

AZHYAR.673623.009 TU

Commercially produced capacitors. Available to order.



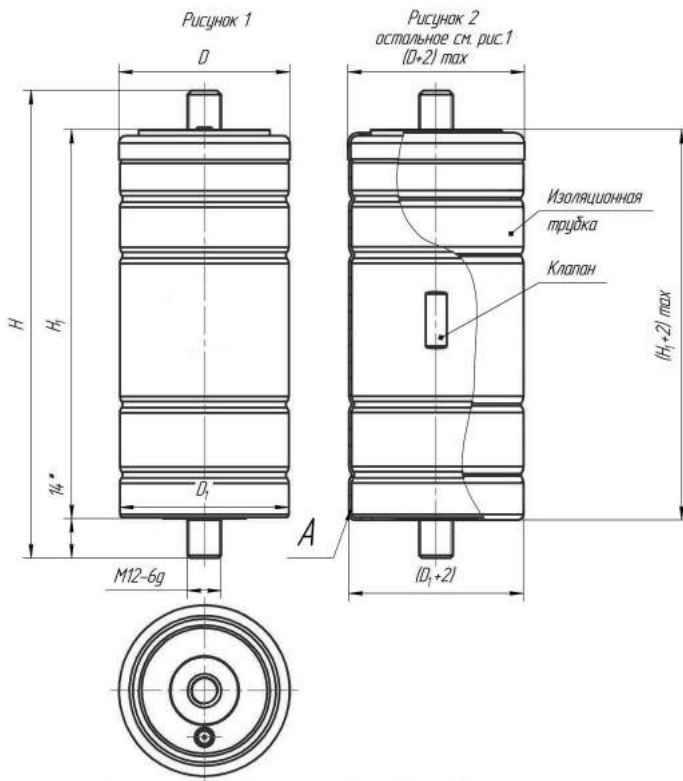
APPLICATION

- ✓ Maintaining of the equipment operation when voltage depression occurs;
- ✓ Safely shutdown of machineries;
- ✓ Maintaining "a bridge" when switching between the power supplies;
- ✓ Providing high discharging current in the equipment;
- ✓ Rapid electrical energy accumulation and further providing to the grid;
- ✓ Providing temporary electricity power for equipment while operating in autonomous mode;
- ✓ As an energy storage device in difficult remote equipment;
- ✓ As an power supply in single-use system;
- ✓ To improve the operational reliability of the equipment;
- ✓ Are used together with chemical and other current sources to extend the service life;

MAIN PARAMETERS

Name	Value
Rated voltage, V	2.7
Rated capacitance, F	680; 1 000; 1 500; 2 200; 3 300; 4 700
Capacitance tolerance, %	+50...-20; ±20
Maximum operating temperature Tenv, °C	65
Minimal operating temperature Tenv, °C	-60
Maximum-permissible overvoltage, V	2.85

DIMENSIONAL DRAWING OF CAPACITOR



CAPACITORS OVERALL DIMENSIONS AND MASS

U _r , V	C _r , F	Size DxH, mm	Mass, g
2.7	680	60x80	280
2.7	1 000	60x102	340
2.7	1 500	60x113	400
2.7	2 200	60x130	500
2.7	3 300	60x166	600
2.7	4 700	60x232	800

CASE PROTECTION

Climatic version	Lacquer coating	Jacketing with insulating tube	Figure
Capacitors are intended for internal wiring with resistance to high humidity of 98% at the temperature 25°C	-	-	1
Capacitors are intended for internal wiring with resistance to high humidity of 98% at the temperature 25°C	-	+	2
Capacitors are intended for internal wiring with resistance to high humidity of 98% at the temperature 35°C	+	-	2
Capacitors are intended for internal wiring with resistance to high humidity of 98% at the temperature 35°C	+	+	2

CAPACITOR ELECTRIC PARAMETERS VALUE

U_R , V	C_R , F	Size DxH, mm	I_{LEAK} , mA T=25°C, 72h	Maximum charging and discharging current, A (discharge within 1sec. from U_R to $\frac{1}{2}U_R$)	Stored energy, Wh	Specific stored energy, Wh/kg	Specific output, W/kg
2.7	680	60x80	2.7	45	0.689	2.46	111.58
2.7	1 000	60x102	3	60	1.013	2.98	122.52
2.7	1 500	60x113	4.2	70	1.519	3.8	121.5
2.7	2 200	60x130	6	90	2.228	4.46	124.97
2.7	3 300	60x166	10	500	3.341	5.57	145.8
2.7	4 700	60x232	20	500	4.759	5.95	136.69

CAPACITORS RELIABILITY

Reliability Operation modes	t_λ , hours	t_λ , cycles	λ , 1/hour, max
Maximum-permissible mode (U_R , Tenv=65°C)	1 500		5×10^{-5}
Maximum-permissible mode (charge to U_R , discharge to $\frac{1}{2} U_R$, Tenv=65°C)		30 000	3×10^{-6}
Typical operating mode (U_R , Tenv=25°C)	90 000		1×10^{-6}
Typical operating mode (charge to U_R , discharge to $\frac{1}{2} U_R$, Tenv=25°C)		500 000	3×10^{-7}

Gamma-rated time of capacitor storageability T_{cy} at $\gamma=95\%$, 25 years

EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K58-31 – 2.7V – 3300 F (+50-20)% – AZHYAR.673623.009 TU

CAPACITOR K58-31 – 2.7V – 4700 F $\pm 20\%$ – I AZHYAR.673623.009 TU

CAPACITOR K58-31 – 2.7V – 3300 F $\pm 20\%$ – B AZHYAR.673623.009 TU

CAPACITOR K58-31 – 2.7V – 4700 F (+50-20)% – IB AZHYAR.673623.009 TU

