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CAPACITORS - POWER - HEAVY CURRENT (ESTA) - HIGH VOLTAGE AC

Series	Product Image	Type	Technology	Description	Voltage Min. (V)	Voltage Max. (V)	Output Min. (kvar)	Output Max. (kvar)	Frequency Min. (Hz)	Frequency Max. (Hz)
C/... HVAC 3-Phase Capacitor Banks		High voltage AC 3-phase capacitor banks	All-film polypropylene / aluminum foil	High voltage AC capacitor banks, indoor / outdoor	1000	> 36 000	150	> 25 000	50	60
C/... HVAC 3-Phase Capacitor Banks IP55		3-phase capacitor banks up to 12 kV	All-film polypropylene / aluminum foil	Power capacitors IP55, indoor / outdoor	1000	12 000	50	6840	50	60
C/... HVAC MECB		Fixed or switched	Metal enclosed power modules, air insulated	MECB, indoor or outdoor	1000	36 000	150	20 000	50	60
Pha... HVAC Capacitors 1-Phase		High voltage AC 1-phase	All-film polypropylene / aluminum foil	High voltage AC power capacitors, indoor / outdoor	1000	24 000	25	1000	50	60
Pha... HVAC Capacitors 3-Phase		High voltage AC power capacitors, 3-phase units	All-film polypropylene / aluminum foil	High voltage power capacitors, indoor	1000	17 500	25	900	50	60







CAPACITORS - POWER - HEAVY CURRENT (ESTA) - SURGE SUPPRESSOR

Series	Product Image	Type	Technology	Description	Voltage Min. (V)	Voltage Max. (V)	Capacitance Min.	Capacitance Max.	Frequency Min. (Hz)	Frequency Max. (Hz)
Pha... Surge Suppressor Capacitors		1-phase or 3-phase units, capacitor banks 36 kV	All-film polypropylene / aluminum foil	Surge suppressor capacitors, indoor / outdoor	1000	36 000	0.1 µF	0.5 µF	50	60
Zoa... Surge Suppressor Capacitors		Zoaso	All-film polypropylene / aluminum foil, MKP	Zinc oxide RC-surge suppressor (ZORC) for HV-motor and transformers	1000	11 000	0.1 µF	0.6 µF	50	60








CAPACITORS - POWER - HEAVY CURRENT (ESTA) - UNBALANCE MONITORING

Series	Product Image	Type	Description	Rated Data	Current Data	Protection Level
ESTAsym CPR		Unbalance protection relay	Unbalance protection relay for capacitor banks connected in double star or bridge connection	Supply voltages: 40 VAC to 250 VAC, 50 Hz to 60 Hz / 40 VDC to 300 VDC	1 current input: 20 mA to 5 A	IP50, IP54 by using a gasket; rear: IP20
ESTAsym MD		Capacitor protection relay	Capacitor bank protection relay: unbalance, line current unbalance, overvoltage, overcurrent, undercurrent, overheating, ground fault, discharge timer	Supply voltages: 100 VAC to 240 VAC, 50 Hz to 60 Hz / 100 VDC to 375 VDC / 18 VDC to 75 VDC	4 current inputs: 1 A or 5 A	IP54
ESTAsym W		Unbalance monitoring	Unbalance measuring device for capacitor banks connected in double-star or bridge connection	Primary current: 5 A / 10 A / 25 A / 50 A	One current output: 1 A	IP00











CAPACITORS - POWER - HEAVY CURRENT (ESTA) - MEDIUM / LINE FREQUENCY

Series	Product Image	Type	Technology	Description	Voltage Min. (V)	Voltage Max. (V)	Output Min. (kvar)	Output Max. (kvar)	Frequency Min. (Hz)	Frequency Max. (Hz)
PhMKP... Line Frequency Capacitors		Capacitors	Self-healing / metallized polypropylene film	Line frequency capacitors, indoor	200	900	10	675	50	60
Phao... Line Frequency Capacitors		Capacitors	All-film polypropylene / aluminum foil	Line frequency capacitors, indoor	850	3000	25	800	50	60
Phawo...k.. Medium Frequency Capacitors		Capacitors	All-film polypropylene / aluminum foil	Medium frequency capacitors, water cooled, indoor	200	3000	150	5000	75	8000
Phawo...kS.. Medium Frequency Capacitors		Capacitors	All-film polypropylene / aluminum foil	Medium frequency capacitors, water cooled, indoor	200	3000	150	5000	75	10 000
Phawoc Medium Frequency Capacitors		Capacitors	All-film polypropylene / aluminum foil	Medium frequency capacitors, water cooled, indoor	250	1000	100	2000	10 000	100 000
Phawoz Medium Frequency Capacitors		Capacitors	All-film polypropylene / aluminum foil	Medium frequency capacitors, water cooled, indoor	250	2400	600	6000	1000	10 000



CAPACITORS - POWER - HEAVY CURRENT (ESTA) - LOW VOLTAGE AC

Series	Product Image	Type	Technology	Description	Voltage Max. (V)	Capacitance (min.)	Capacitance (max.)	Output (Min kvar)	Output (Max kvar)
PhMKP..., rectangular		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC power capacitors - oil / dry - INDOOR, IP00 - IP43	690	3-phase D: 3 x 22.3 µF	3-phase D: 3 x 663 µF	10	100
PhMKDg..., triangular		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	ESTAdry D-type, LVAC power capacitors - dry - INDOOR, IP00	1000	3-phase D: 3 x 115.5 µF, 3-phase Y: 3 x 140.1 µF	3-phase D: 3 x 331.6 µF, 3-phase Y: 3 x 334.3 µF	30	56.2
PhMKDgF..., triangular				ESTAdry D-type, LVAC power capacitors - dry - OUTDOOR, IP00	1000	3-phase D: 3 x 115.5 µF, 3-phase Y: 3 x 140.1 µF	3-phase D: 3 x 331.6 µF, 3-phase Y: 3 x 334.3 µF		
PhMKP With ESTAspring		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC power capacitors - oil / dry - INDOOR, IP20	1000	3-phase D: 3 x 11.5 µF, 3-phase Y: 3 x 83.6 µF, 1-phase: 49.7 µF	3-phase D: 3 x 335.0 µF, 3-phase Y: 3 x 219.3 µF, 1-phase: 332.2 µF	2	37.1
PhMKP..., cylindrical		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC power capacitors - oil - INDOOR, IP00 - IP20	1000	3-phase D: 3 x 11.5 µF, 3-phase Y: 3 x 83.6 µF, 1-phase: 49.7 µF	3-phase D: 3 x 335.0 µF, 3-phase Y: 3 x 219.3 µF, 1-phase: 332.2 µF	2	37.1
PhMKP.../-DW		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	DW-type high current filter capacitors - oil / dry - INDOOR, IP00, 3-phase / 1-phase	1000	3-phase D: 3 x 70 µF, 3-phase Y: 3 x 219 µF, 1-phase: 200 µF	3-phase D: 3 x 780 µF, 3-phase Y: 3 x 1700 µF, 1-phase: 3600 µF	30	450
PhMKPg..., cylindrical		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC power capacitors - dry - INDOOR, IP00 - IP20	1000	3-phase D: 3 x 11.5 µF, 3-phase Y: 3 x 83.6 µF	3-phase D: 3 x 335.0 µF, 3-phase Y: 3 x 219.3 µF	2	37.1






CAPACITORS - POWER - HEAVY CURRENT (ESTA) - POWER ELECTRONIC DC

Series	Product Image	Type	Technology	Description	Voltage Min. (V)	Voltage Max. (V)	Capacitance Min.	Capacitance Max.
ACMKP Rectangular		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	AC Power Electronic Capacitors (PEC) - Rectangular	200	6000	10 uF	5000 uF
DCMKP		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)	880	2200	30 uF	1000 uF
DCMKP Rectangular		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC) - Rectangular	750	10 000	50 uF	20 000 uF
EC		Capacitors, Fixed, Power Electronic	Film, Polypropylene, Polyester	High Voltage DC Filter Capacitors	10000	120000	0.001 uF	2 uF
EPR		Capacitors, Fixed, Power Electronic	Film, Polypropylene, Polyester	High Voltage DC Filter Capacitors	15000	300000	0.002 uF	2 uF
ER		Capacitors, Fixed, Power Electronic	Film, Polypropylene, Polyester	DC Filter Capacitors	1000	40000	0.01 uF	100 uF
ET		Capacitors, Fixed, Power Electronic	Film, Polypropylene, Polyester	DC Filter Capacitors	1000	60000	0.0005 uF	2 uF
GLI		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)	700	2150	15 uF	230 uF
GLI.....A		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)	700	2150	11 uF	230 uF
HDMKP		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)	500	3600	30 uF	7350 uF











CAPACITORS - POWER - HEAVY CURRENT (ESTA) - POWER FACTOR CONTROLLERS






Series	Product Image	Type	Description	Voltage Max. (V)
ESTAmat MH-N		Power Factor Controller	Measuring voltage = Supply voltage: 230 VAC \pm 10 %, 6 or 12 steps	230 + 10 %
ESTAmat PFC-N		Power Factor Controller	Measuring voltage: 90 VAC to 690 VAC, supply voltage: 90 VAC to 300 VAC, 45 Hz to 65 Hz, 6 or 12 steps	690

CAPACITORS - POWER - HEAVY CURRENT (ESTA) - HIGH RELIABILITY/LONG-LIFE









Series	Product Image	Type	Technology	Description	Capacitance (min)	Capacitance (max)
DCMKP		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)	30 uF	1000 uF
DCMKP Rectangular		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC) - Rectangular	50 uF	20 000 uF
GLI		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)	15 uF	230 uF
GLI.....A		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)	11 uF	230 uF
HDMKP		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)	30 uF	7350 uF






CAPACITORS - POWER - HEAVY CURRENT (ESTA) - POWER - HEAVY CURRENT (ESTA)

Series	Product Image	Type	Technology	Description	Mounting	Capacitance (min)	Capacitance (max)
ACMKP Rectangular		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	AC Power Electronic Capacitors (PEC) - Rectangular		10 uF	5000 uF
DCMKP		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)		30 uF	1000 uF
DCMKP Rectangular		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC) - Rectangular		50 uF	20 000 uF
EC		Capacitors, Fixed, Power Electronic	Film, Polypropylene, Polyester	High Voltage DC Filter Capacitors		0.001 uF	2 uF
EPR		Capacitors, Fixed, Power Electronic	Film, Polypropylene, Polyester	High Voltage DC Filter Capacitors		0.002 uF	2 uF
ER		Capacitors, Fixed, Power Electronic	Film, Polypropylene, Polyester	DC Filter Capacitors		0.01 uF	100 uF
ET		Capacitors, Fixed, Power Electronic	Film, Polypropylene, Polyester	DC Filter Capacitors		0.0005 uF	2 uF
GLI		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)		15 uF	230 uF
GLI.....A		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)		11 uF	230 uF
HDMKP		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)		30 uF	7350 uF



Series	Product Image	Type	Technology	Description	Mounting	Capacitance (min)	Capacitance (max)
PhMKDg..., Triangular, LVAC		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	ESTAdry D-Type, LVAC Power Capacitors		3-phase D: 3 x 115.5 μ F, 3-phase Y: 3 x 140.1 μ F	3-phase D: 3 x 331.6 μ F, 3-phase Y: 3 x 334.3 μ F
PhMKP..., PhMKPg..., Cylindrical, LVAC		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC Power Capacitors	Screw Terminal	3-phase D: 3 x 11.5 μ F, 3-phase Y: 3 x 83.6 μ F, 1-phase: 49.7 μ F	3-phase D: 3 x 335.0 μ F, 3-phase Y: 3 x 219.3 μ F, 1-phase: 332.2 μ F
						3-phase D: 3 x 11.5 μ F, 3-phase Y: 3 x 83.6 μ F	3-phase D: 3 x 335.0 μ F, 3-phase Y: 3 x 219.3 μ F
PhMKP..., Rectangular, LVAC		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC Power Capacitors		3-phase D: 3 x 22.3 μ F	3-phase D: 3 x 663 μ F
PhMKP...-S, PhMKPg...-S, Cylindrical, LVAC, ESTAspring		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC Power Capacitors Terminal Block With Spring Connection		3-phase D: 3 x 11.5 μ F, 3-phase Y: 3 x 83.6 μ F, 1-phase: 49.7 μ F	3-phase D: 3 x 335.0 μ F, 3-phase Y: 3 x 219.3 μ F, 1-phase: 332.2 μ F
PhMKP.../DW, LVAC		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC DW-Type Filter Capacitors		3-phase D: 3 x 70 μ F, 3-phase Y: 3 x 219 μ F, 1-phase: 200 μ F	3-phase D: 3 x 780 μ F, 3-phase Y: 3 x 1700 μ F, 1-phase: 3600 μ F

CAPACITORS - POWER - HEAVY CURRENT (ESTA) - INDUSTRIAL

Series	Product Image	Type	Technology	Description	Mounting	Capacitance (min)	Capacitance (max)
ACMKP Rectangular		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	AC Power Electronic Capacitors (PEC) - Rectangular		10 uF	5000 uF
C/... HVAC 3-Phase Capacitor Banks		High voltage AC 3-phase capacitor banks	All-film polypropylene / aluminum foil	High Voltage AC Power Capacitors 3-Phase Capacitor Banks			
DCMKP		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)		30 uF	1000 uF
DCMKP Rectangular		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC) - Rectangular		50 uF	20 000 uF
GLI		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)		15 uF	230 uF
GLI.....A		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)		11 uF	230 uF
HDMKP		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)		30 uF	7350 uF
PhMKDg..., Triangular, LVAC		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	ESTAdry D-Type, LVAC Power Capacitors		3-phase D: 3 x 115.5 µF, 3-phase Y: 3 x 140.1 µF	3-phase D: 3 x 331.6 µF, 3-phase Y: 3 x 334.3 µF

Series	Product Image	Type	Technology	Description	Mounting	Capacitance (min)	Capacitance (max)
PhMKP..., PhMKPg..., Cylindrical, LVAC		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC Power Capacitors	Screw Terminal	3-phase D: 3 x 11.5 μ F, 3-phase Y: 3 x 83.6 μ F, 1-phase: 49.7 μ F	3-phase D: 3 x 335.0 μ F, 3-phase Y: 3 x 219.3 μ F, 1-phase: 332.2 μ F
PhMKP..., Rectangular, LVAC		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC Power Capacitors		3-phase D: 3 x 22.3 μ F	3-phase D: 3 x 663 μ F
PhMKP.../-DW, LVAC		Capacitors, fixed, low voltage	MKP, metallized polypropylene film	LVAC DW-Type Filter Capacitors		3-phase D: 3 x 70 μ F, 3-phase Y: 3 x 219 μ F, 1-phase: 200 μ F	3-phase D: 3 x 780 μ F, 3-phase Y: 3 x 1700 μ F, 1-phase: 3600 μ F
Pha... HVAC Capacitors 1-Phase		High voltage AC 1-phase	All-film polypropylene / aluminum foil	High Voltage AC Power Capacitors 1-Phase Units		pF	pF
Pha... HVAC Capacitors 3-Phase		High voltage AC power capacitors, 3-phase units	All-film polypropylene / aluminum foil	High Voltage AC Power Capacitors 3-Phase Units			

CAPACITORS - POWER - HEAVY CURRENT (ESTA) - MEDICAL

Series	Product Image	Type	Technology	Description	Capacitance (min)	Capacitance (max)
GLI		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)	15 uF	230 uF
GLI.....A		Capacitors, Fixed, Power Electronic	Metallized polypropylene film, self-healing	Power Electronic Capacitors (PEC)	11 uF	230 uF

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