



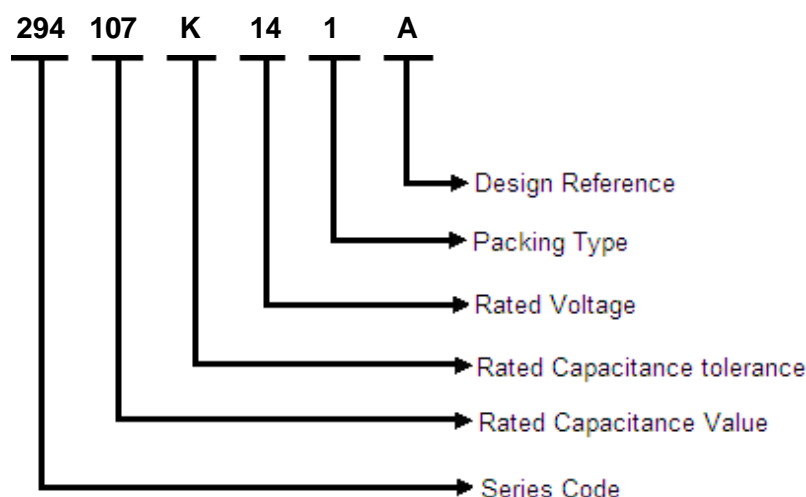
Power Electronic Capacitors

SERIES TYPE: METALLIZED POLYPROPYLENE AC FILTER CAPACITOR-Single phase

Series Code: 294

Date: November 2024

Item Code Description



Rated Capacitance

Three-digit (224) indicate rated capacitance in Pico Farad (First two digits indicate value & third digit indicates Number of zeroes to be suffixed to first two digits).

For example:

103 = 10 × 10 ³	= 10000 pF	= 10 nF	= 0.01 μF
104 = 10 × 10 ⁴	= 100000 pF	= 100 nF	= 0.1 μF
105 = 10 × 10 ⁵	= 1000000 pF	= 1000 nF	= 1 μF
106 = 10 × 10 ⁶	= 10000000 pF	= 10000 nF	= 10 μF

Capacitance Tolerance

F = ±1%, G = ±2%, H = ±2.5%, I = ±3.5%, J = ±5%, K = ±10%, L = ±15%, M = ±20%, N = ±40%

Rated Voltage

One digit and one letter (2A) or two digits (05) indicate rated voltage

Rated Voltage Codification

For AC Rated Voltage(V _{RMS})													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
190	250	275	305	310	440	500	600	700	63	230	330	400	450
15	16	17	18	19	20	21	22	23	24	25	26	27	
350	300	415	420	460	480	530	660	720	780	850	900	1000	

General data

Typical Application

- UPS
- Wind Power
- Variable Frequency Drives
- Inverter

Construction

- Dielectric: Metallized Polypropylene Film
- Self-Healing Property
- Wound capacitor Technology
- Aluminum can
- Mounting and Grounding: Stud on bottom of Can
- Non PCB, Soft Polyurethane resin

Features

- Compact size
- Low Loss
- Low ESR and ESL
- Low leakage current
- Safety device: Over Pressure disconnecter
- IP00, IP20

Reference Standard

- IEC 61071, IEC 60831

Climatic Category

- 40/70/21

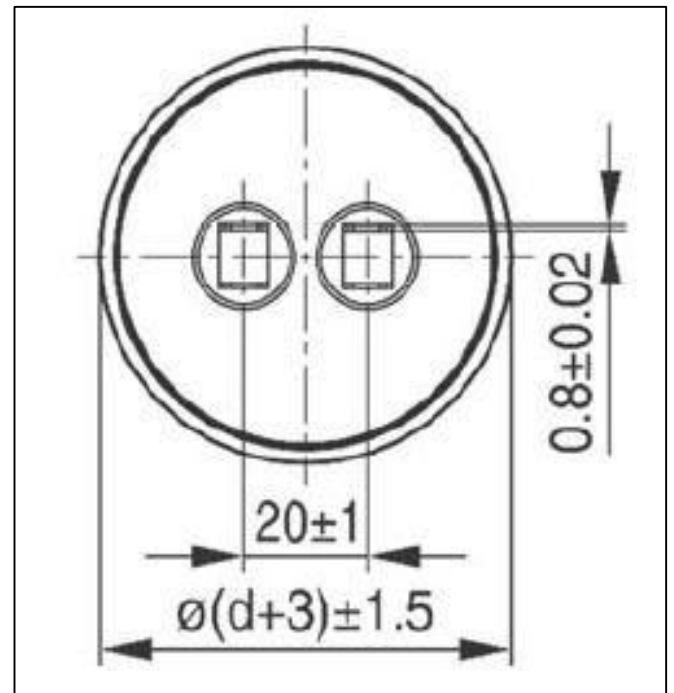
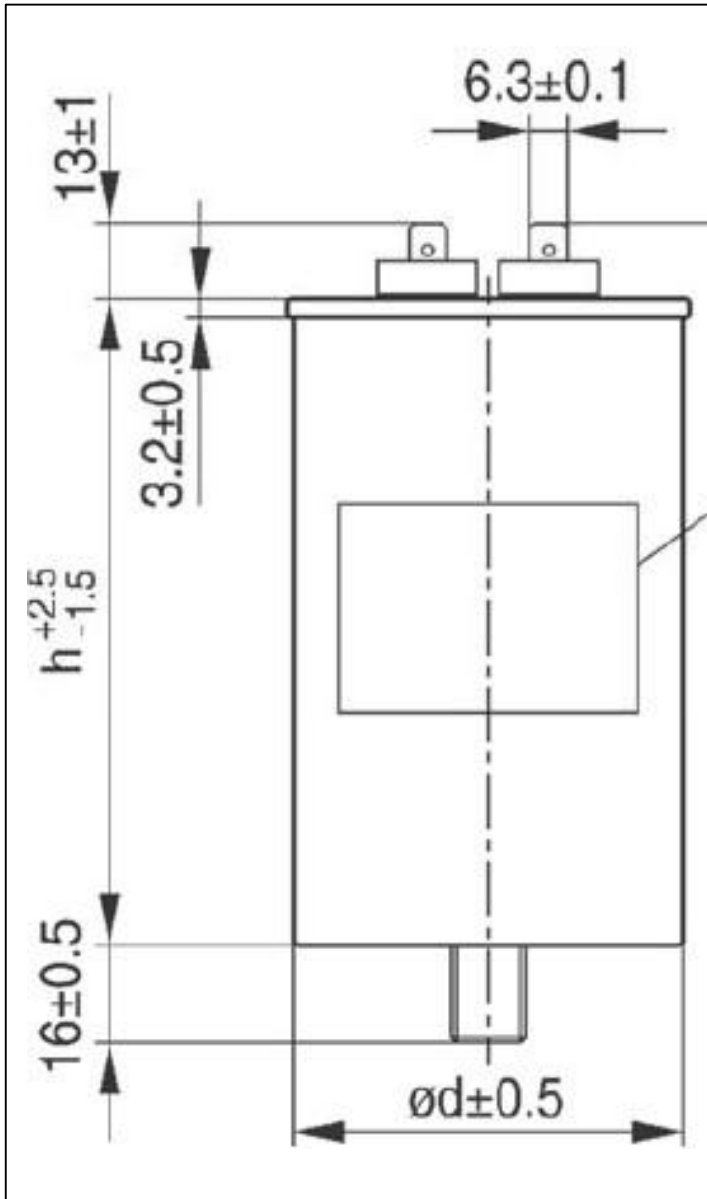
Terminals

- 294 series: Faston Terminals

Technical data

Max. Operating Temperature	+70°C
Min. Operating temperature	-40°C
Max. Hotspot temperature	+85°C
Rated Capacitance CR	5..600µF (Upon request)
Rated Voltage VR	Upto 1000V AC
Voltage proof(VT-T)	2.15xVRMS, 2s
Voltage proof(VT-C)	4000VAC for 10 sec
Dissipation factor tan δ (100Hz)	≤0.001
Life Test	Acc. To IEC 61071-2017
Tolerance	J, ±5%
Degree of Protection	IP00, IP20
Max. permissible altitude	2000m MSL
Safety device	Over pressure disconnecter
Max. current(IRMS)	Refer to the chart
Self Inductance(ESL)	Refer to the chart
Service Life at VRMS @ 85°C Hotspot	100000Hrs*

*For conversion at different hotspot temperature and Voltage please see graph



Series 294: Faston terminals with bottom stud for mounting

Installation Space requirements:

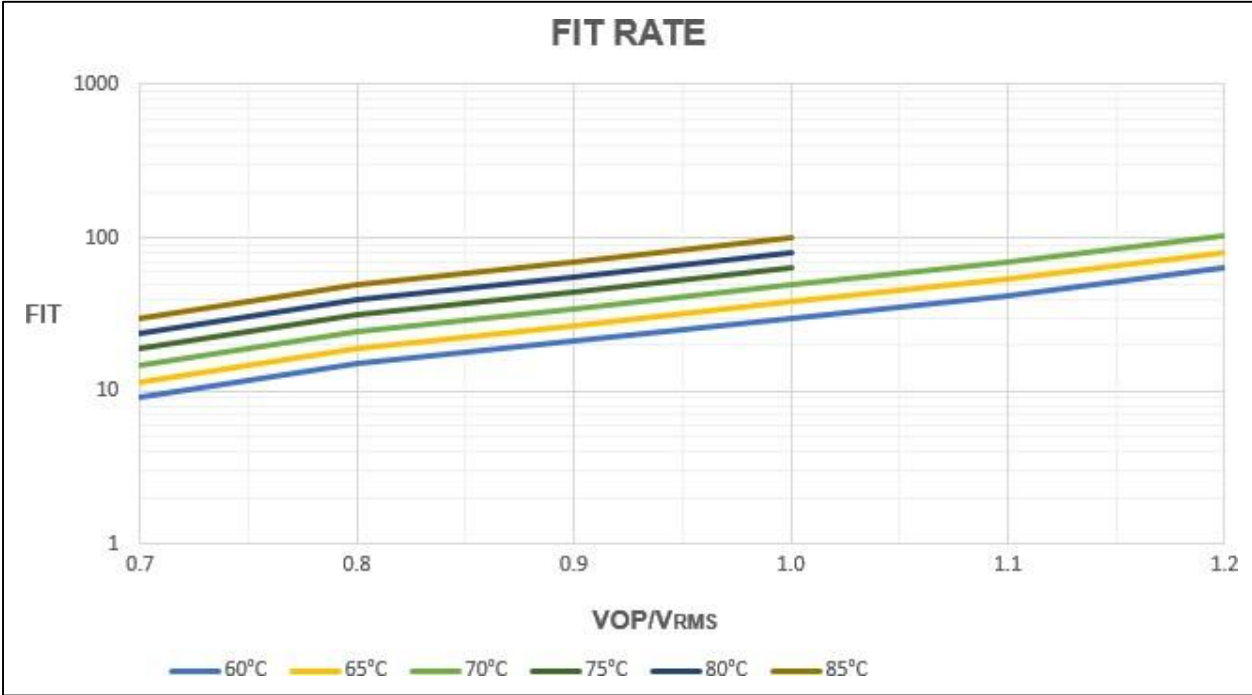
- A minimum distance of 20 mm between the capacitors is necessary to maintain cooling.
- Keep at least 20 mm space above the capacitor and do not attach any mounting components at the crimp or on top to allow proper lateral extension in order to ensure that the over pressure disconnecter can fully extend.

Series 294- Faston terminals

VR/VRMS (V)	CR(μF)	Irms (A)	Ipeak(kA)	D mm	H mm	Item Code
350/250	30	15	750	50	64.5	294 306 J 02 1 *
	40	15	900	50	64.5	294 406 J 02 1 *
	50	15	900	50	77.5	294 506 J 02 1 *
	60	15	1000	50	77.5	294 606 J 02 1 *
	70	15	1300	63.5	77.5	294 706 J 02 1 *
	75	15	1340	63.5	77.5	294 756 J 02 1 *
	80	15	1500	63.5	77.5	294 806 J 02 1 *
	100	15	1600	63.5	77.5	294 107 J 02 1 *
	120	15	1500	63.5	92.5	294 127 J 02 1 *
	140	15	1520	63.5	102.5	294 147 J 02 1 *
	150	15	1600	63.5	102.5	294 157 J 02 1 *
460/330	20	14	600	50	64.5	294 206 J 12 1 *
	25	15	750	50	64.5	294 256 J 12 1 *
	30	15	650	50	77.5	294 306 J 12 1 *
	40	15	800	50	92.5	294 406 J 12 1 *
	50	15	840	50	92.5	294 506 J 12 1 *
	60	15	790	50	102.5	294 606 J 12 1 *
	70	15	1000	63.5	92.5	294 706 J 12 1 *
	80	15	1150	63.5	102.5	294 806 J 12 1 *
	100	15	1050	63.5	127.5	294 107 J 12 1 *
	120	15	1150	63.5	137.5	294 127 J 12 1 *
	590/420	20	14	520	50	77.5
30		15	1150	63.5	64.5	294 306 J 18 1 *
40		15	1030	63.5	77.5	294 406 J 18 1 *
50		15	1060	63.5	87.5	294 506 J 18 1 *
60		15	1000	63.5	102.5	294 606 J 18 1 *
70		15	870	63.5	127.5	294 706 J 18 1 *
80		15	990	63.5	127.5	294 806 J 18 1 *
100		15	1120	63.5	137.5	294 107 J 18 1 *
680/480	10	10.5	400	50	64.5	294 106 J 20 1 *
	15	12.5	600	50	77.5	294 156 J 20 1 *
	20	14	600	50	87.5	294 206 J 20 1 *
	25	15	500	50	102.5	294 256 J 20 1 *
	30	15	600	50	102.5	294 306 J 20 1 *
	40	15	750	63.5	102.5	294 406 J 20 1 *
	50	15	950	63.5	102.5	294 506 J 20 1 *
	60	15	850	63.5	127.5	294 606 J 20 1 *
	70	15	1000	63.5	137.5	294 706 J 20 1 *
750/530	10	10.5	450	50	64.5	294 106 J 21 1 *
	20	15	910	63.5	77.5	294 206 J 21 1 *
	30	15	650	63.5	102.5	294 306 J 21 1 *
	40	15	850	63.5	102.5	294 406 J 21 1 *
	50	15	800	63.5	127.5	294 506 J 21 1 *
	60	15	870	63.5	137.5	294 606 J 21 1 *
850/600	10	12.5	520	63.5	64.5	294 106 J 08 1 *
	20	15	750	63.5	77.5	294 206 J 08 1 *
	30	15	730	63.5	102.5	294 306 J 08 1 *
	40	15	720	63.5	127.5	294 406 J 08 1 *
	45	15	800	63.5	137.5	294 456 J 08 1 *

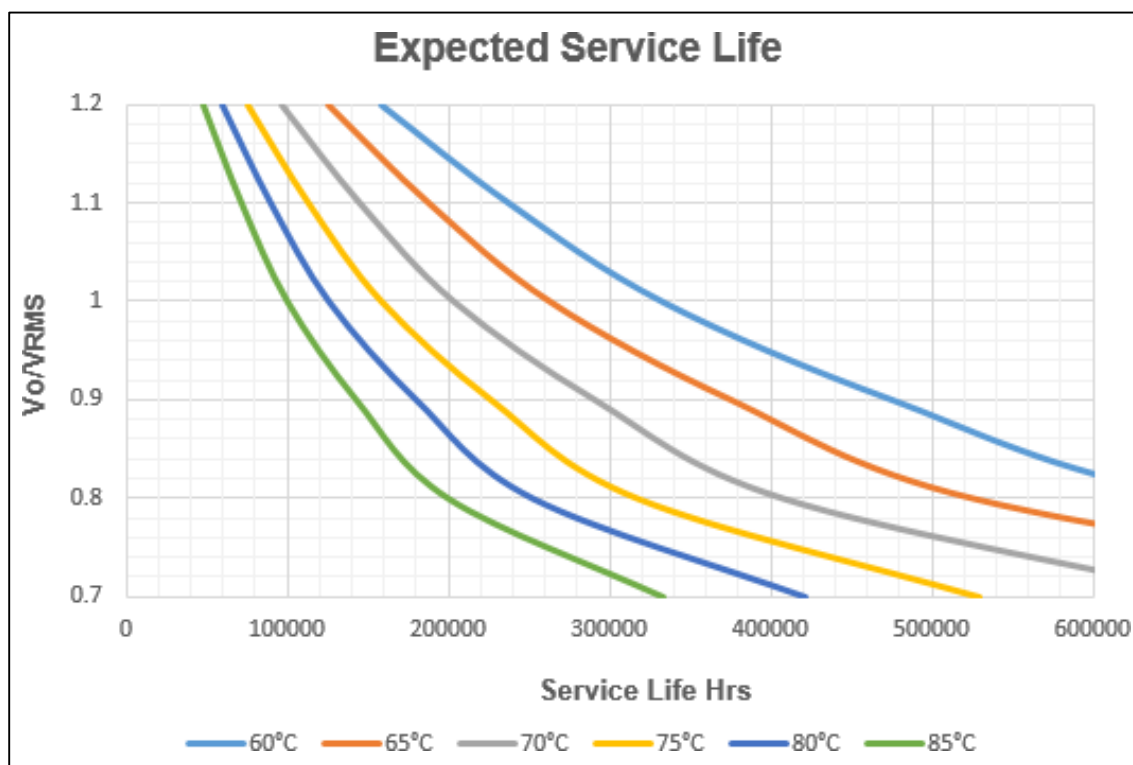
Expected FIT Rate at different hotspot temperature and Voltage

The Expected Failure rate are typical theoretical values derived from lifetime tests. The FIT (Failure in Time) of a component is defined as the number of expected failures in 10^9 hours of operation.



Service life expectancy at different hotspot temperature and Voltage

Lifetime estimations are typical theoretical values derived from lifetime tests based on Deki's internal standards and IEC 61709.



Disclaimer

All our capacitors are designed, manufactured and tested to specifications. We strictly adhere to standards in procurement of materials, in the laid down manufacturing processes and consistently apply stringent process controls and testing parameters. This ensures that our capacitors always perform to the offered specifications. Appropriateness of use in a specific circuit and fitness to a particular application however needs to be verified and its reliability through expected lifetime is required to be validated by the customer. Deki's responsibility is limited to ensuring that the capacitor performs as claimed in the specification/ data sheets provided by Deki. Deki specifically disclaims any implied warranties of fitness for any particular purpose. Liability, in any case is limited to the price paid for the capacitors.