

FX2 Series (Warranty of 5,000 hours at 85°C)

Features

- Developed specially for the demand of higher voltage with compact size.
- The size is reduced by around 14% of conventional FXA type through development of electrolyte liquid.
- 500V and 550V added in the series.



Product Specifications

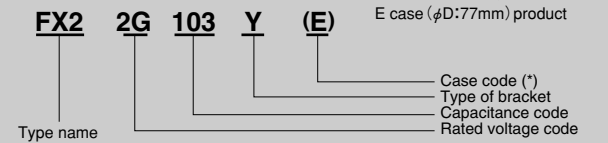
Items	Specifications
Temperature range	-40°C~+85°C
Capacitance tolerance	±20% (20°C,120Hz)
Rated voltage	400~550V.DC
Leakage current	0.01 CV (μA) or 5 mA, whichever is smaller or less [C = nominal capacitance (μF), V = rated voltage (V)]
Dissipation factor	400, 450 V DC ... 0.15 or less (20°C, 120 Hz) 500, 550 V DC ... 0.20 or less (20°C, 120 Hz)
Permissible ripple current	As per the following "Standard value and case size". (85°C, 120 Hz)
High-temperature load	After the rated voltage (specified ripple current convolution) is applied at 85°C for 5000 hours: Capacitance tolerance: ±15% or less of the initial value Dissipation factor: 175% or less of the specified initial value Leakage current: Specified initial value or less
Others	JIS C 5101-4.

Ripple current correction coefficient

Temperature (°C)	40	60	85		
Correction coefficient	1.89	1.67	1.00		
Frequency (Hz)	50/60	120	300	1K	≥10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4

Ripple current should be under 60Arms at M5 (100Arms at M6 for G case) in accordance with from the permissible current.
120Arms (M8 terminal, case code "G")

Product code : (Example) FX2 type 400V 10,000 μF±20%



* (), case code: Put the first English letter of case code into () in case there are two case sizes in the same CV value.

Standard value and case size

Capacitance		Rated voltage V.DC (Code)							
μF	Code	400 (2G)		450 (2W)		500 (2H)		550 (2L)	
1000	102							C13R	5.9
1200	122					C12R	6.2	D12R	6.8
						D10R	6.3		
1500	152					C13R	7.3	D13R	8.0
						D10R	7.1		
1800	182			C12R	7.6	D12R	8.3	E12R	8.7
2200	222	C12R	8.8	C13R	8.8	D13R	9.6	E13R	10.1
2700	272	C13R	10.2	D10R	9.5	E12R	10.7	E16R	12.0
3300	332	D10R	11.0	D12R	11.2	E13R	12.4	E16R	13.3
3900	392	D12R	12.8	D13R	12.8	E16R	14.4	F16R	15.5
4700	472	D13R	14.8	E12R	14.1	E17R	16.5	F17R	17.6
						F13R	15.8		
5600	562	E12R	16.2	E13R	16.2	E20R	19.0	F20R	20.3
						F16R	18.6		
6800	682	E13R	18.7	E16R	19.1	F17R	21.2	F24R	24.1
8200	822	E16R	22.0	E20R	23.0	F20R	24.5	G24R	27.3
				F13R	21.0	G18R	24.2		
10000	103	E20R	26.7	F17R	25.7	F24R	29.3		
		F13R	24.2			G20R	27.9		
12000	123	F16R	28.5	F20R	29.7	G24R	33.1		
				G18R	29.3				
15000	153	F20R	34.8	F24R	35.9				
				G20R	34.2				
18000	183	F24R	41.2	G24R	40.5				
22000	223	G24R	47.0						

Maximum ripple current (A) at 85°C, 120Hz

Case code

FXA Series (Warranty of 5,000 hours at 85°C)

Features

- Long-life and high-ripple series for inverter realized through adoption of high-reliability organic acid type electrolyte liquid and improvement of etched foil technology for high voltage and manufacturing process.



Product Specifications

Items	Specifications
Temperature range	-40°C ~ +85°C
Capacitance tolerance	±20% (20°C, 120Hz)
Rated voltage	350~450V.DC
Leakage current	0.01 CV (µA) or 5 mA, whichever is smaller or less [C = nominal capacitance (µF), V = rated voltage (V)]
Dissipation factor	0.15 or less (20°C, 120Hz)
Permissible ripple current	As per the following "Standard value and case size". (85°C, 120Hz)
High-temperature load	After the rated voltage (specified ripple current convolution) is applied at 85°C for 5000 hours: Capacitance tolerance: ±15% or less of the initial value Dissipation factor: 175% or less of the specified initial value Leakage current: Specified initial value or less
Others	JIS C 5101-4.

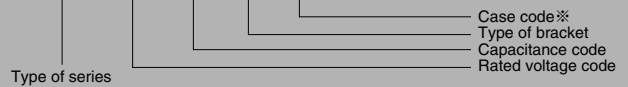
Ripple current correction coefficient

Temperature (°C)	40	60	85		
Correction coefficient	1.89	1.67	1.00		
Frequency (Hz)	50/60	120	300	1K	≥10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4

Ripple current should be under 60 Arms at M5 terminal in accordance with from the permissible current.

Product symbol : (Example) FXA Series 400V 47,000µF ±20%

FXA 2G 472 Y (D)



※ () Put first letter of case code to () in case there are two case sizes in the same CV value.

Standard value and case size

Capacitance µF	Code	Rated voltage V.DC (Code)					
		350 (2V)		400 (2G)		450 (2W)	
1000	102			C8R	5.0	C8R	5.0
1200	122	C8R	5.5	C8R	5.5	C10R	6.0
1500	152	C8R	6.1	C10R	6.7	C12R	7.2
1800	182	C10R	7.4	C10R	7.4	C13R	8.3
2200	222	C10R	8.2	C13R	9.2	D10R	9.0
2700	272	C13R	10.2	D10R	9.9	D12R	10.7
3300	332	C13R	11.3	D12R	11.8	D13R	12.4
3900	392	D12R	12.8	D13R	13.5	D16R	14.5
		-	-	-	-	E12R	13.6
4700	472	D13R	14.8	D16R	15.9	D20R	17.5
		-	-	E12R	14.9	E13R	15.6
5600	562	D16R	17.3	D20R	19.1	E16R	18.3
		E12R	16.3	E13R	17.0	-	-
6800	682	D20R	21.1	E16R	20.2	F16R	21.4
		E13R	18.8	-	-	-	-
8200	822	E16R	22.1	F16R	23.5	F16R	23.5
10000	103	F16R	25.9	F16R	25.9	F20R	28.3
12000	123	F16R	28.4	F20R	31.0	F24R	33.6
15000	153	F20R	34.6	F24R	37.5		
18000	183	F24R	41.1				

Case code

Maximum ripple current (A)
at 85°C, 120Hz