

EPCOS Product Brief 2014
爱普科斯产品简介2014

Laminated Chokes and Reactors 电抗器

EPCOS Reactors covers wide range of industrial applications, e.g. solar and wind energy, motor drive, industrial automation, oil and mineral field, elevator, medical and power quality. The main functions are:

- Harmonic reduction
- PFC: power factor correction
- AC filtering
- Converter output: motor protection

We also provide flexible customer specific design and on-site service. Please contact our sales offices (www.epcos-china.com/sales) and partners in Greater China if you have any questions.

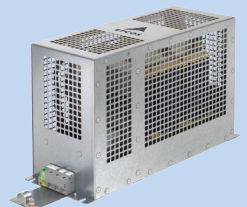
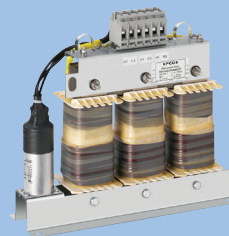
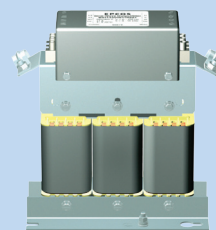
For product data sheets, please visit http://www.epcos.com/emc_filters.

爱普科斯电抗器产品覆盖广泛的工业应用, 包括光伏, 风电, 变频驱动, 工业自动化, 油田, 矿山, 电梯, 医疗, 电能质量等行业, 主要功能包含:

- 谐波衰减
- PFC: 功率因数校正
- 交流滤波(开关频率)
- 变频器输出: 保护电机

我司同时还根据客户和应用需求, 提供灵活的产品订制服务和现场技术支持。如有任何关于产品, 应用问题, 欢迎联系本司大中华区销售代表和合作伙伴。

如需详细的产品数据手册, 欢迎访问 http://www.epcos-china.com/emc_filters。



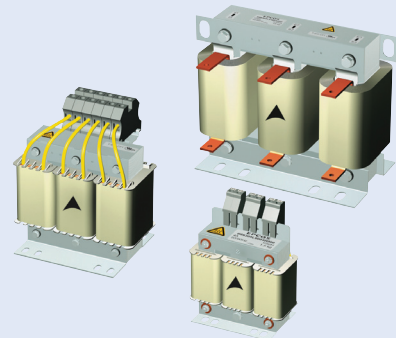
Line Reactors B86305L*000 Series

三相串联电抗器B86305L*000系列



Features and applications / 特点和应用

- Nature cooling
自然冷却
- Attenuate harmonic current by rectifier
降低整流器谐波电流
- High stability against saturation, inductance constant up to 1.5 times of rated current
稳定的抗饱和特性, 饱和电流达到1.5倍额定电流



Technical data / 技术数据

I_R	Uk value at 230 V	Terminal cross section ¹⁾	R_{typ}	Approx. Weight	Inductance ²⁾	Total losses ³⁾	Ordering code
额定电流 A	230 V时Uk值 %	端子截面积 ¹⁾ mm ²	额定电阻 mΩ	约重 kg	电感 ²⁾ mH	总损耗 ³⁾ W	订货号
4	6	4	335	1.3	10	25	B86305L0004R000
10	6	4	78	2.7	4	43	B86305L0010R000
16	4.8	4	42.2	3.1	2	65	B86305L0016R000
30	4.5	35	12.4	5.5	1	50	B86305L0030R000
60	4.5	35	6.2	8.5	0.5	100	B86305L0060R000
100	4.5	Busbar / 母线	3.2	15	0.3	160	B86305L0100S000
230	5.2	Busbar / 母线	0.9	32	0.15	340	B86305L0230S000

¹⁾ stranded, with ferrule without plastic sleeve / 软线, 经压接

²⁾ Tolerance -0% / +20 %, inductance per phase ±5% of mean value / 公差-0% / +20 %, 相间电感量偏差±5%

³⁾ at I_R and 20 °C / 额定电流, 环境温度20 °C

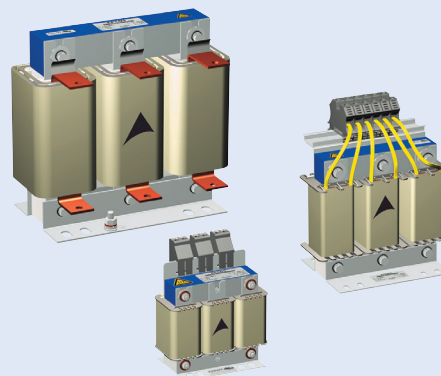
dv/dt Output Chokes B86301U*000 Series

dv/dt 输出电抗器B86301U*000系列



Features and applications / 特点和应用

- Natural cooling
自然冷却
- Reduce dv/dt value at converter output, prevent voltage overshoot at motor side
降低变频器输出dv/dt, 防止电机过压
- Applicable for long motor cable (50 m)
适用于长电机线缆(50米)



Technical data / 技术数据

I_R 额定电流 A	Inductance 电感 mH	Rated power losses ¹⁾ 额定功率损耗 ¹⁾ W	R_{DC} ²⁾ 直流电阻 ²⁾ mΩ	Approx. Weight 约重 kg	Max. pulse frequency 最大脉冲频率 kHz	Ordering code 订货号
$U_R = 520 \text{ V AC}$						
8	730	17	55	1.2	16	B86301U0008R000
12	400	16.5	25	1.2		B86301U0012R000
24	250	28	10.1	2.3	10	B86301U0024R000
45	130	49	4.4	4.8		B86301U0045R000
112	50	68	2	8.3	8	B86301U0112R000
180	32	165	1.25	10	6	B86301U0180S000
250	22	175	0.6	10.5		B86301U0250S000
320	18	240	0.5	14		B86301U0320S000
360	15	230	0.38	18.4	4	B86301U0360S000
400	13	260	0.34	19		B86301U0400S000
500	11	360	0.3	20		B86301U0500S000
720	8	430	0.19	28.4		B86301U0720S000
950	6	510	0.12	37.5		B86301U0950S000
1500	3.9	850	0.08	58		B86301U1500S000

¹⁾ Typical value at 20 °C. Varies with type and length of motor cable, pulse frequency and modulation mode
20 °C时的典型值, 数值会根据电机线缆的类型, 长度, 开关频率和模式有所变化

²⁾ Typical value at 20 °C, tolerance ± 10% / 20 °C时的典型值, 公差10%

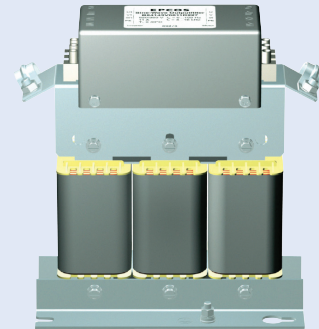
Sinewave Output Filters B84143V*R227 Series

正弦波输出滤波器B84143V*R227系列



Features and applications / 特点和应用

- Natural cooling
自然冷却
- Sinewave output filter
正弦滤波
- For application with motor cable up to 1000 m
适用于超长电机线缆(1000米)



Technical data / 技术数据

I_R	Terminal cross section	Resonance frequency	Inductance	Voltage drop	Min. pulse frequency ¹⁾	Max. pulse frequency	R_{typ}	Rated Power losses ²⁾	Approx. weight	Ordering code
额定电流 A	端子截面积 mm ²	共振频率 Hz	电感 mH	电压降 %	最小脉冲频率 ¹⁾ kHz	最大脉冲频率 kHz	典型电阻 mΩ	额定功率损耗 ²⁾ W	约重 kg	订货号
$V_R = 520/300 \text{ VAC}$										
4	4	1000	12.0	5	3	16	390	40	3.3	B84143V0004R227
6	4	1170	8.5	5	3	16	290	45	3.5	B84143V0006R227
11	4	1300	4.5	5	3	16	70	55	5.3	B84143V0011R227
16	6	1230	3.0	7	3	10	37	60	8.5	B84143V0016R227
25	10	1100	2.5	7	3	10	28	100	20	B84143V0025R227
33	10	1190	1.8	8	3	10	20	150	18	B84143V0033R227
50	35	1330	1.2	8	3	10	12	190	25	B84143V0050R227
66	35	1210	0.95	8	3	8	9	250	26	B84143V0066R227
75	35	1050	0.86	9	3	8	7	320	38	B84143V0075R227
95	35	1120	0.75	10	3	8	6.3	330	52	B84143V0095R227
132	95	910	0.52	10	3	8	3.7	380	67	B84143V0132R227
$V_R = 690/400 \text{ VAC}$										
180	95	870	0.4	10	2.4	6	3.8	480	74	B84143V0180R227
250	40*3	890	0.32	11	2.4	6	1.4	560	91	B84143V0250R227
320 ³⁾	40*3	780	0.25	11	2.4	6	1.3	950	121	B84143V0320R227

¹⁾ For lower frequencies please contact us / 如需更低的频率, 请联系我们

²⁾ Typical value, Varies with type and length of motor cable, pulse frequency and modulation mode
典型值, 数值会根据电机线缆的类型, 长度, 开关频率和模式有所变化

³⁾ Values for the 320A type are preliminary / 320A产品为待开发产品

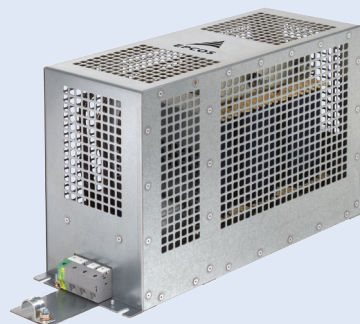
SineFormer Output Filters B84143V*R127/R290 Series

SineFormer正弦波输出滤波器B84143V*R127/R290系列





Features and applications / 特点和应用

- Possible to use unshielded motor cable
可使用非屏蔽电机线缆
- Reducing dv/dt value at converter output, reduce voltage stress to the motor, reduce bearing current
降低变频器输出dv/dt, 防止电机过压, 降低轴承电流
- For application with long motor cable up to 1000 m
适用于超长电机线缆(1000米)



Technical data / 技术数据

I_R 额定电流 A	Terminal cross section 端子截面积 mm^2	Voltage drop 电压降 %	Losses at 100 Hz 100 Hz时损耗 W	R_{typ} 典型电阻 $\text{m}\Omega$	Approx. weight 重量 kg	Ordering code 订货号	Approvals 认证  	
B84143V*R127 $V_R = 520 \text{ VAC}$								
11	4	5	50	46	9	B84143V0011R127	×	×
16	6	7	70	32	11	B84143V0016R127	×	×
33	10	8	120	20	24	B84143V0033R127	×	×
66	25	8	180	15	47	B84143V0066R127	×	×
95	50	10	250	8	99	B84143V0095R127	×	×
180	150	10	400	6	125	B84143V0180R127	×	×
B84143V*R127 $V_R = 600 \text{ VAC}$								
320	See datasheet 请参考数据表	10	750	4	195	B84143V0320R127	-	-
B84143V*R127 $V_R = 600 \text{ VAC}$								
95 (120 A*)	50	10	250	8	99	B84143V0095R290		
180	150	10	400	6	125	B84143V0180R290		
320 (400 A*)	See datasheet 请参考数据表	10	750	1	235	B84143V0320R290		

× = approval granted / 通过认证

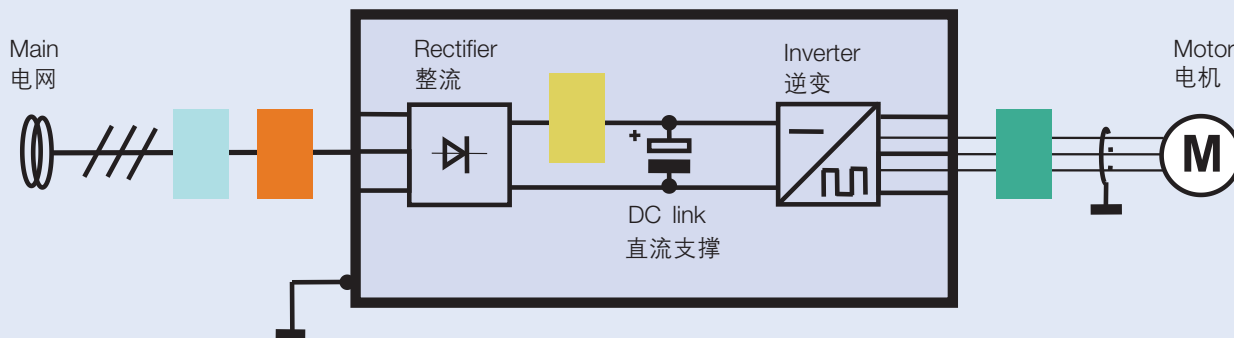
- = in preparation / 认证准备中

* = Calculated for duty cycle (Ed.) 60%. Acceleration max. 6 s, brake max. 6 s @ 1× minute / 根据工作周期60%, 最大加速时间6 s, 刹车6 s @ 1分钟

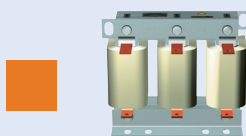
Application Diagram for Output Reactors and Filters 电抗器和输出滤波器应用实例



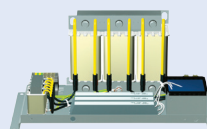
Application diagram: EPCOS reactors in typical drive application 应用实例: 爱普科斯电抗器在典型的变频驱动系统中的应用



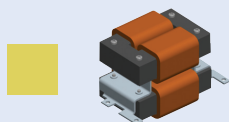
EMC filter
EMC滤波器
B84143



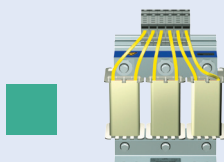
Line reactor
电抗器
B86305-L



LCL filter
LCL滤波器
B84143-G



DC choke
直流电抗器



dv/dt choke
dv/dt电抗器
B86301-U



Sinewave output filter
正弦波输出滤波器
B84143-V*R27



SineFormer™
正弦波输出滤波器
B84143V*R127/R290

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