

SNAP-IN TERMINALS - General purpose 85°C / 2000 h

Description

Capacitors with snap lock terminals for P.C.B. mounting.
Aluminum case with insulated sleeve and safety vent at the bottom.
RoHS compliant and Lead-free

Applications

Industrial and professional power electronics,
welding machine, motor drives traction, battery chargers,
S.M.P.S., U.P.S., inverters converters.

Features

High reliability
Low equivalent series resistance (E.S.R.).
Different case size available for capacitance values

Marking

ARCOTRONICS' logo
series: (ELH or EHD)
operating temperature: (85°C)
rated voltage: (Vdc),
capacitance (µF),
negative polarity (white line),
date code.

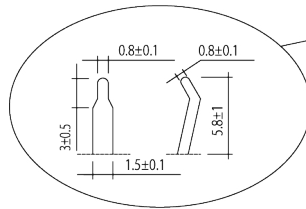
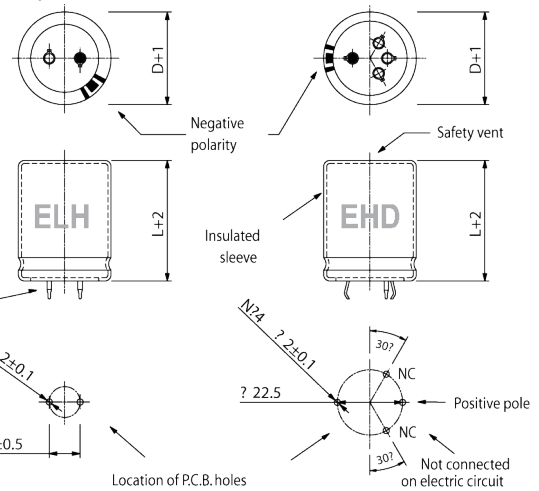


Diagram of dimensions (Units=mm) and P.C.B. mounting holes

Shorter pins are available upon request
EHD series only for $\varnothing \geq 35$ mm



Electrical characteristics

Rated voltage	6.3 to 100 Vdc	160 to 450 Vdc
Operating temperature	-40 to +85°C	-25 to +85°C
Capacitance range	820 µF to 120000µF	47µF to 2700µF.
Capacitance tolerance	± 20% at 120Hz / 20°C	
Endurance test	2000 h (see conditions in Test method and performance)	
Leakage current	I = 0.02 CV (µA) or 3 mA whichever is smaller C = rated capacitance (µF); V = rated voltage (Vdc) (after that DC rated voltage at 20°C has been applied for 5 min)	

Impedance Z characteristics at 120 Hz

Rated voltage (Vdc)	6.3 to 16	25	35	50 to 63	80 to 100	160 to 400	450
Z (-25°C) / Z (20°C)	3	3	3	2	2	4	8
Z (-40°C) / Z (20°C)	12	10	8	6	5		

Compensation factor of ripple current (R.C.) vs. frequency

Rated voltage	50 Hz	60 Hz	120 Hz	1kHz	10 to 100 kHz
from 6.3 to 100Vdc	0.88	0.90	1.00	1.15	1.16
from 160 to 250Vdc	0.75	0.78	1.00	1.16	1.23
from 350 to 450Vdc	0.74	0.76	1.00	1.10	1.15

Compensation factor of ripple current (R.C.) vs. temperature

Temperature	40°C	60°C	70°C	85°C
Multiplier factors	1.48	1.42	1.30	1.00

Test method and performance

Conditions	Load life test	Shelf life test
Temperature: Test duration: Ripple current:	85°C 2000 hours max ripple current at 120 Hz 85°C specified in table	85°C 1000 hours no ripple current applied.
Voltage:	the sum of D.C. voltage and the peak A.C. voltage must not exceed the rated voltage of capacitor.	no voltage applied.
Performance	The following specifications will be satisfied when the capacitors will be restored at 20°C.	
Capacitance change: Dissipation factor: Leakage current:	within 20% of initial value. not exceed 200% of the initial requirement. not exceed initial requirement.	within 20% of initial value. not exceed 150% of the initial requirement. not exceed initial requirement.

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Technical data and ordering codes

6.3 Vdc Rated voltage - 8 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 85°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
15000	22 x 25	60	2.44	1.9	ELH159M6R3AQ1AA
18000	22 x 30	60	2.60	2.3	ELH189M6R3AQ2AA
18000	25 x 25	60	2.62	2.3	ELH189M6R3AR1AA
22000	22 x 30	60	3.06	2.8	ELH229M6R3AQ2AA
22000	25 x 25	60	3.07	2.8	ELH229M6R3AR1AA
27000	22 x 35	60	3.49	3	ELH279M6R3AQ3AA
27000	25 x 30	60	3.52	3	ELH279M6R3AR2AA
27000	30 x 25	60	3.57	3	ELH279M6R3AS1AA
33000	22 x 40	60	3.97	3	ELH339M6R3AQ4AA
33000	25 x 35	60	4.02	3	ELH339M6R3AR3AA
33000	30 x 30	60	4.05	3	ELH339M6R3AS2AA
33000	35 x 25	60	4.10	3	ELH339M6R3AT1AA
39000	22 x 45	60	4.56	3	ELH399M6R3AQ5AA
39000	25 x 40	60	4.50	3	ELH399M6R3AR4AA
39000	30 x 30	60	4.46	3	ELH399M6R3AS2AA
39000	35 x 25	60	4.51	3	ELH399M6R3AT1AA
47000	25 x 45	60	5.09	3	ELH479M6R3AR5AA
47000	30 x 35	60	5.06	3	ELH479M6R3AS3AA
47000	35 x 30	60	5.03	3	ELH479M6R3AT2AA
56000	25 x 50	60	5.71	3	ELH569M6R3AR6AA
56000	30 x 40	60	5.70	3	ELH569M6R3AS4AA
56000	35 x 30	60	5.75	3	ELH569M6R3AT2AA
68000	30 x 45	60	6.48	3	ELH689M6R3AS5AA
68000	35 x 35	60	6.42	3	ELH689M6R3AT3AA
82000	30 x 50	60	7.32	3	ELH829M6R3AS6AA
82000	35 x 40	60	7.29	3	ELH829M6R3AT4AA
100000	35 x 45	60	8.31	3	ELH10KM6R3AT5AA
120000	35 x 50	60	8.60	3	ELH12KM6R3AT6AA

10 Vdc Rated voltage - 13 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 85°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
12000	22 x 25	50	2.40	2.4	ELH129M010AQ1AA
15000	22 x 30	50	2.75	3	ELH159M010AQ2AA
15000	25 x 25	50	2.75	3	ELH159M010AR1AA
18000	22 x 35	50	3.15	3	ELH189M010AQ3AA
18000	25 x 25	50	3.05	3	ELH189M010AR1AA
22000	22 x 40	50	3.55	3	ELH229M010AQ4AA
22000	25 x 30	50	3.50	3	ELH229M010AR2AA
22000	30 x 25	50	3.55	3	ELH229M010AS1AA
27000	22 x 45	50	4.05	3	ELH279M010AQ5AA
27000	25 x 35	50	4.00	3	ELH279M010AR3AA
27000	30 x 30	50	4.05	3	ELH279M010AS2AA
33000	22 x 50	50	4.60	3	ELH339M010AT2AA
33000	25 x 40	50	4.55	3	ELH339M010AR4AA
33000	30 x 30	50	4.50	3	ELH339M010AS2AA
33000	35 x 25	50	4.50	3	ELH339M010AT1AA
39000	25 x 45	50	5.10	3	ELH399M010AR5AA
39000	30 x 35	50	5.05	3	ELH399M010AS3AA
39000	35 x 30	50	5.05	3	ELH399M010AT2AA
47000	25 x 50	50	5.75	3	ELH479M010AR6AA
47000	30 x 40	50	5.70	3	ELH479M010AS4AA
47000	35 x 30	50	5.65	3	ELH479M010AT2AA
56000	30 x 45	50	6.45	3	ELH569M010AS5AA
56000	35 x 35	50	6.40	3	ELH569M010AT3AA
68000	30 x 50	50	7.05	3	ELH689M010AS6AA
68000	35 x 40	50	7.10	3	ELH689M010AT4AA
82000	35 x 50	50	7.50	3	ELH829M010AT6AA

16 Vdc Rated voltage - 20 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 85°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
8200	22 x 25	40	2.60	2.6	ELH828M016AQ1AA
10000	22 x 30	40	2.70	3	ELH109M016AQ2AA
10000	25 x 25	40	2.75	3	ELH109M016AR1AA
12000	22 x 30	40	2.90	3	ELH129M016AQ2AA
12000	25 x 25	40	2.95	3	ELH129M016AR1AA
15000	22 x 35	40	3.30	3	ELH159M016AQ3AA
15000	25 x 30	40	3.45	3	ELH159M016AR2AA
15000	30 x 25	40	3.50	3	ELH159M016AS1AA
18000	22 x 40	40	3.70	3	ELH189M016AQ4AA
18000	25 x 35	40	3.75	3	ELH189M016AR3AA
18000	30 x 30	40	3.80	3	ELH189M016AS2AA
22000	22 x 50	40	4.35	3	ELH229M016AQ6AA
22000	25 x 40	40	4.30	3	ELH229M016AR4AA
22000	30 x 30	40	4.25	3	ELH229M016AS2AA
22000	35 x 25	40	4.20	3	ELH229M016AT1AA
27000	25 x 45	40	4.70	3	ELH279M016AR5AA
27000	30 x 35	40	4.65	3	ELH279M016AS3AA
27000	35 x 30	40	4.65	3	ELH279M016AT2AA
33000	30 x 40	40	5.35	3	ELH339M016AS4AA
33000	35 x 30	40	5.40	3	ELH339M016AT2AA
39000	30 x 45	40	6.00	3	ELH399M016AS5AA
39000	35 x 35	40	5.95	3	ELH399M016AT3AA
47000	30 x 50	40	6.80	3	ELH479M016AS6AA
47000	35 x 40	40	6.75	3	ELH479M016AT4AA
56000	35 x 45	40	7.60	3	ELH569M016AT5AA
68000	35 x 50	40	8.00	3	ELH689M016AT6AA

25 Vdc Rated voltage - 32 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 85°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
5600	22 x 25	25	2.20	2.8	ELH568M025AQ1AA
6800	22 x 30	25	2.40	3	ELH688M025AQ2AA
6800	25 x 25	25	2.45	3	ELH688M025AR1AA
8200	22 x 35	25	2.70	3	ELH828M025AQ3AA
8200	25 x 25	25	2.70	3	ELH828M025AR1AA
10000	22 x 40	25	3.10	3	ELH109M025AQ4AA
10000	25 x 30	25	3.15	3	ELH109M025AR2AA
10000	30 x 25	25	3.20	3	ELH109M025AS1AA
12000	22 x 45	25	3.50	3	ELH129M025AQ5AA
12000	25 x 35	25	3.45	3	ELH129M025AR3AA
12000	30 x 30	25	3.50	3	ELH129M025AS2AA
12000	35 x 25	25	3.55	3	ELH129M025AT1AA
15000	22 x 50	25	4.00	3	ELH159M025AQ6AA
15000	25 x 40	25	3.95	3	ELH159M025AR4AA
15000	30 x 35	25	4.00	3	ELH159M025AS3AA
15000	35 x 30	25	4.05	3	ELH159M025AT2AA
18000	25 x 45	25	4.45	3	ELH189M025AR5AA
18000	30 x 35	25	4.45	3	ELH189M025AS3AA
18000	35 x 30	25	4.60	3	ELH189M025AT2AA
22000	30 x 40	25	5.20	3	ELH229M025AS4AA
22000	35 x 35	25	5.15	3	ELH229M025AT3AA
27000	30 x 45	25	5.95	3	ELH279M025AS5AA
27000	35 x 40	25	5.90	3	ELH279M025AT4AA
33000	30 x 50	25	6.70	3	ELH339M025AS6AA
33000	35 x 45	25	6.75	3	ELH339M025AT5AA
39000	35 x 50	25	7.55	3	ELH399M025AT6AA

For capacitor whose capacitance exceeds 1000 μF, the value of D.F. (%) is increased by 2% for every addition of 1000 μF.

* Only for Ø ≥ 35 mm and 4 pin terminals, replace ELH with EHD.

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35 Vdc Rated voltage - 44 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 85°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
3900	22 x 25	25	2.20	2.7	ELH388M035AQ1AA
4700	22 x 30	25	2.40	3	ELH478M035AQ2AA
4700	25 x 25	25	2.40	3	ELH478M035AR1AA
5600	22 x 35	25	2.75	3	ELH568M035AQ3AA
5600	25 x 25	25	2.75	3	ELH568M035AR1AA
6800	22 x 40	25	2.85	3	ELH688M035AQ4AA
6800	25 x 30	25	2.85	3	ELH688M035AR2AA
6800	30 x 25	25	2.90	3	ELH688M035AS1AA
8200	22 x 45	25	3.15	3	ELH828M035AQ5AA
8200	25 x 35	25	3.10	3	ELH828M035AR3AA
8200	30 x 30	25	3.15	3	ELH828M035AS2AA
10000	22 x 50	25	3.55	3	ELH109M035AQ6AA
10000	25 x 40	25	3.50	3	ELH109M035AR4AA
10000	30 x 30	25	3.45	3	ELH109M035AS2AA
10000	35 x 25	25	3.40	3	ELH109M035AT1AA
12000	25 x 45	25	3.95	3	ELH129M035AR5AA
12000	30 x 35	25	4.00	3	ELH129M035AS3AA
12000	35 x 30	25	4.05	3	ELH129M035AT2AA
15000	25 x 50	25	4.95	3	ELH159M035AR6AA
15000	30 x 40	25	4.95	3	ELH159M035AS4AA
15000	35 x 35	25	5.00	3	ELH159M035AT3AA
18000	30 x 45	25	5.50	3	ELH189M035AS5AA
18000	35 x 40	25	5.55	3	ELH189M035AT4AA
22000	30 x 50	25	6.00	3	ELH229M035AS6AA
22000	35 x 45	25	6.05	3	ELH229M035AT5AA
27000	35 x 50	25	6.90	3	ELH279M035AT6AA

50 Vdc Rated voltage - 63 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 85°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
2200	22 x 25	20	1.90	2.2	ELH228M050AQ1AA
2700	22 x 30	20	2.10	2.7	ELH278M050AQ2AA
2700	25 x 25	20	2.20	2.7	ELH278M050AR1AA
3300	22 x 30	20	2.35	3	ELH338M050AQ2AA
3300	25 x 25	20	2.35	3	ELH338M050AR1AA
3900	22 x 35	20	2.65	3	ELH398M050AQ3AA
3900	25 x 30	20	2.65	3	ELH398M050AR2AA
3900	30 x 25	20	2.65	3	ELH398M050AS1AA
4700	22 x 40	20	3.00	3	ELH478M050AQ4AA
4700	25 x 35	20	3.00	3	ELH478M050AR3AA
4700	30 x 25	20	2.95	3	ELH478M050AS1AA
5600	22 x 45	20	3.35	3	ELH568M050AQ5AA
5600	25 x 40	20	3.35	3	ELH568M050AR4AA
5600	30 x 30	20	3.35	3	ELH568M050AS2AA
5600	35 x 25	20	3.40	3	ELH568M050AT1AA
6800	22 x 50	20	3.80	3	ELH688M050AQ6AA
6800	25 x 40	20	3.80	3	ELH688M050AR4AA
6800	30 x 30	20	3.80	3	ELH688M050AS2AA
6800	30 x 35	20	3.85	3	ELH688M050AS3AA
6800	35 x 30	20	3.85	3	ELH688M050AT2AA
8200	25 x 50	20	4.35	3	ELH828M050AR6AA
8200	30 x 40	20	4.35	3	ELH828M050AS4AA
8200	35 x 30	20	4.40	3	ELH828M050AT2AA
10000	30 x 45	20	5.00	3	ELH109M050AS5AA
10000	35 x 35	20	4.95	3	ELH109M050AT3AA
12000	30 x 50	20	5.60	3	ELH129M050AS6AA
12000	35 x 40	20	5.55	3	ELH129M050AT4AA
15000	35 x 45	20	6.45	3	ELH159M050AT5AA
18000	35 x 50	20	6.70	3	ELH189M050AT6AA

63 Vdc Rated voltage - 79 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 85°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
1800	22 x 25	20	1.85	2.3	ELH188M063AQ1AA
2200	22 x 30	20	2.30	2.8	ELH228M063AQ2AA
2200	25 x 25	20	2.30	2.8	ELH228M063AR1AA
2700	22 x 35	20	2.45	3	ELH278M063AQ3AA
2700	25 x 30	20	2.45	3	ELH278M063AR2AA
2700	30 x 25	20	2.50	3	ELH278M063AS1AA
3300	22 x 40	20	2.60	3	ELH338M063AQ4AA
3300	25 x 30	20	2.65	3	ELH338M063AR2AA
3300	30 x 25	20	2.70	3	ELH338M063AS1AA
3900	22 x 45	20	2.95	3	ELH398M063AQ5AA
3900	25 x 35	20	2.95	3	ELH398M063AR3AA
3900	30 x 30	20	3.00	3	ELH398M063AS2AA
4700	22 x 50	20	3.40	3	ELH478M063AQ6AA
4700	25 x 40	20	3.35	3	ELH478M063AR4AA
4700	30 x 30	20	3.35	3	ELH478M063AS2AA
4700	35 x 25	20	3.40	3	ELH478M063AT1AA
5600	25 x 40	20	3.70	3	ELH568M063AR4AA
5600	25 x 45	20	3.70	3	ELH568M063AR5AA
5600	30 x 35	20	3.75	3	ELH568M063AS3AA
5600	35 x 30	20	3.75	3	ELH568M063AT2AA
6800	30 x 40	20	4.25	3	ELH688M063AS4AA
6800	35 x 30	20	4.20	3	ELH688M063AT2AA
8200	30 x 45	20	4.80	3	ELH828M063AS5AA
8200	35 x 35	20	4.80	3	ELH828M063AT3AA
10000	30 x 50	20	5.50	3	ELH109M063AS6AA
10000	35 x 40	20	5.45	3	ELH109M063AT4AA
12000	35 x 45	20	6.20	3	ELH129M063AT5AA

80 Vdc Rated voltage - 100 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 85°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
1200	22 x 25	20	1.65	1.9	ELH128M080AQ1AA
1500	22 x 30	20	1.90	2.4	ELH158M080AQ2AA
1500	25 x 25	20	1.90	2.4	ELH158M080AR1AA
1800	22 x 35	20	2.20	2.9	ELH188M080AQ3AA
1800	25 x 30	20	2.20	2.9	ELH188M080AR2AA
1800	30 x 25	20	2.20	2.9	ELH188M080AS1AA
2200	22 x 40	20	2.45	3	ELH228M080AQ4AA
2200	25 x 30	20	2.45	3	ELH228M080AR2AA
2200	30 x 25	20	2.50	3	ELH228M080AS1AA
2700	22 x 45	20	2.80	3	ELH278M080AQ5AA
2700	25 x 35	20	2.80	3	ELH278M080AR3AA
2700	30 x 30	20	2.85	3	ELH278M080AS2AA
2700	35 x 25	20	2.85	3	ELH278M080AT1AA
3300	22 x 50	20	3.15	3	ELH338M080AQ6AA
3300	25 x 40	20	3.20	3	ELH338M080AR4AA
3300	30 x 30	20	3.20	3	ELH338M080AS2AA
3300	35 x 25	20	3.20	3	ELH338M080AT1AA
3900	25 x 45	20	3.60	3	ELH398M080AR5AA
3900	30 x 35	20	3.60	3	ELH398M080AS3AA
3900	35 x 30	20	3.60	3	ELH398M080AT2AA
4700	25 x 50	20	4.05	3	ELH478M080AR6AA
4700	30 x 40	20	4.05	3	ELH478M080AS4AA
4700	35 x 35	20	4.10	3	ELH478M080AT3AA
5600	30 x 45	20	4.55	3	ELH568M080AS5AA
5600	35 x 35	20	4.50	3	ELH568M080AT3AA
6800	30 x 50	20	5.15	3	ELH688M080AS6AA
6800	35 x 40	20	5.15	3	ELH688M080AT4AA
8200	35 x 45	20	5.85	3	ELH828M080AT5AA
10000	35 x 50	20	6.60	3	ELH109M080AT6AA

For capacitor whose capacitance exceeds 1000 μF, the value of D.F. (%) is increased by 2% for every addition of 1000 μF.

* Only for Ø ≥ 35 mm and 4 pin terminals, replace ELH with EHD.

Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	100 Vdc Rated voltage - 125 Vdc Surge voltage			Arcotronics P/N*
		D.F. 120 Hz 25°C ($\text{tg}\delta$ %)	R.C. 120 Hz 85°C (A_{rms})	L.C. 20°C 5 min. (mA)	
820	22 x 25	15	1.85	1.6	ELH827M100AQ1AA
1000	22 x 30	15	2.10	2	ELH108M100AQ2AA
1000	25 x 25	15	2.10	2	ELH108M100AR1AA
1200	22 x 35	15	2.40	2.4	ELH128M100AQ3AA
1200	25 x 30	15	2.45	2.4	ELH128M100AR2AA
1500	22 x 40	15	2.70	3	ELH158M100AQ4AA
1500	25 x 30	15	2.75	3	ELH158M100AR2AA
1500	30 x 25	15	2.75	3	ELH158M100AS1AA
1800	22 x 45	15	3.10	3	ELH188M100AQ5AA
1800	25 x 35	15	3.15	3	ELH188M100AR3AA
1800	30 x 30	15	3.15	3	ELH188M100AS2AA
1800	35 x 25	15	3.15	3	ELH188M100AT1AA
2200	22 x 50	15	3.50	3	ELH228M100AQ6AA
2200	25 x 40	15	3.55	3	ELH228M100AR4AA
2200	30 x 30	15	3.55	3	ELH228M100AS2AA
2200	35 x 25	15	3.60	3	ELH228M100AT1AA
2700	25 x 45	15	4.10	3	ELH278M100AR5AA
2700	30 x 35	15	4.05	3	ELH278M100AS3AA
2700	35 x 30	15	4.05	3	ELH278M100AT2AA
3300	25 x 50	15	4.50	3	ELH338M100AR6AA
3300	30 x 40	15	4.55	3	ELH338M100AS4AA
3300	35 x 30	15	4.50	3	ELH338M100AT2AA
3900	30 x 45	15	5.15	3	ELH398M100AS5AA
3900	35 x 35	15	5.10	3	ELH398M100AT3AA
4700	35 x 40	15	5.75	3	ELH478M100AT4AA
5600	35 x 50	15	6.20	3	ELH568M100AT6AA

For capacitor whose capacitance exceeds 1000 μF , the value of D.F. (%) is increased by 2% for every addition of 1000 μF .

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELH with EHD.

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	160 Vdc Rated voltage - 200 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 85°C (A_{rms})		
270	22 x 25	10	0.338	1.15	0.9	ELH277M160AQ1AA
330	22 x 25	10	0.276	1.40	1	ELH337M160AQ1AA
330	25 x 20	15	0.276	1.35	1	ELH337M160AR7AA
390	22 x 25	10	0.234	1.55	1.2	ELH397M160AQ1AA
390	22 x 30	10	0.234	1.55	1.2	ELH397M160AQ2AA
390	25 x 25	10	0.234	1.55	1.2	ELH397M160AR1AA
390	30 x 25	10	0.234	1.50	1.2	ELH397M160AS1AA
470	22 x 30	10	0.210	1.75	1.5	ELH477M160AQ2AA
470	25 x 25	10	0.212	1.75	1.5	ELH477M160AR1AA
470	30 x 25	10	0.218	1.70	1.5	ELH477M160AS1AA
560	22 x 30	10	0.178	1.95	1.8	ELH567M160AQ2AA
560	25 x 30	10	0.178	1.95	1.8	ELH567M160AR2AA
560	30 x 25	10	0.178	1.90	1.8	ELH567M160AS1AA
680	22 x 40	10	0.146	2.20	2.2	ELH687M160AQ4AA
680	25 x 30	10	0.146	2.20	2.2	ELH687M160AR2AA
680	30 x 25	10	0.146	2.15	2.2	ELH687M160AS1AA
820	22 x 45	10	0.121	2.50	2.6	ELH827M160AQ5AA
820	25 x 35	10	0.121	2.55	2.6	ELH827M160AR3AA
820	30 x 30	10	0.121	2.50	2.6	ELH827M160AS2AA
820	35 x 25	15	0.121	2.50	2.6	ELH827M160AT1AA
1000	22 x 50	10	0.110	2.85	3	ELH108M160AQ6AA
1000	25 x 40	10	0.110	2.80	3	ELH108M160AR4AA
1000	30 x 30	10	0.118	2.80	3	ELH108M160AS2AA
1000	30 x 35	10	0.118	2.80	3	ELH108M160AS3AA
1000	35 x 25	15	0.118	2.80	3	ELH108M160AT1AA
1200	25 x 45	10	0.100	3.15	3	ELH128M160AR5AA
1200	30 x 35	10	0.110	3.15	3	ELH128M160AS3AA
1200	35 x 30	15	0.115	3.20	3	ELH128M160AT2AA
1500	30 x 40	10	0.092	3.75	3	ELH158M160AS4AA
1500	30 x 45	10	0.092	3.75	3	ELH158M160AS5AA
1500	35 x 30	15	0.092	3.70	3	ELH158M160AT2AA
1500	35 x 35	15	0.092	3.70	3	ELH158M160AT3AA
1800	30 x 45	10	0.085	4.20	3	ELH188M160AS5AA
1800	30 x 50	10	0.085	4.20	3	ELH188M160AS6AA
1800	35 x 35	15	0.085	4.20	3	ELH188M160AT3AA
1800	35 x 40	15	0.085	4.20	3	ELH188M160AT4AA
2200	35 x 40	15	0.075	4.60	3	ELH228M160AT4AA
2200	35 x 45	15	0.075	4.80	3	ELH228M160AT5AA
2700	35 x 50	15	0.060	5.45	3	ELH278M160AT6AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELH with EHD.

Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	180 Vdc Rated voltage - 225 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C ($\text{tg}\delta$ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 85°C (A_{rms})		
180	22 x 20	15	0.380	1.00	0.6	ELH187M180AQ7AA
220	22 x 25	10	0.350	1.10	0.8	ELH227M180AQ1AA
270	22 x 25	10	0.270	1.25	1	ELH277M180AQ1AA
270	25 x 20	15	0.270	1.25	1	ELH277M180AR7AA
330	22 x 25	10	0.240	1.40	1.2	ELH337M180AQ1AA
330	22 x 30	10	0.240	1.40	1.2	ELH337M180AQ2AA
330	25 x 25	10	0.240	1.40	1.2	ELH337M180AR1AA
390	22 x 30	10	0.195	1.60	1.4	ELH397M180AQ2AA
390	25 x 25	10	0.195	1.60	1.4	ELH397M180AR1AA
470	22 x 35	10	0.175	1.80	1.7	ELH477M180AQ3AA
470	25 x 30	10	0.175	1.80	1.7	ELH477M180AR2AA
470	30 x 25	10	0.175	1.80	1.7	ELH477M180AS1AA
560	22 x 35	10	0.140	2.00	2	ELH567M180AQ3AA
560	22 x 40	10	0.140	2.00	2	ELH567M180AQ4AA
560	25 x 30	10	0.140	1.95	2	ELH567M180AR2AA
560	30 x 25	10	0.140	2.00	2	ELH567M180AS1AA
680	22 x 45	10	0.135	2.25	2.4	ELH687M180AQ5AA
680	25 x 35	10	0.135	2.20	2.4	ELH687M180AR3AA
680	30 x 30	10	0.135	2.20	2.4	ELH687M180AS2AA
680	35 x 25	15	0.135	2.20	2.4	ELH687M180AT1AA
820	22 x 50	10	0.110	2.55	2.9	ELH827M180AQ6AA
820	25 x 40	10	0.110	2.55	2.9	ELH827M180AR4AA
820	30 x 30	10	0.110	2.60	2.9	ELH827M180AS2AA
820	30 x 35	10	0.110	2.60	2.9	ELH827M180AS3AA
820	35 x 25	15	0.110	2.60	2.9	ELH827M180AT1AA
1000	25 x 45	10	0.095	2.85	3	ELH108M180AR5AA
1000	30 x 35	10	0.095	2.85	3	ELH108M180AS3AA
1000	35 x 30	15	0.095	2.90	3	ELH108M180AT2AA
1200	30 x 40	10	0.083	3.25	3	ELH128M180AS4AA
1200	35 x 30	15	0.083	3.30	3	ELH128M180AT2AA
1200	35 x 35	15	0.083	3.30	3	ELH128M180AT3AA
1500	30 x 45	10	0.072	3.85	3	ELH158M180AS5AA
1500	35 x 35	15	0.072	3.80	3	ELH158M180AT3AA
1500	35 x 40	15	0.072	3.80	3	ELH158M180AT4AA
1800	35 x 40	15	0.066	4.30	3	ELH188M180AT4AA
1800	35 x 45	15	0.066	4.30	3	ELH188M180AT5AA
2200	35 x 45	15	0.054	4.90	3	ELH228M180AT5AA
2200	35 x 50	15	0.054	4.90	3	ELH228M180AT6AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELH with EHD.

Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	200 Vdc Rated voltage - 250 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C ($\text{tg}\delta$ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 85°C (A_{rms})		
180	22 x 25	10	0.350	0.95	0.7	ELH187M200AQ1AA
220	22 x 25	10	0.320	1.10	0.9	ELH227M200AQ1AA
270	22 x 25	10	0.255	1.25	1.1	ELH277M200AQ1AA
270	22 x 30	10	0.255	1.25	1.1	ELH277M200AQ2AA
270	25 x 25	10	0.255	1.25	1.1	ELH277M200AR1AA
330	22 x 25	10	0.220	1.45	1.3	ELH337M200AQ1AA
330	22 x 30	10	0.220	1.45	1.3	ELH337M200AQ2AA
330	25 x 25	10	0.220	1.45	1.3	ELH337M200AR1AA
390	22 x 30	10	0.180	1.60	1.6	ELH397M200AQ2AA
390	25 x 25	10	0.180	1.55	1.6	ELH397M200AR1AA
470	22 x 35	10	0.150	1.80	1.9	ELH477M200AQ3AA
470	25 x 30	10	0.160	1.80	1.9	ELH477M200AR2AA
470	30 x 25	10	0.160	1.80	1.9	ELH477M200AS1AA
560	22 x 40	10	0.127	2.00	2.2	ELH567M200AQ4AA
560	25 x 35	10	0.117	2.00	2.2	ELH567M200AR3AA
560	30 x 25	10	0.120	2.00	2.2	ELH567M200AS1AA
680	22 x 45	10	0.121	2.35	2.7	ELH687M200AQ5AA
680	25 x 35	10	0.121	2.30	2.7	ELH687M200AR3AA
680	30 x 30	10	0.121	2.30	2.7	ELH687M200AS2AA
680	35 x 25	15	0.125	2.30	2.7	ELH687M200AT1AA
820	25 x 40	10	0.100	2.60	3	ELH827M200AR4AA
820	25 x 45	10	0.100	2.60	3	ELH827M200AR5AA
820	30 x 30	10	0.100	2.60	3	ELH827M200AS2AA
820	30 x 35	10	0.100	2.60	3	ELH827M200AS3AA
820	35 x 30	15	0.100	2.60	3	ELH827M200AT2AA
1000	25 x 45	10	0.090	3.00	3	ELH108M200AR5AA
1000	25 x 50	10	0.090	3.00	3	ELH108M200AR6AA
1000	30 x 35	10	0.090	3.05	3	ELH108M200AS3AA
1000	30 x 40	10	0.090	3.05	3	ELH108M200AS4AA
1000	35 x 30	15	0.090	3.00	3	ELH108M200AT2AA
1200	25 x 50	10	0.080	3.30	3	ELH128M200AR6AA
1200	30 x 40	10	0.080	3.30	3	ELH128M200AS4AA
1200	30 x 45	10	0.080	3.30	3	ELH128M200AS5AA
1200	35 x 30	15	0.080	3.30	3	ELH128M200AT2AA
1200	35 x 35	15	0.080	3.30	3	ELH128M200AT3AA
1500	30 x 45	10	0.072	3.80	3	ELH158M200AS5AA
1500	30 x 50	10	0.072	3.80	3	ELH158M200AS6AA
1500	35 x 35	15	0.072	3.80	3	ELH158M200AT3AA
1500	35 x 40	15	0.072	3.80	3	ELH158M200AT4AA
1800	35 x 40	15	0.060	4.35	3	ELH188M200AT4AA
1800	35 x 45	15	0.060	4.35	3	ELH188M200AT5AA
2200	35 x 45	15	0.054	4.95	3	ELH228M200AT5AA
2200	35 x 50	15	0.054	4.95	3	ELH228M200AT6AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELH with EHD.

Rated cap. 120 Hz 20°C (µF)	Case size DxL (mm)	250 Vdc Rated voltage - 300 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tgδ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 85°C (A _{rms})		
120	22 x 20	15	0.660	0.78	0.6	ELH127M250AQ7AA
150	22 x 25	10	0.485	0.90	0.7	ELH157M250AQ1AA
180	22 x 25	10	0.365	1.05	0.9	ELH187M250AQ1AA
180	25 x 20	15	0.365	1.00	0.9	ELH187M250AR7AA
220	22 x 30	10	0.298	1.15	1.1	ELH227M250AQ2AA
220	22 x 35	10	0.298	1.15	1.1	ELH227M250AQ3AA
220	25 x 25	10	0.298	1.15	1.1	ELH227M250AR1AA
270	22 x 30	10	0.245	1.30	1.3	ELH277M250AQ2AA
270	25 x 25	10	0.245	1.30	1.3	ELH277M250AR1AA
330	22 x 30	10	0.219	1.50	1.6	ELH337M250AQ2AA
330	22 x 35	10	0.219	1.50	1.6	ELH337M250AQ3AA
330	25 x 25	10	0.219	1.50	1.6	ELH337M250AR1AA
330	25 x 30	10	0.219	1.50	1.6	ELH337M250AR2AA
330	30 x 25	10	0.219	1.50	1.6	ELH337M250AS1AA
390	22 x 35	10	0.186	1.65	1.9	ELH397M250AQ3AA
390	22 x 40	10	0.186	1.65	1.9	ELH397M250AQ4AA
390	25 x 35	10	0.186	1.65	1.9	ELH397M250AR3AA
390	30 x 25	10	0.186	1.65	1.9	ELH397M250AS1AA
470	22 x 40	10	0.155	1.85	2.3	ELH477M250AQ4AA
470	22 x 45	10	0.155	1.85	2.3	ELH477M250AQ5AA
470	25 x 35	10	0.155	1.85	2.3	ELH477M250AR3AA
470	30 x 30	10	0.155	1.90	2.3	ELH477M250AS2AA
470	35 x 25	15	0.155	1.90	2.3	ELH477M250AT1AA
560	22 x 45	10	0.131	2.10	2.8	ELH567M250AQ5AA
560	22 x 50	10	0.131	2.10	2.8	ELH567M250AQ6AA
560	25 x 40	10	0.131	2.10	2.8	ELH567M250AR4AA
560	30 x 30	10	0.131	2.10	2.8	ELH567M250AS2AA
560	30 x 35	10	0.131	2.10	2.8	ELH567M250AS3AA
560	35 x 25	15	0.131	2.10	2.8	ELH567M250AT1AA
680	25 x 45	10	0.110	2.45	3	ELH687M250AR5AA
680	25 x 50	10	0.110	2.45	3	ELH687M250AR6AA
680	30 x 35	10	0.110	2.45	3	ELH687M250AS3AA
680	30 x 40	10	0.110	2.45	3	ELH687M250AS4AA
680	35 x 25	15	0.110	2.45	3	ELH687M250AT1AA
680	35 x 30	15	0.110	2.45	3	ELH687M250AT2AA
820	30 x 35	10	0.108	2.75	3	ELH827M250AS3AA
820	30 x 45	10	0.108	2.75	3	ELH827M250AS5AA
820	35 x 30	15	0.108	2.75	3	ELH827M250AT2AA
820	35 x 35	15	0.108	2.75	3	ELH827M250AT3AA
1000	30 x 45	10	0.093	3.30	3	ELH108M250AS5AA
1000	30 x 50	10	0.093	3.30	3	ELH108M250AS6AA
1000	35 x 35	15	0.093	3.30	3	ELH108M250AT3AA
1000	35 x 40	15	0.093	3.30	3	ELH108M250AT4AA
1200	35 x 40	15	0.075	3.55	3	ELH128M250AT4AA
1200	35 x 45	15	0.075	3.55	3	ELH128M250AT5AA
1500	35 x 45	15	0.072	4.05	3	ELH158M250AT5AA
1500	35 x 50	15	0.072	4.05	3	ELH158M250AT6AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELH with EHD.

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	350 Vdc Rated voltage - 400 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 85°C (A_{rms})		
68	22 x 20	15	0.890	0.55	0.5	ELH686M350AQ7AA
82	22 x 25	15	0.720	0.65	0.6	ELH826M350AQ1AA
82	25 x 20	15	0.720	0.65	0.6	ELH826M350AR7AA
100	22 x 30	15	0.595	0.90	0.7	ELH107M350AQ2AA
100	25 x 20	15	0.595	0.90	0.7	ELH107M350AR7AA
120	22 x 30	15	0.510	1.00	0.8	ELH127M350AQ2AA
120	25 x 25	15	0.510	1.00	0.8	ELH127M350AR1AA
150	22 x 35	15	0.412	1.15	1	ELH157M350AQ3AA
150	25 x 30	15	0.412	1.15	1	ELH157M350AR2AA
150	30 x 25	15	0.412	1.15	1	ELH157M350AS1AA
180	22 x 40	15	0.343	1.30	1.3	ELH187M350AQ4AA
180	25 x 30	15	0.343	1.25	1.3	ELH187M350AR2AA
180	30 x 30	15	0.343	1.25	1.3	ELH187M350AS2AA
220	22 x 45	15	0.285	1.45	1.5	ELH227M350AQ5AA
220	25 x 35	15	0.285	1.45	1.5	ELH227M350AR3AA
220	30 x 30	15	0.285	1.45	1.5	ELH227M350AS2AA
220	35 x 25	15	0.285	1.45	1.5	ELH227M350AT1AA
270	25 x 40	15	0.245	1.65	1.9	ELH277M350AR4AA
270	30 x 35	15	0.245	1.65	1.9	ELH277M350AS3AA
270	35 x 25	15	0.245	1.65	1.9	ELH277M350AT1AA
330	25 x 50	15	0.210	1.80	2.3	ELH337M350AR6AA
330	30 x 40	15	0.210	1.80	2.3	ELH337M350AS4AA
330	35 x 30	15	0.210	1.80	2.3	ELH337M350AT2AA
390	30 x 40	15	0.175	2.00	2.7	ELH397M350AS4AA
390	35 x 30	15	0.175	2.00	2.7	ELH397M350AT2AA
470	30 x 45	15	0.145	2.25	3	ELH477M350AS5AA
470	35 x 35	15	0.145	2.25	3	ELH477M350AT3AA
560	35 x 40	15	0.108	2.50	3	ELH567M350AT4AA
680	35 x 45	15	0.105	2.90	3	ELH687M350AT5AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELH with EHD.

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	400 Vdc Rated voltage - 450 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 85°C (A _{rms})		
56	22 x 20	15	1.210	0.55	0.4	ELH556M400AQ7AA
68	22 x 25	15	0.852	0.60	0.5	ELH686M400AQ1AA
68	25 x 20	15	0.852	0.60	0.5	ELH686M400AR7AA
82	22 x 25	15	0.706	0.80	0.6	ELH826M400AQ1AA
82	25 x 20	15	0.706	0.80	0.6	ELH826M400AR7AA
100	22 x 30	15	0.582	0.90	0.8	ELH107M400AQ2AA
100	25 x 25	15	0.582	0.90	0.8	ELH107M400AR1AA
120	22 x 35	15	0.485	1.05	1	ELH127M400AQ3AA
120	25 x 25	15	0.485	1.05	1	ELH127M400AR1AA
150	22 x 35	15	0.388	1.15	1.2	ELH157M400AQ3AA
150	22 x 40	15	0.388	1.15	1.2	ELH157M400AQ4AA
150	25 x 30	15	0.388	1.15	1.2	ELH157M400AR2AA
150	30 x 25	15	0.388	1.15	1.2	ELH157M400AS1AA
180	22 x 45	15	0.323	1.30	1.4	ELH187M400AQ5AA
180	25 x 35	15	0.323	1.30	1.4	ELH187M400AR3AA
180	30 x 30	15	0.323	1.35	1.4	ELH187M400AS2AA
220	22 x 50	15	0.265	1.50	1.8	ELH227M400AQ6AA
220	25 x 40	15	0.265	1.50	1.8	ELH227M400AR4AA
220	30 x 30	15	0.265	1.50	1.8	ELH227M400AS2AA
220	35 x 25	15	0.265	1.50	1.8	ELH227M400AT1AA
270	25 x 40	15	0.242	1.65	2.2	ELH277M400AR4AA
270	25 x 45	15	0.242	1.65	2.2	ELH277M400AR5AA
270	30 x 35	15	0.242	1.65	2.2	ELH277M400AS3AA
270	35 x 30	15	0.242	1.65	2.2	ELH277M400AT2AA
330	25 x 50	15	0.195	1.90	2.6	ELH337M400AR6AA
330	30 x 40	15	0.195	1.90	2.6	ELH337M400AS4AA
330	35 x 30	15	0.195	1.85	2.6	ELH337M400AT2AA
390	30 x 45	15	0.165	2.15	3	ELH397M400AS5AA
390	35 x 35	15	0.165	2.10	3	ELH397M400AT3AA
470	30 x 50	15	0.130	2.40	3	ELH477M400AS6AA
470	35 x 40	15	0.130	2.40	3	ELH477M400AT4AA
560	35 x 45	15	0.115	2.70	3	ELH567M400AT5AA
680	35 x 50	15	0.095	2.90	3	ELH687M400AT6AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELH with EHD.

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	450 Vdc Rated voltage - 500 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 85°C (A_{rms})		
47	22x25	15	1.460	0.50	0.4	ELH476M450AQ1AA
56	22x25	15	1.230	0.65	0.5	ELH566M450AQ1AA
68	22x30	15	0.937	0.70	0.6	ELH686M450AQ2AA
68	25x25	15	0.937	0.70	0.6	ELH686M450AR1AA
82	22x30	15	0.768	0.80	0.7	ELH826M450AQ2AA
82	25x25	15	0.768	0.80	0.7	ELH826M450AR1AA
100	22x35	15	0.628	0.95	0.9	ELH107M450AQ3AA
100	25x30	15	0.628	0.95	0.9	ELH107M450AR2AA
100	30x25	15	0.628	0.95	0.9	ELH107M450AS1AA
120	22x40	15	0.532	1.05	1.1	ELH127M450AQ4AA
120	25x30	15	0.532	1.05	1.1	ELH127M450AR2AA
120	30x25	15	0.532	1.05	1.1	ELH127M450AS1AA
150	22x45	15	0.425	1.20	1.3	ELH157M450AQ5AA
150	25x35	15	0.425	1.20	1.3	ELH157M450AR3AA
150	30x30	15	0.425	1.20	1.3	ELH157M450AS2AA
180	25x40	15	0.354	1.35	1.6	ELH187M450AR4AA
180	30x35	15	0.354	1.35	1.6	ELH187M450AS3AA
180	35x25	15	0.354	1.35	1.6	ELH187M450AT1AA
220	25x50	15	0.287	1.55	2	ELH227M450AR6AA
220	30x40	15	0.287	1.55	2	ELH227M450AS4AA
220	35x30	15	0.287	1.55	2	ELH227M450AT2AA
270	30x45	15	0.266	1.75	2.4	ELH277M450AS5AA
270	35x35	15	0.266	1.70	2.4	ELH277M450AT3AA
330	30x50	15	0.214	2.00	3	ELH337M450AS6AA
330	35x40	15	0.214	2.00	3	ELH337M450AT4AA
390	35x45	15	0.180	2.25	3	ELH397M450AT5AA
470	35x50	15	0.145	2.50	3	ELH477M450AT6AA
680	35x60	15	0.110	2.90	3	ELH687M450AT8AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELH with EHD.

SNAP-IN TERMINALS – Self extinguishing 85°C / 2000 h

Description

Capacitors with snap lock terminals for P.C.B. mounting.
Aluminum case with insulated sleeve and safety vent at the bottom.
RoHS compliant and Lead-free

Applications

Industrial and professional power electronics,
welding machine, motor drives, battery chargers,
S.M.P.S., U.P.S., inverters converters.

Features

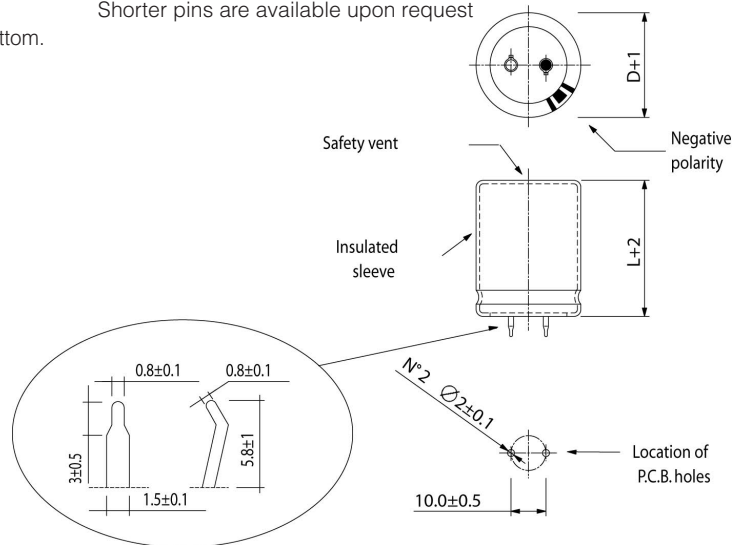
Self extinguishing property of the capacitor's
element is equivalent to UL94-V0.

Marking

ARCOTRONICS' logo
series: (ELS)
operating temperature: (85°C)
rated voltage: (Vdc),
capacitance (μF),
negative polarity (white line),
date code.

Diagram of dimensions (Units=mm) and P.C.B. mounting holes

Shorter pins are available upon request



Electrical characteristics

Rated voltage	400 to 450 Vdc
Operating temperature	-25 to +85°C
Capacitance range	68μF to 680μF
Capacitance tolerance	± 20% at 120Hz / 20°C
Endurance test	2000 h (see conditions in test method and performance)
Leakage current	$I = 0.02 CV (\mu A)$ or 1.5 mA whichever is smaller C = rated capacitance (μF); V = rated voltage (Vdc) (after than D.C. rated working voltage at 20°C has been applied for 5 min)

Impedance Z characteristics at 120 Hz

Rated voltage (Vdc)	400	450
Z (-25°C) / Z (20°C)	8	12

Compensation factor of ripple current (R.C.) vs. frequency

Frequency	50 / 60 Hz	120 Hz	500 Hz	1kHz	≥10 kHz
Multiplier factors	0.80	1.00	1.05	1.10	1.15

Compensation factor of ripple current (R.C.) vs. temperature

Temperature	40°C	60°C	70°C	85°C
Multiplier factors	1.8	1.4	1.2	1.0

Test method and performance

Conditions	Load life test	Shelf life test
Temperature: Test duration: Ripple current: Voltage:	85°C 2000 hours max ripple current at 120 Hz 85°C specified in table the sum of D.C. voltage and the peak A.C. voltage must not exceed the rated voltage of capacitor.	85°C 1000 hours no ripple current applied. no voltage applied.
Performance	The following specifications will be satisfied when the capacitors will be restored at 25°C.	
Capacitance change: Dissipation factor: Leakage current:	within 20% of initial value. not exceed 200% of the initial requirement. not exceed initial requirement.	within 20% of initial value. not exceed 150% of the initial requirement. not exceed initial requirement.

SNAP-IN TERMINALS – Self extinguishing 85°C / 2000 h

Technical data and ordering codes

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	400 Vdc Rated voltage - 450 Vdc Surge voltage			Arcotronics P/N
		D.F. max 120 Hz 25°C (tg δ %)	R.C. 120 Hz 85°C (A_{rms})	L.C. 20°C 5 min. (mA)	
82	22x25	15	0.80	0.66	ELS826M400AQ1AA
100	22x30	15	0.94	0.80	ELS107M400AQ2AA
120	22x30	15	1.04	0.96	ELS127M400AQ2AA
120	25x25	15	1.08	0.96	ELS127M400AR1AA
150	22x35	15	1.18	1.20	ELS157M400AQ3AA
150	25x30	15	1.21	1.20	ELS157M400AR2AA
180	22x40	15	1.34	1.44	ELS187M400AQ4AA
180	25x35	15	1.37	1.44	ELS187M400AR3AA
180	30x25	15	1.45	1.44	ELS187M400AS1AA
220	22x45	15	1.50	1.50	ELS227M400AQ5AA
220	25x35	15	1.56	1.50	ELS227M400AR3AA
220	30x30	15	1.58	1.50	ELS227M400AS2AA
270	25x45	15	1.70	1.50	ELS277M400AR5AA
270	30x35	15	1.73	1.50	ELS277M400AS3AA
330	25x50	15	1.90	1.50	ELS337M400AR6AA
330	30x40	15	1.97	1.50	ELS337M400AS4AA
330	35x30	15	1.95	1.50	ELS337M400AT2AA
390	30x40	15	2.15	1.50	ELS397M400AS4AA
390	35x35	15	2.17	1.50	ELS397M400AT3AA
470	30x50	15	2.39	1.50	ELS477M400AS6AA
470	35x40	15	2.42	1.50	ELS477M400AT4AA
560	35x45	15	2.71	1.50	ELS567M400AT5AA
680	35x50	15	2.95	1.50	ELS687M400AT6AA

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	450 Vdc Rated voltage - 500 Vdc Surge voltage			Arcotronics P/N
		D.F. max 120 Hz 25°C (tg δ %)	R.C. 120 Hz 85°C (A_{rms})	L.C. 20°C 5 min. (mA)	
68	22x25	25	0.68	0.61	ELS686M450AQ1AA
82	22x30	25	0.82	0.74	ELS826M450AQ2AA
100	22x35	25	0.90	0.90	ELS107M450AQ3AA
100	25x25	25	0.92	0.90	ELS107M450AR1AA
120	22x35	25	1.02	1.08	ELS127M450AQ3AA
120	25x30	25	1.04	1.08	ELS127M450AR2AA
120	30x25	25	1.07	1.08	ELS127M450AS1AA
150	22x45	25	1.12	1.35	ELS157M450AQ5AA
150	25x35	25	1.19	1.35	ELS157M450AR3AA
150	30x30	25	1.23	1.35	ELS157M450AS2AA
180	22x50	25	1.26	1.50	ELS187M450AQ6AA
180	25x40	25	1.33	1.50	ELS187M450AR4AA
180	30x30	25	1.38	1.50	ELS187M450AS2AA
220	25x45	25	1.51	1.50	ELS227M450AR5AA
220	30x35	25	1.69	1.50	ELS227M450AS3AA
220	35x30	25	1.71	1.50	ELS227M450AT2AA
220	30x40	25	1.72	1.50	ELS227M450AS4AA
270	25x50	25	1.65	1.50	ELS227M450AR6AA
270	30x40	25	1.80	1.50	ELS227M450AS4AA
270	35x35	25	1.81	1.50	ELS227M450AT3AA
330	30x45	25	2.02	1.50	ELS227M450AS5AA
330	35x35	25	2.05	1.50	ELS227M450AT3AA
390	30x50	25	2.24	1.50	ELS227M450AS6AA
390	35x40	25	2.27	1.50	ELS227M450AT4AA
470	35x45	25	2.55	1.50	ELS227M450AT5AA

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

Description

Capacitors with snap lock terminals for P.C.B. mounting.
Aluminum case with insulated sleeve and safety vent at the bottom.
RoHS compliant and Lead-free

Applications

Industrial and professional power electronics,
welding machine, motor drives traction, battery chargers,
S.M.P.S., U.P.S., inverters converters.

Features

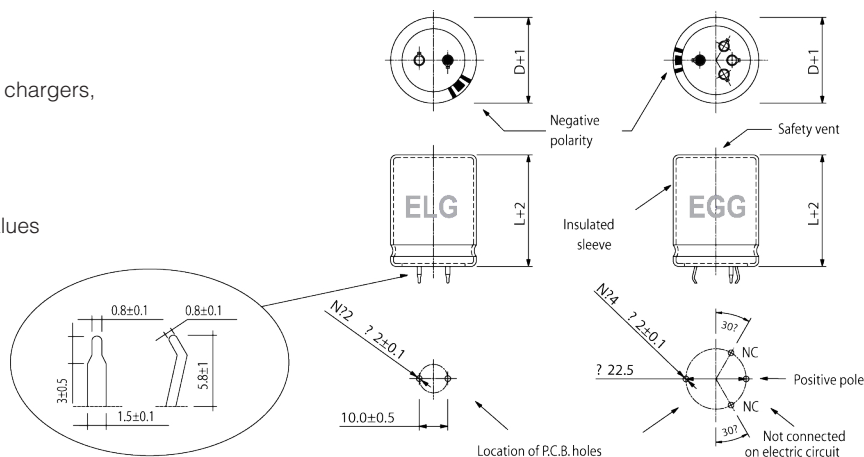
High reliability
Low equivalent series resistance (E.S.R.).
Different case size available for capacitance values

Marking

ARCOTRONICS' logo
series: (ELG or EGG)
operating temperature: (105°C)
rated voltage: (Vdc),
capacitance (μF),
negative polarity (white line),
date code.

Diagram of dimensions (Units=mm) and P.C.B. mounting holes

Shorter pins are available upon request
EGG series only for $\varnothing \geq 35$ mm



Electrical characteristics

Rated voltage	6.3 to 100 Vdc	160 to 450 Vdc
Operating temperature	-40 to +105°C	-25 to +105°C
Capacitance range	560 μF to 82000μF	47 μF to 2200μF.
Capacitance tolerance	± 20% at 120Hz / 20°C	
Endurance test	2000 h (see conditions in Test method and performance)	
Leakage current	I = 0.02 CV (μA) or 3 mA whichever is smaller C = rated capacitance (μF); V = rated voltage (Vdc) (after that DC rated voltage at 20°C has been applied for 5 min)	

Impedance Z characteristics at 120 Hz

Rated voltage (Vdc)	6.3 to 16	25	35	50 to 63	80 to 100	160 to 400	450
Z (-25°C) / Z (20°C)	4	3	3	2	2	4	8
Z (-40°C) / Z (20°C)	15	10	8	6	5		

Compensation factor of ripple current (R.C.) vs. frequency

Rated voltage	50 Hz	60 Hz	120 Hz	1kHz	10 to 100 kHz
from 6.3 to 100Vdc	0.88	0.90	1.00	1.15	1.16
from 160 to 250Vdc	0.85	0.88	1.00	1.15	1.20
from 350 to 450Vdc	0.88	0.90	1.00	1.10	1.15

Compensation factor of ripple current (R.C.) vs. temperature

Temperature	40°C	60°C	70°C	85°C	105°C
Multiplier factors	2.47	2.37	2.17	1.67	1.00

Test method and performance

Conditions	Load life test	Shelf life test
Temperature: Test duration: Ripple current: Voltage:	105°C 2000 hours max ripple current at 120 Hz 105°C specified in table the sum of D.C. voltage and the peak A.C. voltage must not exceed the rated voltage of capacitor.	105°C 1000 hours no ripple current applied. no voltage applied.
Performance	The following specifications will be satisfied when the capacitors will be restored at 25°C.	
Capacitance change: Dissipation factor: Leakage current:	within 20% of initial value. not exceed 200% of the initial requirement. not exceed initial requirement.	within 20% of initial value. not exceed 150% of the initial requirement. not exceed initial requirement.

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

Technical data and ordering codes

6.3 Vdc Rated voltage - 8 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
12000	22 x 25	60	1.55	1.5	ELG129M6R3AQ1AA
15000	22 x 30	60	1.70	1.9	ELG159M6R3AQ2AA
15000	25 x 25	60	1.70	1.9	ELG159M6R3AR1AA
18000	22 x 30	60	1.95	2.3	ELG189M6R3AQ2AA
18000	25 x 25	60	1.95	2.3	ELG189M6R3AR1AA
22000	22 x 35	60	2.25	2.8	ELG229M6R3AQ3AA
22000	25 x 30	60	2.25	2.8	ELG229M6R3AR2AA
22000	30 x 25	60	2.30	2.8	ELG229M6R3AS1AA
27000	22 x 40	60	2.55	3	ELG279M6R3AQ4AA
27000	25 x 35	60	2.55	3	ELG279M6R3AR3AA
27000	30 x 30	60	2.55	3	ELG279M6R3AS2AA
27000	35 x 25	60	2.55	3	ELG279M6R3AT1AA
33000	22 x 45	60	2.90	3	ELG339M6R3AQ5AA
33000	25 x 40	60	2.95	3	ELG339M6R3AR4AA
33000	30 x 30	60	2.90	3	ELG339M6R3AS2AA
33000	35 x 25	60	2.95	3	ELG339M6R3AT1AA
39000	25 x 50	60	3.25	3	ELG399M6R3AR6AA
39000	30 x 35	60	3.25	3	ELG399M6R3AS3AA
39000	35 x 30	60	3.30	3	ELG399M6R3AT2AA
47000	25 x 50	60	3.70	3	ELG479M6R3AR6AA
47000	30 x 40	60	3.70	3	ELG479M6R3AS4AA
56000	30 x 45	60	4.15	3	ELG569M6R3AS5AA
56000	35 x 35	60	4.10	3	ELG569M6R3AT3AA
68000	30 x 50	60	4.70	3	ELG689M6R3AS6AA
68000	35 x 40	60	4.70	3	ELG689M6R3AT4AA
82000	35 x 45	60	5.30	3	ELG829M6R3AT5AA

10 Vdc Rated voltage - 13 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
10000	22 x 25	50	1.55	2	ELG109M010AQ1AA
12000	22 x 30	50	1.75	2.4	ELG129M010AQ2AA
15000	22 x 30	50	1.90	3	ELG159M010AQ2AA
15000	25 x 25	50	1.90	3	ELG159M010AR1AA
18000	22 x 35	50	2.20	3	ELG189M010AQ3AA
18000	25 x 30	50	2.25	3	ELG189M010AR2AA
22000	22 x 40	50	2.50	3	ELG229M010AQ4AA
22000	25 x 35	50	2.55	3	ELG229M010AR3AA
22000	30 x 25	50	2.45	3	ELG229M010AS1AA
27000	22 x 50	50	2.95	3	ELG279M010AQ6AA
27000	25 x 40	50	2.90	3	ELG279M010AR4AA
27000	30 x 30	50	2.85	3	ELG279M010AS2AA
27000	35 x 25	50	2.80	3	ELG279M010AT1AA
33000	25 x 45	50	3.30	3	ELG339M010AR5AA
33000	30 x 35	50	3.30	3	ELG339M010AS3AA
33000	35 x 30	50	3.30	3	ELG339M010AT2AA
39000	25 x 50	50	3.70	3	ELG399M010AR6AA
39000	30 x 40	50	3.70	3	ELG399M010AS4AA
39000	35 x 30	50	3.65	3	ELG399M010AT2AA
47000	30 x 45	50	4.20	3	ELG479M010AS5AA
47000	35 x 35	50	3.80	3	ELG479M010AT3AA
56000	30 x 50	50	4.65	3	ELG569M010AS6AA
56000	35 x 40	50	4.65	3	ELG569M010AT4AA
68000	35 x 50	50	5.50	3	ELG689M010AT6AA

16 Vdc Rated voltage - 20 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
6800	22 x 25	40	1.55	2.2	ELG688M016AQ1AA
8200	22 x 30	40	1.70	2.6	ELG828M016AQ2AA
8200	25 x 25	40	1.70	2.6	ELG828M016AR1AA
10000	22 x 30	40	1.95	3	ELG109M016AQ2AA
10000	25 x 25	40	1.95	3	ELG109M016AR1AA
12000	22 x 35	40	2.20	3	ELG129M016AQ3AA
12000	25 x 30	40	2.25	3	ELG129M016AR2AA
12000	30 x 25	40	2.30	3	ELG129M016AS1AA
15000	22 x 40	40	2.55	3	ELG159M016AQ4AA
15000	25 x 35	40	2.60	3	ELG159M016AR3AA
15000	30 x 30	40	2.60	3	ELG159M016AS2AA
15000	35 x 25	40	2.65	3	ELG159M016AT1AA
18000	22 x 45	40	2.90	3	ELG189M016AQ5AA
18000	25 x 40	40	2.90	3	ELG189M016AR4AA
18000	30 x 30	40	2.90	3	ELG189M016AS2AA
18000	35 x 25	40	2.95	3	ELG189M016AT1AA
22000	25 x 45	40	3.30	3	ELG229M016AR5AA
22000	30 x 35	40	3.30	3	ELG229M016AS3AA
22000	35 x 30	40	3.30	3	ELG229M016AT2AA
27000	25 x 50	40	3.80	3	ELG279M016AR6AA
27000	30 x 40	40	3.75	3	ELG279M016AS4AA
27000	35 x 30	40	3.75	3	ELG279M016AT2AA
33000	30 x 45	40	4.30	3	ELG339M016AS5AA
33000	35 x 35	40	4.25	3	ELG339M016AT3AA
39000	30 x 50	40	4.80	3	ELG399M016AS6AA
39000	35 x 40	40	4.80	3	ELG399M016AT4AA
47000	35 x 45	40	5.45	3	ELG479M016AT5AA

25 Vdc Rated voltage - 32 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
4700	22 x 25	25	1.50	2.3	ELG478M025AQ1AA
5600	22 x 30	25	1.65	2.8	ELG568M025AQ2AA
5600	25 x 25	25	1.65	2.8	ELG568M025AR1AA
6800	22 x 30	25	1.85	3	ELG688M025AQ2AA
6800	25 x 25	25	1.85	3	ELG688M025AR1AA
8200	22 x 35	25	2.10	3	ELG828M025AQ3AA
8200	25 x 30	25	2.10	3	ELG828M025AR2AA
8200	30 x 25	25	2.15	3	ELG828M025AS1AA
10000	22 x 40	25	2.40	3	ELG109M025AQ4AA
10000	25 x 35	25	2.40	3	ELG109M025AR3AA
10000	30 x 30	25	2.40	3	ELG109M025AS2AA
10000	35 x 25	25	2.40	3	ELG109M025AT1AA
12000	22 x 45	25	2.70	3	ELG129M025AQ5AA
12000	25 x 40	25	2.75	3	ELG129M025AR4AA
12000	30 x 30	25	2.70	3	ELG129M025AS2AA
12000	35 x 25	25	2.75	3	ELG129M025AT1AA
15000	25 x 45	25	3.15	3	ELG159M025AR5AA
15000	30 x 35	25	3.15	3	ELG159M025AS3AA
15000	35 x 30	25	3.25	3	ELG159M025AT2AA
18000	25 x 50	25	3.55	3	ELG189M025AR6AA
18000	30 x 40	25	3.55	3	ELG189M025AS4AA
18000	35 x 35	25	3.55	3	ELG189M025AT3AA
22000	30 x 45	25	4.05	3	ELG229M025AS5AA
22000	35 x 35	25	3.80	3	ELG229M025AT3AA
27000	35 x 45	25	4.70	3	ELG279M025AT5AA
33000	35 x 50	25	5.40	3	ELG339M025AT6AA

For capacitor whose capacitance exceeds 1000 μF, the value of D.F. (%) is increased by 2% for every addition of 1000 μF.

* Only for Ø ≥ 35 mm and 4 pin terminals, replace ELG with EGG.

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

35 Vdc Rated voltage - 44 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
3300	22 x 25	25	1.40	2.3	ELG338M035AQ1AA
3900	22 x 30	25	1.55	2.7	ELG388M035AQ2AA
3900	25 x 25	25	1.55	2.7	ELG388M035AR1AA
4700	22 x 35	25	1.80	3	ELG478M035AQ3AA
4700	25 x 25	25	1.80	3	ELG478M035AR1AA
5600	22 x 35	25	1.95	3	ELG568M035AQ3AA
5600	25 x 30	25	1.95	3	ELG568M035AR2AA
5600	30 x 25	25	2.00	3	ELG568M035AS1AA
6800	22 x 40	25	2.20	3	ELG688M035AQ4AA
6800	25 x 35	25	2.25	3	ELG688M035AR3AA
6800	30 x 30	25	2.30	3	ELG688M035AS2AA
6800	35 x 25	25	2.35	3	ELG688M035AT1AA
8200	22 x 50	25	2.55	3	ELG828M035AQ6AA
8200	25 x 40	25	2.50	3	ELG828M035AR4AA
8200	30 x 30	25	2.75	3	ELG828M035AS2AA
8200	35 x 25	25	2.75	3	ELG828M035AT1AA
10000	25 x 45	25	2.85	3	ELG109M035AR5AA
10000	30 x 35	25	2.90	3	ELG109M035AS3AA
10000	35 x 30	25	2.95	3	ELG109M035AT2AA
12000	25 x 50	25	3.25	3	ELG129M035AR6AA
12000	30 x 40	25	3.25	3	ELG129M035AS4AA
12000	35 x 30	25	3.15	3	ELG129M035AT2AA
15000	30 x 45	25	3.70	3	ELG159M035AS5AA
15000	35 x 35	25	3.65	3	ELG159M035AT3AA
18000	35 x 40	25	4.35	3	ELG189M035AT4AA
22000	30 x 50	25	4.90	3	ELG229M035AS6AA

50 Vdc Rated voltage - 63 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
1800	22 x 25	20	1.30	1.8	ELG188M050AQ1AA
2200	22 x 30	20	1.55	2.2	ELG228M050AQ2AA
2200	25 x 25	20	1.55	2.2	ELG228M050AR1AA
2700	22 x 30	20	1.70	2.7	ELG278M050AQ2AA
2700	25 x 25	20	1.70	2.7	ELG278M050AR1AA
3300	22 x 35	20	1.95	3	ELG338M050AQ3AA
3300	25 x 30	20	1.85	3	ELG338M050AR2AA
3900	22 x 40	20	2.15	3	ELG398M050AQ4AA
3900	25 x 35	20	2.20	3	ELG398M050AR3AA
3900	30 x 25	20	1.95	3	ELG398M050AS1AA
4700	22 x 45	20	2.45	3	ELG478M050AQ5AA
4700	25 x 40	20	2.45	3	ELG478M050AR4AA
4700	30 x 30	20	2.45	3	ELG478M050AS2AA
4700	35 x 25	20	2.50	3	ELG478M050AT1AA
5600	22 x 50	20	2.75	3	ELG568M050AQ6AA
5600	25 x 40	20	2.70	3	ELG568M050AR4AA
5600	30 x 35	20	2.75	3	ELG568M050AS3AA
5600	35 x 30	20	2.75	3	ELG568M050AT2AA
6800	25 x 50	20	3.30	3	ELG688M050AR6AA
6800	30 x 40	20	3.30	3	ELG688M050AS4AA
6800	35 x 30	20	3.25	3	ELG688M050AT2AA
8200	30 x 45	20	3.60	3	ELG828M050AS5AA
8200	35 x 35	20	3.55	3	ELG828M050AT3AA
10000	30 x 50	20	4.05	3	ELG109M050AS6AA
10000	35 x 40	20	4.00	3	ELG109M050AT4AA
12000	35 x 45	20	4.55	3	ELG129M050AT5AA

63 Vdc Rated voltage - 79 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
1200	22 x 25	20	1.20	1.5	ELG128M063AQ1AA
1500	22 x 30	20	1.30	1.9	ELG158M063AQ2AA
1500	25 x 25	20	1.30	1.9	ELG158M063AR1AA
1800	22 x 30	20	1.50	2.3	ELG188M063AQ2AA
1800	25 x 25	20	1.50	2.3	ELG188M063AR1AA
2200	22 x 35	20	1.70	2.8	ELG228M063AQ3AA
2200	25 x 30	20	1.75	2.8	ELG228M063AR2AA
2200	30 x 25	20	1.80	2.8	ELG228M063AS1AA
2700	22 x 40	20	2.00	3	ELG278M063AQ4AA
2700	25 x 35	20	2.00	3	ELG278M063AR3AA
2700	30 x 25	20	1.95	3	ELG278M063AS1AA
3300	22 x 50	20	2.30	3	ELG338M063AQ6AA
3300	25 x 40	20	2.30	3	ELG338M063AR4AA
3300	30 x 30	20	2.25	3	ELG338M063AS2AA
3300	35 x 25	20	2.10	3	ELG338M063AT1AA
3900	25 x 45	20	2.55	3	ELG398M063AR5AA
3900	30 x 35	20	2.55	3	ELG398M063AS3AA
3900	35 x 30	20	2.55	3	ELG398M063AT2AA
4700	25 x 50	20	2.85	3	ELG478M063AR6AA
4700	30 x 40	20	2.85	3	ELG478M063AS4AA
4700	35 x 30	20	2.80	3	ELG478M063AT2AA
5600	30 x 45	20	3.20	3	ELG568M063AS5AA
5600	35 x 35	20	3.20	3	ELG568M063AT3AA
6800	30 x 50	20	3.65	3	ELG688M063AS6AA
6800	35 x 40	20	3.65	3	ELG688M063AT4AA
8200	35 x 45	20	3.90	3	ELG828M063AT5AA
10000	35 x 50	20	4.40	3	ELG109M063AT6AA

80 Vdc Rated voltage - 100 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120 Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
820	22 x 25	20	1.10	1.3	ELG827M080AQ1AA
1000	22 x 30	20	1.20	1.6	ELG108M080AQ2AA
1000	25 x 25	20	1.20	1.6	ELG108M080AR1AA
1200	22 x 30	20	1.40	1.9	ELG128M080AQ2AA
1200	25 x 25	20	1.40	1.9	ELG128M080AR1AA
1500	25 x 35	20	1.60	2.4	ELG158M080AR3AA
1500	25 x 30	20	1.60	2.4	ELG158M080AR2AA
1500	30 x 25	20	1.65	2.4	ELG158M080AS1AA
1800	22 x 40	20	1.80	2.9	ELG188M080AQ4AA
1800	25 x 35	20	1.85	2.9	ELG188M080AR3AA
1800	30 x 25	20	1.80	2.9	ELG188M080AS1AA
2200	22 x 45	20	2.05	3	ELG228M080AQ5AA
2200	25 x 35	20	2.00	3	ELG228M080AR3AA
2200	30 x 30	20	2.05	3	ELG228M080AS2AA
2200	35 x 25	20	2.05	3	ELG228M080AT1AA
2700	25 x 45	20	2.35	3	ELG278M080AR5AA
2700	30 x 35	20	2.35	3	ELG278M080AR3AA
2700	35 x 30	20	2.35	3	ELG278M080AT2AA
3300	25 x 50	20	2.70	3	ELG338M080AR6AA
3300	30 x 40	20	2.70	3	ELG338M080AS4AA
3300	35 x 30	20	2.55	3	ELG338M080AT2AA
3900	30 x 45	20	3.00	3	ELG398M080AS5AA
3900	35 x 35	20	3.00	3	ELG398M080AT3AA
4700	30 x 50	20	3.40	3	ELG478M080AS6AA
4700	35 x 40	20	3.40	3	ELG478M080AT4AA
5600	35 x 45	20	3.80	3	ELG568M080AT5AA
6800	35 x 50	20	3.90	3	ELG688M080AT6AA

For capacitor whose capacitance exceeds 1000 μF, the value of D.F. (%) is increased by 2% for every addition of 1000 μF.

* Only for Ø ≥ 35 mm and 4 pin terminals, replace ELG with EGG.

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	100 Vdc Rated voltage - 125 Vdc Surge voltage			Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	R.C. 120 Hz 105°C (A_{rms})	L.C. 20°C 5 min. (mA)	
560	22 x 25	15	1.05	1.1	ELG567M100AQ1AA
680	22 x 25	15	1.20	1.4	ELG687M100AQ1AA
820	22 x 30	15	1.30	1.6	ELG827M100AQ2AA
820	25 x 25	15	1.33	1.6	ELG827M100AR1AA
1000	22 x 35	15	1.50	2	ELG108M100AQ3AA
1000	25 x 30	15	1.50	2	ELG108M100AR2AA
1200	22 x 40	15	1.70	2.4	ELG128M100AQ4AA
1200	25 x 35	15	1.70	2.4	ELG128M100AR3AA
1200	30 x 25	15	1.70	2.4	ELG128M100AS1AA
1500	22 x 45	15	1.95	3	ELG158M100AQ5AA
1500	25 x 40	15	2.00	3	ELG158M100AR4AA
1500	30 x 30	15	1.95	3	ELG158M100AS2AA
1500	35 x 25	15	2.00	3	ELG158M100AT1AA
1800	25 x 45	15	2.20	3	ELG188M100AR5AA
1800	30 x 35	15	2.50	3	ELG188M100AS3AA
1800	35 x 30	15	2.45	3	ELG188M100AT2AA
2200	25 x 50	15	2.55	3	ELG228M100AR6AA
2200	30 x 40	15	2.70	3	ELG228M100AS4AA
2200	35 x 30	15	2.55	3	ELG228M100AT2AA
2700	30 x 45	15	2.90	3	ELG278M100AS5AA
2700	35 x 35	15	2.85	3	ELG278M100AT3AA
3300	30 x 50	15	3.25	3	ELG338M100AS6AA
3300	35 x 40	15	3.25	3	ELG338M100AT4AA
3900	30 x 50	15	3.70	3	ELG398M100AS6AA
3900	35 x 45	15	3.70	3	ELG398M100AT5AA
4700	35 x 40	15	3.20	3	ELG478M100AT4AA
4700	35 x 50	15	3.80	3	ELG478M100AT6AA
6800	35 x 50	15	3.90	3	ELG688M100AT6AA

For capacitor whose capacitance exceeds 1000 μ F, the value of D.F. (%) is increased by 2% for every addition of 1000 μ F.

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELG with EGG.

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	160 Vdc Rated voltage - 200 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})		
220	22 x 20	15	0.338	0.80	1	ELG227M160AQ7AA
270	22 x 25	10	0.338	1.00	0.9	ELG277M160AQ1AA
330	22 x 25	10	0.276	1.20	1	ELG337M160AQ1AA
330	25 x 20	15	0.276	1.15	1.6	ELG337M160AR7AA
390	22 x 30	10	0.234	1.30	1.2	ELG397M160AQ2AA
390	25 x 25	10	0.234	1.30	1.2	ELG397M160AR1AA
470	22 x 30	10	0.210	1.40	1.5	ELG477M160AQ2AA
470	22 x 35	10	0.212	1.40	1.5	ELG477M160AQ3AA
470	25 x 25	10	0.218	1.40	1.5	ELG477M160AR1AA
560	22 x 35	10	0.178	1.50	1.8	ELG567M160AQ3AA
560	22 x 40	10	0.178	1.50	1.8	ELG567M160AQ4AA
560	25 x 30	10	0.182	1.50	1.8	ELG567M160AR2AA
560	30 x 25	10	0.183	1.50	1.8	ELG567M160AS1AA
680	22 x 45	10	0.146	1.70	2.2	ELG687M160AQ5AA
680	25 x 35	10	0.146	1.70	2.2	ELG687M160AR3AA
680	30 x 25	10	0.146	1.70	2.2	ELG687M160AS1AA
820	22 x 50	10	0.121	1.95	2.6	ELG827M160AQ6AA
820	25 x 40	10	0.121	2.00	2.6	ELG827M160AR4AA
820	30 x 30	10	0.121	2.00	2.6	ELG827M160AS2AA
820	35 x 25	15	0.121	1.90	2.6	ELG827M160AT1AA
1000	25 x 45	10	0.110	2.20	3	ELG108M160AR5AA
1000	30 x 35	10	0.110	2.20	3	ELG108M160AS3AA
1000	35 x 30	15	0.110	2.20	3	ELG108M160AT2AA
1200	25 x 50	10	0.110	2.45	3	ELG128M160AR6AA
1200	30 x 40	10	0.110	2.45	3	ELG128M160AS4AA
1200	35 x 30	15	0.115	2.45	3	ELG128M160AT2AA
1500	30 x 45	10	0.092	2.80	3	ELG158M160AS5AA
1500	35 x 35	15	0.092	2.80	3	ELG158M160AT3AA
1800	30 x 50	10	0.085	3.30	3	ELG188M160AS6AA
1800	35 x 40	15	0.090	3.30	3	ELG188M160AT4AA
1800	35 x 45	15	0.090	3.30	3	ELG188M160AT5AA
2200	35 x 45	15	0.075	3.75	3	ELG228M160AT5AA
2200	35 x 50	15	0.075	3.75	3	ELG228M160AT6AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELG with EGG.

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	180 Vdc Rated voltage - 225 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})		
180	22 x 20	15	0.380	0.75	1	ELG187M180AQ7AA
220	22 x 25	10	0.350	0.85	0.8	ELG227M180AQ1AA
270	22 x 25	10	0.270	0.95	1	ELG277M180AQ1AA
270	25 x 20	15	0.270	0.90	1.4	ELG277M180AR7AA
330	22 x 25	10	0.240	1.10	1.2	ELG337M180AQ1AA
330	22 x 30	10	0.240	1.10	1.2	ELG337M180AQ2AA
330	25 x 25	10	0.240	1.10	1.2	ELG337M180AR1AA
390	22 x 30	10	0.195	1.30	1.4	ELG397M180AQ2AA
390	25 x 25	10	0.195	1.30	1.4	ELG397M180AR1AA
470	22 x 30	10	0.172	1.35	1.7	ELG477M180AQ2AA
470	22 x 35	10	0.172	1.40	1.7	ELG477M180AQ3AA
470	25 x 30	10	0.172	1.40	1.7	ELG477M180AR2AA
470	30 x 25	10	0.172	1.40	1.7	ELG477M180AS1AA
560	22 x 40	10	0.140	1.50	2	ELG567M180AQ4AA
560	25 x 35	10	0.140	1.55	2	ELG567M180AR3AA
560	30 x 25	10	0.140	1.50	2	ELG567M180AS1AA
680	22 x 45	10	0.135	1.70	2.4	ELG687M180AQ5AA
680	22 x 50	10	0.135	1.70	2.4	ELG687M180AQ6AA
680	25 x 40	10	0.135	1.75	2.4	ELG687M180AR4AA
680	30 x 30	10	0.135	1.70	2.4	ELG687M180AS2AA
680	35 x 25	15	0.135	1.70	2.4	ELG687M180AT1AA
820	22 x 50	10	0.110	2.00	2.9	ELG827M180AQ6AA
820	25 x 40	10	0.110	2.00	2.9	ELG827M180AR4AA
820	25 x 45	10	0.110	2.00	2.9	ELG827M180AR5AA
820	30 x 30	10	0.110	2.00	2.9	ELG827M180AS2AA
820	30 x 35	10	0.110	2.00	2.9	ELG827M180AS3AA
820	35 x 25	15	0.110	1.90	2.9	ELG827M180AT1AA
1000	25 x 45	10	0.092	2.20	3	ELG108M180AR5AA
1000	25 x 50	10	0.092	2.20	3	ELG108M180AR6AA
1000	30 x 35	10	0.092	2.25	3	ELG108M180AS3AA
1000	30 x 40	10	0.092	2.25	3	ELG108M180AS4AA
1000	35 x 30	15	0.092	2.25	3	ELG108M180AT2AA
1200	25 x 50	10	0.080	2.50	3	ELG128M180AR6AA
1200	30 x 40	10	0.080	2.50	3	ELG128M180AS4AA
1200	30 x 45	10	0.080	2.50	3	ELG128M180AS5AA
1200	35 x 30	15	0.080	2.50	3	ELG128M180AT2AA
1200	35 x 35	15	0.080	2.50	3	ELG128M180AT3AA
1500	30 x 45	10	0.070	2.90	3	ELG158M180AS5AA
1500	30 x 50	10	0.070	2.90	3	ELG158M180AS6AA
1500	35 x 35	15	0.070	2.90	3	ELG158M180AT3AA
1500	35 x 40	15	0.070	2.90	3	ELG158M180AT4AA
1800	35 x 40	15	0.065	3.30	3	ELG188M180AT4AA
1800	35 x 50	15	0.065	3.30	3	ELG188M180AT6AA
2200	35 x 45	15	0.054	3.60	3	ELG228M180AT5AA
2200	35 x 50	15	0.054	3.60	3	ELG228M180AT6AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELG with EGG.

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

Rated cap. 120 Hz 20°C (µF)	Case size DxL (mm)	200 Vdc Rated voltage - 250 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tgδ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A _{rms})		
150	22 x 20	15	0.350	0.65	0.9	ELG157M200AQ7AA
180	22 x 20	15	0.350	0.70	1	ELG187M200AQ7AA
220	22 x 25	10	0.320	0.80	0.9	ELG227M200AQ1AA
220	25 x 20	15	0.320	0.80	1.3	ELG227M200AR7AA
270	22 x 25	10	0.255	0.85	1.1	ELG277M200AQ1AA
270	25 x 25	10	0.255	0.85	1.1	ELG277M200AR1AA
330	22 x 30	10	0.220	1.20	1.3	ELG337M200AQ2AA
330	25 x 25	10	0.220	1.20	1.3	ELG337M200AR1AA
390	22 x 30	10	0.180	1.30	1.6	ELG397M200AQ2AA
390	22 x 35	10	0.180	1.30	1.6	ELG397M200AQ3AA
390	25 x 25	10	0.180	1.30	1.6	ELG397M200AR1AA
390	25 x 30	10	0.180	1.30	1.6	ELG397M200AR2AA
390	30 x 25	10	0.180	1.30	1.6	ELG397M200AS1AA
470	22 x 35	10	0.150	1.40	1.9	ELG477M200AQ3AA
470	22 x 40	10	0.150	1.40	1.9	ELG477M200AQ4AA
470	25 x 30	10	0.150	1.40	1.9	ELG477M200AR2AA
470	30 x 25	10	0.150	1.50	1.9	ELG477M200AS1AA
560	22 x 40	10	0.127	1.55	2.2	ELG567M200AQ4AA
560	22 x 45	10	0.127	1.55	2.2	ELG567M200AQ5AA
560	25 x 35	10	0.117	1.55	2.2	ELG567M200AR3AA
560	30 x 30	10	0.120	1.55	2.2	ELG567M200AS2AA
680	22 x 50	10	0.121	1.75	2.7	ELG687M200AQ6AA
680	25 x 40	10	0.121	1.75	2.7	ELG687M200AR4AA
680	30 x 30	10	0.121	1.75	2.7	ELG687M200AS2AA
680	35 x 25	15	0.125	1.70	2.7	ELG687M200AT1AA
820	25 x 45	10	0.100	2.05	3	ELG827M200AR5AA
820	25 x 50	10	0.100	2.05	3	ELG827M200AR6AA
820	30 x 35	10	0.100	2.00	3	ELG827M200AS3AA
820	35 x 30	15	0.100	2.05	3	ELG827M200AT2AA
1000	30 x 40	10	0.090	2.30	3	ELG108M200AS4AA
1000	30 x 45	10	0.090	2.30	3	ELG108M200AS5AA
1000	35 x 30	15	0.090	2.30	3	ELG108M200AT2AA
1000	35 x 35	15	0.090	2.30	3	ELG108M200AT3AA
1200	30 x 45	10	0.080	2.60	3	ELG128M200AS5AA
1200	30 x 50	10	0.080	2.60	3	ELG128M200AS6AA
1200	35 x 35	15	0.080	2.65	3	ELG128M200AT3AA
1200	35 x 40	15	0.080	2.65	3	ELG128M200AT4AA
1500	35 x 45	15	0.072	3.10	3	ELG158M200AT5AA
1800	35 x 50	15	0.060	3.50	3	ELG188M200AT6AA

* Only for Ø ≥ 35 mm and 4 pin terminals, replace ELG with EGG.

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	250 Vdc Rated voltage - 300 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})		
120	22 x 20	15	0.660	0.60	0.9	ELG127M250AQ7AA
150	22 x 25	10	0.485	0.65	0.7	ELG157M250AQ1AA
180	22 x 25	10	0.365	0.80	0.9	ELG187M250AQ1AA
180	25 x 20	15	0.365	0.75	1.3	ELG187M250AR7AA
220	22 x 25	10	0.298	0.95	1.1	ELG227M250AQ1AA
220	22 x 30	10	0.298	0.95	1.1	ELG227M250AQ2AA
220	25 x 25	10	0.298	0.95	1.1	ELG227M250AR1AA
270	22 x 30	10	0.245	1.15	1.3	ELG277M250AQ2AA
270	22 x 35	10	0.245	1.15	1.3	ELG277M250AQ3AA
270	25 x 25	10	0.245	1.15	1.3	ELG277M250AR1AA
270	25 x 30	10	0.245	1.15	1.3	ELG277M250AR2AA
270	30 x 25	10	0.245	1.15	1.3	ELG277M250AS1AA
330	22 x 35	10	0.219	1.25	1.6	ELG337M250AQ3AA
330	22 x 40	10	0.225	1.25	1.6	ELG337M250AQ4AA
330	25 x 30	10	0.230	1.20	1.6	ELG337M250AR2AA
330	30 x 25	10	0.234	1.25	1.6	ELG337M250AS1AA
390	22 x 40	10	0.186	1.50	1.9	ELG397M250AQ4AA
390	22 x 45	10	0.186	1.50	1.9	ELG397M250AQ5AA
390	25 x 35	10	0.186	1.50	1.9	ELG397M250AR3AA
390	30 x 30	10	0.190	1.50	1.9	ELG397M250AS2AA
470	22 x 45	10	0.155	1.55	2.3	ELG477M250AQ5AA
470	22 x 50	10	0.155	1.55	2.3	ELG477M250AQ6AA
470	25 x 35	10	0.160	1.55	2.3	ELG477M250AR3AA
470	25 x 40	10	0.165	1.55	2.3	ELG477M250AR4AA
470	30 x 30	10	0.168	1.55	2.3	ELG477M250AS2AA
470	35 x 25	15	0.170	1.55	2.3	ELG477M250AT1AA
560	25 x 45	10	0.131	1.80	2.8	ELG567M250AR5AA
560	30 x 30	10	0.131	1.80	2.8	ELG567M250AS2AA
560	30 x 35	10	0.134	1.80	2.8	ELG567M250AS3AA
560	35 x 30	15	0.134	1.80	2.8	ELG567M250AT2AA
680	25 x 50	10	0.110	1.95	3	ELG687M250AR6AA
680	30 x 35	10	0.110	2.00	3	ELG687M250AS3AA
680	30 x 40	10	0.110	2.00	3	ELG687M250AS4AA
680	35 x 30	15	0.110	2.00	3	ELG687M250AT2AA
680	35 x 35	15	0.110	2.00	3	ELG687M250AT3AA
820	30 x 40	10	0.108	2.15	3	ELG827M250AS4AA
820	30 x 45	10	0.108	2.15	3	ELG827M250AS5AA
820	35 x 30	15	0.108	2.10	3	ELG827M250AT2AA
820	35 x 35	15	0.108	2.10	3	ELG827M250AT3AA
1000	35 x 35	15	0.090	2.30	3	ELG108M250AT3AA
1000	35 x 40	15	0.090	2.30	3	ELG108M250AT4AA
1200	35 x 40	15	0.075	2.45	3	ELG128M250AT4AA
1200	35 x 45	15	0.075	2.45	3	ELG128M250AT5AA
1500	35 x 50	15	0.066	3.63	3	ELG158M250AT6AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELG with EGG.

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	350 Vdc Rated voltage - 400 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A _{rms})		
56	22 x 20	15	1.250	0.40	0.6	ELG566M350AQ7AA
68	22 x 25	15	0.890	0.45	0.5	ELG686M350AQ1AA
82	22 x 25	15	0.720	0.55	0.6	ELG826M350AQ1AA
82	25 x 20	15	0.720	0.50	0.9	ELG826M350AR7AA
100	22 x 30	15	0.595	0.70	0.7	ELG107M350AQ2AA
100	25 x 25	15	0.595	0.70	0.7	ELG107M350AR1AA
120	22 x 35	15	0.510	0.75	0.8	ELG127M350AQ3AA
120	25 x 30	15	0.510	0.75	0.8	ELG127M350AR2AA
120	30 x 25	15	0.510	0.75	0.8	ELG127M350AS1AA
150	22 x 40	15	0.412	0.80	1	ELG157M350AQ4AA
150	25 x 30	15	0.412	0.85	1	ELG157M350AR2AA
150	30 x 25	15	0.412	0.85	1	ELG157M350AS1AA
180	22 x 45	15	0.343	0.90	1.3	ELG187M350AQ5AA
180	25 x 30	15	0.343	0.90	1.3	ELG187M350AR2AA
180	25 x 35	15	0.343	0.90	1.3	ELG187M350AR3AA
180	30 x 30	15	0.343	0.90	1.3	ELG187M350AS2AA
220	22 x 50	15	0.285	1.05	1.5	ELG227M350AQ6AA
220	25 x 40	15	0.285	1.05	1.5	ELG227M350AR4AA
220	30 x 30	15	0.285	1.00	1.5	ELG227M350AS2AA
220	35 x 25	15	0.285	1.05	1.5	ELG227M350AT1AA
270	25 x 45	15	0.245	1.20	1.9	ELG277M350AR5AA
270	30 x 35	15	0.245	1.20	1.9	ELG277M350AS3AA
270	35 x 30	15	0.245	1.20	1.9	ELG277M350AT2AA
330	30 x 40	15	0.210	1.35	2.3	ELG337M350AS4AA
330	35 x 35	15	0.210	1.35	2.3	ELG337M350AT3AA
390	30 x 45	15	0.175	1.50	2.7	ELG397M350AS5AA
390	35 x 35	15	0.175	1.50	2.7	ELG397M350AT3AA
470	35 x 40	15	0.145	1.70	3	ELG477M350AT4AA
560	35 x 45	15	0.105	1.90	3	ELG567M350AT5AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELG with EGG.

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	400 Vdc Rated voltage - 450 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})		
47	22 x 20	15	1.420	0.35	0.6	ELG476M400AQ7AA
56	22 x 20	15	1.210	0.40	0.7	ELG566M400AQ7AA
68	22 x 25	15	0.852	0.50	0.5	ELG686M400AQ1AA
68	25 x 20	15	0.852	0.50	0.8	ELG686M400AR7AA
82	22 x 30	15	0.706	0.60	0.6	ELG826M400AQ2AA
82	25 x 25	15	0.706	0.65	0.6	ELG826M400AR1AA
100	22 x 35	15	0.582	0.65	0.8	ELG107M400AQ3AA
100	25 x 30	15	0.582	0.65	0.8	ELG107M400AR2AA
120	22 x 35	15	0.485	0.70	1	ELG127M400AQ3AA
120	25 x 30	15	0.485	0.70	1	ELG127M400AR2AA
120	30 x 25	15	0.485	0.75	1	ELG127M400AS1AA
150	22 x 40	15	0.388	0.80	1.2	ELG157M400AQ4AA
150	25 x 30	15	0.388	0.85	1.2	ELG157M400AR2AA
150	25 x 35	15	0.388	0.85	1.2	ELG157M400AR3AA
150	30 x 30	15	0.388	0.85	1.2	ELG157M400AS2AA
150	35 x 25	15	0.388	0.80	1.2	ELG157M400AT1AA
180	22 x 50	15	0.323	0.95	1.4	ELG187M400AQ6AA
180	25 x 40	15	0.323	0.95	1.4	ELG187M400AR4AA
180	30 x 30	15	0.323	0.90	1.4	ELG187M400AS2AA
180	35 x 25	15	0.323	0.95	1.4	ELG187M400AT1AA
220	25 x 45	15	0.265	1.05	1.8	ELG227M400AR5AA
220	30 x 35	15	0.265	1.05	1.8	ELG227M400AS3AA
220	35 x 30	15	0.265	1.10	1.8	ELG227M400AT2AA
270	25 x 50	15	0.242	1.20	2.2	ELG277M400AR6AA
270	30 x 40	15	0.242	1.20	2.2	ELG277M400AS4AA
270	35 x 35	15	0.242	1.20	2.2	ELG277M400AT3AA
330	30 x 45	15	0.195	1.40	2.6	ELG337M400AS5AA
330	35 x 35	15	0.195	1.35	2.6	ELG337M400AT3AA
390	30 x 40	15	0.165	1.55	3	ELG397M400AS4AA
390	30 x 50	15	0.165	1.55	3	ELG397M400AS6AA
390	35 x 40	15	0.165	1.55	3	ELG397M400AT4AA
470	30 x 50	15	0.130	1.75	3	ELG477M400AS6AA
470	35 x 45	15	0.130	1.75	3	ELG477M400AT5AA
560	35 x 50	15	0.112	1.90	3	ELG567M400AT6AA
680	35 x 60	15	0.092	2.15	3	ELG687M400AT8AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELG with EGG.

SNAP-IN TERMINALS - General purpose 105°C / 2000 h

Rated cap. 120 Hz 20°C (µF)	Case size DxL (mm)	450 Vdc Rated voltage - 500 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tgδ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A _{rms})		
56	22 x 25	15	1.230	0.40	0.5	ELG566M450AQ1AA
68	22 x 30	15	0.937	0.50	0.6	ELG686M450AQ2AA
68	25 x 25	15	0.937	0.50	0.6	ELG686M450AR1AA
82	22 x 35	15	0.768	0.55	0.7	ELG826M450AQ3AA
82	25 x 30	15	0.768	0.55	0.7	ELG826M450AR2AA
82	30 x 25	15	0.768	0.55	0.7	ELG826M450AS1AA
100	22 x 40	15	0.628	0.65	0.9	ELG107M450AQ4AA
100	25 x 30	15	0.628	0.60	0.9	ELG107M450AR2AA
100	30 x 25	15	0.628	0.65	0.9	ELG107M450AS1AA
120	22 x 45	15	0.532	0.70	1.1	ELG127M450AQ5AA
120	25 x 35	15	0.532	0.70	1.1	ELG127M450AR3AA
120	30 x 30	15	0.532	0.70	1.1	ELG127M450AS2AA
120	35 x 25	15	0.532	0.70	1.1	ELG127M450AT1AA
150	22 x 50	15	0.425	0.80	1.3	ELG157M450AQ6AA
150	25 x 40	15	0.425	0.80	1.3	ELG157M450AR4AA
150	30 x 30	15	0.425	0.75	1.3	ELG157M450AS2AA
150	35 x 25	15	0.425	0.75	1.3	ELG157M450AT1AA
180	25 x 45	15	0.354	0.85	1.6	ELG187M450AR5AA
180	30 x 35	15	0.354	0.85	1.6	ELG187M450AS3AA
180	35 x 30	15	0.354	0.85	1.6	ELG187M450AT2AA
220	25 x 50	15	0.287	1.00	2	ELG227M450AR6AA
220	30 x 40	15	0.287	1.00	2	ELG227M450AS4AA
220	35 x 30	15	0.287	1.00	2	ELG227M450AT2AA
270	30 x 45	15	0.266	1.15	2.4	ELG277M450AS5AA
270	35 x 35	15	0.266	1.15	2.4	ELG277M450AT3AA
330	30 x 50	15	0.214	1.40	3	ELG337M450AS6AA
330	35 x 40	15	0.214	1.40	3	ELG337M450AT4AA
390	35 x 45	15	0.180	1.55	3	ELG397M450AT5AA
470	35 x 50	15	0.145	1.70	3	ELG477M450AT6AA
680	35 x 60	15	0.110	2.10	3	ELG687M450AT8AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELG with EGG.

SNAP-IN TERMINALS - Long life 105°C / 3000 h

Description

Capacitors with snap lock terminals for P.C.B. mounting.
Aluminum case with insulated sleeve and safety vent at the bottom.
RoHS compliant and Lead-free

Applications

Industrial and professional power electronics,
welding machine, motor drives traction, battery chargers,
S.M.P.S., U.P.S., inverters converters.

Features

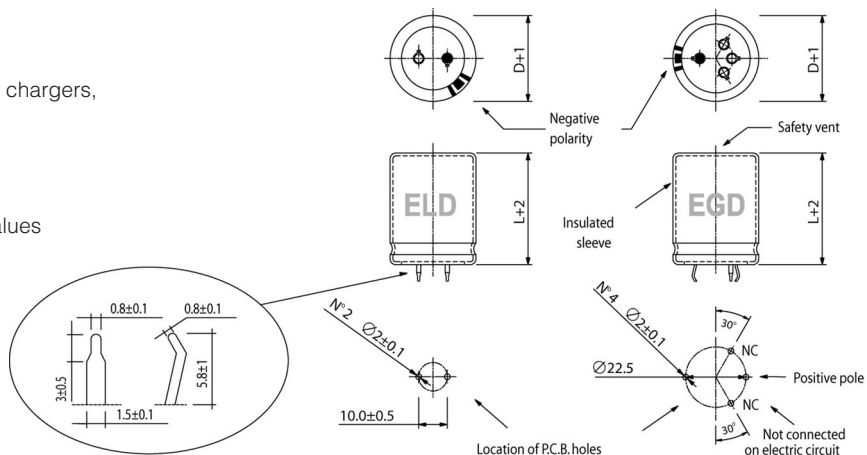
High reliability and long life expectancy
Low equivalent series resistance (E.S.R.).
Different case size available for capacitance values

Marking

ARCOTRONICS' logo
series: (ELD or EGD)
operating temperature: (105°C)
rated voltage: (Vdc),
capacitance (μF),
negative polarity (white line),
date code.

Diagram of dimensions (Units=mm) and P.C.B. mounting holes

Shorter pins are available upon request
EGD series only for $\varnothing \geq 35$ mm



Electrical characteristics

Rated voltage	16 to 450 Vdc
Operating temperature	-40 to +105°C
Capacitance range	47 μF to 22000μF
Capacitance tolerance	± 20% at 120Hz / 20°C
Endurance test	3000 h (see conditions in Test method and performance)
Leakage current	$I = 0.02 CV (\mu A)$ or 1,5mA whichever is greater $C =$ rated capacitance (μF); $V =$ rated voltage (Vdc) (after than D.C. rated working voltage at 20°C has been applied for 5 min)

Impedance Z characteristics at 120 Hz

Rated voltage (Vdc)	16	25	35	50	63	100	160	200	250	350	400	450
Z (-25°C) / Z (20°C)	4	3	3	2	2	2	4	4	4	4	8	8
Z (-40°C) / Z (20°C)	15	10	8	6	6	5	4	8	10	16	18	20

Compensation factor of ripple current (R.C.) vs. frequency

Frequency	50 / 60 Hz	120 Hz	300 Hz	1kHz	≥10 kHz
Multiplier factors	0.8	1.0	1.1	1.3	1.4

Compensation factor of ripple current (R.C.) vs. temperature

Temperature	40°C	60°C	70°C	85°C	105°C
Multiplier factors	2.5	2.2	2.0	1.8	1.00

Test method and performance

Conditions	Load life test	Shelf life test
Temperature: Test duration: Ripple current: Voltage:	105°C 3000 hours max ripple current at 120 Hz 105°C specified in table the sum of D.C. voltage and the peak A.C. voltage must not exceed the rated voltage of capacitor.	105°C 1000 hours no ripple current applied. no voltage applied.
Performance	The following specifications will be satisfied when the capacitors will be restored at 25°C.	
Capacitance change: Dissipation factor: Leakage current:	within 20% of initial value. not exceed 200% of the initial requirement. not exceed initial requirement.	within 20% of initial value. not exceed 150% of the initial requirement. not exceed initial requirement.

SNAP-IN TERMINALS - Long life 105°C / 3000 h

Technical data and ordering codes

16 Vdc Rated voltage - 20 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
4700	22x25	40	1.30	1.50	ELD478M016AQ1AA
6800	22x35	40	1.80	1.50	ELD688M016AQ3AA
6800	25x30	40	1.80	1.50	ELD688M016AR2AA
10000	22x45	40	2.34	1.50	ELD109M016AQ5AA
10000	25x35	40	2.25	1.50	ELD109M016AR3AA
10000	30x25	40	2.19	1.50	ELD109M016AS1AA
15000	25x45	40	2.83	1.50	ELD159M016AR5AA
15000	30x35	40	2.82	1.50	ELD159M016AS3AA
15000	35x30	40	2.82	1.50	ELD159M016AT2AA
22000	30x45	40	2.54	1.50	ELD229M016AS5AA
22000	35x35	40	2.50	1.50	ELD229M016AT3AA

25 Vdc Rated voltage - 32 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
3300	22x25	30	1.25	1.32	ELD338M020AQ1AA
4700	22x30	30	1.61	1.50	ELD478M020AQ2AA
4700	25x25	30	1.61	1.50	ELD478M020AR1AA
6800	22x35	30	1.91	1.50	ELD688M020AQ3AA
6800	25x30	30	1.91	1.50	ELD688M020AR2AA
6800	30x25	30	1.91	1.50	ELD688M020AS1AA
10000	22x45	30	2.51	1.50	ELD109M020AQ5AA
10000	25x35	30	2.42	1.50	ELD109M020AR3AA
10000	30x30	30	2.42	1.50	ELD109M020AS2AA
10000	35x25	30	2.42	1.50	ELD109M020AT1AA
15000	25x45	30	3.12	1.50	ELD159M020AR5AA
15000	30x35	30	3.11	1.50	ELD159M020AS3AA
15000	35x30	30	3.11	1.50	ELD159M020AT2AA
22000	30x45	30	3.85	1.50	ELD229M020AS5AA
22000	35x40	30	3.85	1.50	ELD229M020AT4AA

35 Vdc Rated voltage - 44 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
2200	22x25	25	1.14	1.50	ELD228M035AQ1AA
3300	22x30	25	1.51	1.50	ELD338M035AQ2AA
3300	25x25	25	1.51	1.50	ELD338M035AR1AA
4700	22x35	25	1.92	1.50	ELD478M035AQ3AA
4700	25x30	25	1.92	1.50	ELD478M035AR2AA
4700	30x25	25	1.92	1.50	ELD478M035AS1AA
6800	22x45	25	2.31	1.50	ELD688M035AQ5AA
6800	25x40	25	2.31	1.50	ELD688M035AR4AA
6800	30x30	25	2.33	1.50	ELD688M035AS2AA
6800	35x25	25	2.33	1.50	ELD688M035AT1AA
10000	25x45	25	2.87	1.50	ELD109M035AR5AA
10000	30x35	25	2.87	1.50	ELD109M035AS3AA
10000	35x30	25	2.87	1.50	ELD109M035AT2AA
15000	30x45	25	3.66	1.50	ELD159M035AS5AA
15000	35x40	25	3.66	1.50	ELD159M035AT4AA
22000	35x45	25	4.53	1.50	ELD229M035AT5AA

50 Vdc Rated voltage - 63 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
1500	22x25	20	1.22	1.50	ELD158M050AQ1AA
2200	22x30	20	1.59	1.50	ELD228M050AQ2AA
2200	25x25	20	1.59	1.50	ELD228M050AR1AA
3300	22x35	20	1.93	1.50	ELD338M050AQ3AA
3300	25x30	20	1.88	1.50	ELD338M050AR2AA
3300	30x25	20	1.88	1.50	ELD338M050AS1AA
4700	22x45	20	2.43	1.50	ELD478M050AQ5AA
4700	25x35	20	2.34	1.50	ELD478M050AR3AA
4700	30x30	20	2.42	1.50	ELD478M050AS2AA
4700	35x25	20	2.42	1.50	ELD478M050AT1AA
6800	25x45	20	3.10	1.50	ELD688M050AR5AA
6800	30x35	20	3.10	1.50	ELD688M050AS3AA
6800	35x30	20	3.10	1.50	ELD688M050AT2AA
10000	30x45	20	3.11	1.50	ELD109M050AS5AA
10000	35x40	20	3.20	1.50	ELD109M050AT4AA

63 Vdc Rated voltage - 79 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
1000	22x25	15	1.09	1.26	ELD108M063AQ1AA
1500	22x30	15	1.44	1.50	ELD158M063AQ2AA
1500	25x25	15	1.44	1.50	ELD158M063AR1AA
2200	22x35	15	1.70	1.50	ELD228M063AQ3AA
2200	25x30	15	1.71	1.50	ELD228M063AR2AA
2200	30x25	15	1.78	1.50	ELD228M063AS1AA
3300	22x45	15	2.19	1.50	ELD338M063AQ5AA
3300	25x40	15	2.24	1.50	ELD338M063AR4AA
3300	30x30	15	2.03	1.50	ELD338M063AS2AA
3300	35x25	15	2.03	1.50	ELD338M063AT1AA
4700	30x35	15	2.66	1.50	ELD478M063AS3AA
4700	35x30	15	2.66	1.50	ELD478M063AT2AA
6800	30x45	15	3.49	1.50	ELD688M063AS5AA
6800	35x40	15	3.49	1.50	ELD688M063AT4AA
8200	35x45	15	3.87	1.50	ELD828M063AT5AA

100 Vdc Rated voltage - 125 Vdc Surge voltage					
Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 25°C (tgδ %)	R.C. 120Hz 105°C (A _{rms})	L.C. 20°C 5 min. (mA)	Arcotronics P/N*
1000	22x30	15	1.36	1.50	ELD108M100AQ2AA
1000	25x25	15	1.36	1.50	ELD108M100AR1AA
1500	22x40	15	1.82	1.50	ELD158M100AQ4AA
1500	25x35	15	1.82	1.50	ELD158M100AR3AA
1500	30x25	15	1.80	1.50	ELD158M100AS1AA
2200	25x45	15	2.41	1.50	ELD228M100AR5AA
2200	30x35	15	2.48	1.50	ELD228M100AS3AA
2200	35x30	15	2.48	1.50	ELD228M100AT2AA
3300	30x45	15	3.11	1.50	ELD338M100AS5AA
3300	35x35	15	3.07	1.50	ELD338M100AT3AA
4700	35x45	15	3.47	1.50	ELD478M100AT5AA

* Only for Ø ≥ 35mm and 4 pin terminals, replace ELD with EGD.

SNAP-IN TERMINALS - Long life 105°C / 3000 h

Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	160 Vdc Rated voltage - 200 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tgδ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A _{rms})		
330	22x25	10	0.276	0.98	1.06	ELD337M160AQ1AA
390	22x30	10	0.234	1.10	1.25	ELD397M160AQ2AA
390	25x25	10	0.234	1.09	1.25	ELD397M160AR1AA
470	22x30	10	0.218	1.21	1.50	ELD477M160AQ2AA
470	25x25	10	0.218	1.19	1.50	ELD477M160AR1AA
560	22x35	10	0.183	1.40	1.50	ELD567M160AQ3AA
560	25x30	10	0.183	1.40	1.50	ELD567M160AR2AA
560	30x25	10	0.183	1.40	1.50	ELD567M160AS1AA
680	22x40	10	0.146	1.62	1.50	ELD687M160AQ4AA
680	25x35	10	0.146	1.61	1.50	ELD687M160AR3AA
680	30x25	10	0.146	1.54	1.50	ELD687M160AS1AA
820	22x45	10	0.121	1.86	1.50	ELD827M160AQ5AA
820	25x40	10	0.121	1.86	1.50	ELD827M160AR4AA
820	30x30	10	0.121	1.79	1.50	ELD827M160AS2AA
820	35x25	15	0.121	1.79	1.50	ELD827M160AT1AA
1000	25x45	10	0.110	2.15	1.50	ELD108M160AR5AA
1000	30x35	10	0.110	2.09	1.50	ELD108M160AS3AA
1000	35x25	15	0.110	1.98	1.50	ELD108M160AT1AA
1200	30x35	10	0.115	2.29	1.50	ELD128M160AS3AA
1200	35x30	15	0.115	2.29	1.50	ELD128M160AT2AA
1500	30x35	10	0.092	2.29	1.50	ELD158M160AS3AA
1500	35x35	15	0.092	2.72	1.50	ELD158M160AT3AA
1800	30x45	10	0.090	2.77	1.50	ELD188M160AS5AA
1800	35x40	15	0.090	3.09	1.50	ELD188M160AT4AA

Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	200 Vdc Rated voltage - 250 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tgδ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A _{rms})		
220	22x25	10	0.320	0.92	0.88	ELD227M200AQ1AA
270	22x25	10	0.255	1.03	1.08	ELD277M200AQ1AA
330	22x30	10	0.220	1.21	1.32	ELD337M200AQ2AA
330	25x25	10	0.220	1.20	1.32	ELD337M200AR1AA
390	22x35	10	0.180	1.39	1.50	ELD397M200AQ3AA
390	25x25	10	0.180	1.31	1.50	ELD397M200AR1AA
470	22x40	10	0.150	1.62	1.50	ELD477M200AQ4AA
470	25x30	10	0.150	1.52	1.50	ELD477M200AR2AA
470	30x25	10	0.150	1.54	1.50	ELD477M200AS1AA
560	22x45	10	0.127	1.85	1.50	ELD567M200AQ5AA
560	25x35	10	0.127	1.75	1.50	ELD567M200AR3AA
560	30x30	10	0.127	1.78	1.50	ELD567M200AS2AA
680	22x45	10	0.125	2.04	1.50	ELD687M200AQ5AA
680	25x40	10	0.125	2.04	1.50	ELD687M200AR4AA
680	30x30	10	0.125	1.96	1.50	ELD687M200AS2AA
680	35x25	15	0.125	1.96	1.50	ELD687M200AT1AA
820	25x45	10	0.100	2.34	1.50	ELD827M200AR5AA
820	30x35	10	0.100	2.27	1.50	ELD827M200AS3AA
820	35x30	15	0.100	2.27	1.50	ELD827M200AT2AA
1000	30x40	10	0.090	2.63	1.50	ELD108M200AS4AA
1000	35x30	15	0.090	2.51	1.50	ELD108M200AT2AA
1200	25x50	10	0.080	3.21	1.50	ELD128M200AR6AA
1200	30x45	10	0.080	3.00	1.50	ELD128M200AS5AA
1200	35x35	15	0.080	2.92	1.50	ELD128M200AT3AA
1500	35x45	15	0.072	3.38	1.50	ELD158M200AT5AA

* Only for Ø ≥ 35mm and 4 pin terminals, replace ELD with EGD.

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	250 Vdc Rated voltage - 300 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})		
220	22x30	10	0.298	1.00	1.10	ELD227M250AQ2AA
220	25x25	10	0.298	0.98	1.10	ELD227M250AR1AA
270	22x35	10	0.245	1.16	1.35	ELD277M250AQ3AA
270	25x25	10	0.245	1.08	1.35	ELD277M250AR1AA
330	22x35	10	0.234	1.28	1.50	ELD337M250AQ3AA
330	25x30	10	0.234	1.27	1.50	ELD337M250AR2AA
330	30x25	10	0.234	1.28	1.50	ELD337M250AS1AA
390	22x40	10	0.186	1.48	1.50	ELD397M250AQ4AA
390	25x35	10	0.186	1.46	1.50	ELD397M250AR3AA
390	30x25	10	0.186	1.39	1.50	ELD397M250AS1AA
470	25x40	10	0.170	1.69	1.50	ELD477M250AR4AA
470	30x30	10	0.170	1.63	1.50	ELD477M250AS2AA
470	35x25	15	0.170	1.62	1.50	ELD477M250AT1AA
560	25x45	10	0.134	1.93	1.50	ELD567M250AR5AA
560	30x35	10	0.134	1.87	1.50	ELD567M250AS3AA
560	35x25	15	0.134	1.78	1.50	ELD567M250AT1AA
680	30x35	10	0.110	2.06	1.50	ELD687M250AS3AA
680	35x30	15	0.110	2.06	1.50	ELD687M250AT2AA
820	30x45	10	0.108	2.48	1.50	ELD827M250AS5AA
820	35x35	15	0.108	2.41	1.50	ELD827M250AT3AA
1000	35x40	15	0.090	2.76	1.50	ELD108M250AT4AA
1200	35x45	15	0.075	3.14	1.50	ELD128M250AT5AA

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	350 Vdc Rated voltage - 400 Vdc Surge voltage			L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})		
82	22x25	15	0.720	0.47	0.57	ELD826M350AQ1AA
100	22x30	15	0.595	0.56	0.70	ELD107M350AQ2AA
100	25x25	15	0.595	0.55	0.70	ELD107M350AR1AA
120	22x35	15	0.510	0.72	0.84	ELD127M350AQ3AA
120	25x25	15	0.510	0.60	0.84	ELD127M350AR1AA
150	22x40	15	0.412	0.83	1.05	ELD157M350AQ4AA
150	25x30	15	0.412	0.72	1.05	ELD157M350AR2AA
150	30x25	15	0.412	0.72	1.05	ELD157M350AS1AA
180	25x35	15	0.343	0.83	1.26	ELD187M350AR3AA
180	30x30	15	0.343	0.84	1.26	ELD187M350AS2AA
220	25x40	15	0.285	0.96	1.50	ELD227M350AR4AA
220	30x35	15	0.285	1.09	1.50	ELD227M350AS3AA
220	35x25	15	0.285	0.93	1.50	ELD227M350AT1AA
270	25x45	15	0.245	1.12	1.50	ELD277M350AR5AA
270	30x40	15	0.245	1.26	1.50	ELD277M350AS4AA
270	35x30	15	0.245	1.09	1.50	ELD277M350AT2AA
330	30x45	15	0.210	1.43	1.50	ELD337M350AS5AA
330	35x30	15	0.210	1.20	1.50	ELD337M350AT2AA
390	35x35	15	0.175	1.38	1.50	ELD397M350AT3AA
470	35x40	15	0.145	1.58	1.50	ELD477M350AT4AA
560	35x45	15	0.105	1.79	1.50	ELD560M350AT5AA

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELD with EGD.

Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	400 Vdc Rated voltage - 450 Vdc Surge voltage				L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C ($\text{tg}\delta$ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})			
68	22x25	15	0.852	0.52	0.54	ELD686M400AQ1AA	
82	22x30	15	0.706	0.60	0.66	ELD826M400AQ2AA	
82	25x25	15	0.706	0.60	0.66	ELD826M400AR1AA	
100	22x30	15	0.582	0.67	0.80	ELD107M400AQ2AA	
100	25x25	15	0.582	0.66	0.80	ELD107M400AR1AA	
120	22x35	15	0.485	0.78	0.96	ELD127M400AQ3AA	
120	25x30	15	0.485	0.77	0.96	ELD127M400AR2AA	
120	30x25	15	0.485	0.78	0.96	ELD127M400AS1AA	
150	22x40	15	0.388	0.91	1.20	ELD157M400AQ4AA	
150	25x35	15	0.388	0.91	1.20	ELD157M400AR3AA	
150	30x30	15	0.388	0.92	1.20	ELD157M400AS2AA	
180	22x45	15	0.323	1.04	1.44	ELD187M400AQ5AA	
180	25x40	15	0.323	1.04	1.44	ELD187M400AR4AA	
180	30x30	15	0.323	1.01	1.44	ELD187M400AS2AA	
180	35x25	15	0.323	1.01	1.44	ELD187M400AT1AA	
220	25x45	15	0.265	1.21	1.50	ELD227M400AR5AA	
220	30x35	15	0.265	1.18	1.50	ELD227M400AS3AA	
220	35x30	15	0.265	1.18	1.50	ELD227M400AT2AA	
270	25x50	15	0.242	1.40	1.50	ELD277M400AR6AA	
270	30x40	15	0.242	1.37	1.50	ELD277M400AS4AA	
270	35x30	15	0.242	1.31	1.50	ELD277M400AT2AA	
330	30x45	15	0.195	1.57	1.50	ELD337M400AS5AA	
330	35x35	15	0.195	1.52	1.50	ELD337M400AT3AA	
390	35x40	15	0.165	1.73	1.50	ELD397M400AT4AA	
470	35x45	15	0.130	1.97	1.50	ELD477M400AT5AA	
1000	40x60	15	0.090	3.30	2.40	ELD108M400AV8AA	

Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	450 Vdc Rated voltage - 500 Vdc Surge voltage				L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C ($\text{tg}\delta$ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})			
47	22x25	15	1.305	0.42	0.42	ELD476M450AQ1AA	
68	22x30	15	0.937	0.55	0.61	ELD686M450AQ2AA	
68	25x25	15	0.937	0.54	0.61	ELD686M450AR1AA	
82	22x35	15	0.768	0.64	0.74	ELD826M450AQ3AA	
82	25x30	15	0.768	0.64	0.74	ELD826M450AR2AA	
100	22x40	15	0.635	0.74	0.90	ELD107M450AQ4AA	
100	25x35	15	0.635	0.74	0.90	ELD107M450AR3AA	
100	30x25	15	0.635	0.71	0.90	ELD107M450AS1AA	
120	22x45	15	0.532	0.85	1.08	ELD127M450AQ5AA	
120	25x35	15	0.532	0.80	1.08	ELD127M450AR3AA	
120	30x30	15	0.532	0.82	1.08	ELD127M450AS2AA	
120	35x25	15	0.532	0.82	1.08	ELD127M450AT1AA	
150	25x45	15	0.425	1.00	1.35	ELD157M450AR5AA	
150	30x35	15	0.425	0.96	1.35	ELD157M450AS3AA	
150	35x30	15	0.425	0.96	1.35	ELD157M450AT2AA	
180	25x50	15	0.354	1.14	1.50	ELD187M450AR6AA	
180	30x35	15	0.354	1.06	1.50	ELD187M450AS3AA	
180	35x30	15	0.354	1.06	1.50	ELD187M450AT2AA	
220	30x40	15	0.287	1.22	1.50	ELD227M450AS4AA	
220	35x35	15	0.287	1.24	1.50	ELD227M450AT3AA	
270	35x35	15	0.266	1.26	1.50	ELD277M450AT3AA	
270	35x40	15	0.266	1.43	1.50	ELD277M450AT4AA	
330	35x45	15	0.214	1.64	1.50	ELD337M450AT5AA	
470	35x50	15	0.150	1.85	1.50	ELD477M450AT6AA	

* Only for $\varnothing \geq 35\text{mm}$ and 4 pin terminals, replace ELD with EGD.

SNAP-IN TERMINALS - Long life 105°C / 5000 h

Description

Capacitors with snap lock terminals for P.C.B. mounting.
Aluminum case with insulated sleeve and safety vent at the bottom.
RoHS compliant and Lead-free

Applications

Industrial and professional power electronics,
welding machine, motor drives traction, battery chargers,
S.M.P.S., U.P.S., inverters converters.

Features

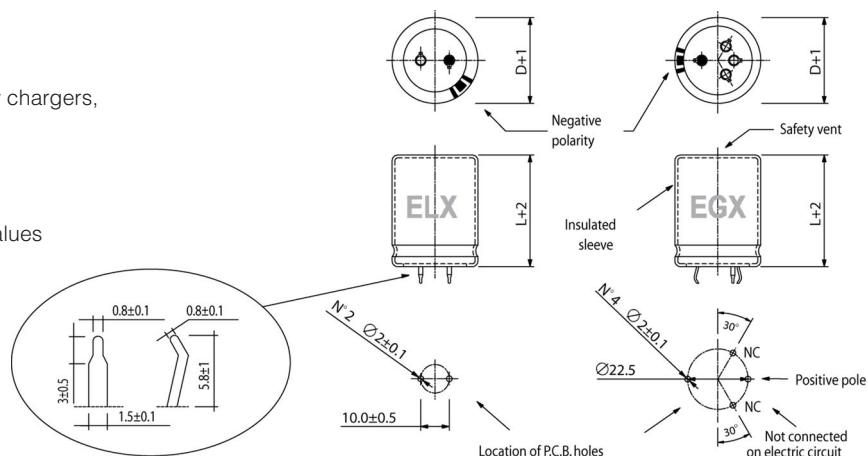
High reliability and long life expectancy
Low equivalent series resistance (E.S.R.).
Different case size available for capacitance values

Marking

ARCOTRONICS' logo series: (ELX or EGX)
operating temperature: (105°C)
rated voltage: (Vdc),
capacitance (μF),
negative polarity (white line),
date code.

Diagram of dimensions (Units=mm) and P.C.B. mounting holes

Shorter pins are available upon request
EGX series only for $\varnothing \geq 35$ mm



Electrical characteristics

Rated voltage	200 to 450 Vdc
Operating temperature	-25 to +105°C
Capacitance range	39 μF to 1200 μF
Capacitance tolerance	$\pm 20\%$ at 120Hz / 20°C
Endurance test	5000 h (see conditions in Test method and performance)
Leakage current	$I = 0.01 \text{ CV } (\mu\text{A})$ or 1,5mA whichever is greater C = rated capacitance (μF); V = rated voltage (Vdc) (after than D.C. rated working voltage at 20°C has been applied for 5 min)

Impedance Z characteristics at 120 Hz

Rated Voltage	200 to 350 Vdc	400 and 450 Vdc
Z (-25°C) / Z (20°C)	4	8

Compensation factor of ripple current (R.C.) vs. frequency

Frequency	50 / 60 Hz	120 Hz	300 Hz	1kHz	≥ 10 kHz
Multiplier factors	0.8	1.0	1.1	1.3	1.4

Compensation factor of ripple current (R.C.) vs. temperature

Temperature	40°C	60°C	70°C	85°C	105°C
Multiplier factors	2.5	2.2	2.0	1.8	1.0

Test method and performance

Conditions	Load life test	Shelf life test
Temperature: Test duration: Ripple current: Voltage:	105°C 5000 hours max ripple current at 120 Hz 105°C specified in table the sum of D.C. voltage and the peak A.C. voltage must not exceed the rated voltage of capacitor.	105°C 1000 hours no ripple current applied. no voltage applied.
Performance	The following specifications will be satisfied when the capacitors will be restored at 25°C.	
Capacitance change: Dissipation factor: Leakage current:	within 25% of initial value. not exceed 250% of the initial requirement. not exceed initial requirement.	within 20% of initial value. not exceed 150% of the initial requirement. not exceed initial requirement.

SNAP-IN TERMINALS - Long life 105°C / 5000 h

Technical data and ordering codes

Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	200 Vdc Rated voltage - 250 Vdc Surge voltage				L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C ($\text{tg}\delta$ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})			
220	22x25	15	0.320	0.72	0.44	ELX227M200AQ1AA	
270	22x30	15	0.255	0.81	0.54	ELX277M200AQ2AA	
270	25x25	15	0.255	0.81	0.54	ELX277M200AR1AA	
330	22x35	15	0.220	0.92	0.66	ELX337M200AQ3AA	
330	25x30	15	0.220	0.92	0.66	ELX337M200AR2AA	
330	30x25	15	0.220	0.94	0.66	ELX337M200AS1AA	
390	22x40	15	0.180	1.02	0.78	ELX397M200AQ4AA	
390	25x30	15	0.180	1.01	0.78	ELX397M200AR2AA	
390	30x25	15	0.180	1.01	0.78	ELX397M200AS1AA	
470	22x50	15	0.150	1.17	0.94	ELX477M200AQ6AA	
470	25x35	15	0.150	1.15	0.94	ELX477M200AR3AA	
470	30x30	15	0.150	1.15	0.94	ELX477M200AS2AA	
470	35x25	15	0.150	1.22	0.94	ELX477M200AT1AA	
560	25x45	15	0.127	1.28	1.12	ELX567M200AR5AA	
560	30x35	15	0.127	1.30	1.12	ELX567M200AS3AA	
560	35x25	15	0.127	1.31	1.12	ELX567M200AT1AA	
680	25x50	15	0.125	1.48	1.36	ELX687M200AR6AA	
680	30x40	15	0.125	1.49	1.36	ELX687M200AS4AA	
680	35x30	15	0.125	1.47	1.36	ELX687M200AT2AA	
820	30x45	15	0.100	1.67	1.64	ELX827M200AS5AA	
820	35x35	15	0.100	1.65	1.64	ELX827M200AT3AA	
1000	30x50	15	0.090	1.91	2.00	ELX108M200AS6AA	
1000	35x40	15	0.090	1.90	2.00	ELX108M200AT4AA	
1200	35x50	15	0.080	2.21	2.40	ELX128M200AT6AA	

Rated cap. 120 Hz 20°C (μF)	Case size DxL (mm)	250 Vdc Rated voltage - 300 Vdc Surge voltage				L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C ($\text{tg}\delta$ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})			
150	22x25	15	0.485	0.57	0.37	ELX157M250AQ1AA	
180	22x30	15	0.365	0.66	0.45	ELX187M250AQ2AA	
180	25x25	15	0.365	0.66	0.45	ELX187M250AR1AA	
220	22x35	15	0.298	0.75	0.55	ELX227M250AQ3AA	
220	25x25	15	0.298	0.75	0.55	ELX227M250AR1AA	
270	22x40	15	0.245	0.85	0.67	ELX277M250AQ4AA	
270	25x30	15	0.245	0.83	0.67	ELX277M250AR2AA	
270	30x25	15	0.245	0.85	0.67	ELX277M250AS1AA	
330	22x45	15	0.234	0.96	0.82	ELX337M250AQ5AA	
330	25x35	15	0.234	0.96	0.82	ELX337M250AR3AA	
330	30x30	15	0.234	0.96	0.82	ELX337M250AS2AA	
330	35x25	15	0.234	1.02	0.82	ELX337M250AT1AA	
390	22x50	15	0.190	1.08	0.97	ELX397M250AQ6AA	
390	25x40	15	0.190	1.07	0.97	ELX397M250AR4AA	
390	30x30	15	0.190	1.07	0.97	ELX397M250AS2AA	
390	35x25	15	0.190	1.12	0.97	ELX397M250AT1AA	
470	25x50	15	0.170	1.22	1.17	ELX477M250AR6AA	
470	30x25	15	0.170	1.19	1.17	ELX477M250AS1AA	
470	35x30	15	0.170	1.22	1.17	ELX477M250AT2AA	
560	30x40	15	0.134	1.35	1.40	ELX567M250AS4AA	
560	35x35	15	0.134	1.36	1.40	ELX567M250AT3AA	
680	30x50	15	0.110	1.58	1.70	ELX687M250AS6AA	
680	35x40	15	0.110	1.57	1.70	ELX687M250AT4AA	
820	35x45	15	0.108	1.75	2.05	ELX827M250AT5AA	
1000	35x50	15	0.090	2.02	2.50	ELX108M250AT6AA	

* Only for $\varnothing \geq 35\text{mm}$ and 4 pin terminals, replace ELX with EGX.

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	350 Vdc Rated voltage - 400 Vdc Surge voltage				L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})			
68	22x25	15	0.890	0.39	0.24	ELX686M350AQ1AA	
82	22x30	15	0.720	0.49	0.29	ELX826M350AQ2AA	
100	22x35	15	0.595	0.55	0.35	ELX107M350AQ3AA	
100	25x25	15	0.595	0.49	0.35	ELX107M350AR1AA	
120	22x40	15	0.510	0.63	0.42	ELX127M350AQ4AA	
120	25x30	15	0.510	0.55	0.42	ELX127M350AR2AA	
120	30x25	15	0.510	0.56	0.42	ELX127M350AS1AA	
150	22x45	15	0.412	0.61	0.52	ELX157M350AQ5AA	
150	25x35	15	0.412	0.60	0.52	ELX157M350AR3AA	
150	30x25	15	0.412	0.60	0.52	ELX157M350AS1AA	
150	35x25	15	0.412	0.69	0.52	ELX157M350AT1AA	
180	22x50	15	0.343	0.73	0.63	ELX187M350AQ6AA	
180	25x40	15	0.343	0.72	0.63	ELX187M350AR4AA	
180	30x30	15	0.343	0.71	0.63	ELX187M350AS2AA	
180	35x25	15	0.343	0.80	0.63	ELX187M350AT1AA	
220	25x50	15	0.285	0.93	0.77	ELX227M350AR6AA	
220	30x35	15	0.285	0.82	0.77	ELX227M350AS3AA	
220	35x30	15	0.285	0.83	0.77	ELX227M350AT2AA	
270	30x40	15	0.245	0.94	0.94	ELX277M350AS4AA	
270	35x35	15	0.245	1.04	0.94	ELX277M350AT3AA	
330	30x50	15	0.210	1.19	1.15	ELX337M350AS6AA	
330	35x40	15	0.210	1.19	1.15	ELX337M350AT4AA	
390	35x45	15	0.175	1.22	1.36	ELX397M350AT5AA	
470	35x50	15	0.145	1.38	1.64	ELX477M350AT6AA	

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	400 Vdc Rated voltage - 450 Vdc Surge voltage				L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})			
56	22x25	15	1.210	0.34	0.22	ELX566M400AQ1AA	
68	22x30	15	0.852	0.44	0.27	ELX686M400AQ2AA	
68	25x25	15	0.852	0.40	0.27	ELX686M400AR1AA	
82	22x35	15	0.706	0.50	0.33	ELX826M400AQ3AA	
82	25x25	15	0.706	0.50	0.33	ELX826M400AR1AA	
100	22x35	15	0.582	0.56	0.40	ELX107M400AQ3AA	
100	25x30	15	0.582	0.50	0.40	ELX107M400AR2AA	
100	30x25	15	0.582	0.51	0.40	ELX107M400AS1AA	
120	22x40	15	0.485	0.57	0.48	ELX127M400AQ4AA	
120	25x35	15	0.485	0.58	0.48	ELX127M400AR3AA	
120	30x25	15	0.485	0.59	0.48	ELX127M400AS1AA	
120	35x25	15	0.485	0.61	0.48	ELX127M400AT1AA	
150	22x50	15	0.388	0.67	0.60	ELX157M400AQ6AA	
150	25x40	15	0.388	0.66	0.60	ELX157M400AR4AA	
150	30x25	15	0.388	0.65	0.60	ELX157M400AS1AA	
150	35x25	15	0.388	0.73	0.60	ELX157M400AT1AA	
180	25x45	15	0.323	0.75	0.72	ELX187M400AR5AA	
180	30x35	15	0.323	0.74	0.72	ELX187M400AS3AA	
180	35x30	15	0.323	0.83	0.72	ELX187M400AT2AA	
220	25x50	15	0.265	0.84	0.88	ELX227M400AR6AA	
220	30x40	15	0.265	0.84	0.88	ELX227M400AS4AA	
220	35x35	15	0.265	0.94	0.88	ELX227M400AT3AA	
270	30x50	15	0.242	1.10	1.08	ELX277M400AS6AA	
270	35x40	15	0.242	1.09	1.08	ELX277M400AT4AA	
330	35x45	15	0.210	1.24	1.32	ELX337M400AT5AA	
390	35x50	15	0.175	1.26	1.56	ELX397M400AT6AA	

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELX with EGX.

Rated cap. 120 Hz 20°C (μ F)	Case size DxL (mm)	450 Vdc Rated voltage - 500 Vdc Surge voltage				L.C. 20°C 5 min. (mA)	Arcotronics P/N*
		D.F. 120 Hz 25°C (tg δ %)	E.S.R. max 20 kHz 25°C (Ω)	R.C. 120 Hz 105°C (A_{rms})			
39	22x25	15	1.410	0.37	0.17	ELX396M450AQ1AA	
47	22x30	15	1.305	0.41	0.21	ELX476M450AQ2AA	
56	22x30	15	1.230	0.44	0.25	ELX566M450AQ2AA	
56	25x25	15	1.230	0.47	0.25	ELX566M450AR1AA	
68	22x35	15	0.937	0.50	0.31	ELX686M450AQ3AA	
68	25x30	15	0.937	0.53	0.31	ELX686M450AR2AA	
82	22x40	15	0.768	0.56	0.37	ELX826M450AQ4AA	
82	25x30	15	0.768	0.55	0.37	ELX826M450AR2AA	
82	30x25	15	0.768	0.57	0.37	ELX826M450AS1AA	
100	22x45	15	0.635	0.64	0.45	ELX107M450AQ5AA	
100	25x35	15	0.635	0.63	0.45	ELX107M450AR3AA	
100	30x30	15	0.635	0.64	0.45	ELX107M450AS2AA	
120	22x50	15	0.532	0.72	0.54	ELX127M450AQ6AA	
120	25x40	15	0.532	0.71	0.54	ELX127M450AR4AA	
120	30x30	15	0.532	0.71	0.54	ELX127M450AS2AA	
120	35x25	15	0.532	0.71	0.54	ELX127M450AT1AA	
150	25x45	15	0.425	0.71	0.67	ELX157M450AR5AA	
150	30x35	15	0.425	0.81	0.67	ELX157M450AS3AA	
150	35x30	15	0.425	0.83	0.67	ELX157M450AT2AA	
180	25x50	15	0.354	0.91	0.81	ELX187M450AR6AA	
180	30x40	15	0.354	0.92	0.81	ELX187M450AS4AA	
180	35x35	15	0.354	0.93	0.81	ELX187M450AT3AA	
220	30x45	15	0.287	1.05	0.99	ELX227M450AS5AA	
220	35x40	15	0.287	1.07	0.99	ELX227M450AT4AA	
270	35x45	15	0.266	1.22	1.21	ELX277M450AT5AA	
330	35x50	15	0.214	1.39	1.48	ELX337M450AT6AA	

* Only for $\varnothing \geq 35$ mm and 4 pin terminals, replace ELX with EGX.