

Features:

- Withstands high saturation currents, excellent thermal stability
- Available with through-hole pins or wired terminals
- Dual, triple, or quad inductive configurations
- Supports up to 64 A in quad layout
- Multiple enclosure styles for varied applications
- Custom designs available on request

Applications:

- Works with phase-angle controllers and saturable reactors
- Integrated into EMI filters at power input stage
- Suitable for systems without protective earth
- Reduces strong electromagnetic interference

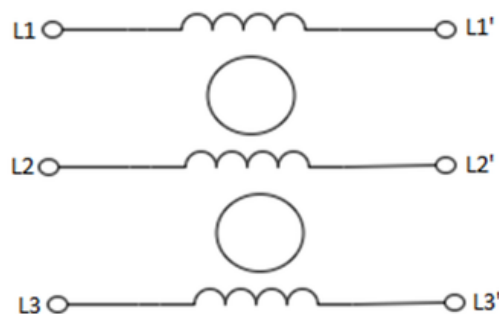

DATASHEET

Common Mode Choke series - CMC73

These chokes help reduce common-mode or asymmetric disturbances (from line/neutral to earth) by being installed in series with both the phase and neutral conductors of an AC mains input. The stray inductance within the windings also contributes to damping differential-mode noise. These components are often paired with EMI suppression capacitors for enhanced filtering performance.

Technical Specifications:

Rated Voltage	:600VAC / 850VDC
Operating Frequency	:DC to 400 Hz
Rated Current	:6A to 64A @ 40°C
Rated Inductance	:0.2mH to 25mH
High potential test voltage winding-to winding	:2500 VAC, 2 sec
High potential test voltage winding-to Housing	:4000VAC 2sec
Surge current at 10 m sec	:20 x nominal current @ 25°C
Temperature range (operation and storage)	:-25°C to 110°C (25/110/21)
Flammability corresponding to	:UL 94 V-0
Design Corresponding to	:UL1283

Type Circuit Diagram:


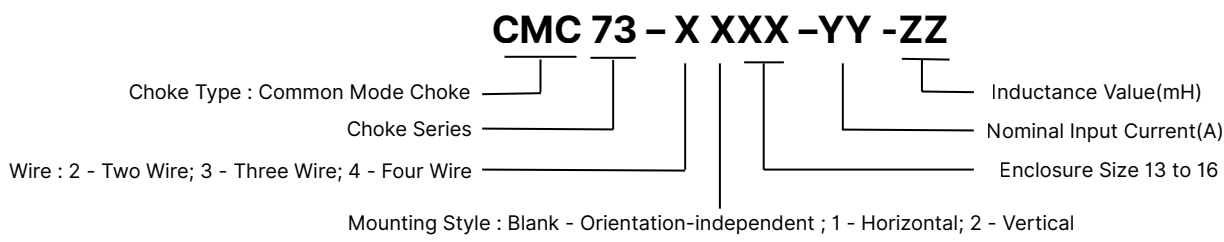
Ordering Information

Model Number	Part Number	Current Ratings (A)	Inductance (mH)	Resistance (R _{DC}) mΩ	D Pin Footprint connections(mm)	Min.Weight (g)
CMC73-213-6-9.6	E115935-1	6	9.6	60	Ø 1	160
CMC73-213-10-6	E115936-1	10	6	30	Ø 1.3	160
CMC73-213-16-2	E115937-1	16	2	10	Ø1.6	160
CMC73-313-6-5	E115938-1	6	5	40	Ø1	160
CMC73-313-10-3	E115939-1	10	3	20	Ø1.3	160
CMC73-313-16-1	E115940-1	16	1	8	Ø1.6	160
CMC73-214-6-15	E115941-1	6	15	70	Ø1	235
CMC73-214-10-9	E115942-1	10	9	30	Ø1.5	235
CMC73-214-16-3	E115943-1	16	3	12	Ø1.8	235
CMC73-314-6-7.5	E115944-1	6	7.5	50	Ø1	235
CMC73-314-10-4.5	E115945-1	10	4.5	20	Ø1.5	235
CMC73-314-16-1.5	E115946-1	16	1.5	10	Ø1.8	235
CMC73-215-6-25	E115947-1	6	25	85	Ø1	320
CMC73-215-10-14	E115948-1	10	14	35	Ø1.4	350
CMC73-215-16-5.7	E115949-1	16	5.7	15	Ø1.8	370
CMC73-215-25-2.8	E115950-1	25	2.8	8	Ø2.4	400
CMC73-215-36-1	E115951-1	36	1	4	Ø2.7	380
CMC73-315-6-12	E115952-1	6	12	65	Ø1	340
CMC73-315-10-6.6	E115953-1	10	6.6	25	Ø1.5	380
CMC73-315-16-2.8	E115954-1	16	2.8	12	Ø1.8	380
CMC73-315-25-1.3	E115955-1	25	1.3	5	Ø2.5	440
CMC73-315-36-0.5	E115956-1	36	0.5	3	Ø2.7	400
CMC73-415-6-6	E115957-1	6	6	50	Ø1	320
CMC73-415-10-3.5	E115958-1	10	3.5	20	Ø1.4	370
CMC73-415-16-1.5	E115959-1	16	1.5	9	Ø1.8	390
CMC73-415-25-0.7	E115960-1	25	0.7	4	Ø2.4	430
CMC73-415-36-0.2	E115961-1	36	0.2	2.5	Ø2.5	400
CMC73-216-16-12	E115962-1	16	12	22	Ø2	590
CMC73-216-25-5	E115963-1	25	5	9	Ø2.4	630
CMC73-216-36-3	E115964-1	36	3	5	1.5x4.5	690
CMC73-216-50-1	E115965-1	50	1	2.5	1.7x5	640
CMC73-216-64-0.8	E115966-1	64	0.8	2	2.5x5	710
CMC73-316-16-5	E115967-1	16	5	12	Ø2	630
CMC73-316-25-2.5	E115968-1	25	2.5	6.5	Ø2.4	650
CMC73-316-36-1.5	E115969-1	36	1.5	4	1.5x4.5	720
CMC73-316-50-0.6	E115970-1	50	0.6	2.2	1.7x5	700
CMC73-316-64-0.5	E115971-1	64	0.5	1.4	2.5x5	780
CMC73-416-16-3	E115972-1	16	3	10	Ø2	650
CMC73-416-25-1.3	E115973-1	25	1.3	6	Ø2.4	650
CMC73-416-36-0.8	E115974-1	36	0.8	3	1.5x4.5	760
CMC73-416-50-0.3	E115975-1	50	0.3	2	1.7x5	740
CMC73-416-64-0.2	E115976-1	64	0.2	1.2	2.5x5	820

Test conditions:

Measuring frequency: 1 kHz; 500 µA >0.16 mH >1.6 mH; 50 µA >1.6 mH <160 mH Inductance tolerance: +50%, -30%
Resistance tolerance: ±15% @ 25 °C Electrical characteristics @ 25°C: ±2°C

Product Selector



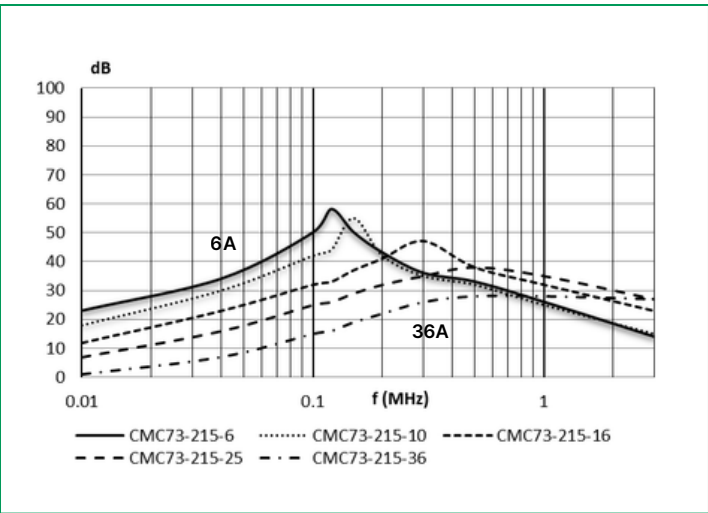
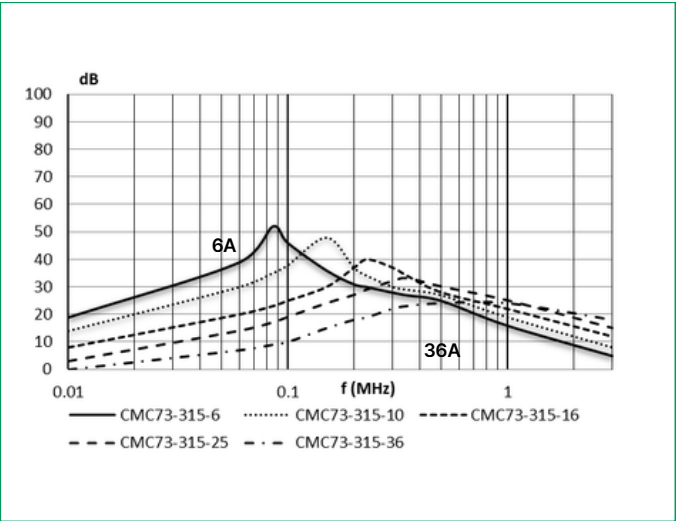
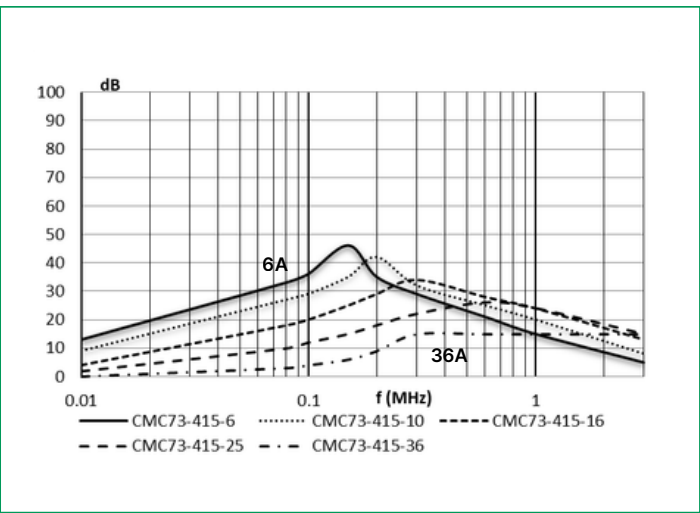
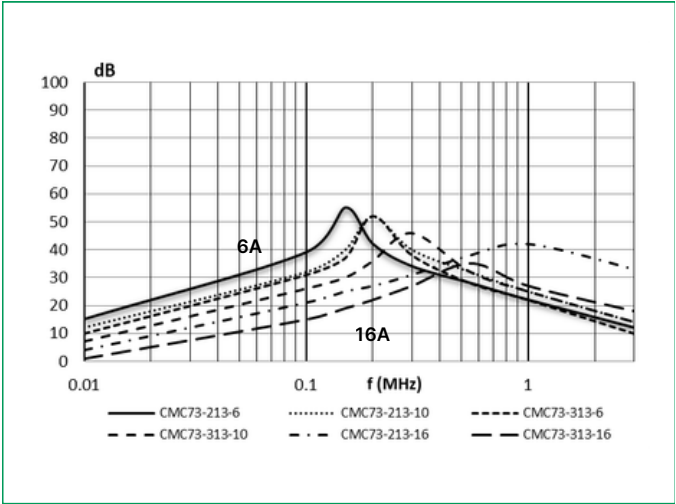
Example:

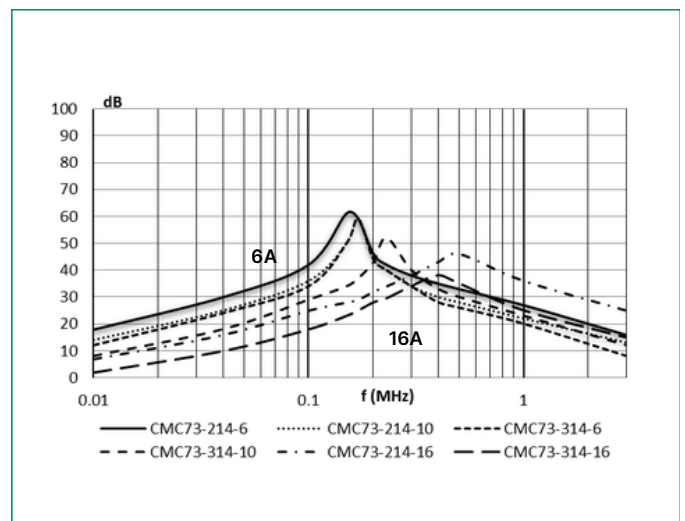
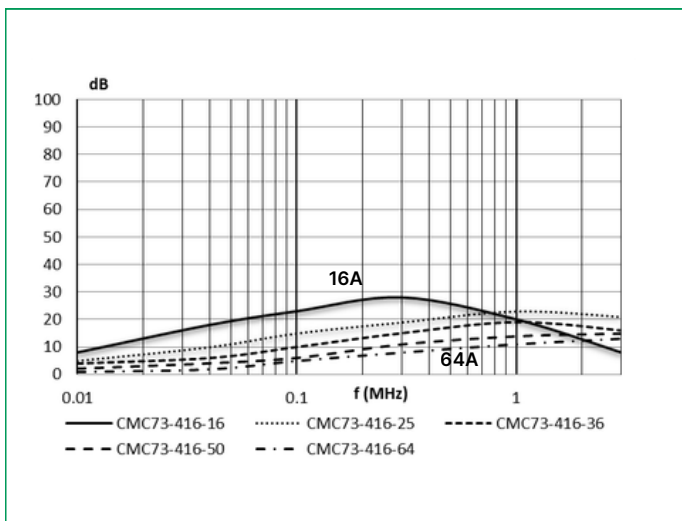
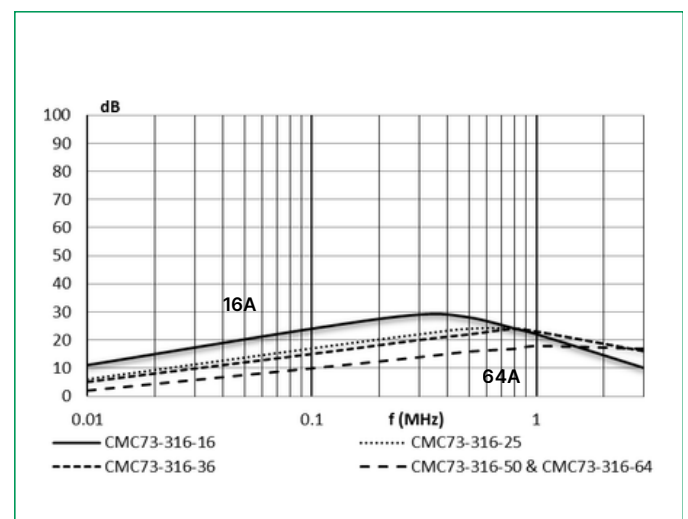
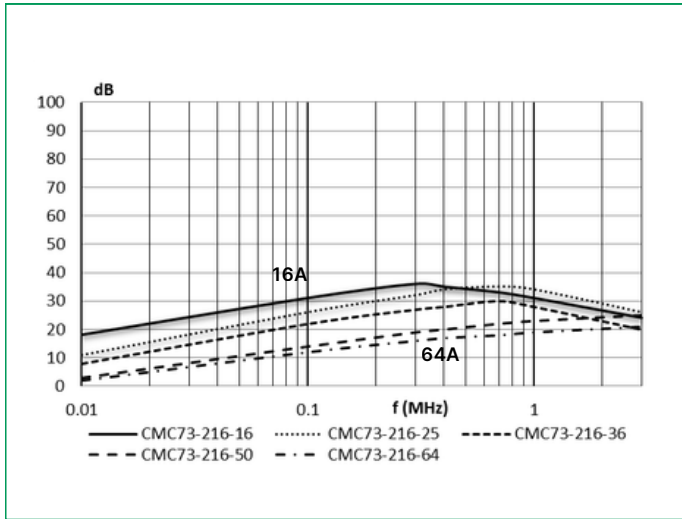
CMC73-313-6-5 = 3-wire choke designed for 6 A with an inductance of 5 mH

CMC73-415-6-6 = 4-wire choke designed for 6 A with an inductance of 6mH

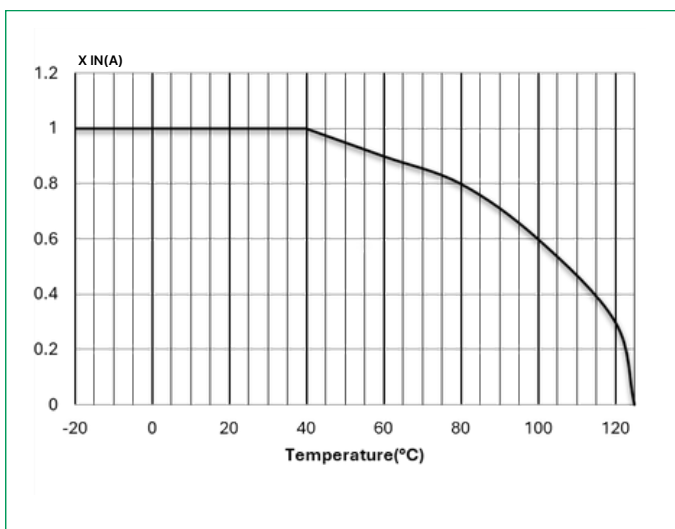
Insertion Loss :

As Per CISPR 17; C=50Ω/50Ω D=50Ω/50Ω



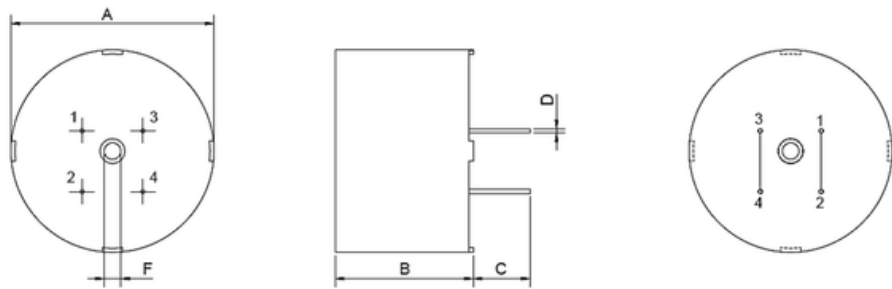


Thermal Derating

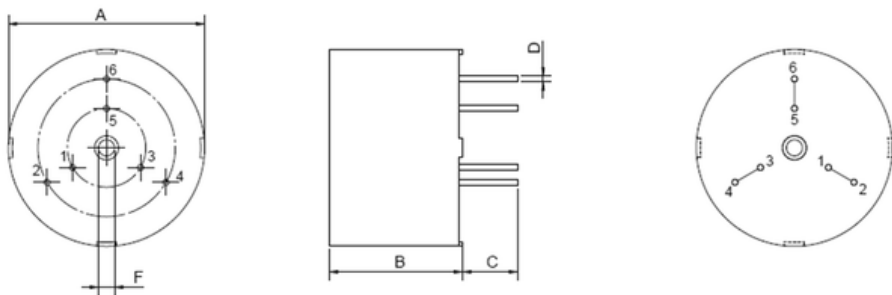


If the ambient temperature exceeds the specified limit, the nominal current needs to be reduced according to the thermal Derating graph shown above.

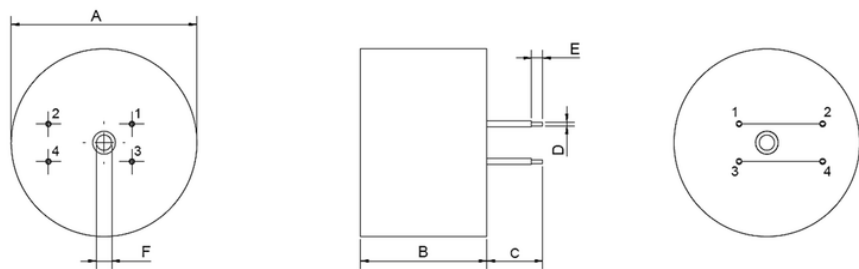
CMC73-213



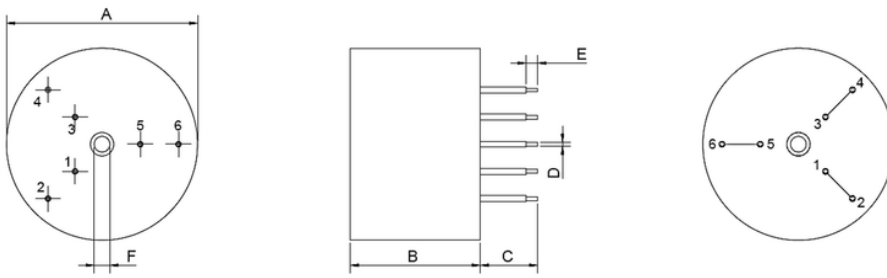
CMC73-313



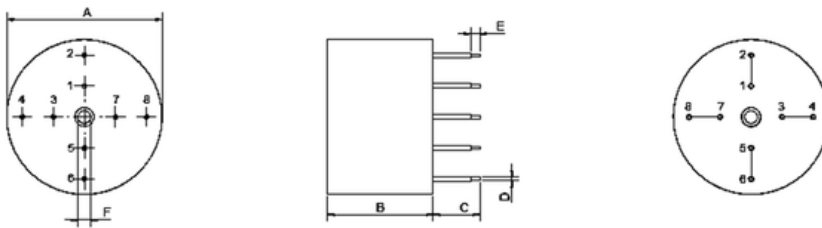
CMC73-214,CMC73-215,CMC73-216



CMC73-314,CMC73-315,CMC73-316



CMC73-415,CMC73-416



'D' Dimension for each design has been mentioned in the Selection table

Mechanical Dimensions

Model Number	A(± 2.0)	B(± 2.0)	C(+5/-0)	E(± 3.0)	F
CMC73-213	50	35	5	-	4.1+3/-0
CMC73-313	50	35	5	-	4.1+3/-0
CMC73-214	60	35	150	10	4.1+3/-0
CMC73-314	60	35	150	10	4.1+3/-0
CMC73-215	70	40	150	10	6.1+6/-0
CMC73-315	70	40	150	10	6.1+6/-0
CMC73-415	70	40	150	10	6.1+6/-0
CMC73-216	80	50	200	20	6.1+6/-0
CMC73-316	80	50	200	20	6.1+6/-0
CMC73-416	80	50	200	20	6.1+6/-0

All Dimension in mm; Tolerance According : ISO 2768-m