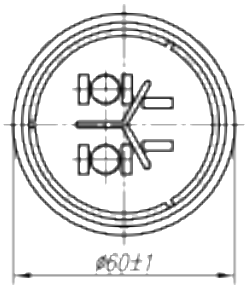
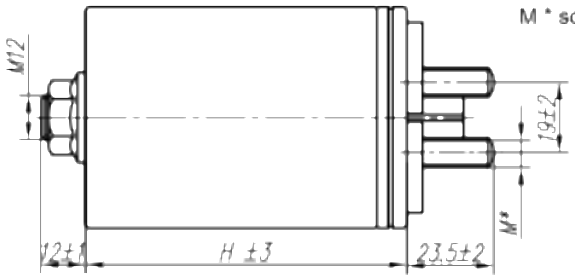
MIFLEX Solutions

MKSP-I35

POLYPROPYLENE AC AND DC CAPACITORS FOR POWER ELECTRONICS DEVICES

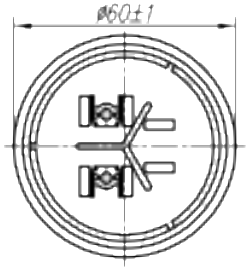
Version 1 (A)

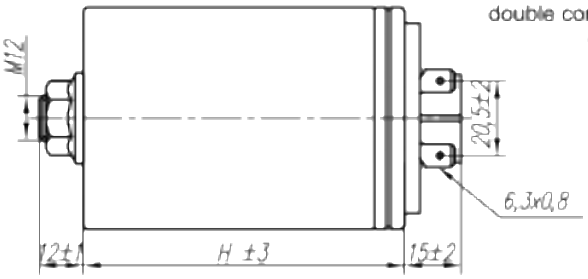




Lead:
M * screw, see page 3

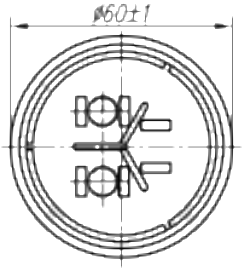
Version 2 (B)

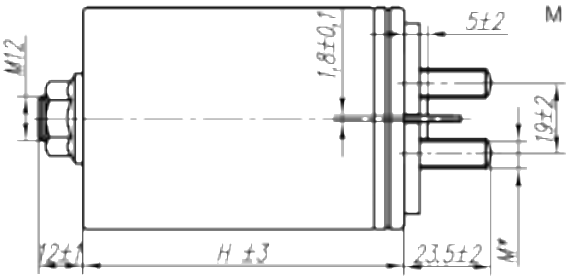




Lead:
double connector 6.3x0.8

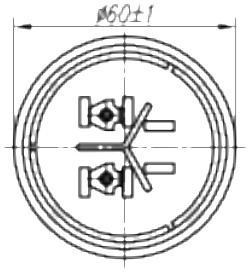
Version 3 (C)

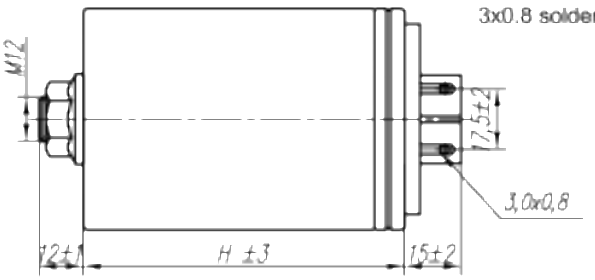




Lead:
M * screw, see page 3

Version 4 (D)





Lead:
3x0.8 soldering tip

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02.06.2025

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POLYPROPYLENE AC AND DC CAPACITORS FOR POWER ELECTRONICS DEVICES

TECHNICAL DATA AND SPECIFICATION:

- Rated capacitance Cn:	- according to the table on page 3
- Tolerance:	- ±10 or 5%,
- Dimensions:	- according to the table on page 3
- tgδ (1kHz 1V):	- < 0,0035
- Insulation resistance C x Ri:	- >5000s
- Working temperature:	- -40°C do + 70°C
- Dielectric:	- self-healing metallised PP film
- tgδ0:	- 0,0002
- Filling material:	- oil-based mass, without PCB
Electrical strength:	
-between terminals (UDC)	- 1,5 x UNDC, 2s
-between shorted terminals and housing	- 3,0kV / 50Hz, 2s
- Housing:	- aluminum
- Safety:	- overpressure disconnector, self-healing
- Degree of protection	- IP00
- Type of work:	- continuous
- Cooling:	- natural or forced
- Discharging device:	- none
- Capacitors meet the standard:	- EN 61071
- Expected lifetime:	- 100000h @Ths=+70°C
- Work position:	- any
- Maximum impact current Is	- max. 1000 impulses for the entire lifetime, impulse duration max. 50ms
- Humidity class	- maximum relative humidity: 65% on average per year, occasionally 75%, 85% for 60 days a year, condensation is not allowed
- Maximum operating altitude:	- 2000m above sea level

The product meets the requirements of RoHS Directive (2011/65 / EU)

APPLICATION:

Capacitors designed for use in power electronics devices, in particular for commutation and semiconductor protection as well as filtering and energy storage. They can be used in DC and AC circuits within the range of given voltages and currents. They have the ability of self-healing, low internal resistance and parasitic inductance.

STORAGE AND USE:

It is suggested not to store capacitors for more than 3 years. After 1 year of storage, it is recommended to perform initial measurement of capacitance and CxRi before switching on the power supply.
The polypropylene film capacitors do not require electric forming before use.
Storage conditions to be met:
- relative humidity: 75% on average per year
- maximum relative humidity: 95%, 30 days a year
- condensation: not allowed
- minimum storage temperature: -40 °C
- maximum storage temperature: +85 °C

Capacitors should be stored in closed rooms with no corrosive atmosphere (for example the presence of chlorides and gaseous sulphides, acids, alkaline substances, salts or equivalent substances are not permitted). Packed capacitors should be transported carefully, especially while using a forklift.

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POLYPROPYLENE AC AND DC CAPACITORS FOR POWER ELECTRONICS DEVICES

Rated capacitance	RMS Voltage	Rated DC voltage	Rated AC voltage	Non-recurrent surge voltage	Maximum rated current	Peak current	Non-recurrent surge current	Series resistance	Height	Lead thread diameter	Code
Cn [µF]	Uwas [V]	Udc [V]	Uac [V]	Us [V]	Irms [A]	Î [A]	Is [kA]	Rs [mΩ]	H [mm]	M*	-
Version 1 (A)											
20	480	1200	680	1600	25	700	3,0	4,5	150	M8	I350H620K-A
25						750	3,75	3,5			I350H625K-A
30	330	900	460	1350	18	650	2,0	4,9	75	M8	I35UV630I-A
40						850	2,7	4,3	75		I35UV640I-A
80						1150	3,5	5,3	100		I35UV680I-A
									125		I35UV680I-A1
50	420	1000	580	1500	25	920	2,8	7,8	110	M6	I350V650I-A
30	480	1200	680	1800		800	2,6	4,8	75		I350H630I-A
40						950	2,8	7	110		I350H640I-A
50							2,9	6,8	110		I350H650I-A
45		1100		1700		700	2,6	7,7	110		I350H645I-A
75						1000	3,3	9,5	150		I350H675I-A
100	250	700	350	950		1200	3,6	5,5	125		I350U700I-A
Version 2 (B) and 4 (D)											
30	330	900	460	1350	16	650	2,0	5,6	75	-	I35UV630I-B or D
40						850	2,7	5,0	75		I35UV640I-B or D
80						1150	3,5	6,0	100		I35UV680I-B or D
									125		I35UV680I-B1 or D1
50	420	1000	580	1500		920	2,8	8,5	110		I350V650I-B or D
30	480	1200	680	1800		800	2,6	5,5	75		I350H630I-B or D
40						950	2,8	7,7	110		I350H640I-B or D
50							2,9	7,5	110		I350H650I-B or D
45		1100		1700		700	2,6	8,4	110		I350H645I-B or D
75						1000	3,3	10,2	150		I350H675I-B or D
100	250	700	350	950		1200	3,6	6,2	125		I350U700I-B or D
Version 3 (C)											
100	250	700	350	950	25	1200	3,6	5,5	125	M6	I350U700I-C

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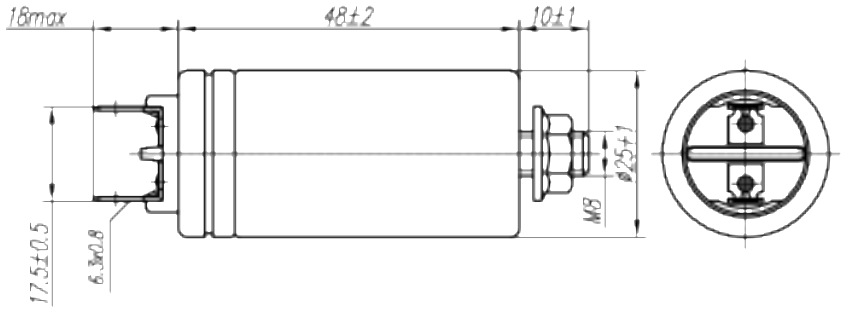

TECHNICAL DATA AND SPECIFICATION:

- Rated capacitance Cn:	-1uF,
- Tolerance:	- ±10%,
- RMS voltage U_{RMS} :	- 530Vrms,
- Rated AC voltage U_{NAC} :	- 600 V,
- Maximum rated current I_{max} :	- 16A rms,
- Peak current Î:	- 60A,
- Non-recurrent surge current I_s:	- 400A, max. 1000 impulses for the entire life time, impulse duration max. 50ms,
- tgδ (1kHz 1V):	- < 0,0005,
- Insulation resistance C x Ri:	- >5000s,
- Working temperature	- -40°C do + 85°C,
- Dielectric:	- self-healing metallised PP film,
- $tg\delta_0$:	- 0,0002,
- Filling material:	- oil-based mass, without PCB,
- Electrical strength:	
- between terminals (Uac)	- 1,25 x U_{NAC}, 10s,
- between shorted terminals and housing	- 3,0kV / 50Hz, 10s,
- Housing:	- aluminum,
- Safety:	- overpressure disconnector, self-healing,
- Degree of protection	- IP00,
- Capacitors meet the standard:	- EN 61071,
- Expected lifetime:	- 100000h @Ths=+70°C,
- Work position:	- any,
- Humidity class	- maximum relative humidity: 65% on average per year, occasionally 75%, 85% for 60 days a year, condensation is not allowed,
- Maximum operating altitude:	- 2000m above sea level.

The product meets the requirements of RoHS Directive (2011/65 / EU)

APPLICATION:

Capacitors designed for use in power electronics devices, in particular for sinusoidal filters.
They can be used in DC and AC circuits within the given voltages and currents.
They have the ability of self-healing, low internal resistance and parasitic inductance.

STORAGE AND USE: see page 2

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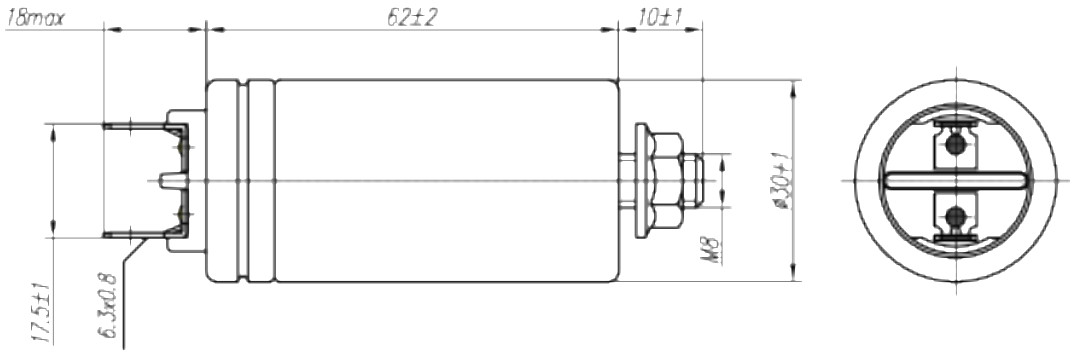
KONDENSATORY POLIPROPYLENOWE PRĄDU PRZEMIENNEGO I STAŁEGO DO URZĄDZEŃ ENERGOELEKTRONICZNYCH



TECHNICAL DATA AND SPECIFICATION:

- Rated capacitance Cn:	-1uF,
- Tolerance:	- ±10%,
- RMS voltage U_{RMS} :	- 780V rms,
- Rated AC voltage U_{NAC} :	- 900V,
- Maximum rated current I_{max} :	- 2A rms,
- Peak current Î:	- 60A,
- Non-recurrent surge current I_s:	- 150A, max. 1000 impulses for the entire life time, impulse duration max. 50ms,
- tgδ (1kHz 1V):	- < 0,0005,
- Insulation resistance C x Ri:	- >5000s,
- Working temperature	- -40°C do + 85°C,
- Dielectric:	- self-healing metallised PP film,
- tgδ0:	- 0,0002,
- Filling material:	- oil-based mass, without PCB,
- Electrical strength:	
- between terminals (Uac)	- 1,25 x U_{NAC}, 10s,
- between shorted terminals and housing	- 3,0kV / 50Hz, 10s,
- Housing:	- aluminum,
- Safety:	- overpressure disconnector, self-healing,
- Degree of protection	- IP00,
- Capacitors meet the standard:	- EN 61071,
- Expected lifetime:	- 100000h @Ths=+70°C,
- Work position:	- any,
- Humidity class	- maximum relative humidity: 65% on average per year, occasionally 75%, 85% for 60 days a year, condensation is not allowed,
- Maximum operating altitude:	- 2000m above sea level.

The product meets the requirements of RoHS Directive (2011/65 / EU)

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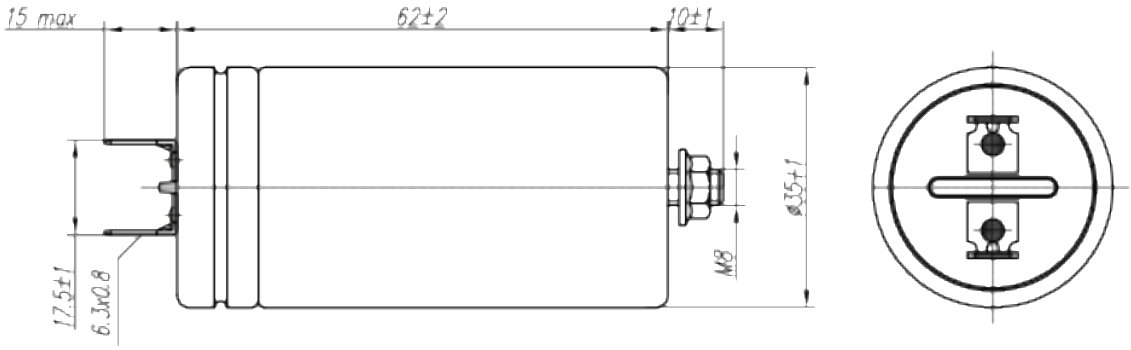
KONDENSATORY POLIPROPYLENOWE PRĄDU PRZEMIENNEGO I STAŁEGO DO URZĄDZEŃ ENERGOELEKTRONICZNYCH



TECHNICAL DATA AND SPECIFICATION:

- Rated capacitance Cn:	-2,5uF,
- Tolerance:	- ±10%,
- RMS voltage U_{RMS} :	- 780V rms,
- Rated AC voltage U_{NAC} :	- 900V,
- Maximum rated current I_{max} :	- 10A rms,
- Peak current Î:	- 150A,
- Non-recurrent surge current I_s:	- 375A, max. 1000 impulses for the entire life time, impulse duration max. 50ms,
- tgδ (1kHz 1V):	- < 0,0005,
- Insulation resistance C x Ri:	- >5000s,
- Working temperature	- -40°C do + 85°C,
- Dielectric:	- self-healing metallised PP film,
- tgδ0:	- 0,0002,
- Filling material:	- oil-based mass, without PCB,
- Electrical strength:	
- between terminals (Uac)	- 1,25 x U_{NAC}, 10s,
- between shorted terminals and housing	- 3,0kV / 50Hz, 10s,
- Housing:	- aluminum,
- Safety:	- overpressure disconnector, self-healing,
- Degree of protection	- IP00,
- Capacitors meet the standard:	- EN 61071,
- Expected lifetime:	- 100000h @Ths=+70°C,
- Work position:	- any,
- Humidity class	- maximum relative humidity: 65% on average per year, occasionally 75%, 85% for 60 days a year, condensation is not allowed,
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