



JVC ELECTRIC

Manufacturing Dry-Type Transformers



DRY - TYPE TRANSFORMERS



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Sprinkler Proof



Weather Proof



Core & Coil



Control Transformer



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JVC Electric Inc. is talented people producing an exceptional product. JVC's transformers are of high quality and reliability.

JVC specializes in the production of Power transformers. By eliminating the oil previously used to cool transformer coils, dry-type transformers totally avoid the danger of PCB production, and the resulting costly disposal problems.

Dry-type transformers are comparatively less expensive, lighter and less bulky than oil filled transformers. They do the same job at comparatively less cost and require less structural support.

JVC's transformers are the result of a carefully co-ordinated team effort of engineering, metal fabrication, core and coil manufacturing, component and final assembly and testing.

We produce and distribute our own line of distribution transformers up to 1000 KVA in voltages up to 600 V class. These transformers are carried in stock and can be shipped anywhere in the world.

Every stage must pass our rigid quality control standards. Our lab is **ISO 17025** certified and our people take particular pride in their work. We are dedicated to quality, efficiency and total customer satisfaction. JVC's transformers are manufactured in accordance with the requirements of CSA Standard C 22.2 No. 47 and are certified in this special field.

The Energy Efficient transformers are manufactured in accordance with the requirements of CSA Standard C 802.2 – 06.

JVC takes pride in its contribution to the productivity of Canada's industrial machine. We are committed to satisfying the varied needs of our customers. Every order receives our total pledge of quality and service, no job is too small or too large.

JVC Transformer Selection Steps :

1. Find the electrical load requirements -

- * Load size - Expressed in KVA, Amperage or HP
- * Load operating voltage (Volts)
- * Load frequency (Hz)
- * Single or Three phase

2. Supply voltage condition -

- * Source voltage
- * Source frequency
- * Number of phases on power source

3. Determine the transformer KVA rating -

- * If the load is given in KVA, select the transformer having KVA rating equal to or greater than the required load KVA
- * If the load is expressed in amperage, use appropriate KVA formula or use below given sizing chart

$$\text{KVA (1 } \Phi \text{)} = (\text{Volts} \times \text{Amps}) / 1000$$

$$\text{KVA (3 } \Phi \text{)} = (\text{Volts} \times \text{Amps} \times 1.732) / 1000$$

- * If the load is expressed in wattage, either find out the amperage of the load from the equipment nameplate or use the following formula -

$$\text{KVA} = \text{Wattage} / (1000 \times \text{Power factor of the load})$$

- * If the load is a motor and expressed in HP, refer to below given charts

Single Phase : Full Load Current Chart

KVA Rating	120 V	208 V	480 V	600 V
1	8.3	4.8	2.1	1.7
2	16.7	9.6	4.2	3.3
3	25.0	14.4	6.3	5.0
5	41.7	24.0	10.4	8.3
10	83.3	48.1	20.8	16.7
15	125.0	72.1	31.3	25.0
25	208.3	120.2	52.1	41.7
37.5	312.5	180.3	78.1	62.5
50	416.7	240.4	104.2	83.3
75	625.0	361.0	156.0	125.0
100	833.0	481.0	208.0	167.0
167	1392.0	803.0	348.0	278.0
200	1667.0	962.0	417.0	333.0

Three Phase : Full Load Current Chart

KVA Rating	208 V	240 V	480 V	600 V
3	8.3	7.2	3.6	2.9
6	16.7	14.4	7.2	5.8
9	25.0	21.7	10.8	8.7
15	41.6	36.1	18.0	14.4
30	83.3	72.2	36.1	28.9
45	125.0	108.3	54.1	43.3
75	208.2	180.4	90.2	72.2
112.5	312.0	271.0	135.0	108.0
150	416.0	361.0	180.0	144.0
225	625.0	541.0	271.0	217.0
300	833.0	722.0	361.0	289.0
450	1249.0	1083.0	541.0	433.0
500	1388.0	1203.0	601.0	481.0

1 Φ Motor Chart: AC, Motor HP Amperage

Horse Power	115 V	208 V	460 V	575 V
1 / 6	4.4	2.4	1.1	0.9
1 / 4	5.8	3.2	1.4	1.2
1 / 3	7.2	4.0	1.8	1.4
1 / 2	9.8	5.4	2.5	2.0
3 / 4	13.8	7.6	3.5	2.8
1.0	16.0	8.8	4.0	3.2
1.5	20.0	11.0	5.0	4.0
2.0	24.0	13.2	6.0	4.8
3.0	34.0	18.7	8.5	6.8
5.0	56.0	30.8	14.0	11.2
7.5	80.0	44.0	21.0	16.0
10.0	100.0	55.0	26.0	20.0

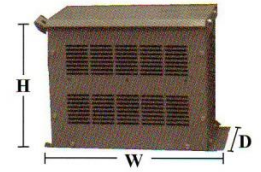
3 Φ Motor Chart: AC, Motor HP Amperage

Horse Power	208 V	230 V	460 V	575 V
0.5	2.2	2.0	1.0	0.8
1	4.0	3.6	1.8	1.4
1.5	5.7	5.2	2.6	2.1
2	7.5	6.8	3.4	2.7
3	10.7	9.6	4.8	3.9
5	16.7	15.2	7.6	6.1
7.5	24.0	22.0	11.0	9.0
10	31.0	28.0	14.0	11.0
15	46.0	42.0	21.0	17.0
20	59.0	54.0	27.0	22.0
30	88.0	80.0	40.0	32.0
40	114.0	104.0	52.0	41.0
60	170.0	154.0	77.0	62.0
75	211.0	192.0	96.0	77.0
100	273.0	248.0	124.0	99.0
125	342.0	312.0	156.0	125.0
150	396.0	360.0	180.0	144.0
200	528.0	480.0	240.0	192.0

Always size the transformer according to the load requirements

These are guidelines only. Please refer to JVC Electric Inc. for your exact requirement.

JVC Electric Inc. Three Phase Indoor Ventilated Auto Transformers

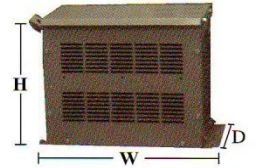


600 Y- 480 V Class 220, 150°C Rise				
KVA	CAT. No.	STOCK	SIZE	WEIGHT - KGS. (LBS.)
30	AC 600480	YES	3	73 (181)
45	AD 600480	YES	3	80 (176)
75	AE 600480	YES	4	102 (224)
112 1/2	AF 600480	YES	4	138 (304)
150	AG 600480	YES	6	190 (418)
225	AH 600480	YES	7	190 (418)
300	AJ 600480	YES	8	270 (594)
600 Y- 240 V Class 220, 150°C Rise				
KVA	CAT. No.	STOCK	SIZE	WEIGHT - KGS. (LBS.)
9	AA 600240	NO	2	70 (154)
15	AB 600240	NO	3	73 (161)
30	AC 600240	NO	4	100 (220)
45	AD 600240	NO	5	138 (304)
75	AE 600240	NO	6	190 (418)
112 1/2	AF 600240	NO	7	260 (572)
150	AG 600240	NO	8	384 (845)
225	AH 600240	NO	9	470 (1036)
300	AJ 600240	NO	10	750 (1850)
600 V - 208 Y Class 220, 150°C Rise				
KVA	CAT. No.	STOCK	SIZE	WEIGHT - KGS. (LBS.)
9	AA 600208	NO	2	70 (154)
15	AB 600208	NO	3	80 (176)
30	AC 600208	NO	4	102 (225)
45	AD 600208	NO	5	135 (297)
75	AE 600208	NO	6	185 (407)
112 1/2	AF 600208	NO	7	272 (600)
150	AG 600208	NO	8	378 (830)
225	AK 600208	NO	9	475 (1045)
300	AJ 600208	NO	10	568 (1250)

600V-380V Y, class 220, 150°C Rise				
KVA	CAT. No.	STOCK	SIZE	WEIGHTS KGS. (LBS)
9	AA 600380	YES	2	60 (132)
15	AB 600380	YES	2	65 (143)
30	AC 600380	YES	3	98 (216)
45	AD 600380	YES	4	100 (220)
75	AE 600380	YES	5	135 (297)
112 1/2	AF 600380	YES	6	180 (396)
150	AG 600380	YES	7	260 (572)
225	AH 600380	YES	8	300 (860)
300	AJ 600380	YES	8	396 (870)
480 Y -240 Y class 220, 150°C Rise				
KVA	CAT. No.	STOCK	SIZE	WEIGHT - KGS. (LBS.)
9	AA 480240	NO	2	60 (132)
15	AB 480240	NO	3	70 (154)
30	AC 480240	NO	4	100 (220)
45	AD 480240	NO	5	120 (264)
75	AE 480240	NO	6	160 (396)
112 1/2	AF 480240	NO	7	245 (539)
150	AG 480240	NO	7	270 (594)
225	AH 480240	NO	8	400 (880)
300	AJ 480240	NO	9	500 (1100)

SIZE NO.	HEIGHT	WIDTH	DEPTH
	<i>mm (inches)</i>	<i>mm (inches)</i>	<i>mm (inches)</i>
1	188 (7 3/8)	268 (10 1/2)	172 (6 3/4)
2	268 (10 1/2)	443 (17 3/8)	318 (12 1/2)
3	366 (14 3/8)	471 (18 1/2)	312 (12 1/4)
4	484 (19)	589 (23 1/8)	338 (13 1/4)
5	541 (21 1/4)	624 (24 1/2)	414 (16 1/4)
6	618 (24 1/4)	688 (27)	408 (16)
7	682 (26 3/4)	694 (27 1/4)	497 (19 1/4)
8	831 (32 5/8)	796 (31 1/4)	548 (21 1/2)
9	987 (38 3/4)	920 (36 1/8)	646 (25 3/8)
10	1191 (46 3/4)	1064 (41 3/4)	672 (26 3/8)
11	1448 (57)	1181(46 1/2)	800 (31 1/2)

JVC Electric Inc. Three Phase Indoor Ventilated Distribution Transformers



600-208 Y/120 Class 220, 150°C Rise Taps 2-2 1/2% 2-2 1/2% FCBN					FCAN
KVA	CAT. No.	STOCK	SIZE	WEIGHT - KGS. (LBS.)	
9	A 600208	YES	3	73 (161)	
15	B 600208	YES	4	96 (211)	
30	C 600208	YES	5	128 (282)	
45	D 600208	YES	6	180 (396)	
75	E 600208	YES	7	260 (572)	
112 1/2	F 600208	YES	8	384 (845)	
150	G 600208	YES	9	482 (1060)	
225	H 600208	YES	10	568 (1250)	
300	J 600208	YES	10	754 (1660)	
450	K 600208	YES	10	1170 (2574)	

480-208 Y/1 20 Class 220, 150°C Rise Taps 2-2 1/2% 2 1/2% FCBN					FCAN 2
KVA	CAT. No.	STOCK	SIZE	WEIGHT - KGS. (LBS.)	
9	A 480208	YES	3	73 (161)	
15	B 480208	YES	4	96 (211)	
30	C 480208	YES	5	128 (252)	
45	D 480208	YES	6	180 (396)	
75	E 480208	YES	7	260 (572)	
112 1/2	F 480208	YES	8	384 (845)	
150	G 480208	YES	9	482 (1060)	
225	H 480208	YES	10	568 (1250)	
300	J 480208	YES	10	754 (1660)	
450	K 480208	YES	10	1170 (2574)	

480-240 Class 220, 150°C Rise Taps 2 - 2 1/2 % FCAN 2-2 1/2 % FC8N				
KVA	CAT. No.	STOCK	SIZE	WEIGHT - KOS. (LBS.)
9	A 480240	NO	3	73 (161)
15	B 480240	NO	4	96 (211)
30	C 480240	NO	5	128 (282)
45	D 480240	NO	6	180 (396)
75	E 480240	NO	7	260 (572)
112 1/2	F 480240	NO	8	384 (845)
150	G 480240	NO	9	482 (1060)
225	H 480240	NO	10	568 (1250)
300	J 480240	NO	10	754 (1660)
450	K 480240	NO	10	1170 (2574)

KVA	CAT. No.	STOCK	SIZE	WEIGHT- KGS. (LBS.)	
9	A 600240	YES	3	73 (161)	
15	B 600240	YES	4	96 (211)	
30	C 600240	YES	5	128 (282)	
45	D 500240	YES	6	180 (396)	
75	E 600240	YES	7	260 (572)	
112 1/2	F 600240	YES	8	384 (845)	
150	G 600240	YES	9	482 (1060)	
225	H 600240	YES	10	568 (1250)	
300	J 600240	YES	10	754 (1660)	
450	K 600240	YES	10	1170 (2574)	

416-208 Y/120 Class 220, 150°C Rise Taps 2 -21/2% FCAN 2-21/2% FCBN					
KVA	CAT. No.	STOCK	SIZE	WEIGHT - KGS. (LBS.)	
9	A 416208	NO	3	73 (161)	
15	B 416208	NO	4	96 (211)	
30	C 416208	NO	5	128 (282)	
45	D 416208	NO	6	180 (396)	
75	E 416208	NO	7	260 (572)	
112 1/2	F 416208	NO	8	384 (845)	
150	G 416208	NO	9	482 (1060)	
225	H 416208	NO	10	568 (1250)	
300	J 416208	NO	10	754 (1660)	
450	K 416208	NO	10	1170 (2574)	

600 -480Y/277 Class 220, 150°C Rise Taps 2 .21/2% FCAN 2 -21/2 % FCBN					
KVA	CAT. No.	STOCK	SIZE	WEIGHT- KGS. (LBS.)	
9	A 600480	NO	3	73 (151)	
15	B 600480	NO	4	96 (211)	
30	C 600480	NO	5	128 (282)	
45	D 600480	NO	6	180 (396)	
75	E 600480	NO	7	260 (572)	
112 1/2	F 600480	NO	8	384 (845)	
150	G 600480	NO	9	482 (1060)	
225	H 600480	NO	10	568 (1250)	
300	J 600480	NO	10	754 (1660)	
450	K 600480	NO	10	1170 (2574)	

- Open type core and coil available - refer to JVC Electric Inc.
- Shielded transformers (for super isolation) available.
- Other primary and secondary volts are available.
- Please refer to JVC Electric Inc. for certified drawings.
- All dimensions are in metric and (imperial).
- All dimensions are subject to change and should not be used for construction purposes.