



VAREL
Power Quality

ALT6R - ALT66

from 450 to 500 kVAr



Automatic power factor correction equipment model ALT Low health, with frame colour RAL 7035 at folded and galvanized steel base. The system is equipped with disconnecting door switch, microprocessor RDM 6 Standard controller with 6 outputs, THDI control, temperature control, controlling ventilation, fixed battery option, contact for remote reporting of cumulative alarm signal. Product consisting of modular withdrawable drawers each with contactors for capacitors with insertion resistors inrush current limiting with early contact. Battery protection fuses composed of three-phase cylindrical capacitors. Blocking reactors made of oriented Crystal lamination sheets, high linearity and tuning to 189 Hz. Indoor floor installation and cables from the bottom with large openings.



DATA EQUIPMENT

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		kVAr effective 400V	kVAr 450V	Batteries to 450V
Reactive Power		383 425	450 500	50-50-50-100-100-100 50-50-100-100-100-100
Degree of protection	IP	30 (on request 54)		
Three-phase power supply, Un	V	400 (other voltage on request)		
Rated frequency	Hz	50		
Auxiliary circuits voltage	V	400 (on request 110V 230V)		
Ambient temperature limits min-max	°C	-15°C ÷ +35°C		
Dimensions (HxWxD)	mm	1225 x 1370 x 600		
Ventilation	—	Forced with fans positioned on the roof		
Protection fuse battery	—	Type NH00 category gG		
Cable entry	—	Bottom		

DATA REGULATOR RDM 6 Standard

N° of batteries controller	N°	6
Control Batteries	—	Manual / Automatic
Allarm	—	Overvoltage, Overcurrent, Over, Undercompensation, Overtemperature, THDI%
Display	—	LCD 2 lines 16 characters backlight display
Parameters displayed on the display	—	Voltage, Current, Cos φ, Δ kVAr
Electrical quantities measured	—	Voltage, Current, Cos φ, 2 or 4 quadrant mode
Power factor adjustment	—	0,85 ind. – 0,95 cap.
Range primary current transformer	A	5-10.000
Reactive power capacitor bank	kVAr	0,1 – 6500
Sensitivity adjustment	s	5 – 100
Reconnection time	s	5 -240
Range capacitor voltage	V	100 – 1000
Contact arrangement alarm	—	1 contact NO-NC
Alarm relay contacts capacity	—	8A - 250V (AC)
Power	VA	3

DATA CHOKES

Tuning frequency	Hz	189
Degree of inductance	%	7
Temperature class	—	F
Overtemperature protection	—	Thermistor NC

DATA CAPACITORS

		ALT6R....	ALT66.....
Type capacitor installed	—	ST Three-phase	AT Three-phase
Rated voltage capacitor	V	450	440
Losses dielectric	W/kVAr	≤0,2	≤0,2
Class of temperature	—	-25D	-40D
Inrush current	A	200xIn	400xIn
Overcurrent	A	4 x In	1,5 ÷ 2 x In
Statistical life expectancy	h	130.000 (-25/C) 110.000 (-25/D)	150.000 (-40/D)
Altitude max	m	≤ 2000 above sea level	≤ 4.000 above sea level
Dielectric system	—	MKP metallised polypropylene stronger	MKP metallised polypropylene stronger
Impregnation	—	Dry resin	Dry type inert gas AZOTO N2
Discharge resistor	—	50V - 60 s	50V - 60s
Safety features	—	Overpressure disconnecter	Overpressure disconnecter
Standard	—	CEI EN 61921, CEI EN 60439-1, CEI EN 60831-1	