EPCOS

Motor run

Construction

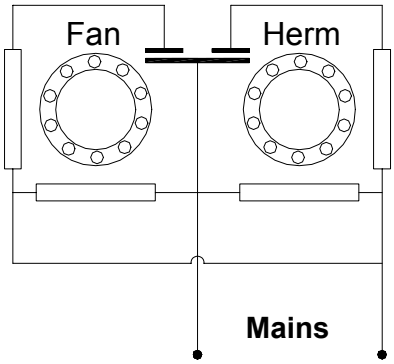
- Dielectric: polypropylene film
- Aluminum can
- Soft polyurethane resin

Features

- Self-healing properties
- Low dissipation factor
- Overpressure disconnector
- High insulation resistance

Typical applications

For general sine wave applications,
mainly as motor run capacitor for room air conditioner units



Terminals

- Double fast on 6,3 x 0,8 mm and Quadruple fast on 6,3 x 0,8 mm

Mounting parts

- Metal stud (max. torque = 5 Nm)

Technical data and specifications

Standard	IEC / EN 60252
Rated capacitance C_N	15+2 ... 50+8µF
Tolerance	± 5%, ± 6%, ±10%
Rated voltage U_N	380 ... 440 Vac
Rated frequency f_N	50...60 Hz
Life expectance	30.000 h (class A)
Maximum ratings	
Maximum permissible voltage U_{max}	1,1 x U_N (U_n = Rated voltage)
Maximum permissible current I_{max}	1,3 x I_N (I_n = Rated current)
Test data	
AC test voltage terminal to terminal U_{TT}	2 x U_N, 60s.
Insulation voltage terminals to case	2000 Vac, 60s.
Insulation resistance R_{is} or time constant at τ 20 °C Rel. Humidity ≤ 65 °C (minimum value)	3000 s
Dissipation factor tanδ at 20 °C	≤ 1,0 x10^{-3} (120 Hz)
Maximum rate of voltage rises du/dt_{max}	10 V/µs

Technical data (cont`d)

Climatic data	
Climatic category	25/085/21 according to IEC 60068-1
Lower category T_{min}	-25 °C
Upper category T_{max}	+85 °C
Damp heat test t_{test}	21 days
Permitted capacitance $\Delta C/C$	≤ 3 %

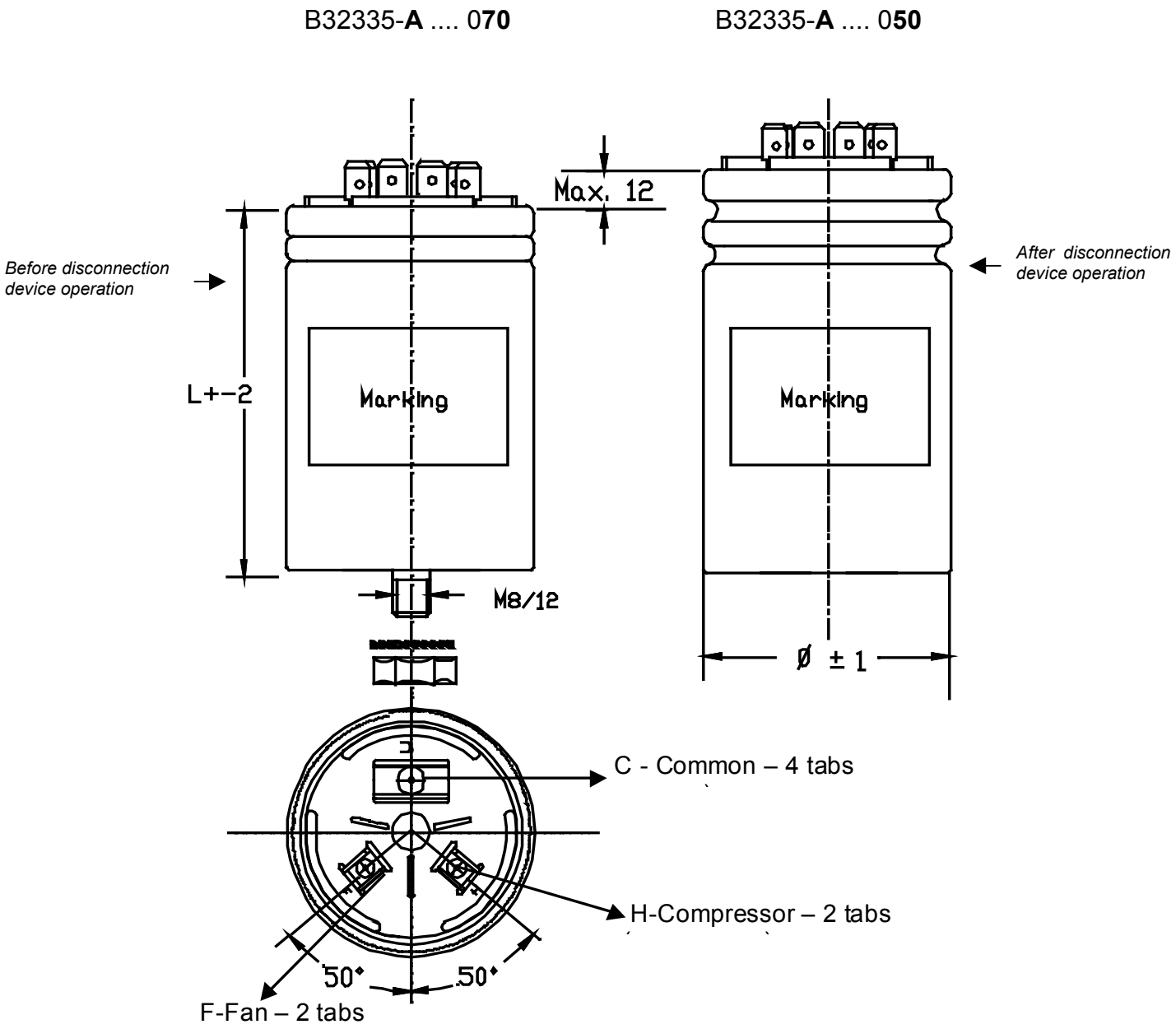
Approved marks

UL810
10000 AFC

Notes :

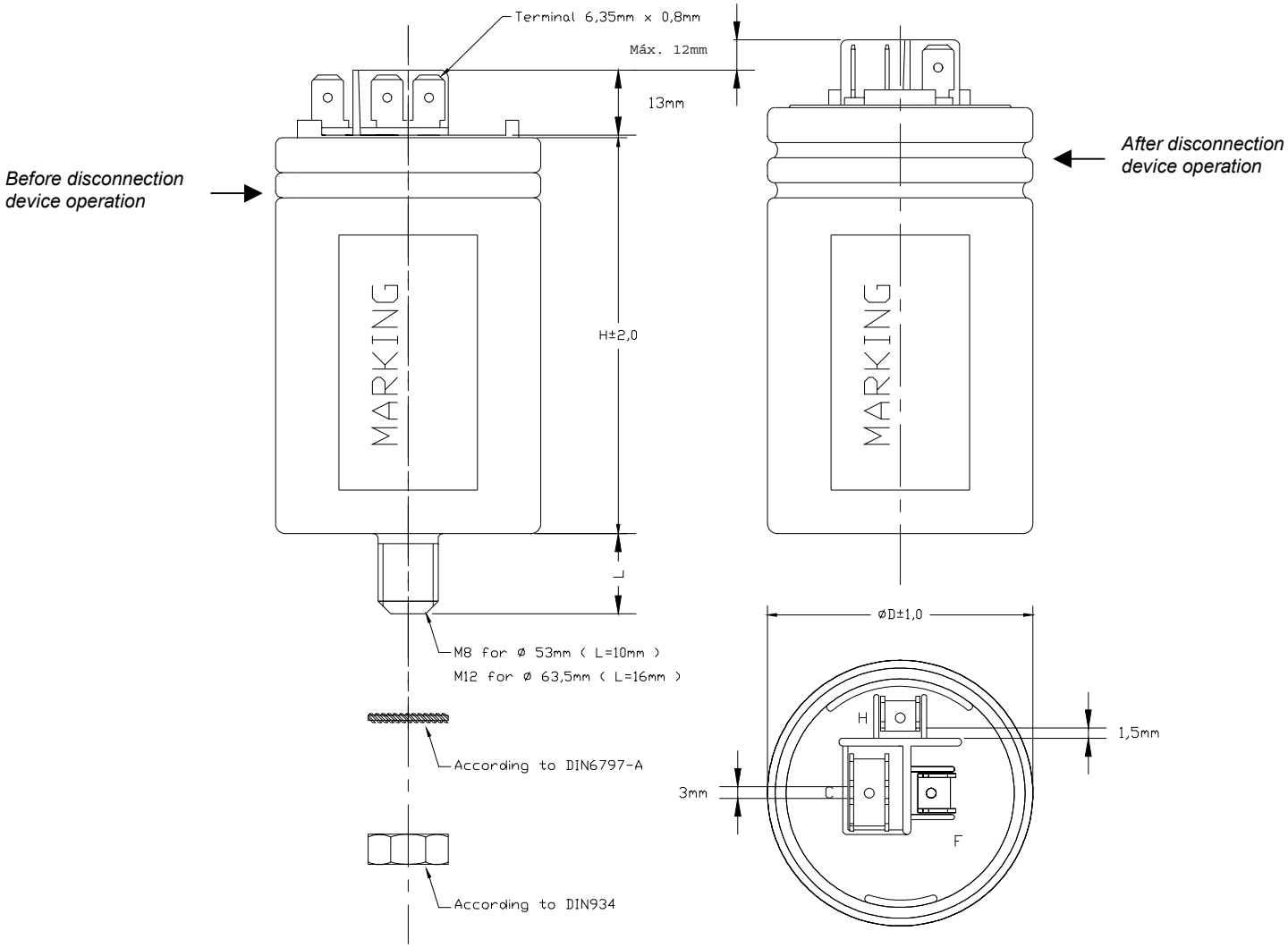
1) It should be noted that presence of harmonics produces over voltage & over current on capacitors. Resonance may cause serious damage to installation if a significant level of total harmonic distortion level exists for voltage or current. In such cases, series reactors must be considered.
2) Operating temperature class: in accordance with the reference standards, these temperatures are those measured on the surface on the capacitor.

Dimensional drawings (from EIPL)



Dimensional drawings (From Icotron)

B32335-**B**... 0**70** B32335-**B**... 0**50**



Ordering codes and packing units

U_N Vac	C_N µF	Max. dimensions d x l (mm)	Ordering code B32335-*	Packing units
380	15+2	53 x 68	3020-+0**	32
	15+2.5	53 x 68	3076-+0**	32
	15+3	53 x 68	3021-+0**	32
	15+4	53 x 68	3022-+0**	32
	15+5	53 x 68	3023-+0**	32
	17.5+2.5	53 x 68	3077-+0**	32
	17.5+4	53 x 68	3024-+0**	32
	17.5+5	53 x 68	3025-+0**	32
	20+2	53 x 68	3027-+0**	32
	20+2.5	53 x 68	3057-+0**	32
	20+3	53 x 68	3028-+0**	32
	20+4	53 x 68	3050-+0**	32
	20+5	53 x 68	3029-+0**	32
	22+5	53 x 80	3030-+0**	32
	25+2	63.5 x 68	3031-+0**	28
	25+2.5	53 x 80	3054-+0**	32
	25+3	53 x 80	3032-+0**	32
	25+4	53 x 80	3033-+0**	32
	25+5	53 x 80	3034-+0**	32
	25+7.5	53 x 80	3019-+0**	32
	25+8	53 x 80	3051-+0**	32
	25+9.5	53 x 80	3053-+0**	32
	25+10	53 x 85	3056-+0**	32
	25+15	53 x 105	3098-+0**	32
	30+2	53 x 80	3035-+0**	32
	30+3	53 x 80	3073-+0**	32
	30+4	53 x 80	3036-+0**	32
	30+5	53 x 80	3037-+0**	32
	30+7.5	53 x 85	3066-+0**	32
	30+10	53 x 85	3038-+0**	32

U_N [Vac]	C_N [µF]	Max. dimensions d x l [mm]	Ordering code B32335-*	Packing units
380	30+12	53 x 105	3072-+0**	32
	30+15	53 x 105	3067-+0**	32
	35+2	63.5 x 68	3081-+0**	28
	35+3	53 x 80	3059-+0**	32
	35+4	53 x 105	3039-+0**	32
	35+5	53 x 105	3040-+0**	32
	35+6	53 x 105	3085-+0**	32
	35+8	53 x 105	3058-+0**	32
	35+9.5	53 x 105	3052-+0**	32
	35+10	53 x 105	3041-+0**	32
	35+12	53 x 105	3079-+0**	32
	35+15	53 x 105	3074-+0**	32
	40+4	53 x 105	3090-+0**	32
	40+5	53 x 105	3042-+0**	32
	40+7.5	53 x 105	3086-+0**	32
	40+8	53 x 105	3047-+0**	32
	40+10	53 x 105	3043-+0**	32
	40+12	53 x 105	3075-+0**	32
	40+15	53 x 105	3078-+0**	32
	45+4	63 x 80	3106-+0**	28
	45+5	53 x 105	3044-+0**	32
	45+8	53 x 105	3071-+0**	32
	45+10	53 x 105	3045-+0**	32
	50+4	63.5 x 86	3046-+0**	28
	50+5	53 x 105	3048-+0**	32
	50+8	53 x 105	3049-+0**	32

Motor run

U_N [Vac]	C_N [µF]	Max. dimensions d x l [mm]	Ordering code B32335-*	Packing units
440	15+2	53 x 68	5020-+0**	32
	15+5	53 x 80	5023-+0**	32
	17,5+3	53 x 80	5130-+0**	32
	20+1,5	53 x 80	5108-+0**	32
	20+2	53 x 80	5027-+0**	32
	20+3	53 x 80	5028-+0**	32
	20+4	53 x 80	5050-+0**	32
	20+5	53 x 80	5029-+0**	32
	22+5	53 x 80	5030-+0**	32
	25+1,5	53 x 80	5109-+0**	32
	25+2.5	53 x 80	5054-+0**	32
	25+4	53 x 105	5033-+0**	32
	25+5	53 x 105	5034-+0**	32
	25+8	53 x 105	5051-+0**	32
	30+3	53 x 105	5073-+0**	32
	30+4	53 x 105	5036-+0**	32
	30+5	53 x 105	5037-+0**	32
	30+8	53 x 105	5080-+0**	32
	30+12	53 x 105	5072-+0**	32
	30+15	63.5 x 105	5067-+0**	28
	35+5	53 x 105	5040-+0**	32
	40+3	53 x 105	5091-+0**	32
	40+4	53 x 105	5090-+0**	32
	40+10	63.5 x 105	5043-+0**	28

Notes for ordering code:

1. Replace * for the version, A (Epcos India design) or B (Icotron design), according to the drawings on pages 3 and 4
2. Replace + for capacitance tolerance: - J- ±5%, E- ±6%, K- ±10%
3. Replace ** for can
   - 50 - Aluminum can
   - 70 - Aluminum can with stud
     - M 8 fixing threaded bolt for ≤ ϕ 53mm.
     - M12 fixing threaded bolt for ϕ 63.5mm.

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