

Questions to ask

Step 1

Q

How many phases?

A

- Single-phase
- Three-phase

Step 2

Q

What type of enclosure is required?

A

- Ventilated
- Encapsulated

Step 3

Q

What is the primary voltage? (input voltage)

A

- Single-phase is 240 V x 480 V
- Three-phase is 480 V delta (three-phase, three-wire)

Step 4

Q

What is the secondary voltage? (output voltage)

A

- Single-phase
- 120/240
- Three-phase
- 208Y/120 (three-phase, four-wire) or 240 V delta

Step 5

Q

What kVA transformer is required?

A

- If single-phase encapsulated, kVAs are:
0.05, 0.075, 0.1, 0.15, 0.25, 0.5, 0.75, 1,
1.5, 2, 3, 5, 7.5, 10, 15, 25, 37.5
- If single-phase ventilated, kVAs are:
15, 25, 37.5, 50, 75, 100, 167
- If three-phase encapsulated, kVAs are:
3, 6, 9, 15, 30, 45, 75
- If three-phase ventilated, kVAs are:
15, 30, 45, 75, 112.5, 150, 225, 300

Step 6

Q

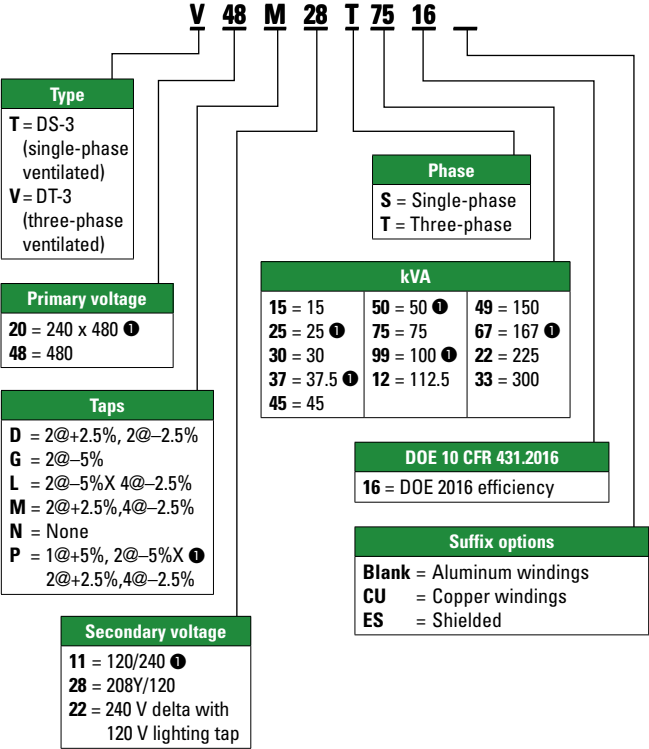
If a ventilated transformer was selected

A

- Field kits: lug kits or weathershields
- Select from selection tables

Transformers

Catalog numbering system—DOE 2016 ventilated transformers



❶ Typically used with single-phase transformers.

General-purpose transformers

Three-phase ventilated, 480 delta—208 Y/120, 150 °C rise, aluminum windings, DOE 2016

kVA	Frame number	Wiring diagram	Weathershield	Typical lug kit	Catalog number
15	939	280B	WS57	LKS1	V48M28T1516 ①
30	940	280B	WS58	LKS1	V48M28T3016 ①
45	940	280B	WS58	LKS1	V48M28T4516 ①
75	942	280B	WS59	LKS2	V48M28T7516 ②
112.5	943	280B	WS60	LKS2	V48M28T1216 ②
150	943	280B	WS60	LKS3	V48M28T4916 ②
225	944	280B	WS61	LKS3	V48M28T2216
300	945	280B	WS62	LKS3	V48M28T3316

① Suitable for use with wall-mounted bracket WMB05.

② Suitable for use with wall-mounted bracket WMB04.

Three-phase ventilated, 480 delta—240/120 lighting tap, 150 °C rise, aluminum windings, DOE 2016

kVA	Frame number	Wiring diagram	Weathershield	Typical lug kit	Catalog number
15	939	282B	WS57	LKS1	V48M22T1516 ①
30	940	282B	WS58	LKS1	V48M22T3016 ①
45	940	282B	WS58	LKS1	V48M22T4516 ①
75	942	282B	WS59	LKS2	V48M22T7516 ②
112.5	943	282B	WS60	LKS2	V48M22T1216 ②
150	943	282B	WS60	LKS3	V48M22T4916 ②
225	944	282B	WS61	LKS3	V48M22T2216
300	945	282B	WS62	LKS3	V48M22T3316

① Suitable for use with wall-mounted bracket WMB05.

② Suitable for use with wall-mounted bracket WMB04.

Three-phase encapsulated, 480 delta—208 Y/120, 115 °C rise

kVA	Frame number	Wiring diagram	Catalog number
3	201	70A	Y48G28T03N
6	200	70A	Y48G28T06N
9	103	70A	Y48G28T09N
15	95	72B	Y48D28T15N
30	243	84A	Y48M28T30N
45	244	84A	Y48M28T45N
75	245	84A	Y48M28T75N

Note: For frame drawings and wiring diagrams, refer to www.eaton.com/transformers.