

Power Factor Controller NC-12

Technical specifications

Number of steps	12
Dimensions	155 x 158 x 80 mm
Frequency	50 Hz nominal (range 48...52 Hz) 60 Hz nominal (range 58...62 Hz)
Measuring current	0...1 A or 0...5 A
Measuring voltage	80...690 V (nominal, max. 115%)
Displayed measuring power	100000 kVA
Nominal power consumption	13 VA
Supply voltages	110 VAC nominal, (range 88...130 V) 230 VAC nominal, (range 185...265 V) 400 VAC nominal, (range 320...460 V)
Relay inputs/outputs	250 VAC, 2 A
Display	Dot matrix display, resolution 64x128 pixels, backlighted
Protection class	IP41 front panel, IP20 rear part
Target $\cos \varphi$ -range	0,85 ind ... 1,00 ... 0,90 cap
Response limits	0,01 ... 1,99, symmetrical or asymmetrical
Reconnection delay	10...900 s
Response delay	20 % of reconnection delay, min. 10 s
Displayed measurements	$\cos \varphi$, I_{act} , I_{react} , I_{app} , I_{RMS}/I_1 , P, Q, S, THD(U) and voltage harmonics, THD(I) and current harmonics, internal and external temperature.
Installation method	Panel installation, DIN-rail installation
Casing	Impact resistant PC/ABS, UL94V-0
Operating temperature range	0...60°C
Alarm log	List of 5 last alarms
Step counters	Yes
Fan control with dedicated relay	Yes. 250 V AC, 8A
Alarm relay	Yes. 250 V AC, 8A
Accuracy (of FS)	I : 2% I_0 : 2% U/I-samples: 2% Phase: 1° Distortion: ± 3 dB (up to 15 th) Internal temperature: ± 3 °C External temperature: ± 2 °C (option)
CT setting range	25/1 ... 6000/1 or 25/5 ... 6000/5
CT burden	1 A, 0.03 VA or 5 A, 0.7 VA
Power outage detection	Reaction time > 15 ms
Standards	IEC 61010-1 IEC 61000-6-2 IEC 61000-6-4 UL 61010A-1 IEC 60529
Communication	Modbus protocol using CCA (option)