

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

RE 29743-U/09.06

1/2

Type VT 11021

Analogue amplifier module

Description of the product

– The analogue amplifier module type VT 11021, Component Series 1X is used to drive Servovalve

The above products comply with the following basic standards

1. EMC (electromagnetic compatibility)

EN 61000-6-2:2001	VDE 0839 part 6-2	Field basic standard	Interference immunity
EN 61000-4-2:1995 IEC 1000-4-2	VDE 0847-4-2	ESD (electrostatic discharge)	Air discharge: Severity 4 / assessment criterion A Contact discharge up to: Severity 4 / assessment criterion A
EN 61000-4-4:1995 IEC 1000-4-4	VDE 0847-4-4	BURST (transient interference)	Supply voltage: Severity 2 / assessment criterion A Severity 3 / assessment criterion B Data lines: Severity 3 / assessment criterion A Severity 4 / assessment criterion B
EN 61000-4-5:1995 IEC 1000-4-6	VDE 0847-4-6	SURGE (surge voltages)	Supply voltage: Severity 1 / assessment criterion A
EN 61000-4-6:1996	VDE 0847-4-6	HF-Felder (leitungsgeführt)	Severity 3 / assessment criterion A

Test set-up to according EN 61000-4-2, EN 61000-4-4, EN 61000-4-5 and EN 61000-4-6

¹⁾ as defined by EMC law dated 30th August 1995 and Directive 89/336/EEC

2. Climate

EN 60068-2	IEC 68-2		Environmental test
EN 60068-2-1:1994		Cold test	2 cycles -5 °C dwell time 2 hours
EN 60068-2-2:1993		Dry heat test	2 cycles +55 °C dwell time 2 hours
EN 60068-2-1:1994 EN 60068-2-2:1993		Damp heat, cyclical	-25 °C dwell time 16 hours +85 °C dwell time 16 hours
	IEC 68-2-14:1986	Temperature cycle	4 cycles -5 °C to +55 °C dwell time 3 hours at min./max. temperature
	IEC 68-2-30:1985	Storage temperature, cyclical	Variant 2 +25 °C to +40 °C 93 % to 97 % relative humidity 2 cycles, 24 hours each

3. Mechanical stress

EN 60068-2/ IEC 62-2/DIN 40046		Vibration test in three perpendicular axes
prEN 60068-2-6:1994	Sine test	10 cycles, 5 to 500 to 5 Hz at a logarithmic frequency change rate of 1 Oct./Min. 5 to 57 Hz, Amplitude 0,3 mm (p-p) 57 to 500 Hz, Amplitude 2 g dwell time 30 min. at resonance frequency
IEC 68-2-3:1973 DIN 40046-24:1977	Random test	20 to 500 Hz, amplitude 0,01 g ² /Hz (2,2 g RMS), testing time 30 min. (per axis)
EN 60068-2-27:1993	Shock test	Half sine 15 g / 11 ms, 3x in positive / 3x in negative direction per axis, 18 individual shocks