## (1/2)

# **EMC Components**

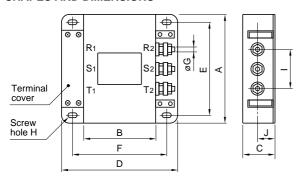
**EMC Filters for AC Power Supply** Cased (3-Phase, Mid-Size)

# **ZCW Series**

#### **FEATURES**

- · Superior performance and reliability. Outstanding attenuation of differential mode noise.
- · High current applications possible due to an SF coil equipped with a high magnetic flux dust core.
- · Leakage current limited to below 1mA.
- Can also be used with single-phase three wire type power.

## **SHAPES AND DIMENSIONS**



## **APPLICATIONS**

General control equipment, numerical control devices, computers, and other industrial equipment.



Dimensions in mm

Part No.	Α	В	С	D	E	F	øG	Н	I	J	
ZCW2210-01	150	100	40	160	132	132	M4	5	60	20	
ZCW2220-01	150	100	60	160	132	132	M4	5	60	26	
ZCW2230-01	220	100	80	160	200	132	M6	5	120	40	
ZCW2240-01	220	100	80	160	200	132	M6	5	120	40	
ZCW4240-02	220	110	80	220	200	200	M6	5.5	120	45	

Case:metal, terminal:stud type, terminal cover:metal

## **ELECTRICAL CHARACTERISTICS**

Part No.	ZCW2210-01	ZCW2220-01	ZCW2230-01	ZCW2240-01	ZCW4240-02	
Rated voltage Eac (V)	250	250	250	250	450	
Rated current (A)	10	20	30	40	40	
Test voltage Eac (V)[Between to	1500	1500	1500	1500	2000	
Insulation resistance (M $\Omega$ ) [DC.500V,1min/between terminal and case]		100min.	100min.	100min.	100min.	100min.
Leakage current (mA) [250V • 6	1max.	1max.	1max.	1max.	1max.*	
DC resistance (mΩ)	30max.	30max.	40max.	10max.	7max.	
Operating temperature range (°C) [Including self-temperature rise]		-10 to +85	–10 to +85	-10 to +85	-10 to +85	-10 to +85
With derating over(°C)		55	55	55	55	55
Temperature rise (°C)		40max.	40max.	40max.	40max.	40max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 20dB	0.2 to 30	0.2 to 30	0.2 to 30	0.2 to 30	3 to 20
	Differential mode at 40dB	0.5 to 20	0.5 to 20	0.5 to 20	0.5 to 20	0.6 to 15
Weight (kg)		1.3	1.9	4.6	4.6	5

<sup>\*</sup> The 1mA maximum leakage current of the ZCW4240-02 was determined at 450V, 60Hz.

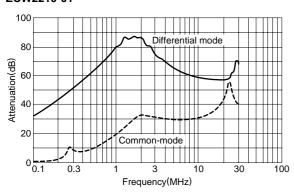
The 4 line type ZCW4240-02 is provided with N and G terminals.

# **EMC Components**

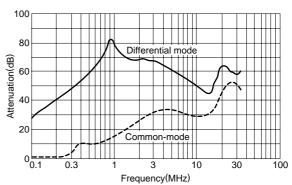
# **ZCW Series**

EMC Filters for AC Power Supply Cased (3-Phase, Mid-Size)

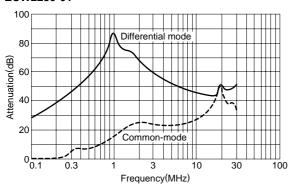
# TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS ZCW2210-01



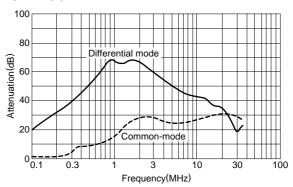
## ZCW2220-01



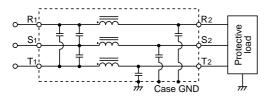
#### ZCW2230-01



#### ZCW4240-02



# CIRCUIT DIAGRAM ZCW-01 TYPE



# TYPICAL APPLICATIONS ZCW-01 TYPE

