KUHSE
Powerful Solutions

Data sheet

Synchronising device KSY 3xx

Technical Data

Auxiliary Voltage
- 24 V DC (18 – 36 V DC)
Other auxiliary voltages on request.

Power Consumption
approx. 4 W at 24 V DC

Digital Inputs
LowActive (contact voltage
12 V DC, 5 mA, opto de-coupled)
cables not longer than 3 m.

Relay Outputs
230 V / 50 Hz / 2 A (potential free)

Analogue Outputs (optionally)
0 ... 10 V DC +/- 0.05 V max. 10.5 V
0 … 20 mA +/- 0.1 mA max. 21 mA

Measurement Ranges:
Voltage:
approx. 20 up to 280 / 400 V AC,
tolerance < 0,1 % of end value
(270 / 480 V AC)
Frequency:
15.0 Hz up to 100.0 Hz
starts at approx. 10 V L-N
adjustable in 0.01 Hz steps
repeat accuracy < 0.01 Hz

Climatic Conditions
acc. to DIN EN 60255-1 (09-2010)
ambient temperature:

operation:	-20 ... 55 °C
storage:	-25 ... 55 °C

Housing Dimensions
W / H / D 100 x 75 x 110 mm
for mounting on 35 mm top-hat rail
according to DIN EN 60715

Description	Order number	
The synchroniser relay KSY 3xx adjusts voltage and frequency of a generator to the mains, in order to connect it to the mains at a minimum of frequency and voltage deviation, and with identical phasing. Depending on its configuration, the KSY 3xx is monitoring sense of rotation, voltage difference and asymmetry. Depending on the parameterization, the voltage is measured as a single-conductor measurement, three-wire measurement without neutral conductor or three-wire measurement with neutral conductor. Frequency measurement is basically carried out on L1 and L2. In island mode, the desired frequency and voltage are internally set by the device. By setting of the corresponding parameters, the KSY 3xx provides the option for monitoring on nominal voltage and frequency in accordance to DIN VDE-AR-N-4105:2011-08. The KSY 3xx allows the interconnection of up to four parallel switching points. Separate parameters can be set for each switching point. The comfortable configuration of all settings of the KSY 3xx is done by means of the parameterisation software KuPa010. Alternatively values can be entered directly at the device. Any access to the device's parameterisation can be protected by a PIN. The output of display-texts at the device standardly takes place in German and English (switching between languages is possible at any time during operation). Alternative languages, suitable to the customer's requirements, can be configured and conveniently made available, by means of our parameterisation software KuPa010. Optionally, the KSY 3xx is available with two analogue outputs 1x 0(2)...10V/0(4)...20 mA (switchable) and 1 x 0(2)...10 V.	KSY 3xx auxiliary voltage 24 V	2W300S0000
	Other voltages	on request
	Accessory:	
	USB cable USB A : USB Mini	on request