



- With two working modes: automatic operation and manual operation
- With over-voltage and under-voltage protection
- With voltage harmonic protection function
- With data storage protection when power off
- Low current signal input impedance



MODEL AND MEANING

No.	Name	Meaning
1	Reactive power compensation controller	ELC
2	Physical terms	$F=G+W$ G: power factor W: reactive power
3	Mixed compensation	3: mixed compensation; no mark: three phase compensation
4	With communication function	C: with communication function; no mark: without communication function
5	Output steps	optional step: 4、6、8、10、12、16
6	Output	J: static output D: dynamic output



OVERVIEW

ELC700 series reactive power automatic compensation controller is suitable for automatic adjustment of capacitor compensation device of low voltage power distribution system, so that the power factor can reach the user's predetermined state, increase the utilization power of power transformers, reduce line losses, and improve the voltage quality of power supply.

Standard: JB/T 9663-2013



FEATURES

	Calculate the switching capacitor capacity based on the fundamental reactive power, which can avoid any form of switching vibration
	Correctly display the power factor of the power grid in the harmonic place
	High power factor Measurement accuracy and wide display range
	Real-time display total power factor (PF) and fundamental power factor (DPF)
	Real-time display THDv and THDi
	There are 12 output methods for users to choose
	HMI easy to operate
	Various control parameters are fully digital adjustable and intuitive to use

RPCF-16	Three phase compensation (RPCF-16J equipped with AC contactor, RPCF-16D equipped with composite switch or contactless switch)
RPCF3-16	mixed compensation (RPCF3-16J equipped with AC contactor, RPCF3-16D equipped with composite switch or contactless switch)

NORMAL WORKING AND INSTALLATION CONDITIONS

 Ambient temperature	-25°C ~ +55°C
 Relative humidity	Relative humidity ≤50% at 40°C ; ≤90% at 20°C
 Altitude	≤2500m
 Environmental conditions	no harmful gas and steam, no conductive or explosive dust, no severe mechanical vibration

POWER CONDITION

 Rated voltage	AC 220V/380V
 Rated working current	AC 0~5A
 Rated frequency	45Hz~65Hz

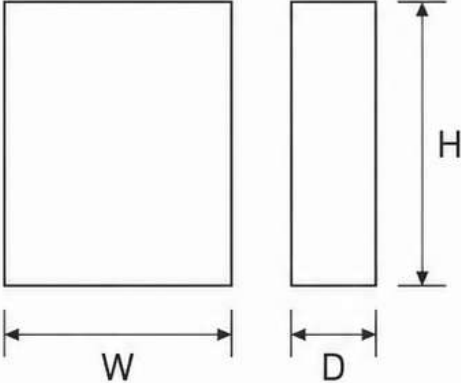
TECHNICAL PARAMETERS



Performance

Control step	4, 6, 8, 10, 12, 16
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 Measure reactive power	0-9999 kvar
 Sensitivity	60mA
 Static Output contact capacity	AC 220V 7A
 dynamic Output contact capacity	12V/10mA
 Display power factor	Lag: 0.001-lead: 0.001

Dimension(WxH)	DimensionWxHxD(mm)	Hole dimensionWxH(mm)
	144x144x87	140x140