

Type:	FAS-113DG <i>uni-line</i> synchronisers for 35 mm DIN rail or base mounting
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**Technical specifications**

* Breaker closing accuracy:	$\pm 3^\circ$ el.
* Measuring voltage ( $U_n$ ):	57.7-63.5-100-110-127-200-220-230-240-380-400-415-440-450-660-690V AC $\pm 20\%$ Load: 2k $\Omega$ /V
Overvoltage:	2 x $U_n$ for 10 s
* Acceptable voltage diff. ( $\Delta U_{max}$ ):	$\pm 2 \dots \pm 12\%$ of $U_{BB}$ , scaleable
Frequency range:	40...45...65...70Hz
Breaker closing pulse length:	400 ms $\pm 10$ ms
* Breaker closing time comp. ( $T_{BC}$ ):	20...200 ms, scaleable
* Set point $f_{set}$ :	0.1...0.5Hz, scaleable
* Proportional band ( $X_p$ ):	$\pm 0.25 \dots \pm 2.5$ Hz, scaleable
* Supply voltage ( $U_n$ ):	57.7-63.5-100-110-127-200-220-230-240-380-400-415-440-450-660-690V AC $\pm 20\%$ (max. 3.5VA) 24-48-110-220V DC $-25/+30\%$ (max. 2W)

**Type test specifications**
**Tested according to:**


Insulation:	500V DC, >100M $\Omega$	DNV, GL and LR
Vibration:	2...13.2Hz: 3 mm 13:2...100Hz: 1.0 g	DNV, GL and LR, test 1
Shock:	6 attempts with 50 g (in 3 directions)	IEC 68-2-27, test: Ea
Climate:	HSE	DIN 40040
Protection:	Case: IP40 Terminals: IP20	IEC/EN 60529
Temperature:	-10...55°C (nominal) -25...70°C (operating) -40...70°C (storage)	DNV, GL and LR
Test voltage:	3250V-50Hz-1 min between inputs and outputs	IEC/EN 61010-1
EMC:	Immunity	SS4361503 – PL 4, IEC 255-22-1...4 and EN 50082-1/2
	Emission	EN 50081-1/2

\*) Tested on all units according to specifications. Remaining specifications are tested regularly by test sampling.

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 Type Test