

Low Voltage Power Capacitors



Low Voltage Power Capacitors

- Trouble-free operation under severe conditions
- Safe operation with overpressure disconnecter system
- Self healing feature
- Robust body and compact design

ENTES Power Capacitors are designed in accordance with harsh conditions and adverse conditions that will shorten their life during compensation. With the overpressure disconnecter system, the capacitors are prevented from bursting at the end of the capacitor's life or in electrical thermal overloads.

ENTES Capacitors are manufactured using metallized polypropylene film with self-healing properties.

Disruptive effects occur during the activation of compensation capacitors. The inrush current of the activated capacitor reduces the life of both itself and the other capacitors in the circuit. The most appropriate way to eliminate these negativities is to use capacitors together with compensation contactors.

Increase your efficiency by monitoring your capacitors' health remotely!



Benefit

Capacitors compensate inductive reactive loads. ENTES Low Voltage Power Capacitors are designed resistant to harsh conditions to provide you the longest usage time.

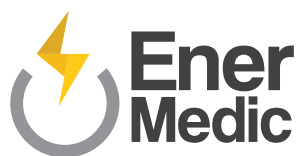
Low Voltage Power Capacitors

Model	CF Series	CM Series	CMD Series	CXD.H Series	CXD Series
Operating Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Capacity Tolerance	%-5+%10	%-5+%10	%-5+%10	%-5+%10	%-5+%10
Dielectric Losses	≤0,3 W/kVAr	≤0,2 W/kVAr	≤0,2 W/kVAr	≤0,2 W/kVAr	≤0,2 W/kVAr
Operating Height	≤2000 m	≤2000 m	≤2000 m	≤2000 m	≤2000 m
Test Voltage (Terminal-Terminal)	2,15 x Un, AC 2 s	2,15 x Un, AC 2 s	2,15 x Un, AC 2 s	2,15 x Un, AC 2 s	2,15 x Un, AC 2 s
Test Voltage (Terminal-Housing)	3 kV, AC 10 s	3 kV, AC 10 s	3 kV, AC 10 s	3 kV, AC 10 s	3 kV, AC 10 s
Operating Temperature	-25+55°C	-25+55°C	-25+55°C	-25+55°C	-25+55°C
Maximum Allowed Voltage	1,1xUn	1,1xUn	1,1xUn	1,1xUn	1,1xUn
Maximum Allowed Current	2 x In	4 x In	3 x In	4 x In	4 x In
Maximum Starting Current	100 In	200 In	200 In	200 In	200 In
Protection Class	IP00	IP00	IP20	IP20	IP20
Discharge Resistors	External, 60 sec. then 50V	External, 60 sec. then 50V	Internal, 60 sec. then 50V	Internal, 60 sec. then 50V	Internal, 60 sec. then 50V
Standard	IEC 60831-1/2	IEC 60831-1/2	IEC 60831-1/2	IEC 60831-1/2	IEC 60831-1/2

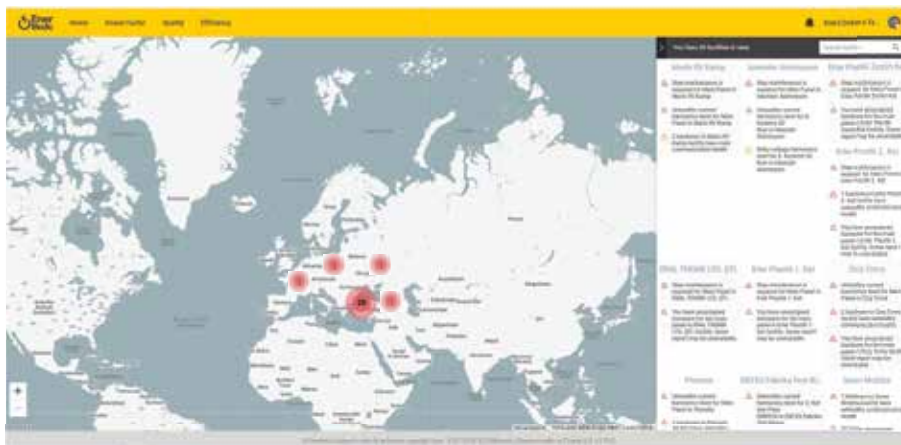
CM - CF Series (Single Phase)

Product Name	80.000 Hour	110.000 Hour	Qn (kVAr) for 230 VAC	400 VAC for Qn (kVAr)	C (uF)	In (A)	Dimensions DxH (mm)	Package Dimensions	Operating Temperature	Quantity in Package	Package Weight (kg)
ENT.CF-230-0,26	●		0,26	0,8	15	1,2	40x72	195x390x250	-400+ 750	100	10
ENT.CF-400-1,67	●		0,55	1,67	33,2	4,2	50x122	195x390x200	-250+ 550	25	7,3
ENT.CF-400-2,5	●		0,83	2,5	50	6,25	55x132	195x390x255	-250+ 550	25	9,5
ENT.CF-400-4,17	●		1,38	4,17	83	10,4	60x137	195x390x255	-250+ 550	18	7,7
ENT.CM-400-8,33		●	2,76	8,33	165,8	20,8	65x165	195x390x255	-250+ 550	16	9,8
ENT.CF-230-5		●	5		300	20,7	75x180	190x285x265	-400+ 700	6	5,5
ENT.CF-230-10		●	10		600	43	85x280	190x285x375	-400+ 700	6	10,7

Please contact us for 60Hz capacitors.



You can monitor the reactive power consumption of your businesses with EnerMedic.



Compensation

CMD/CXD.H/CXD Series Three Phase Capacitors

Product Name	80.000 Hour	400 VAC for Qn (kVAr)	450 VAC for Qn (kVAr)	C (uF)	In (A)	Dimensions DxH (mm)	Package Dimensions	Operating Temperature	Quantity in Package	Package Weight (kg)
ENT.CMD-400-0,5	●	0,5		3x3,32	0,7	50x150	195x390x255	-25°C+55°C	21	5,5
ENT.CMD-400-1	●	1		3x6,63	1,4	50x150	195x390x255	-25°C+55°C	21	6
ENT.CMD-400-1,5	●	1,5		3x9,95	2,2	50x150	195x390x255	-25°C+55°C	21	7,5
ENT.CMD-400-2,5	●	2,5		3x16,6	3,6	60x150	195x390x255	-25°C+55°C	18	8,8
ENT.CMD-400-5	●	5		3x33,2	7,2	75x175	190x285x325	-25°C+55°C	6	5,3
ENT.CMD-400-7,5	●	7,5		3x49,7	10,8	75x265	190x285x345	-25°C+55°C	6	7,6
ENT.CMD-400-10	●	10		3x66,3	14,4	75x265	190x285x345	-25°C+55°C	12	15
ENT.CMD-450-0,5	●		0,5	3x2,62	0,6	50x150	195x360x255	-25°C+55°C	21	5,5
ENT.CMD-450-1	●		1	3x5,24	1,3	50x150	195x360x255	-25°C+55°C	21	6
ENT.CMD-450-1,5	●		1,5	3x7,86	1,9	50x150	195x360x255	-25°C+55°C	21	7,5
ENT.CMD-450-2,5	●		2,5	3x13,1	3,2	60x150	195x360x255	-25°C+55°C	18	8,8
ENT.CMD-450-5	●		5	3x26,2	6,4	75x175	190x285x325	-25°C+55°C	6	5,3
ENT.CMD-450-7,5	●		7,5	3x39,3	9,6	75x265	190x285x345	-25°C+55°C	12	7,6
ENT.CMD-450-10	●		10	3x52,4	12,8	75x265	190x285x345	-25°C+55°C	12	15

Please contact us for 60Hz capacitors.

Product Name	80.000 Hour	400 VAC for Qn (kVAr)	450 VAC for Qn (kVAr)	525 VAC for Qn (kVAr)	C (uF)	In (A)	Dimensions DxH (mm)	Operating Temperature	Quantity in Package	Package Weight (kg)
ENT.CXD.H-400-10	●	10			3x 66	14,4	75x255	-25°C+55°C	6	6,1
ENT.CXD.H-400-12,5	●	12,5			3x 83	18	75x255	-25°C+55°C	6	6,3
ENT.CXD.H-400-15	●	15			3x 99	21,7	85x255	-25°C+55°C	6	7,1
ENT.CXD.H-400-20	●	20			3x 133	28,9	90x255	-25°C+55°C	6	8,5
ENT.CXD.H-400-25	●	25			3x 166	36,1	116x255	-25°C+55°C	4	8,6
ENT.CXD.H-400-30	●	30			3x 199	43,3	116x255	-25°C+55°C	4	8,7
ENT.CXD.H-450-10	●		10		3x 52	12,8	75x255	-25°C+55°C	6	6,1
ENT.CXD.H-450-12,5	●		12,5		3x 65	16	75x255	-25°C+55°C	6	6,3
ENT.CXD.H-450-15	●		15		3x 79	19,2	85x255	-25°C+55°C	6	7,1
ENT.CXD.H-450-20	●		20		3x 105	25,7	90x255	-25°C+55°C	6	8,5
ENT.CXD.H-450-25	●		25		3x 131	32,1	100x255	-25°C+55°C	6	9,2
ENT.CXD.H-450-30	●		30		3x 157	38,5	116x255	-25°C+55°C	4	8,7
ENT.CXD.H-525-10	●			10	3x 157	11	75x255	-25°C+55°C	6	6,1
ENT.CXD.H-525-12,5	●			12,5	3x 48	13,7	75x255	-25°C+55°C	6	6,3
ENT.CXD.H-525-15	●			15	3x 58	16,5	85x255	-25°C+55°C	6	7,1
ENT.CXD.H-525-20	●			20	3x 77	22	90x255	-25°C+55°C	6	8,5
ENT.CXD.H-525-25	●			25	3x 96	27,5	100x255	-25°C+55°C	6	9,2
ENT.CXD.H-525-30	●			30	3x 115	33	116x255	-25°C+55°C	4	8,7

Please contact us for 60Hz capacitors.

CMD/CXD.H/CXD Series Three Phase Capacitors

Product Name	110.000 Hour	400 VAC for Qn (kVAr)	450 VAC for Qn (kVAr)	525 VAC for Qn (kVAr)	C (uF)	In (A)	Dimensions DxH (mm)	Package Dimensions	Operating Temperature	Quantity in Package	Package Weight (kg)
ENT.CXD-400-5	●	5			3x33	7,2	75x165	195x390x255	-25°C+55°C	6	5,4
ENT.CXD-400-7,5	●	8			3x49	10,8	75x255	185x290x270	-25°C+55°C	6	7,9
ENT.CXD-400-10	●	10			3x66	14,4	75x255	185x290x270	-25°C+55°C	6	7,9
ENT.CXD-400-12,5	●	13			3x83	18	85x255	185x290x270	-25°C+55°C	6	9,6
ENT.CXD-400-15	●	15			3x100	21,7	90x255	185x290x270	-25°C+55°C	6	10,8
ENT.CXD-400-20	●	20			3x133	28,9	100x255	225x340x225	-25°C+55°C	6	13,2
ENT.CXD-400-25	●	25			3x166	36,1	116x255	330x340x225	-25°C+55°C	4	11,9
ENT.CXD-400-30	●	30			3x199	43,3	116x290	330x340x225	-25°C+55°C	4	13,4
ENT.CXD-400-40	●	40			3x265	57,7	116x370	270x270x450	-25°C+55°C	4	15
ENT.CXD-400-50	●	50			3x332	72,2	125x370	270x270x451	-25°C+55°C	4	16
ENT.CXD-450-5	●		5		3x26	6,4	75x165	195x390x255	-25°C+55°C	6	5,4
ENT.CXD-450-7,5	●		7,5		3x39	9,6	75x255	185x290x270	-25°C+55°C	6	7,9
ENT.CXD-450-10	●		10		3x52	12,8	75x255	185x290x270	-25°C+55°C	6	7,9
ENT.CXD-450-12,5	●		12,5		3x66	16	85x255	185x290x270	-25°C+55°C	6	9,6
ENT.CXD-450-15	●		15		3x79	19,2	90x255	185x290x270	-25°C+55°C	6	10,8
ENT.CXD-450-20	●		20		3x104	25,7	100x255	225x340x270	-25°C+55°C	6	13,2
ENT.CXD-450-25	●		25		3x131	32,1	116x255	330x340x225	-25°C+55°C	4	11,9
ENT.CXD-450-30	●		30		3x157	38,5	116x290	330x340x225	-25°C+55°C	4	13,4
ENT.CXD-450-40	●		40		3x219	52,5	116x370	270x270x452	-25°C+55°C	4	15
ENT.CXD-450-50	●		50		3x274	65,6	125x370	270x270x453	-25°C+55°C	4	16
ENT.CXD-550-2,5	●			2,3	3x8,5	2,6	65x165	195x390x255	-25°C+55°C	14	5,4
ENT.CXD-550-5	●			4,6	3x17	5,2	75x165	195x390x255	-25°C+55°C	6	5,4
ENT.CXD-550-7,5	●			6,8	3x25	7,9	75x255	185x290x270	-25°C+55°C	6	7,9
ENT.CXD-525-10	●			10	3x38	12,1	85x255	185x290x270	-25°C+55°C	6	7,9
ENT.CXD-525-12,5	●			12,5	3x48	15	85x255	185x290x270	-25°C+55°C	6	9,6
ENT.CXD-525-15	●			15	3x58	18,2	100x255	225x340x270	-25°C+55°C	6	10,8
ENT.CXD-525-20	●			20	3x77	24,2	116x255	330x340x225	-25°C+55°C	4	13,2
ENT.CXD-525-25	●			25	3x96	30,2	116x255	330x340x225	-25°C+55°C	4	11,9
ENT.CXD-525-30	●			30	3x115	36,3	116x290	330x340x225	-25°C+55°C	4	13,4
ENT.CXD-525-40	●			40	3x154	44	116x370	270x270x454	-25°C+55°C	4	15
ENT.CXD-525-50	●			50	3x192	55	125x370	270x270x455	-25°C+55°C	4	16

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