SIEMENS

Data sheet

3RT2015-1BB41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	4 W
type of calculation of power loss depending on pole	quadratic
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 coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.291 kg
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 maximum	95 %

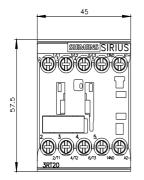
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	153 kg
Global Warming Potential [CO2 eq] during manufacturing	1.42 kg
Global Warming Potential [CO2 eq] during operation	152 kg
Global Warming Potential [CO2 eq] after end of life	-0.305 kg
Main 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 value	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-4 at 400 V rated value	6.5 A
at AC-5a up to 690 V rated value	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value 	4 A 4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 500 V for current peak value n=20 rated value	3.6 A
at AC-6a	0.07
 up to 230 V for current peak value n=30 rated value 	2.7 A
— up to 200 V for current peak value n=30 rated value	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated	2.5 mm ²
value operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A

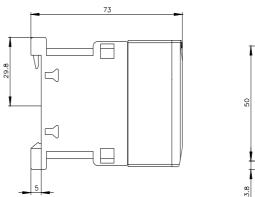
• with 3 current paths in series at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	0.35 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC- 4	
at 400 V rated value	1.15 kW
at 400 V rated value at 690 V rated value	1.15 kW
operating apparent power at AC-6a	1.13 KW
	1.5 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 	2.7 kVA
	3.3 kVA
• up to 500 V for current peak value n=20 rated value	4.3 kVA
up to 690 V for current peak value n=20 rated value	4.5 KVA
operating apparent power at AC-6a	4 10/0
up to 230 V for current peak value n=30 rated value	1 kVA
• up to 400 V for current peak value n=30 rated value	1.8 kVA
 up to 500 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value 	2.2 kVA 2.9 kVA
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 	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h

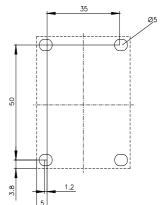
Control circuit/ Control	
	DC
type of voltage of the control supply voltage control supply voltage at DC rated value	24 V
	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
• full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous	1
contact	
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	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	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	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
• for 3-phase AC motor	
- at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
- at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)

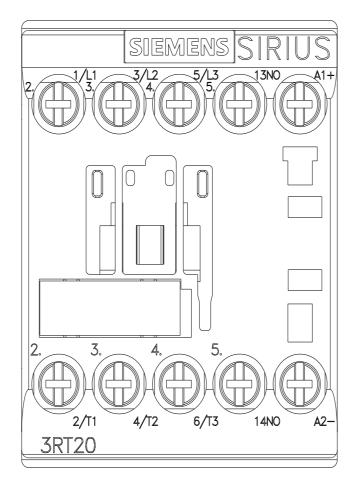
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	58 mm
width	45 mm
depth	73 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— 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 Screw-type terminals
of magnet coil type of connectable conductor cross-sections	Sciew-type terminals
for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm²
 — finely stranded with core end processing 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
for AWG cables for main contacts	
	2x (20 16), 2x (18 14), 2x 12
connectable conductor cross-section for main contacts	0.5 4 mm²
• solid	0.5 4 mm ²
stranded	0.5 4 mm ²
finely stranded with core end processing	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	0.5 4 mm²
solid or stranded	0.5 4 mm ²
finely stranded with core end processing	0.5 2.5 mm ²
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), 2x 4 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), 2x 12
AWG number as coded connectable conductor cross section	
• for main contacts	20 12
 for auxiliary contacts 	20 12
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29
 positively driven operation according to IEC 60947-5-1 	No
 suitable for safety function 	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	
	20 a
test wear-related service life necessary	20 a Yes

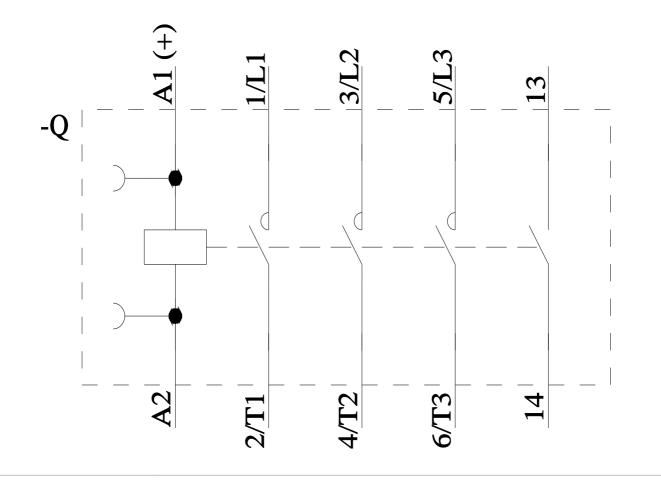
 with low demand rate 	te according to SN 31	920	40 %		
 with high demand rate 	ate according to SN 31	1920	73 %		
B10 value with high dem	and rate according t	to SN 31920	1 000 000		
failure rate [FIT] with lov 31920	v demand rate accord	ding to SN	100 FIT		
SO 13849					
device type according to	o ISO 13849-1		3		
overdimensioning according to ISO 13849-2 necessary		necessary	Yes		
EC 61508					
safety device type accor	ding to IEC 61508-2		Туре А		
Electrical Safety					
protection class IP on th	e front according to	IEC 60529	IP20		
ouch protection on the	front according to IE	C 60529	finger-safe, for vertical contact	from the front	
oprovals Certificates					
General Product Approv	/al				
	CE EG-Konf.	UK CA	<u>Confirmation</u>		KC
General Product Ap- proval	EMV	Test Certificates			Marine / Shipping
	A	Special Test Certin	fic- Type Test Certific-	Miscellaneous	44
LH		ate	ates/Test Report		ABS
Marine / Shipping	RCM	are	ates/Test Report		ABS
Marine / Shipping		Llovds Register uts	ates/Test Report	RINA	ABS
Marine / Shipping	RCM	Hoyd's Register	ates/Test Report	Environment	ABS
BUREAU	Confirmation	Hovd's Register uts	PRS Dangerous goods	Environment	ABS ABS
BUREAU VERITAS		Lits Railway Special Test Certi	PRS Dangerous goods	Environment EppE	
other Miscellaneous	Confirmation	Lis Railway Special Test Certi ate	PRS Dangerous goods	Environment	
other Miscellaneous	Confirmation aging emens.com/cs/ww/en/v	Lis Railway Special Test Certi ate	PRS Dangerous goods	Environment	
other Miscellaneous	Confirmation aging emens.com/cs/ww/en/v	Lis Railway Special Test Certi ate	PRS Dangerous goods	Environment EEPED	
other Miscellaneous Information on the packatter Information on the packatter Information - and Downle	<u>Confirmation</u> aging emens.com/cs/ww/en/x padcenter (Catalogs, /ic10 dering system)	Railway Special Test Certi ate	Dangerous goods fic- Transport Information	Environment	
other Miscellaneous Information on the packattor Information on the packattor Information - and Downle Information- and Downle Information- and Downle Information- and Downle	<u>Confirmation</u> aging emens.com/cs/ww/en/x padcenter (Catalogs, /ic10 dering system)	Railway Special Test Certi ate	Dangerous goods fic- Transport Information		
other Miscellaneous Information Information on the pack Information - and Downled Ittps://www.siemens.com Industry Mall (Online or Industry Mall (Online or Industry Mall (Online or Industry Mall (Online or Intps://www.siemens.com	Confirmation aging emens.com/cs/ww/en/v boadcenter (Catalogs, /ic10 Jering system) nns.com/mall/en/en/Ca	Railway Special Test Certinate ate	Dangerous goods fic- Transport Information	EPD	
other Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous	Confirmation aging emens.com/cs/ww/en/v badcenter (Catalogs, /ic10 dering system) ens.com/mall/en/en/Ca siemens.com/WW/CA als, Certificates, Cha	Kegster uts Railway Special Test Certi ate //ew/109813875 Brochures,) talog/product?mlfb=31 Xorder/default.aspx?la racteristics, FAQs,	Dangerous goods fic- Transport Information RT2015-1BB41 ang=en&mlfb=3RT2015-1BB41	EPD	
etther information Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous M	Confirmation aging mens.com/cs/ww/en/v badcenter (Catalogs, /ic10 dering system) ms.com/mall/en/en/Ca siemens.com/WW/CA als, Certificates, Chai	Kegster Uts Railway Special Test Certi ate //ew/109813875 Brochures,) talog/product?mlfb=31 Xorder/default.aspx?la racteristics, FAQs, ps/3RT2015-1BB41	Dangerous goods fic- Transport Information RT2015-1BB41 ang=en&mlfb=3RT2015-1BB47)	EPD	
etther information Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous M	Confirmation aging emens.com/cs/ww/en/v padcenter (Catalogs, /ic10 dering system) ens.com/mall/en/en/Ca siemens.com/WW/CA2 als, Certificates, Cha emens.com/cs/ww/en/p t images, 2D dimensi	Railway Railway Special Test Certi ate	Dangerous goods fic- Transport Information RT2015-1BB41 ang=en&mlfb=3RT2015-1BB41) odels, device circuit diagrams	EPD	
Information and Downle Information on the pack Information on the pack Information - and Downle Information - and Down	Confirmation aging emens.com/cs/ww/en/v badcenter (Catalogs, /ic10 dering system) ens.com/mall/en/en/Catalogs, Certificates, Chatalogs, Certificates, Chatalogs, 2D dimension emens.com/bilddb/caxtalogs, 12, L	Railway Special Test Certi ate	Dangerous goods fic- Transport Information RT2015-1BB41 ang=en&mlfb=3RT2015-1BB41) odels, device circuit diagrams 015-1BB41&	EPD	
Inther information Information on the packa Information on the packa Information on the packa Information- and Downlo Information- and Downlo	Confirmation aging emens.com/cs/ww/en/A badcenter (Catalogs, /ic10 dering system) ens.com/mall/en/en/Ca siemens.com/cs/ww/en/r t images, 2D dimensi mens.com/bilddb/cax characteristics, I²t, L emens.com/cs/ww/en/r e.g. electrical endura	Railway Special Test Certii ate view/109813875 Brochures,) talog/product?mlfb=31 Xorder/default.aspx?la racteristics, FAQs, os/3RT2015-1BB41/cf and cawings, 3D mc de.aspx?mlfb=3RT220.et-through current os/3RT2015-1BB41/cf ance, switching frequ	Dangerous goods ic- Transport Information RT2015-1BB41 ang=en&mlfb=3RT2015-1BB41) pdels, device circuit diagrams 115-1BB41⟨=en har	s, EPLAN macros,)	firmations











last modified:

7/19/2024 🖸