA), abl: 80 A (690 V, 100 AA),	contact rating of auxiliary contacts according to UL	A600 / Q600
	Short-circuit protection	
	design of the fuse link	
ikit ikit	 for short-circuit protection of the main circuit 	
• for short-strout protection of the auxiliary switch required Installation/ mounting/dimensions 96: 10 A (800 V, 1 kA) Installation/ mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting surface, can be illed forward and backward by V: 22.5° on vertical mounting end on wards • of or gould de parts 10 mm • of orize and surface formation total end or sudiary and control circuit screev-bpt terminals • of main current circuit <td>- with type of coordination 1 required</td> <td></td>	- with type of coordination 1 required	
Installation/ mounting/ dimensions +/10° rotation possible on vertical mounting surface; can be tilted forward and backward by +/2 25° on vertical mounting surface; serve and snap-on mounting on 35 mm DIN rail according to DIN EN 60715 height 114 mm vidth 55 mm depth 174 mm required spacing 10 mm - downwards 10 mm	 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
mounting position +180° rotation positio on vertical mounting surfaces fastening method screw and snap-on mounting outs 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting Yes meight Yes width 55 mm depth 114 mm width side-by-side mounting	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
mounting position +180° rotation positio on vertical mounting surfaces fastening method screw and snap-on mounting outs 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting Yes meight Yes width 55 mm depth 114 mm width side-by-side mounting	Installation/ mounting/ dimensions	
backward by +/- 22.5° on vertical mounting surface fastering method subckward by +/- 22.5° on vertical mounting surface side-by-side mounting Yes height 114 mm vertical mounting onto 35 mm DIN rail according to DIN EN 60716 required spacing 114 mm required spacing 10 mm - lorwards 10 mm - lorwards 10 mm - downwards 10 mm <		+/-180° rotation possible on vertical mounting surface: can be tilted forward and
eightYesheight114 nmwidth65 mmdepth174 mmrequired spacing174 mmrequired spacing10 mm- forwards10 mm- downards10 mm- forwards10 mm- forwards10 mm- downards10 mm- downards10 mm- downards10 mm- downards10 mm- downards10 mm- for auxiliary and control circuitscrew-type terminals- for auxiliary and control circuit	incultury position	
height 114 mm width 55 mm depth 174 mm required spacing 10 mm - why side by-side mounting 10 mm - forwards 10 mm - worwards 10 mm - downwards 00 mm - downwards 10 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
with 55 mm depth 174 mm required spacing 174 mm evel th side-by-side mounting 10 mm - forwards 10 mm - downwards 10 mm - downwards 00 mm - downwards 00 mm - downwards 10 mm - upwards 00 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - for auxilary and control circuit screw-type terminals of or auxilary and control circuit screw-type terminals - of ownwards 10 mm of anget coil <	 side-by-side mounting 	Yes
width55 mmdepth74 mmdepth74 mmrequired spacingforwards10 mmforwards10 mmdownwards10 mmdownwards00 mmdownwards10 mmdownwards10 mmforwards10 mmforwards10 mmforwards10 mmforwards10 mmdownwards10 mmdownwards50 mmforwards10 mmdownwards50 mmforwards10 mmdownwards50 mmforwards10 mmforwards50 mmforward	height	114 mm
depth 174 mm required spacing intervention - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards <t< td=""><td></td><td>55 mm</td></t<>		55 mm
• with side-by-side mountingImage: Side Side Side Side Side Side Side Side	depth	174 mm
• with side-by-side mountingImage: Side Side Side Side Side Side Side Side	required spacing	
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• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for main contacts 18 1		
AWG number as coded connectable conductor cross section 18 1		
• for main contacts 18 1	·	2x (20 16), 2x (18 14)
	section	
• for auxiliary contacts 20 14		
	 for auxiliary contacts 	20 14

Safoty rolated data						
afety related data						
product function mirror contact a	according to IEC 60947-4-1		Yes			
	-	60047 5 1				
. ,	n operation according to IEC	00947-0-1	No			
	ty-related switching OFF	21020	Yes			
	emand rate according to SN	31920	1 000 000			
proportion of danger			40.07			
	d rate according to SN 3192		40 %			
	nd rate according to SN 319		73 % 100 FIT			
	ow demand rate according to					
61508	interval or service life accor	aing to IEC	20 a			
protection class IP o	n the front according to IE	C 60529	IP20			
-	the front according to IEC		finger-safe, for vertical contact	from the front		
Certificates/ approvals	-		-			
General Product Ap	proval					
		Confirmation		KC	r M F	
(96)	(m)		(VL)		FHI	
CSA			\sim		LIIL	
	Functional					
EMC	Safety/Safety of Ma- chinery	Declaration of C	Conformity	Test Certificates		
	chinery					
~	Type Examination Cer-			Type Test Certific-	Special Test Certific-	
l k k k k k k k k k k k k k k k k k k k	tificate	UK	CE	ates/Test Report	ate	
Ś						
۲			Llovd's Register	٢		
AB2	BUREAU VERITAS	Div	145	263	RINA.	
Marine / Shipping	other		Railway	Dangerous Good	Environment	
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3RT20351AP64 Page 7/8

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