

AC Film Capacitors

B 32335

Motor run

Construction

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

Features

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

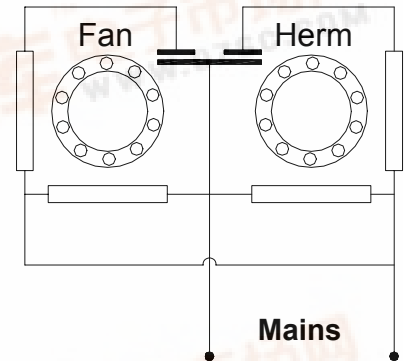


Typical applications

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+8 $\mu$ F
Tolerance	$\pm 5\%$ , $\pm 6\%$ , $\pm 10\%$
Rated voltage $U_N$	380 ... 440 Vac
Rated frequency $f_N$	50...60 Hz
Life expectancy	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 $\tau$ 20 °C	3000 s
Rel. Humidity $\leq 65$ °C (minimum value)	
Dissipation factor $\tan\delta$ at 20 °C	$\leq 1,0 \times 10^{-3}$ (120 Hz)
Maximum rate of voltage rises $du/dt_{max}$	10 V/ $\mu$ s

Motor run

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 $t_{\text{test}}$	21 days
Permitted capacitance $\Delta C/C$	$\leq 3 \%$

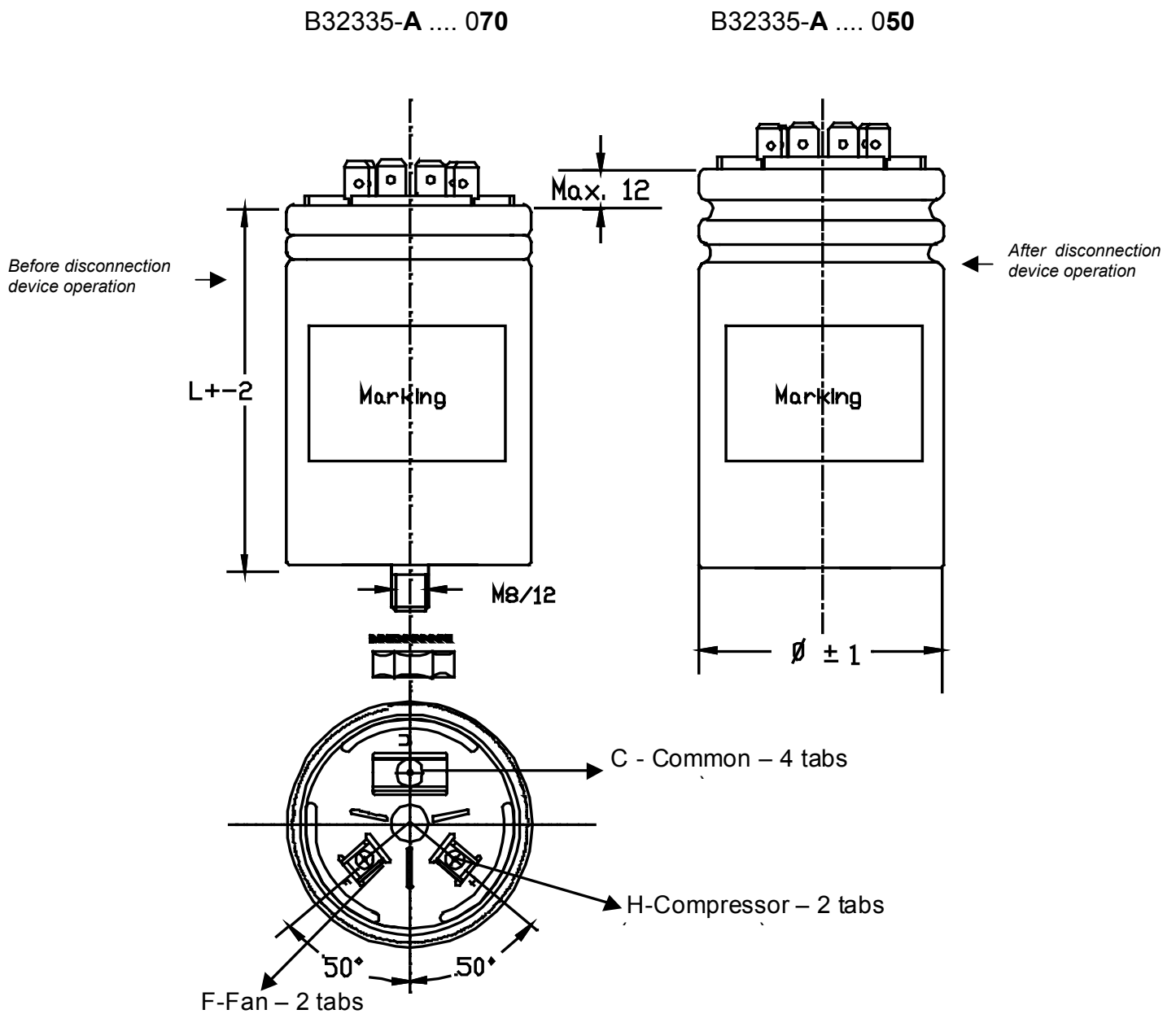
Approved marks



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.

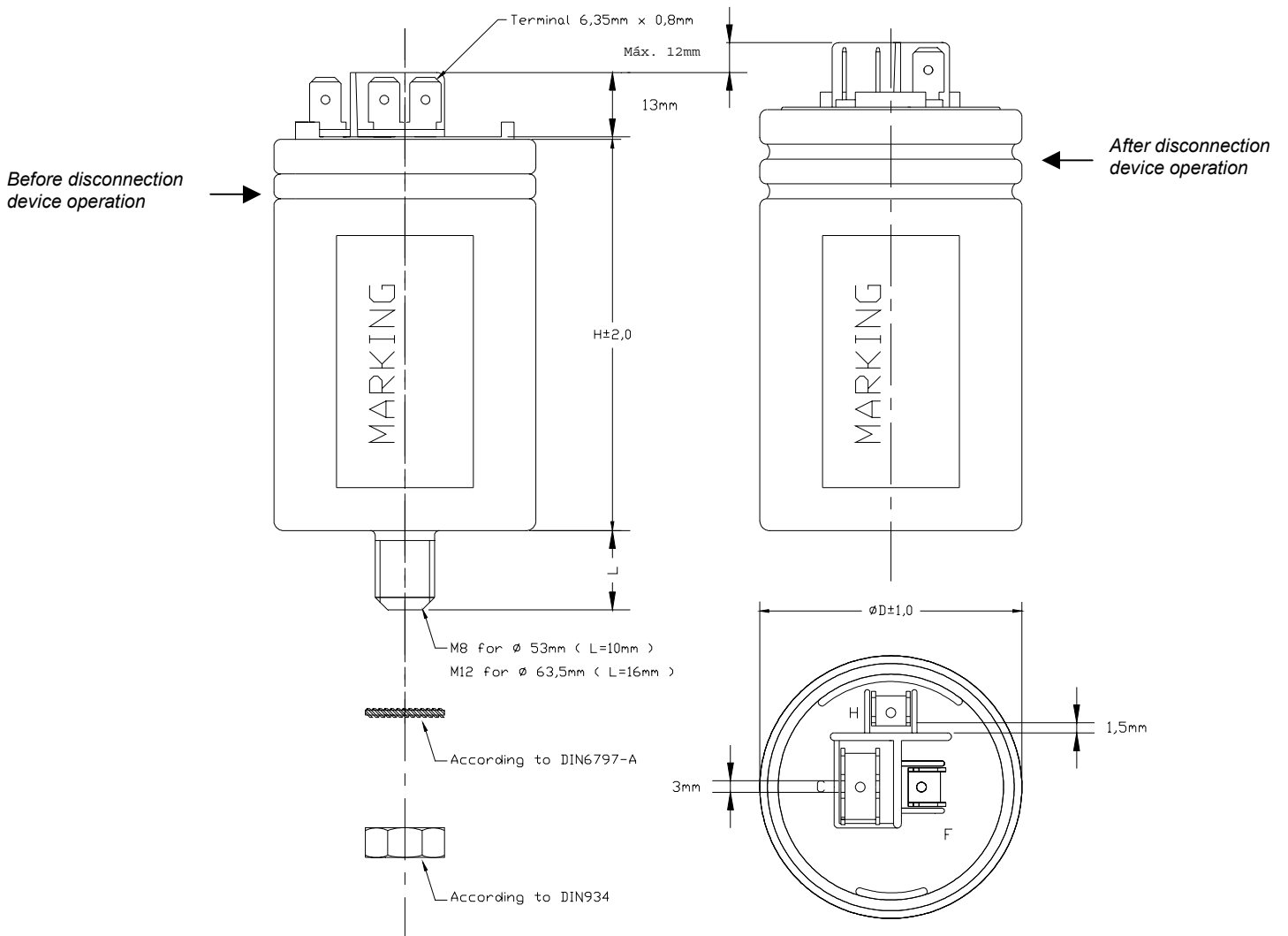
Dimensional drawings ( from EIPL)



Dimensional drawings ( From Icotron)

B32335-B... 070

B32335-B... 050





Motor run

Ordering codes and packing units

U <sub>N</sub> Vac	C <sub>N</sub> 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



Motor run

U <sub>N</sub> [Vac]	C <sub>N</sub> [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	


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U <sub>N</sub> [Vac]	C <sub>N</sub> [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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