Low voltage capacitor
Series, 230V Single phase and 400-415V Three phase

The PRECISE's capacitor case is made from stainless steel, dielectric film is environmentally friendly, non PCB with low toxicity, biodegradable, thereby guaranteeing the unit's perfect insulation and operation.

The LV capacitor have manufactured certificate ISO 9001: 2008 and successfully pass the test requirements according to IEC 60831.

Type of LV capacitor	Rated voltage	Rated output	Rated current	Rated capacitance at dielectric temp. +20°C (Tolerance -5%, +10%)	Max. permissible			Power frequency, Wet condition 1 min.	Impulse testing voltage	Discharge resistor	Internal connection (Star or Delta)	Maximum weight of LV capacitor
					% of rated voltage	% of rated current	% of normal rating capacity					
	V	kVAR	A	µF	%	%	%	kVrms	kVp	MΩ	-	kg
1E-5/230		5	21.74	300.86						< 0.407		3.2
1E-10/230		10	43.48	601.72						< 0.203		5.4
1E-15/230	230	15	65.22	902.58	110	130	135	3	15	< 0.135	-	6.6
1E-20/230		20	86.96	1203.44						< 0.101		9.0
1E-25/230		25	108.7	1504.30						< 0.081		10.2
3E-5/400		5	7.22	3x33.16						< 2.68		3.2
3E-10/400		10	14.43	3x66.31						< 1.34		3.6
3E-15/400		15	21.65	3x99.47						< 0.89		4.0
3E-20/400		20	28.87	3x132.63						< 0.67		6.0
3E-25/400		25	36.09	3x165.79						< 0.54		6.3
3E-30/400	400	30	43.30	3x198.94	110	130	135	3	15	< 0.45	Delta	6.6
3E-40/400		40	57.74	3x265.26						< 0.34		9.2
3E-45/400		45	64.95	3x298.42						< 0.30		9.6
3E-50/400		50	72.17	3x331.57						<0.27		11.4
3E-60/400		60	86.61	3x397.89						< 0.22		11.8
3E-75/400		75	108.26	3x497.36						< 0.18		13.6
3E-15/415		15	20.87	3x92.41						< 0.95		5.8
3E-20/415	415	20	27.82	3x123.21	110	130	135	3	15	< 0.71	Delta	6.2
3E-30/415		30	41.74	3x184.82						< 0.47		7.3
3E-50/415		50	69.56	3x308.04						< 0.28		8.3

- Rated frequency 50 Hz.
- No internal fuse.
- No PCB impregnant.
- Type of location are outdoor.
- Tolerance dimension are ± 10%.

Application

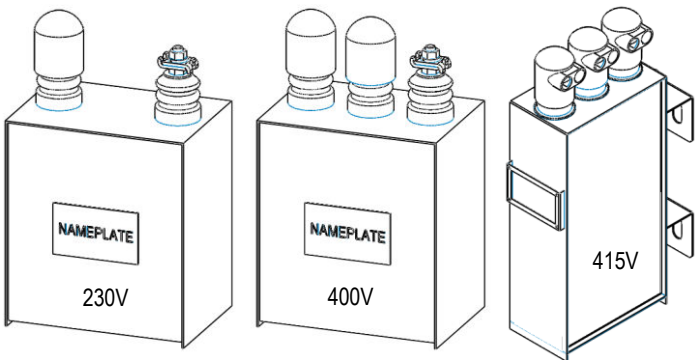
LV capacitors are designed for the purpose of power factor correction, voltage control and loss reduction. LV power factor correction is directly related to the technical management of distribution networks. The benefits are:

- Increasing voltage levels at the end of lines.
- Decreasing reactive power and therefore reducing apparent power with two highly relevant technical aspects:
  - Reducing losses.
  - Increasing the performance of transformer and installations.
- Reducing the financial cost of energy.

Safety

The factors which affecting reliability and safety are both inherent characteristic of the capacitor unit and by the environment (over voltage, excessive temperature, inadequate mechanical and electric protection) in which it is in operation. One of the most important benefits is the internal fuse (if any). Another safety feature is the discharge resistor.

Drawing of LV capacitor



Note: *The manufacture reserves the right to change technical data or design without prior notice.*
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Effective date: *April 2017, Expire when have next revise.*
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