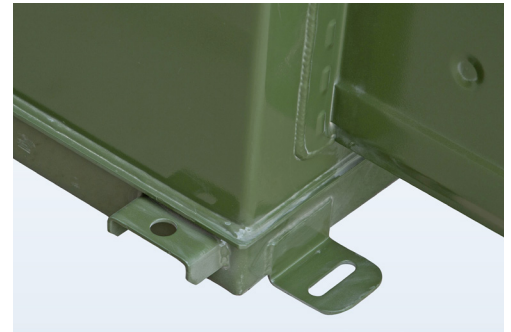




Pad Mount Transformers 3 Phase

Pad Mount Transformers - 3PH



Larson Electronics three-phase pad mount transformers offer superior power distribution for public locations, residential projects, outdoor areas and commercial sites. These applications include solar power generation projects, manufacturing and industrial operations, cryptocurrency mining, warehouses and utility grid solutions. The pad mount transformers in this catalog are suitable for concrete pad installation along service drops of power distribution lines and are capable of servicing small neighborhoods or single large buildings. Heavy-duty, tamperproof construction ensures security and long-term use in outdoor areas. Installed without fencing, the systems offer space-saving and cost-effective benefits for businesses.

This catalog includes three-phase pad mount transformers up to 10,000 KVA (10 MVA), consisting of a rectangular coil and five-legged wound core design with three coils and four core loops. A wide selection of three-phase primary and secondary voltages is available, including dual voltage. Transformers can be ordered with a five-position tap changer

with $\pm 2.5\%$ taps for small changes in voltage.

Transformers with live front and dead front bushing configurations are available in this catalog. Live front bushings are equipped with a top-located spade and enable direct access to connections. Dead front bushings are insulated for arc flash protection and facilitate “plug and play” connections using a load break or dead break elbow. Choose between radial feed and loop feed configurations to meet the power distribution requirements of specific sites or facilities.

Systems with a four-position load break switch offer enhanced controls for operators. The positions on the load break switch are: A side on + transformer on, B side on + transformer on, A and B sides + transformer on, and A and B sides + transformer off.

Transformers can be ordered with high elbow surge arrestors for over voltage and transient voltage protection. Systems without surge arrestors that have mounting provisions for customer-

provided surge arrestors are also available in this catalog. Three-phase pad mount transformers can be ordered with bayonet protection fuses.

Larson Electronics pad mount transformers are offered with mineral oil, FR-3 oil or RAPO biodegradable (vegetable oil) insulation fluid. Biodegradable fluid (KNAN) features a higher heat capacity, flash point and fire point than mineral oil making this option safer. This non-toxic fluid also sustains higher load conditions compared to other types of insulation fluid. Larson Electronics pad mount transformers are available with 55°C, 65°C or dual 55°C/65°C temperature rise. Low temperature rise translates to reduced heat waste, stable performance and longer lifespan. Transformers with dual temperature rise operate at standard 55°C temperature rise or at a slightly higher capacity at 65°C temperature rise. Standard systems are air cooled and does not contain fans or mounting provisions for fans.

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The transformers in this catalog can be ordered with aluminum or copper windings. Aluminum windings are low cost and feature lower eddy losses than copper windings. Copper windings are heavy-duty and offer increased reliability during operation.

Models with liquid level, temperature and pressure/vacuum gauges are analog and are used for visual monitoring. Gauges with auxiliary contacts are for monitoring using connected equipment. These pad mount transformers can come equipped with pressure relief valves, fill valves and drain valves with a sampler port. For enhanced safety and detection, systems can be ordered with rapid rise relays and fault pressure devices.

Larson Electronics three-phase pad mount transformers conform to NEMA and ANSI C57.12 standards. Models that meet DOE 2016 efficiency standards are available in this catalog for compliance.

A selection of cabinet types, housing materials and paint finishes are available to suit various project or

site requirements. The paint finish for standard models is Munsell 7.0 GY 3.29/1.5 Bell Green. Other colors, such as grey, light blue, black and more, can be ordered through customization.

Larson Electronics is a leading manufacturer of industrial power distribution systems and transformers. In addition to three-phase pad mount transformers, the company offers large-scale power solutions for businesses, including substations, single-phase pad mount transformers, overhead pole mount transformers dry type transformers portable power distribution and more.

Pad Mount Transformers - 3PH

MT-PML-R1-3P-DMA-6KVA-DRB-RT-DF-A-6-AM-AZ-1ZZ-M1

Series	Family	
MT	PML	Pad mount

Location	
R1	New, series 1
R2	New, series 2
R3	New, series 3
R4	New, series 4
R5	New, series 5
R6	New, series 6
R7	New, series 7
R8	New, series 8
R9	New, series 9

Phase (System)	
3P	3-Phase
1P	1-Phase

Primary Config	
D	Delta
Y	Wye
G	Grounded Wye

KV Group		"Primary Voltage (Either Wye or Delta, not dual wound)"
35KV	MA	34500Y/19920 (Wye) / 34500V (Delta)
35KV	MB	33560Y/19737 (Wye) / 33560V (Delta)
35KV	MC	33000Y/19050 (Wye) / 33000V (Delta)
35KV	NM	29791Y/17200 (Wye) / 29791V (Delta)
35KV	MD	27600Y/16000 (Wye) / 27600V (Delta)
35KV	ME	26400Y/15240 (Wye) / 26400V (Delta)
25KV	MF	24940Y/14400 (Wye) / 24940V (Delta)
25KV	MY	24000Y/13857 (Wye) / 24000V (Delta)
25KV	NY	23000Y/13280 (Wye) / 23000V (Delta)
25KV	MG	22960Y/13256 (Wye) / 22960V (Delta)
25KV	NN	22860Y/13200 (Wye) / 22860V (Delta)
25KV	RF	22000Y/12702 (Wye) / 22000V (Delta)
25KV	MH	21600Y/12470 (Wye) / 21600V (Delta)
25KV	MJ	20900Y/12067 (Wye) / 20900V (Delta)
25KV	MK	20780Y/12000 (Wye) / 20780V (Delta)
25KV	NX	19800Y/11430 (Wye) / 19800V (Delta)
25KV	ML	19050Y/11000 (Wye) / 19050V (Delta)
25KV	MM	18000Y/10393 (Wye) / 18000V (Delta)
15KV	MN	14400Y/8320 (Wye) / 14400V (Delta)
15KV	MP	13800Y/7968 (Wye) / 13800V (Delta)
15KV	MQ	13200Y/7620 (Wye) / 13200V (Delta)
15KV	MR	12470Y/7200 (Wye) / 12470V (Delta)
15KV	MT	12000Y/6930 (Wye) / 12000V (Delta)
15KV	MU	11950Y/6900 (Wye) / 11950V (Delta)
15KV	MZ	11778Y/6800 (Wye) / 11778V (Delta)
15KV	MV	11000Y/6351 (Wye) / 11000V (Delta)
15KV	MW	23900Y/13800 (Wye) / 23900V (Delta)

KV Group		"Primary Voltage (Either Wye or Delta, not dual wound)"
15KV	MX	33260Y/19200 (Wye) / 33260V (Delta)
15KV	NA	9090Y/5248 (Wye) / 9090V (Delta)
15KV	NB	8320Y/4800 (Wye) / 8320V (Delta)
15KV	NC	7200Y/4160 (Wye) / 7200V (Delta)
15KV	NW	6600Y/3810 (Wye) / 6600V (Delta)
15KV	ND	5250Y/3031 (Wye) / 5250V (Delta)
5KV	NE	4800Y/2771 (Wye) / 4800V (Delta)
5KV	NF	4160Y/2400 (Wye) / 4160V (Delta)
5KV	NG	3300Y/1905 (Wye) / 3300V (Delta)
5KV	NH	2400Y/1386 (Wye) / 2400V (Delta)
5KV	NJ	1000Y/577 (Wye) / 1000V (Delta)
1KV	RB	820Y/474 (Wye) / 820V (Delta)
1KV	ZB	800Y/462 (Wye) / 800V (Delta)
1KV	RC	700Y/404 (Wye) / 700V (Delta)
1KV	A	690Y/400 (Wye) / 690V (Delta)
600V	C	600Y/347 (Wye) / 600V (Delta)
600V	D	575Y/332 (Wye) / 575V (Delta)
600V	E	480Y/277 (Wye) / 480V (Delta)
600V	F	460Y/266 (Wye) / 460V (Delta)
600V	RD	433Y/250 (Wye) / 433V (Delta)
600V	H	420Y/243 (Wye) / 420V (Delta)
600V	J	415Y/240 (Wye) / 415V (Delta)
600V	RA	405Y/234 (Wye) / 405V (Delta)
600V	K	400Y/231 (Wye) / 400V (Delta)
600V	L	380Y/220 (Wye) / 380V (Delta)
600V	T	208Y/120 (Wye) / 208V (Delta)
600V	U	200Y/115 (Wye) / 200V (Delta)

Capacity	
6KVA	6 KVA
9KVA	9 KVA
15KVA	15 KVA
30KVA	30 KVA
45KVA	45 KVA
75KVA	75 KVA
112.5KVA	112.5 KVA
225KVA	225 KVA (0.225 MVA)
300KVA	300 KVA (0.3 MVA)
500KVA	500 KVA (0.5 MVA)
600KVA	600 KVA (0.6 MVA)
700KVA	700 KVA (0.7 MVA)
750KVA	750 KVA (0.75 MVA)
800KVA	800 KVA (0.8 MVA)
1MVA	1000 KVA (1 MVA)
1.25MVA	1250 KVA (1.25 MVA)
1.5MVA	1500 KVA (1.5 MVA)
1.75MVA	1750 KVA (1.75 MVA)

Capacity	
2MVA	2000 KVA (2 MVA)
2.25MVA	2250 KVA (2.25 MVA)
2.5MVA	2500 KVA (2.5 MVA)
2.55MVA	2550 KVA (2.55 MVA)
3MVA	3000 KVA (3 MVA)
3.25MVA	3250 KVA (3.25 MVA)
3.5MVA	3500 KVA (3.5 MVA)
3.75MVA	3750 KVA (3.75 MVA)
4MVA	4000 KVA (4 MVA)
4.2MVA	4200 KVA (4.2 MVA)
4.25MVA	4250 KVA (4.25 MVA)
4.5MVA	4500 KVA (4.5 MVA)
5MVA	5000 KVA (5 MVA)
5.5MVA	5500 KVA (5.5 MVA)
6MVA	6000 KVA (6 MVA)
6.5MVA	6500 KVA (6.5 MVA)
7MVA	7000 KVA (7 MVA)
7.5MVA	7500 KVA (7.5 MVA)

Capacity	
8MVA	8000 KVA (8 MVA)
9MVA	9000 KVA (9 MVA)
10MVA	10000 KVA (10 MVA)

Pad Mount Transformers - 3PH

MT-PML-R1-3P-DMA-6KVA-DRB-RT-DF-A-6-AM-AZ-1ZZ-M1

Secondary Config	
D	Delta
Y	Wye
G	Grounded Wye

Secondary Voltage (Either Wye or Delta, not dual wound)	
RB	820Y/474 (Wye) / 820V/410 Delta
ZB	800Y/462 (Wye) / 800V/400 (Delta)
RC	700Y/404 (Wye) / 700V/350 Delta
A	690Y/400 (Wye) / 690V/345 (Delta)
C	600Y/347 (Wye) / 600V/300 (Delta)
D	575Y/332 (Wye) / 575V/288 (Delta)
E	480Y/277 (Wye) / 480V/240 (Delta)
F	460Y/266 (Wye) / 460V/230 (Delta)
RD	433Y/250 (Wye) / 433V/217 Delta
H	420Y/243 (Wye) / 420V/210 (Delta)
J	415Y/240 (Wye) / 415V/208 (Delta)
RA	405Y/234 (Wye) / 405V/203 (Delta)
K	400Y/231 (Wye) / 400V/200 Delta
L	380Y/220 (Wye) / 380V/190 (Delta)
N	250Y/145 (Wye) / 250V/125 (Delta)
P	240Y/139 (Wye) / 240V/120 (Delta)
Q	230Y/133 (Wye) / 230V/115 (Delta)
R	220Y/127 (Wye) / 220V/110 (Delta)
T	208Y/120 (Wye) / 208V (Delta)
U	200Y/115 (Wye) / 200V (Delta)

Feed Type	
RT	Radial Feed
LT	Loop Feed

Front	
DF	Dead Front
LF	Live Front

Tap Changer	
A	(4) 2.5% taps, 2AN 2BN
B	(4) 5% taps, 2AN 2BN

Frequency	
6	60 Hz
5	50 Hz
56	50/60 Hz
1	120 Hz
4	400 Hz
2	25 Hz
3	100 Hz

Temp Rise	
A	55°C
B	65°C
C	55/65°C
D	75°C
E	55-75°C

Fluids	
M	Mineral Oil
F	FR-3
B	Biodegradable
MF	Mineral Oil w/ fans
FF	FR-3 w/ fans
BF	Biodegradable w/ fans
MP	Mineral Oil w/ fan provisions w/o fans
FP	FR-3 w/ fan provisions w/o fans
BP	Biodegradable w/ fan provisions w/o fans

Windings		Housing	
A	Aluminum	Z	Coated Steel
C	Copper	S	Stainless Tank

Surge		Fuses	
1	No	Z	No
2	Yes	B	Bayonet
		C	Bayonet w/ ELSP
		D	Dry-well
		V	VFI fuses
		H	bayonet w/ backup

Load Break	
Z	No
2	2 position
4	4-position
6	(3) 2-position switches
3	(2) 2-position

Model Revision	
M1	Model 1
M2	Model 2
M3	Model 3
M4	Model 4
M5	Model 5
M6	Model 6
M7	Model 7
M8	Model 8
M9	Model 9
M10	Model 10
M11	Model 11
M12	Model 12
M13	Model 14
M14	Model 14
M15	Model 15
M16	Model 16
M17	Model 17
M18	Model 18
M19	Model 19
M20	Model 20

LARSON ELECTRONICS LLC
9419 E US HWY 175
KEMP, TX 75143

Web: larsonelectronics.com
Email: sales@larsonelectronics.com
Phone: 1-800-369-6671
Intl: +1-214-616-6180
Fax: 903-498-3364

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