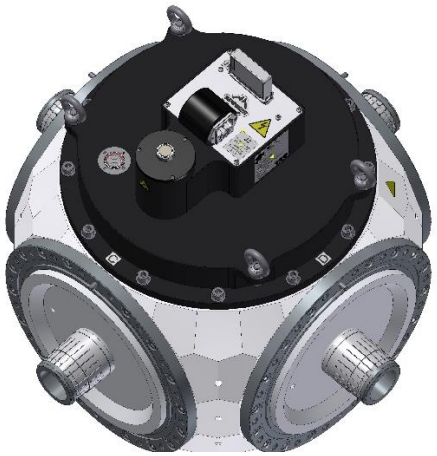
Coaxial Two Way Switch (DPDT) | BN 941964C0110



Typical illustration

Radio frequency characteristics

Interface type (4 connections)	8 3/16" RFC1)		
Characteristic impedance	75 Ω		
Frequency range	10 MHz	100 to 230 MHz	230 to 620 MHz
VSWR, max.	1.06	1.06	1.08
Isolation, min.	75 dB	75 dB	70 dB
Insertion loss, max.	0.03 dB		
Average power capability RFC2) at ambient temperature -10 to +45°C	950 kW	200 kW	120 kW
Peak voltage capability RFC2)	24 kV		

RFC1) Interface compatible to IEC, Myat, Dielectric
RFC2) Standard conditions: - Dielectric: Dry air under standard pressure at sea level (p = 1013 hPa)
- Load VSWR, max. 1.0 (no standing wave)
- No modulation, sinusoidal carrier only

Electrical and mechanical characteristics

Switch type		Two way switch, DPDT
Actuator type		Motor drive, latching, self cutoff
Connector J2 EMC1) for mains connection		IEC appliance inlet C14 according to IEC 60320-1
Mains connection		L, N, PE, TN-System
Operating	Operating voltage	95 to 140 V AC 50/60 Hz
	Operating current, typ. EMC2)	1.5 A
	Nominal fuse	F1 / F2: time-delay fuse, 2 A
Connector J1 EMC1) for control, interlock contacts and signaling		25 pole connector according to DIN 41652 / IEC 807-2
Control	Control voltage	ES1 circuits according to EN 62368-1, 8 to 31 V DC
	Control current, typ.	12 mA at control voltage 24 V DC
	Current limiting	The circuit must be limited externally to 0.5 A
Signal contacts Interlock contacts	Lead time typ. EMC2)	500 ms (the interlock/signal contacts open 500 ms before and close 500 ms after switching of the RF contacts)
	Maximum ratings	ES1 circuits according to EN 62368-1, 42.4 V ACpk / 60 V DC / 0.5 A
	Current limiting	The circuit must be limited externally to 0.5 A

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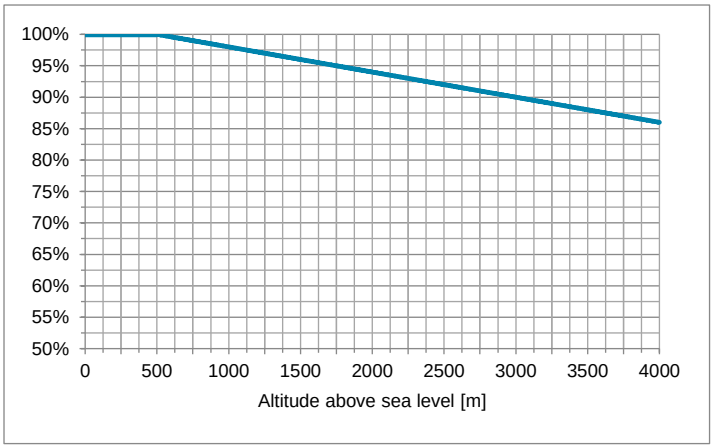
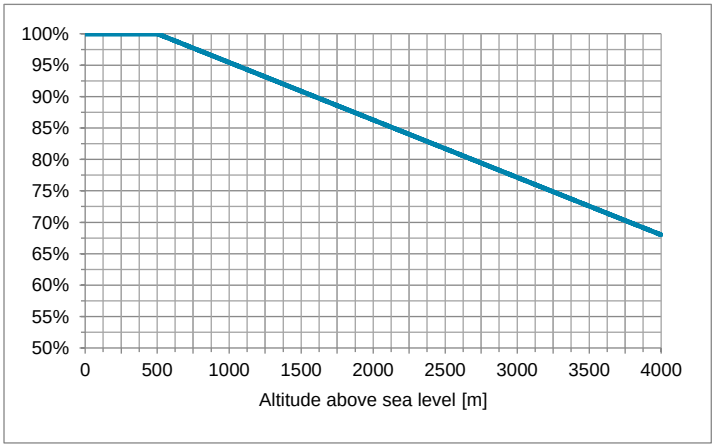
Switching time, typ. EMC2)	3 s
Command hold time, min.	3 s (during this time, the voltage at control input must not change)
Switching frequency, max.	3 cycles per minute, max. 30 cycles per hour (6 operations per minute, max. 60 operations per hour)
Lifetime, min.	100,000 cycles (200,000 operations)
Weight, approx.	70 kg

EMC1) Suitable US power supply cord and 25 pole mating connector included
EMC2) At room temperature and nominal voltage 120 V AC, 60 Hz

Environmental conditions

Operational conditions	ETSI EN 300 019-1-3 V2.3.2 (2009-1) class 3.1 N
Ambient temperature EC1)	-10 to +60°C
Condensation	Not allowed
Relative humidity, max.	95%
Derating of input power with increasing altitude	The maximum input power can be applied up to 500 m or 1600 ft above sea level unless noted otherwise in the data sheet. Above this height the maximum input power must be reduced as shown in the diagram. 
Derating of voltage with increasing altitude	The maximum voltage can be applied up to 500 m or 1600 ft above sea level unless noted otherwise in the data sheet. Above this height the voltage must be reduced as shown in the diagram. 

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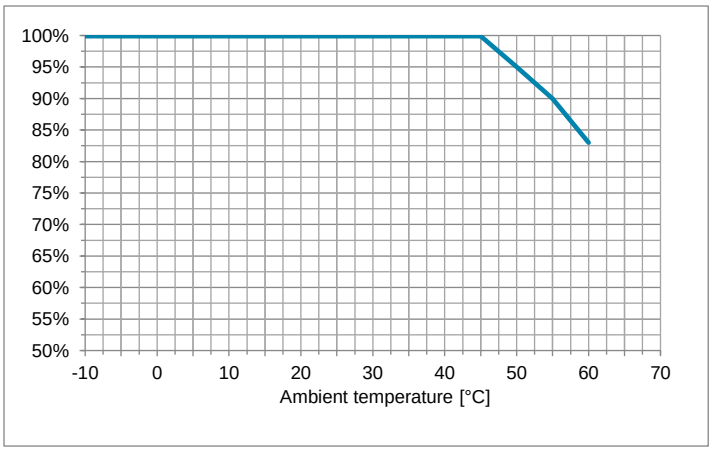
Derating of input power with increasing ambient temperature	The maximum input power can be applied up to +45°C ambient temperature unless noted otherwise in the data sheet. Above this ambient temperature the maximum input power must be reduced as shown in the diagram. 
Max. altitude above sea level	4,000 m or 13,120 ft according to IEC EN 60664-1
Protection class	I according to IEC EN 61140
IP protection level	IP40 according to IEC EN 60529 (all interfaces terminated)
Installation position	Any
Transport conditions	ETSI EN 300 019-1-2 V2.1.4 (2003-04) class 2.2
Ambient temperature	-25 to +70°C
Rain, condensation, icing	Not allowed
Storage conditions	ETSI EN 300 019-1-1 V2.1.4 (2003-04) class 1.2
Ambient temperature	-10 to +60°C
Rain, condensation, icing	Not allowed

EC1) Extended temperature range on request

Applicable documents

Product manual	M36478

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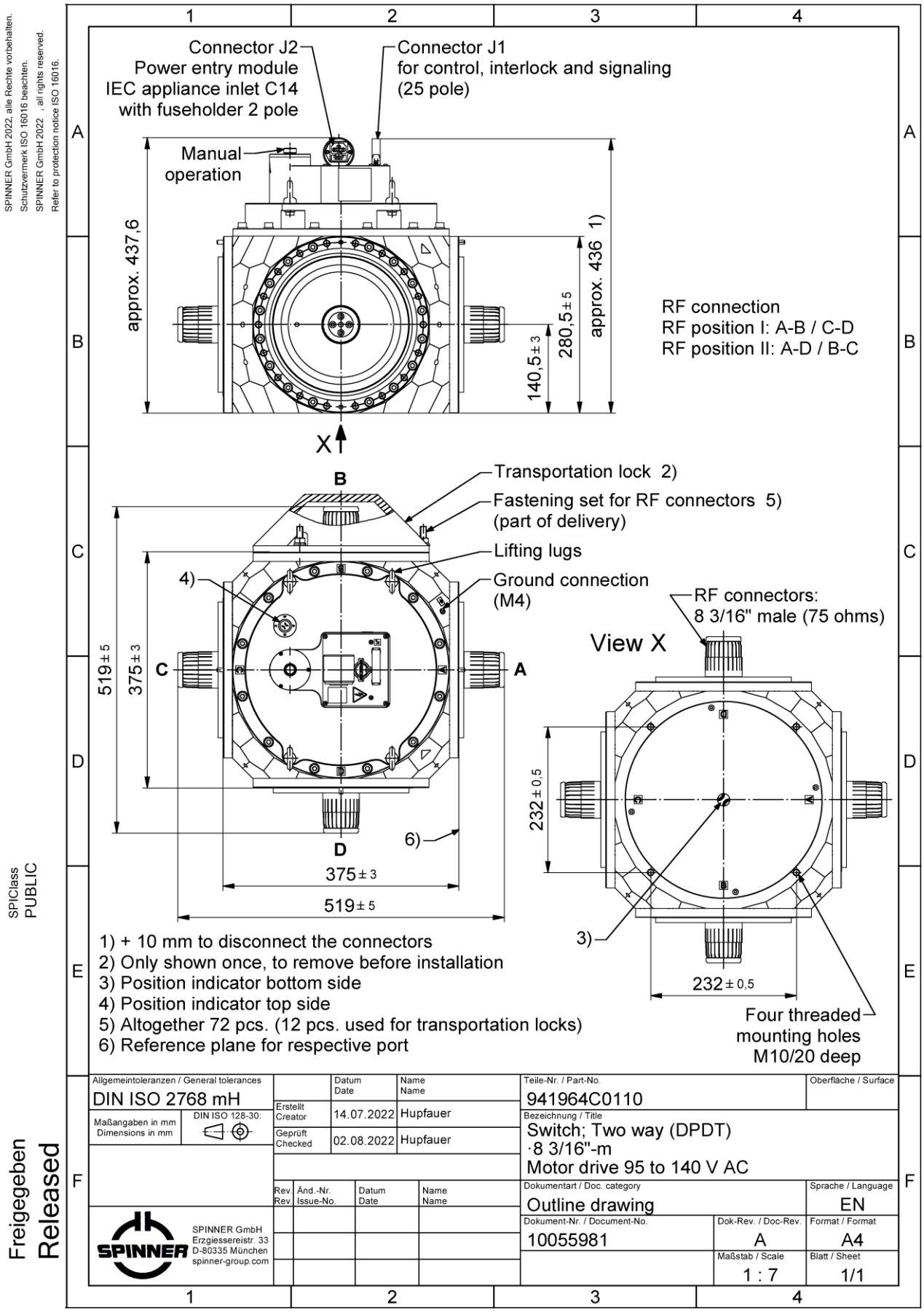
Outline (all dimensions in millimeter)



Allgemeintoleranzen / General tolerances: DIN ISO 2768 mH		Datum / Date	Name / Name
Maßangaben in mm / Dimensions in mm; DIN ISO 128-30:	Erstellt / Creator	14.07.2022	Hupfauer
	Geprüft / Checked	02.08.2022	Hupfauer
	Rev. / Rev.	Änd.-Nr. / Issue-No.	Datum / Date; Name / Name

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Teile-Nr. / Part-No.: 941964C0110			Oberfläche / Surface
Bezeichnung / Title: Switch; Two way (DPDT) ·8 3/16"-m Motor drive 95 to 140 V AC			
Dokumentart / Doc. category: Outline drawing			Sprache / Language: EN
Dokument-Nr. / Document-No.: 10055981	Dok-Rev. / Doc-Rev.: A	Format / Format: A4	
	Maßstab / Scale: 1 : 7	Blatt / Sheet: 1/1	

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Template 10014442.dotx

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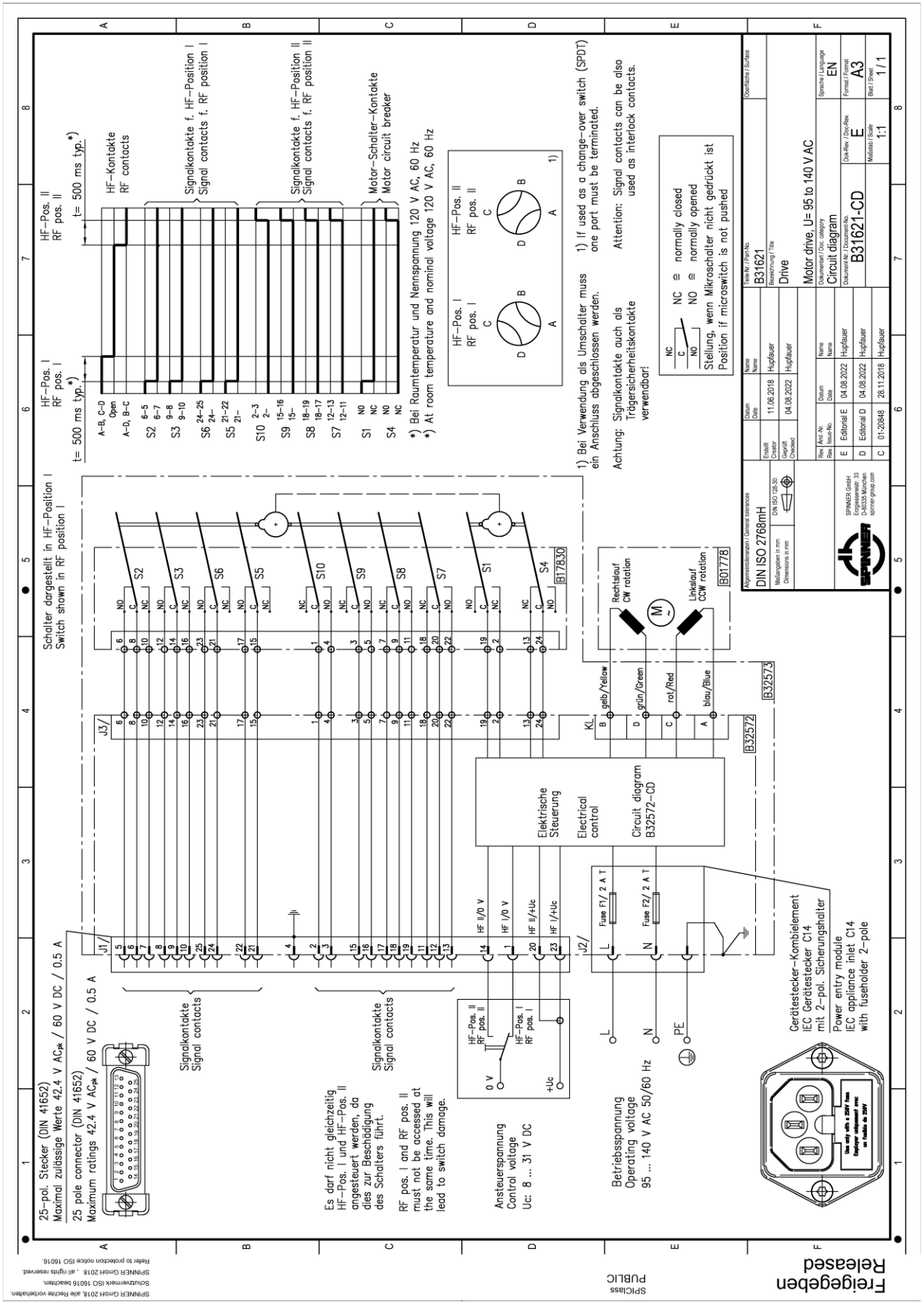
Circuit diagram



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Assessories (optional)

Installation kit BN 941964C3000