

Declaration on environmental compatibility in the fields of EMC¹⁾, climate and mechanical stress

RE 29067-U/02.09
Replaces: 08.97

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Type 4WRSE...3X, DBETRE-2x

High resonance directional valve,
Proportional pressure relief valve

Product types

- High resonance directional valve 4WRSE 6(10)...-3X/G24k0/A1 according to data sheet RE 29067
- Proportional pressure relief valve DBETRE-2X...G24K31A1 according to data sheet RE 29168

¹⁾ in the sense of the ECM law of 30th August 1995 and Directive 89/336/EEC

The products comply with the following standards:

1. EMC (electromagnetic compatibility)

prEN 50082-2:1994	VDE 0839 part 82-2	Field basic standard	Interference immunity
prEN 61000-4-2:1994 IEC 1000-4-2	VDE 0847-4-2	ESD (electrostatic discharge)	Air discharge up to: Severity 4 / Assessment criterion 1 Contact discharge: Severity 4 / Assessment criterion 1
prEN 61000-4-4:1994 IEC 1000-4-4	VDE 0847-4-4	BURST (transient discharge)	Supply voltage Severity 4 / Assessment criterion 2 Data lines up to: Severity 3 / Assessment criterion 1 Severity 4 / Assessment criterion 2
Test set-up to prEN 61000-4-2 and prEN 61000-4-4			
EN 55081-1:1992	VDE 0839 part 81-1		Emitted interference
EN 55022:1994	VDE 0878 part 22		Radio interference radiation depends on the build-up and wiring

If the valve is correctly connected and is wired in accordance with the data sheet (see list above) the build-up complies with the requirements of the EMC standards EN 50081-1 and prEN 50082-2.

2. Climate

EN 60068-2			Environmental test
EN 60068-2-1:1994		Cold test	2 cycles -20 °C, Dwell time 2 hours
EN 60068-2-2:1993		Dry heat test	2 cycles +60 °C, Dwell time 2 hours
EN 60068-2-1:1994 EN 60068-2-2:1993		Storage temperature	-20 °C, Dwell time 16 hours +80 °C, Dwell time 16 hours
	IEC 68-2-14:1986	Temperature cycle	2 cycles -20 °C to +60 °C Dwell time 3 hours each at min. / max. temperature
	IEC 68-2-30:1985	Damp heat, cyclical	Variant 2 +25 °C to +55 °C, 93 % to 97 % relative humidity 2 cycles of 24 hours each

The products comply with the following standards (continued):

3. Mechanical stress

		Vibration test in three axes vertical to each other
IEC 68-2-6:1990	Sine test	10 cycles, 5 to 2000 to 5 Hz with logarithmic frequency change rate of 1 oct./min. 5 to 57 Hz, amplitude 1,5 mm (p-p) 57 to 2000 Hz, amplitude 10 g Dwell time 30 min. at one resonance frequency
IEC 68-2-36:1973	Random test	20 to 2000 Hz, Amplitude 0,05 g ² / Hz (10 g RMS) Test time 30 min. per axis
IEC 68-2-27:1989	Shock test	Half sine 15 g / 11 ms in positive/negative direction per axis, 18 single shocks in all