

Description (Order ID) X382# 3x##µF ### ###VAC

Construction

Product Type	X382O/X382G
Dielectric	Metallized polypropylene, non-inductively wound
Encasement	Aluminum Round Can with integral M12 Mounting Stud
Terminals	Clamping yoke (SIGUIT)
Fill material	Rapeseed Oil or ASC Soft Gel
Fusing/ Protection†	P2 (Mechanical Pressure Interrupt)

Electrical Characteristics

Attribute	Symbol	Value	Unit	Note
Capacitance	C _N	See Table	µF	@ 120Hz, Delta
Tolerance		±##	%	3-10% available.
RMS Voltage	U _N	See Table	V	
RMS Current	I _{RMS}	See Table	A	Max.
Dissipation Factor	Tanδ	0.1	%	Max. @ 120Hz
Insulation Resistance		50	GΩ.µF	Measured after 2 mins at 400VDC @ 25 ± 5°C

Dimensional/Physical Characteristics

Dimension/Attribute	Symbol	Value	Unit	Tolerance
Diameter	D	See Table	mm	± 1
Can Height	H	See Table	mm	± 2
Terminal Torque		1.2	N-m	Max.
Stud Torque		10	N-m	Max.
Altitude		2000	m	Max.

Thermal Characteristics

Attribute	Symbol	Value	Unit
Min Operation	Θ _{min}	-40	°C
Max Operation	Θ _{max}	55	°C
Max Hot Spot	Θ _{max}	90	°C
Storage Conditions		-50/85	°C

Voltage Verification Checks

Test	Symbol	Value	Units	Notes
Terminal – Terminal	U _{TT}	2.15 x U _N	V	
Terminal – Case	U _{TC}	3000	V	Or 2 x U _N + 2000VAC (Whichever is higher)

Standards

IEC60831 (2002-2011), UL810.

Reliability

100,000 hrs. Min. @Rated Voltage, Rated Current and Max. Operating Temp.

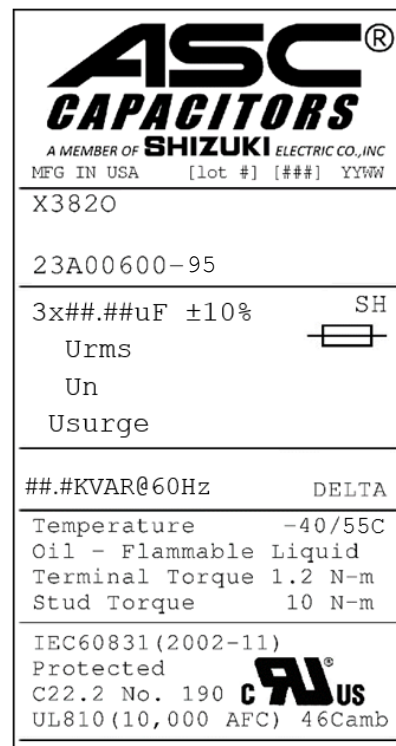


Figure 1: X382O Label Example

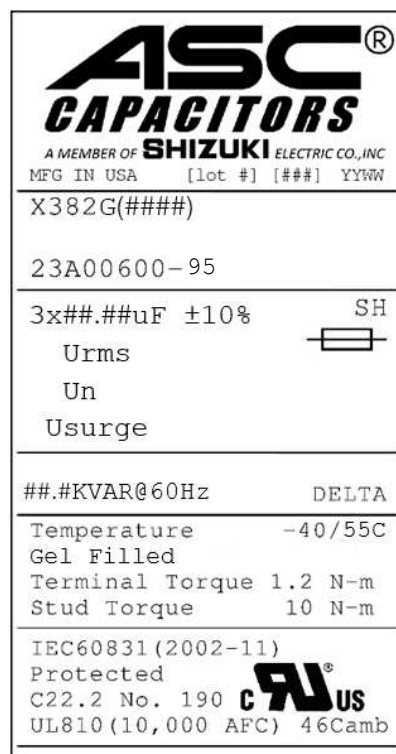


Figure 2: X382G Label Example

Drawn By	M. Bhagwat	07/29/2025	X382# 3x##µF ###VAC		301 West O Street Ogallala, NE 69153 (308) 284-3611		
Engineer	<i>Manoj Bhagwat</i>	07/29/2025			Specification 23A00600-95	Revision ORG	Page 1 of 4
Quality	<i>Dan Vukobratovic</i>	07/29/2025					
Chief Engr	<i>Justin Joyce</i>	07/29/2025					

Table 1

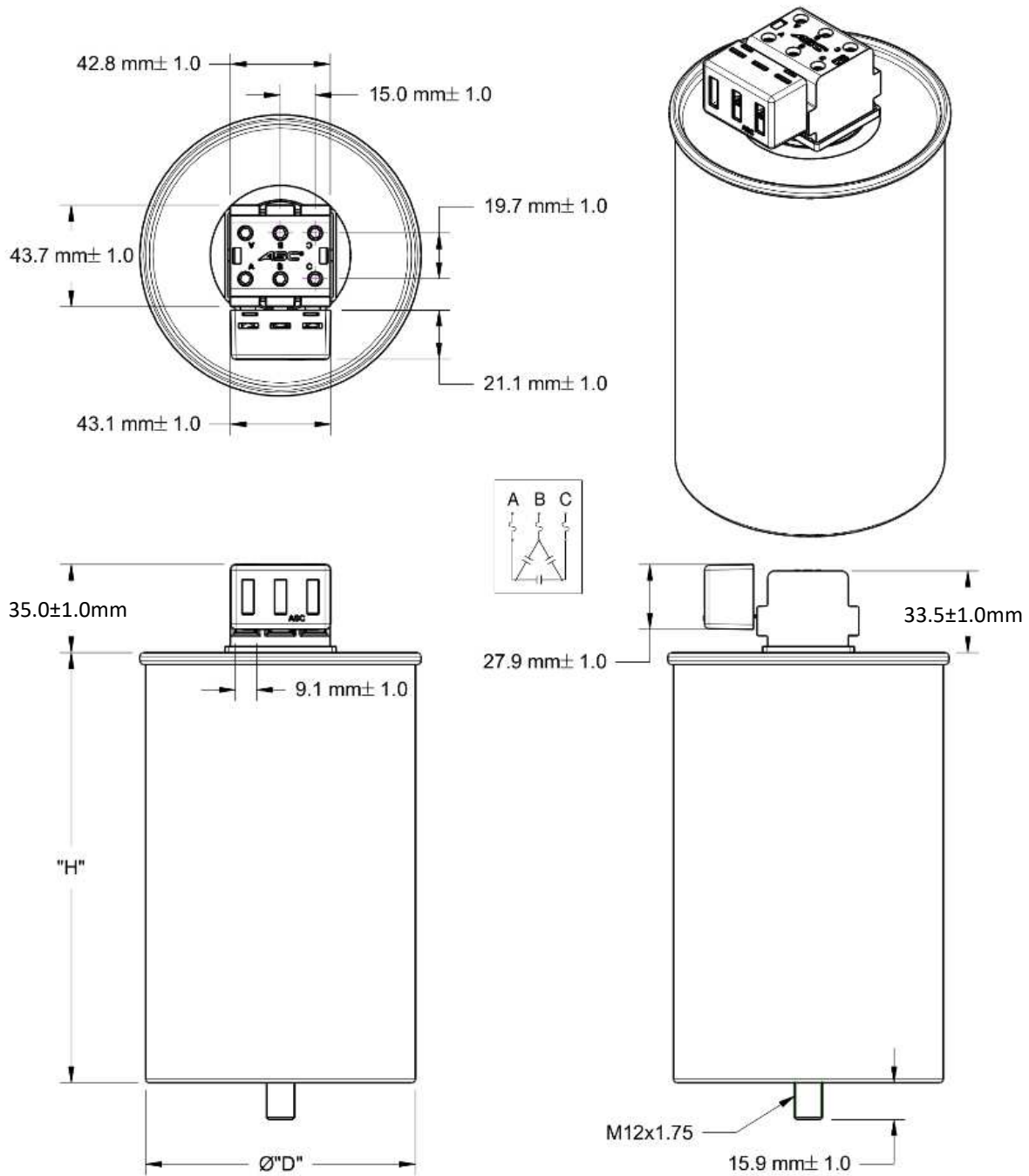
KVAR	Cap (μF)	Max RMS Current		Size		Weight approx. (kg)	Pieces/Box
		@50 Hz	@60Hz	D(mm)	H(mm)		
240VAC/60Hz							
1	3x15.35	22.00	23.38	75	217	0.52	10
1.5	3x23.00	26.85	28.75	75	217	0.55	10
3	3x46.00	35.85	38.10	75	217	0.78	9
5	3x76.75	48.06	51.10	85	202	0.91	9
10	3x153.50	44.17	46.33	85	202	1.00	9
15	3x230.25	49.71	51.10	85	290	1.59	9
20	3x307.00	57.33	59.00	85	290	1.63	9
480VAC/60Hz, 525VAC/50Hz							
1	3x3.84	11.26	12.12	75	217	0.52	10
1.5	3x5.77	13.86	14.72	75	217	0.55	10
3	3x11.55	20.26	21.65	75	217	0.78	10
5	3x19.25	19.40	23.82	75	217	0.91	10
10	3x38.5	28.58	35.10	85	202	1.00	9
15	3x57.74	40.00	49.20	100	221	1.59	9
18	3x69.29	47.80	58.89	116	221	1.62	4
20	3x77.00	50.40	62.00	116	221	1.63	4
600VAC/60Hz, 660VAC/50Hz							
3	3x7.37	11.08	11.95	75	192	0.75	10
5	3x12.3	14.37	15.41	75	192	0.81	10
10	3x24.57	22.34	23.90	85	202	1.18	9
15	3x36.54	29.44	31.70	100	192	1.62	9
20	3x49.15	37.41	40.18	116	192	2.20	4
25	3x61.4	46.25	49.70	136	192	2.95	4
33	3x81.1	53.17	57.16	136	192	3.18	4

Notes:

- 1) Further Technical details available upon request.
- 2) Contact sales@ascapacitor.com for other voltage ratings, outputs and frequencies.

Drawn By	M. Bhagwat	07/29/2025	X382# 3x##μF ### ##VAC	 A MEMBER OF THE SHIZUKI GROUP	301 West O Street Ogallala, NE 69153 (308) 284-3611	
Engineer	<i>Manoj Bhagwat</i>	07/29/2025				
Quality	<i>Dan Veldhousen</i>	07/29/2025				
Chief Engr	<i>Justin Yager</i>	07/29/2025				
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Mechanical Drawing



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Engineer	<i>Murphy Blum</i>	07/29/2025					
Quality	<i>Dan Veldman</i>	07/29/2025			Specification 23A00600-95	Revision ORG	Page 3 of 4
Chief Engr	<i>Justin Yager</i>	07/29/2025					

Special Considerations For Safety, Operation and Service Life

† Protection Levels

P0: Not fail safe

P1: Protected by means of dielectric fusing methods

P2: Protected by means of mechanical interrupt (pressure)

The information provided herein for electrical parameters are the maximum ratings. Contact ASC for special operating conditions.

The total circuit current including all harmonics should not exceed the maximum rating.

The Hot spot temperature should not exceed the maximum rating.

Service life is reduced or increased by approximately 50% for every 7°C increase or decrease from the rated temperature.

ASC does its best to determine life based on formulas related to voltage and temperature. However, ASC cannot duplicate the end application so the provided reliability values should be considered as references when operated under the rated conditions.

Misapplying capacitors can lead to catastrophic failures. ASC is not responsible for any damage as a result of misuse.

Care should be taken to ensure the capacitor is properly discharged when removing from circuit.

Mounting

Must be mounted in an upright position such that the terminals are at the top of the capacitor.

It is recommended that the capacitors are spaced a minimum of 20mm apart for air flow and cooling.

RoHs and Environment

All capacitors are manufactured with lead free solder.

There are no PCB's in any of our products.

While the materials are environmentally safe, ASC suggests using appropriate disposal methods per your regional regulations.

MSDS sheets are available upon request.

Wiring

Systems requiring multiple caps in a series/parallel configuration with total pass through current less than 70Arms per terminal should be wired as per Figure 3. in the wiring diagram below.

Systems requiring multiple caps in a series/parallel configuration with total pass through current that exceeds 70Arms per terminal require that the capacitors be wired from a central bus. See Figure 4. in the wiring diagram below.

In both scenarios, the Current passing through the capacitor should not exceed the Max. Rated RMS Current of that capacitor.

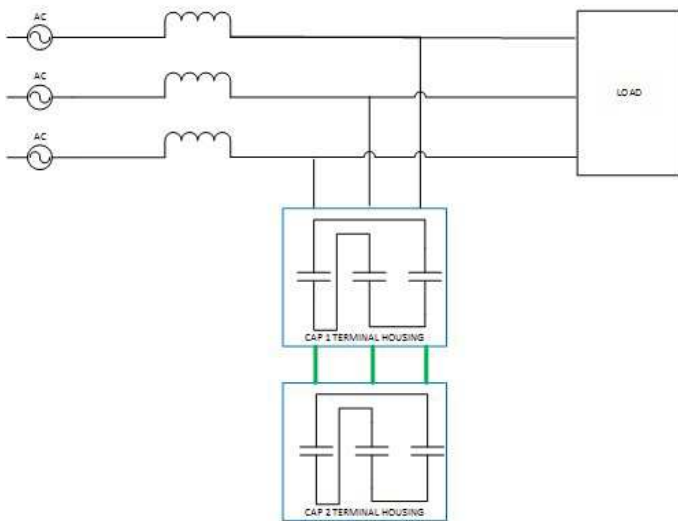


Figure 3: ≤ 70Arms L-L

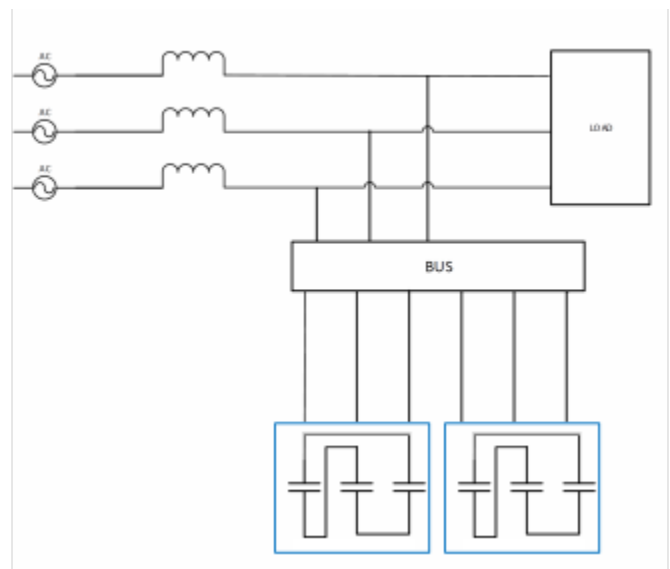


Figure 4: > 70Arms L-L

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Engineer	<i>Manoj Bhagwat</i>	07/29/2025					
Quality	<i>David Vashistha</i>	07/29/2025					
Chief Engr	<i>Justin Yager</i>	07/29/2025					
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