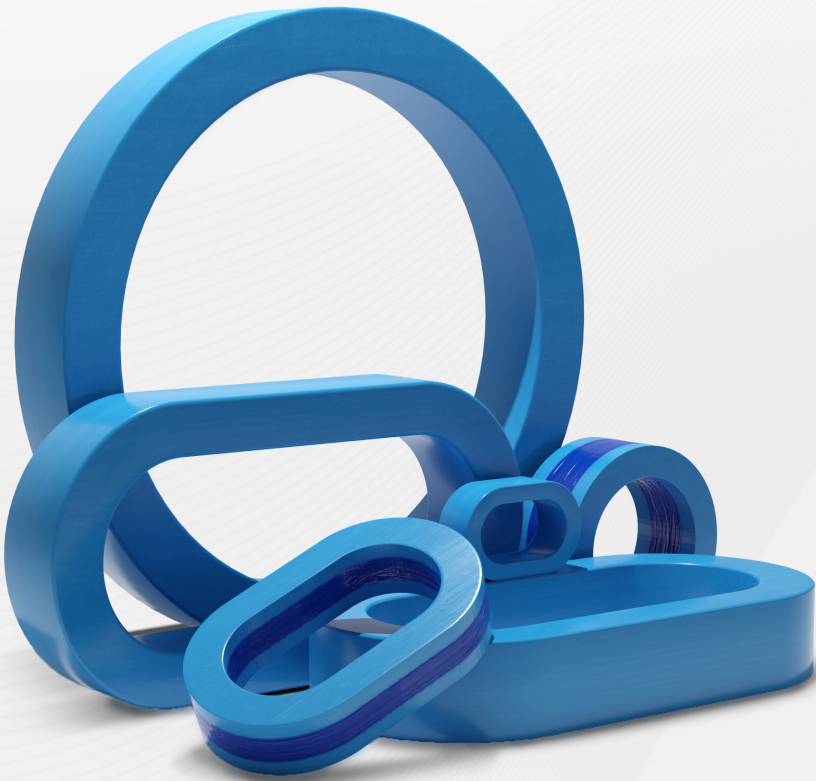


# CoolBLUE® & NaLA®

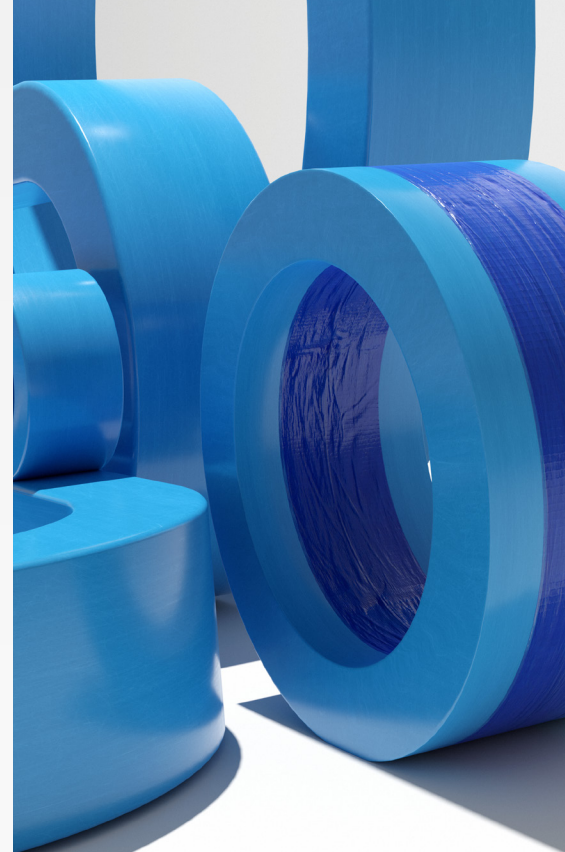
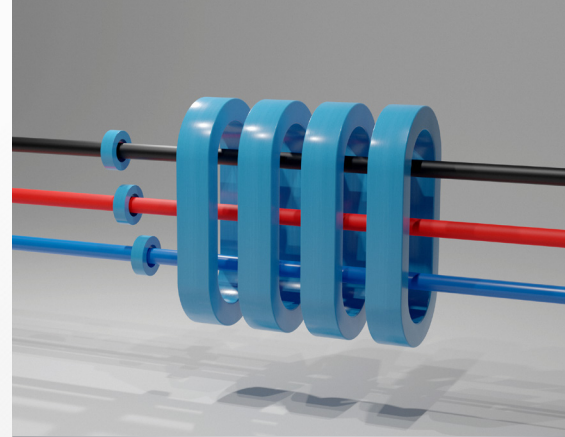
INDUCTIVE ABSORBER KITS & INDIVIDUAL PIECES



## Product Overview

CoolBLUE® toroids made from the nanocrystalline material NANOPERM® are being used increasingly to reduce damaging motor bearing currents in modern high power inverter systems operating at high switching frequencies. As a result of these unwanted currents, the bearings corrugate, leading to electrical breakdown in the lubrication and finally to a standstill of the entire motor.

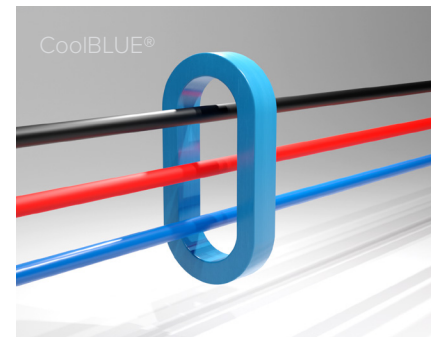
The use of CoolBLUE® cores not only significantly reduces the over voltage peaks at the motor terminals, but also suppresses the asymmetrical EMI currents which are generated by the parasitic capacities of the motor itself together with the motor cable. In order to achieve an efficient reduction in these destructive effects, one or more CoolBLUE® cores of suitable geometry have to be placed together over the connector cables in the DC-link as well as at the inverter output. In this configuration, the cores operate as a common-mode choke.



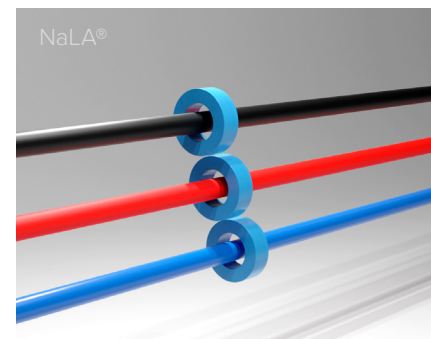


## CoolBLUE® &amp; NaLA® Individual Pieces

CoolBLUE®			NUMBER OF CORES REQUIRED PER MOTOR			
PIECE MODEL #	SHAPE	VFD HP RANGE	CABLE LENGTH (FT)			
			1-150 FT	151-300 FT	301-450 FT	451-900 FT
CBO43HP1/4-50A4	OVAL	1/4 to 10	2	4	6	8
CBR37HP1/4-50A5	ROUND		2	4	6	8
CBO43HP1/4-50A4	OVAL	11 to 50	4	4	6	8
CBR37HP1/4-50A5	ROUND		4	4	6	8
CBO68HP51-100A6	OVAL	51 to 100	4	4	6	8
CBO155HP101-428A12	OVAL	101 to 428	4	4	6	8
CBR166HP429-1631A16	ROUND	429 to 1631	4	4	6	8
CBO326HP1632+A23	OVAL	1632 and over	4	4	6	8



NaLA®			NUMBER OF CORES REQUIRED PER PHASE*			
PIECE MODEL #	SHAPE	VFD HP RANGE	CABLE LENGTH (FT)			
			1-150 FT	151-300 FT	301-450 FT	451-900 FT
N18HP1/4-10	ROUND	1/4 to 10	2	3	4	5
N18HP11-40	ROUND	11 to 40	1	2	3	4
N29HP41-102	ROUND	41 to 100	1	2	3	4
N57HP103-428	ROUND	101 to 428	1	2	3	4
N75HP429-1631	ROUND	429 to 1631	1	2	3	4
N123HP1632+	ROUND	1632 and over	1	2	3	4



\*Note that the NaLA pieces are installed per phase. To select the correct quantities **per motor**, you must multiply the numbers above by 3

## CoolBLUE® &amp; NaLA® Kits

Pre-packaged Kits with Detailed Installation Instructions, Accessories and Stickers.

HP	MOTOR CABLE LENGTH (FT)	KIT MODEL #	DESCRIPTION
0-1HP	0-150FT	<b>OKIT.0-1HP-150</b>	COOLBLUE KIT 0-1HP 0-150FT OF CABLE
	151-300FT	<b>OKIT.0-1HP-300</b>	COOLBLUE KIT 0-1HP 151-300FT OF CABLE
	301-450FT	<b>OKIT.0-1HP-450</b>	COOLBLUE KIT 0-1HP 301-450FT OF CABLE
	451FT+	<b>OKIT.0-1HP-451+</b>	COOLBLUE KIT 0-1HP 451FT+ OF CABLE
1.1-10HP	0-150FT	<b>OKIT1.1-10HP-150</b>	COOLBLUE KIT 1.1-10HP 0-150FT OF CABLE
	151-300FT	<b>OKIT1.1-10HP-300</b>	COOLBLUE KIT 1.1-10HP 151-300FT OF CABLE
	301-450FT	<b>OKIT1.1-10HP-450</b>	COOLBLUE KIT 1.1-10HP 301-450FT OF CABLE
	451FT+	<b>OKIT1.1-10HP-451+</b>	COOLBLUE KIT 1.1-10HP 451FT+ OF CABLE
11-40HP	0-150FT	<b>OKIT11-40HP-150</b>	COOLBLUE KIT 11-40HP 0-150FT OF CABLE
	151-300FT	<b>OKIT11-40HP-300</b>	COOLBLUE KIT 11-40HP 151-300FT OF CABLE
	301-450FT	<b>OKIT11-40HP-450</b>	COOLBLUE KIT 11-40HP 301-450FT OF CABLE
	451FT+	<b>OKIT11-40HP-451+</b>	COOLBLUE KIT 11-40HP 451FT+ OF CABLE
41-50HP	0-150FT	<b>OKIT41-50HP-150</b>	COOLBLUE KIT 41-50HP 0-150FT OF CABLE
	151-300FT	<b>OKIT41-50HP-300</b>	COOLBLUE KIT 41-50HP 151-300FT OF CABLE
	301-450FT	<b>OKIT41-50HP-450</b>	COOLBLUE KIT 41-50HP 301-450FT OF CABLE
	451FT+	<b>OKIT41-50HP-451+</b>	COOLBLUE KIT 41-50HP 451FT+ OF CABLE
51-100HP	0-150FT	<b>OKIT51-100HP-150</b>	COOLBLUE KIT 51-100HP 0-150FT OF CABLE
	151-300FT	<b>OKIT51-100HP-300</b>	COOLBLUE KIT 51-100HP 151-300FT OF CABLE
	301-450FT	<b>OKIT51-100HP-450</b>	COOLBLUE KIT 51-100HP 301-450FT OF CABLE
	451FT+	<b>OKIT51-100HP-451+</b>	COOLBLUE KIT 51-100HP 451FT+ OF CABLE
101-428HP	0-150FT	<b>OKIT101-428HP-150</b>	COOLBLUE KIT 101-428HP 0-150FT OF CABLE
	151-300FT	<b>OKIT101-428HP-300</b>	COOLBLUE KIT 101-428HP 151-300FT OF CABLE
	301-450FT	<b>OKIT101-428HP-450</b>	COOLBLUE KIT 101-428HP 301-450FT OF CABLE
	451FT+	<b>OKIT101-428HP-451+</b>	COOLBLUE KIT 101-428HP 451FT+ OF CABLE