

X3820(0044) - 3 Phase Capacitor

1.0 PHYSICAL CHARACTERISTICS

1.1 CONSTRUCTION	NON-INDUCTIVE WOUND METALLIZED POLYPROPYLENE OIL FILLED
1.2 CASE	ALUMINUM ROUND CAN WITH INTEGRAL M-12 MOUNTING STUD
1.3 LEAD MATERIAL	3 X SCREW DOWN TERMINALS
1.4 MARKINGS	MODEL, CAPACITANCE VALUE, VOLTAGE, TOLERANCE, AGENCY APPROVALS, TEMPERATURE, KVAR VALUE
1.5 MOUNTING STUD TORQUE	50IN LBS (5.6 NM)
1.6 FILL MATERAIL	RAPESEED OIL (CANOLA)

2.0 ELECTRICAL CHARACTERISTICS

2.1 CAPACITANCE	SEE TABLE KVAR +-5% WHEN MEASURED AT OR REFERRED TO 120 +/- 10HZ AND 25 +/- 5 DEGREES C.
2.2 DISSIPATION FACTOR	SHALL NOT BE GREATER THAN SEE TABLE WHEN MEASURED OR REFERRED TO 120 +/- 10HZ AND 25 +/-5 DEGREES C.
2.3 INSULATION RESISTANCE	SHALL BE GREATER THAN 50K MEG/μF WHEN MEASURED AFTER 2 MINUTES ELECTRIFICATION AT 400VDC AND 25 +/- 5 DEGREES C.
2.4 DIELECTRIC STRENGTH	2.15 * Vrated 10 SECONDS: BETWEEN TERMINALS 3000VAC – 1-3 SECONDS: BETWEEN TERMINALS CASE
2.5 RATED VOLTAGE	SEE TABLE VAC 1.1* VAC FOR 30 MINUTES PER DAY 1.3* VAC MAX PERMISSABLE OVER VOLTAGE
2.6 RMS CURRENT (CAPACITIVE ELEMENT)	SEE TABLE
2.7 TEMPERATURE	-50 + 85C STORAGE -40 + 70C OPERATIONAL
2.8 LIFE	SEE CHART
2.9 ALTITUDE	SUITABLE FOR USE UP TO 2000 METERS
2.10 FREQUENCY	50/60HZ
2.11 APPROVALS	UL – FILE E83671 TO 10,000 AMP FAULT CURRENT (AFC) CE - SELF CERTIFICATION TO IEC60831
2.12 RESISTOR	SEE CHART – MEETS UL REQUIREMENTS FOR <50V IN ONE MINUTE

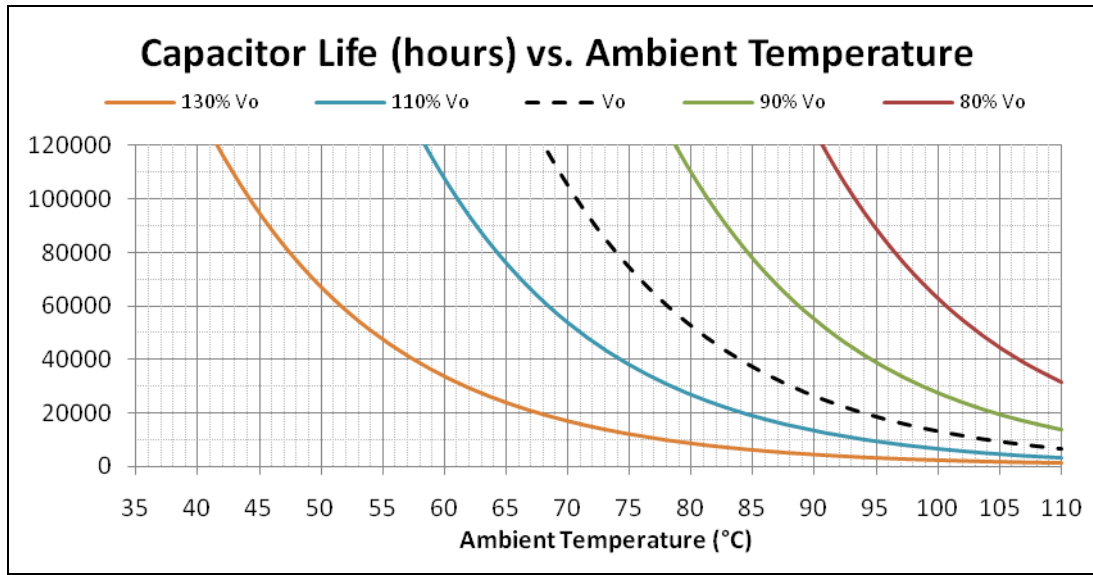
Drawn By:	M. Bhagwat	10/10/2024	X3820(0044) 3PHASE CAPACITOR		301 West O Street Ogallala, NE 69153 (308) 284-3611		
Engineer:	<i>Murthy Bhagwat</i>	10/10/2024					
Quality:	<i>David Veldhousen</i>	10/10/2024					
Chief Engr:	<i>John Yager</i>	10/10/2024			Specification: 23A00600-57	Revision: C	Page: 1 of 3

X3820(0044) - 3 Phase Capacitor

TABLE 1: 480VAC/60HZ 525VAC/ 50HZ

KVAR/ CAP. ELEMENT 480/60HZ 525/50HZ	DISSIPATION FACTOR (%)@ 1KHz	ESR@ 1KHz mOHM	RMS CURRENT 70C	CH MM (INCHES)	D MM (INCHES)	BLEEDER RESISTOR (EXTERNAL)
1KVAR/ 3.84 uF	.04	13	3	135 (6.18)	75 (2.96)	1 MEG
1.5KVAR/ 5.76 uF	.045	9	3	135 (6.18)	75 (2.96)	1 MEG
3 KVAR/ 11.5uF	0.05	7.17	3.3	135 (6.18)	85 (2.96)	270K
5 KVAR /19.2uF	0.055	4.58	5.5	135 (6.18)	85 (2.96)	270K
10 KVAR /38.5uF	0.068	2.66	11	202 (7.95)	85 (3.35)	180K
13 KVAR/ 49.91	0.12	3.8	16	245(9.65)	85 (3.35)	150K
15 KVAR/ 57.7uF	0.128	3.38	16.5	270 (10.63)	85 (3.35)	120K
18KVAR/ 69.11	0.15	3.2	20	270(10.63)	85 (3.35)	180KD
20 KVAR/ 77.0uF	0.132	2.75	22	270 (10.63)	85(3.35)	180KD

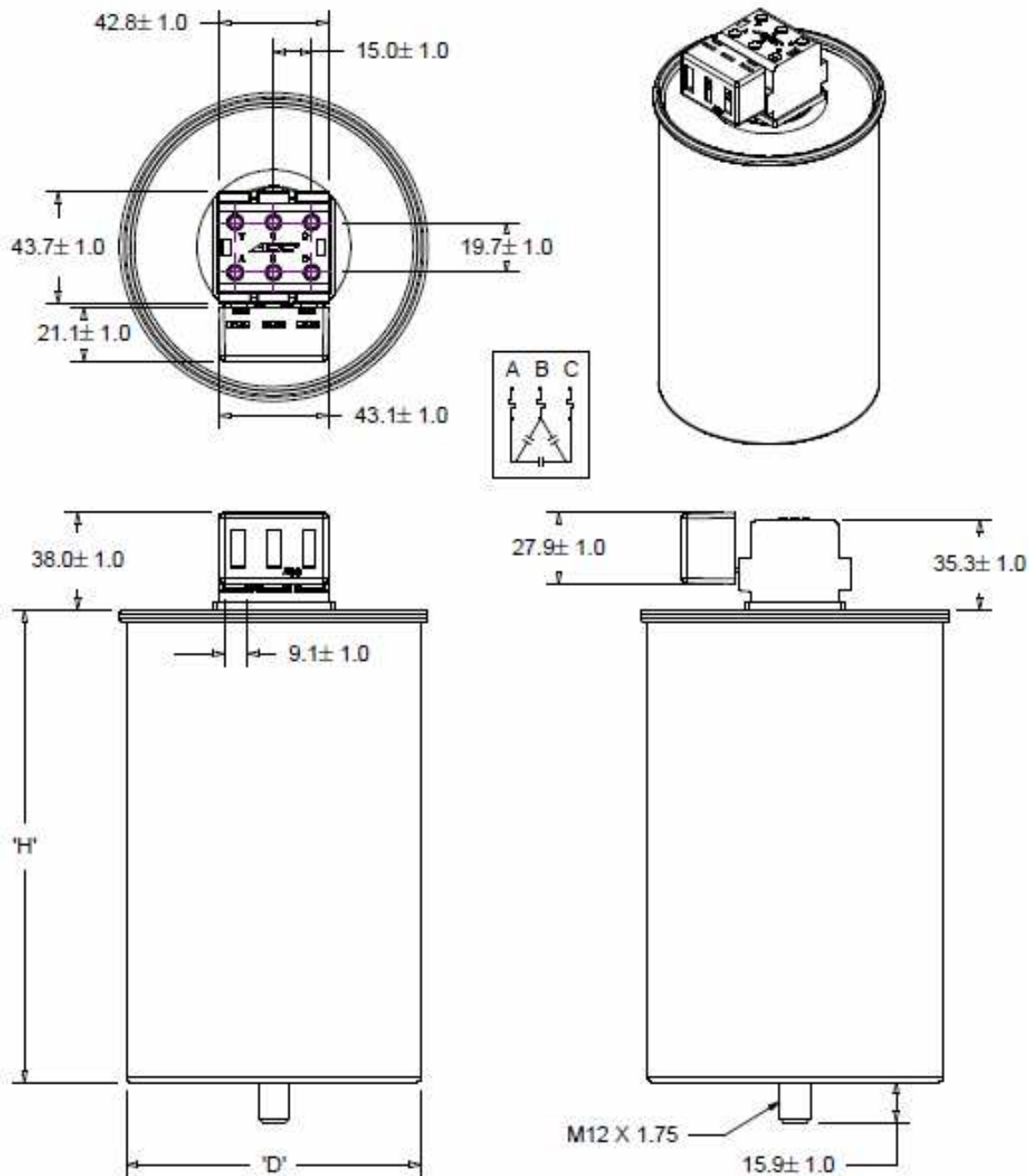
Figure 1: Life versus Voltage Factor and Temperature



Drawn By:	M. Bhagwat	10/10/2024	X3820(0044) 3PHASE CAPACITOR		301 West O Street Ogallala, NE 69153 (308) 284-3611	
Engineer:	<i>Manish Bhagwat</i>	10/10/2024				
Quality:	<i>Dan Velding</i>	10/10/2024				
Chief Engr:	<i>Justin Yager</i>	10/10/2024				
				Specification: 23A00600-57	Revision: C	Page: 2 of 3

X3820(0044) - 3 Phase Capacitor

Figure 2: Dimension



Drawn By:	M. Bhagwat	10/10/2024
Engineer:	<i>Murthy Bhagwat</i>	10/10/2024
Quality:	<i>Danesh Vashistha</i>	10/10/2024
Chief Engr:	<i>Joshi Yogee</i>	10/10/2024

X3820(0044) 3PHASE
CAPACITOR

ASC
CAPACITORS

Specification:
23A00600-57

301 West O Street
Ogallala, NE 69153
(308) 284-3611

Revision:
C

Page:
3 of 3