数据表 / data sheet

BLOCK

识别 / Identification

标准	Standard	**MR3 400/x**	电抗器类型	Type of choke	**3~ Motor Reactor**
			系列	Model Family	**MR3**

技术数据 / Technical Data

相数	No. of phase		**3**	
防护等级	Protection class		**III0**	
额定电压绝缘	Rated voltage isolation	[V]	**690 AC**	**(UL = max. 600V)**
额定电压	Rated voltage uk	[V]	**400 AC**	
额定频率	Rated frequency	[Hz]	**0 – 50**	
开关频率	Switching frequency	[kHz]	**3 – 8**	
电感偏差	L tolerance	[%]	**± 10**	
测试电压	Test voltage	[kV]	**4.0**	**2 sec**

运行条件 / Operating conditions

防护等级	Protection index		**IP 00**	
环境温度	Ambient temperature	[°C]	**-10.... +40**	
储存温度	Storage temperature	[°C]	**-25 .... +70**	**(EN 60721-3-1 ; 1K3)**
储存温度	Transport temperature	[°C]	**-40 .... +85**	**(EN 60721-3-2 ; 2K3)**
过载能力	Overload capability		**1.5 倍额定电流每小时 1 分钟 /** 1.5 times rated current for 1 minute per hour	
气候类别	Climatic category		**25/085/21**	**(EN 60068-1)**
湿度	humidity		**3K3**	**(没有冷凝，中间相应湿度 85%)** (Without condensation, medium relative humidity 85%)
可燃等级	Class of flammability		**UL 94V-2 或更好 /** UL 94V-2 or better	
温度等级 VDE	Class ISO °C VDE		**B (130°C)**	**MR3 400/2,5 – MR3 400/8**
			F (155°C)	**MR3 400/10 – MR3 400/61**
温度等级 UL	Class ISO °C UL		**Class 130**	**MR3 400/2,5 – MR3 400/8**
			Class 155	**MR3 400/10 – MR3 400/61**
冷却类型	Type of cooling		**AN**	
运行条件	Operating conditions		**DB**	
并联	Parallel connection		**是 /** yes	**(90% 单个负载) /** (90% Single load)
过电压种类	Overvoltage category		**3 >2000m = 2**	**(EN 61800-5-1)**
抗震性	Vibration resistance		**Transport 2M2**	**(IEC/EN 60721-3-2)**
污染度	Degree of pollution		**2**	**(EN 61800-5-1)**
MTBF	MTBF	[h]	**> 400.000 @ 40°C / 400V**	

标准 / Standards

类型 / Type:	日期 / Date	符号 / Signs
EN 61558-1 +AC+A1 EN 61558-2-20	2005 + 2006 + 2009 2011	CE
UL 5085-1-2 CSA 22.2 No. 6.6	2006, Edition 1	c UL us E 103521
EAC	2015	EAC
SJ/T 11363-2006 (China-RoHS)	2006	
RoHS 2011/65/EU RoHS 2015/863/EU	2011 2015	

注意 / Notes

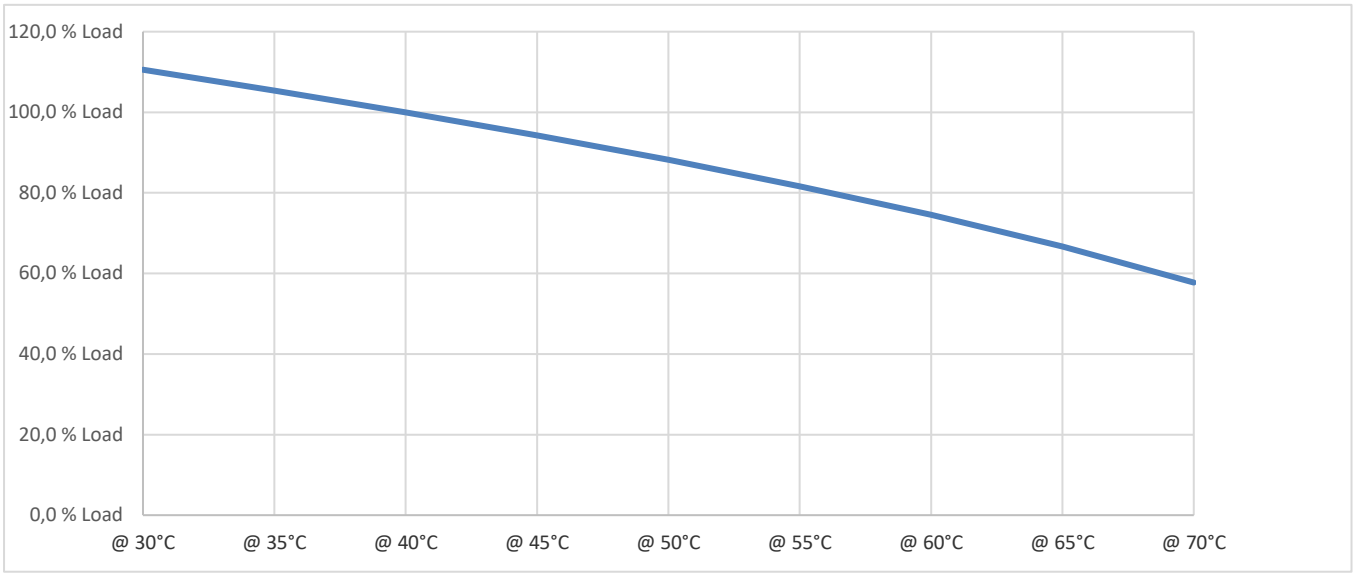
技术规范是典型的 由于材料和生产误差它们可能改变	Technical specifications are typical. They can vary due to material and production tolerances.

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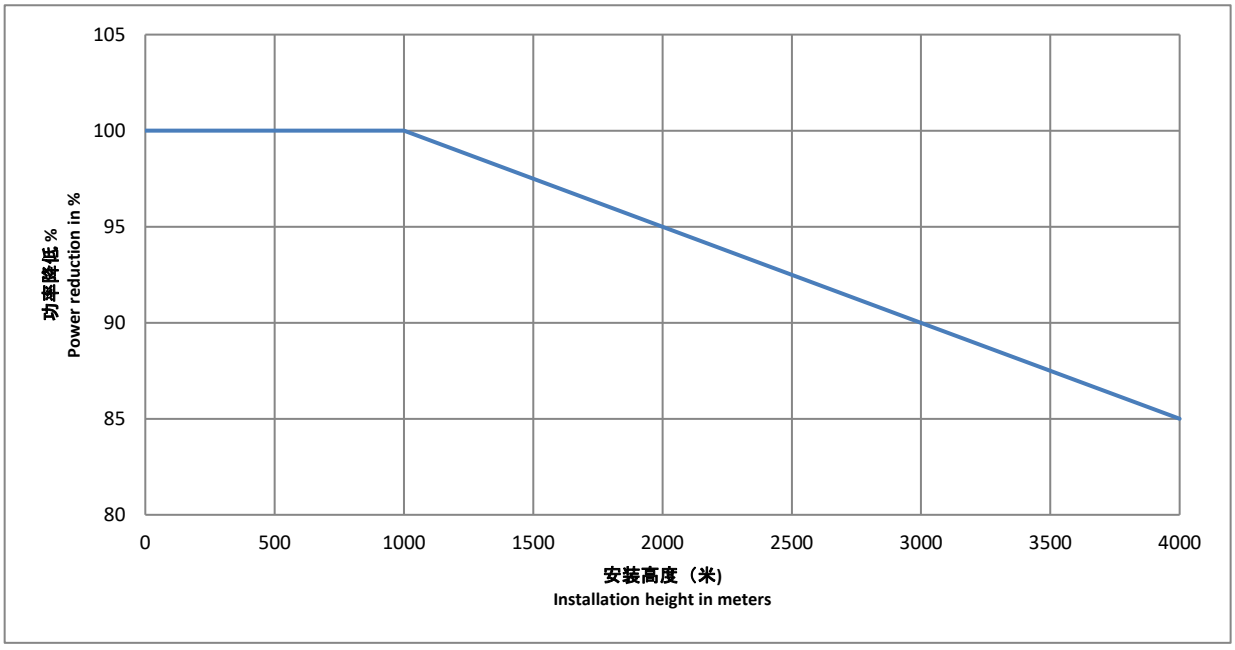
其它数据表 / Other Technical Data

	额定电流 @ 400V	额定电流 @ 400V	额定电流 @ 690V	额定电流 L	额定电流	额定电机功率	损耗
	Rated current @ 400V	Linear up to @ 400V	Rated current @ 690V	Inductance L	Typ. Winding resistance	Rated motor power	Power Loss
	[A]	[A]	[A]	[mH]	[mOhm]	[KW]	[W]
MR3 400/2.5	**2.5**	**3.75**	**1.75**	**2.55**	**340**	**0.75**	**7.7**
MR3 400/4	**4**	**6.0**	**2.8**	**1.59**	**160**	**1.10**	**8.1**
MR3 400/6	**6**	**9.0**	**4.2**	**1.06**	**84.0**	**2.20**	**10.2**
MR3 400/8	**8**	**12.0**	**5.6**	**0.8**	**50.0**	**3.00**	**10.7**
MR3 400/10	**10**	**15.0**	**7.0**	**0.64**	**42.5**	**4.00**	**14.2**
MR3 400/13	**13**	**19.5**	**9.1**	**0.49**	**26.2**	**5.50**	**15.1**
MR3 400/18	**18**	**27.0**	**12.6**	**0.35**	**15.8**	**7.50**	**16.9**
MR3 400/24	**24**	**36.0**	**16.8**	**0.27**	**10.9**	**11.0**	**21.1**
MR3 400/30	**30**	**45.0**	**21.0**	**0.21**	**7.80**	**15.0**	**24.4**
MR3 400/37	**37**	**55.5**	**25.9**	**0.17**	**5.00**	**18.5**	**29.8**
MR3 400/42	**42**	**63.0**	**29.4**	**0.15**	**4.40**	**22.0**	**33.7**
MR3 400/48	**48**	**72.0**	**33.6**	**0.13**	**3.36**	**22.0**	**34.4**
MR3 400/61	**61**	**91.5**	**42.7**	**0.10**	**3.30**	**30.0**	**64.2**

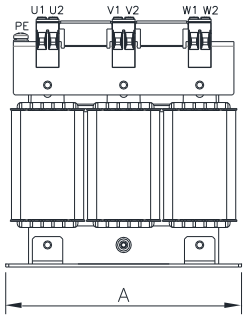
降额 / Derating

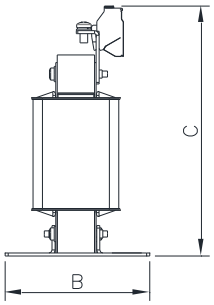


功率降低 / Power reduction

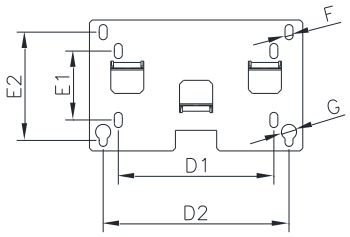


设计图 / Construction drawing

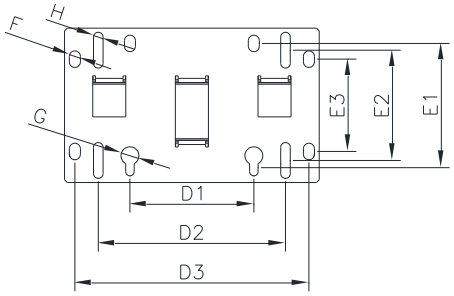




MR3 400/2,5
–
MR3 400/42



MR3 400/48
–
MR3 400/61



尺寸 / Dimensions

	A	B	C	D1 x E1	D2 x E2	D3 x E3	F	G	H
	[mm]	[mm]	[mm]	[mm]	[mm]	[Ø]	[Ø]	[Ø]	[Ø]
MR3 400/2,5	**78**	**63**	**102**	**50 x 42**	**65 x 47**	-	**4.8**	**10**	-
MR3 400/4	**78**	**63**	**102**	**50 x 42**	**65 x 47**	-	**4.8**	**10**	-
MR3 400/6	**95**	**60**	**116**	**56 x 38**	**71 x 45**	-	**4.8**	**10**	-
MR3 400/8	**95**	**60**	**116**	**56 x 38**	**71 x 45**	-	**4.8**	**10**	-
MR3 400/10	**120**	**85**	**142**	**90 x 39**	**105 x 70**	-	**4.8**	**10**	-
MR3 400/13	**120**	**85**	**142**	**90 x 39**	**105 x 70**	-	**4.8**	**10**	-
MR3 400/18	**120**	**95**	**142**	**90 x 49**	**105 x 80**	-	**4.8**	**10**	-
MR3 400/24	**120**	**95**	**142**	**90 x 49**	**105 x 78**	-	**4.8**	**10**	-
MR3 400/30	**155**	**95**	**171**	**113 x 50**	**135 x 77.5**	-	**5.8**	**11**	-
MR3 400/37	**155**	**95**	**171**	**113 x 50**	**135 x 80**	-	**5.8**	**11**	-
MR3 400/42	**155**	**110**	**171**	**113 X 65**	**135 X 95**	-	5.8	11	-
MR3 400/48	**185**	**102**	**212**	**90 x 83**	**136 x 70**	**170 x 57**	**8.0**	**13**	**7.0**
MR3 400/61	**185**	**112**	**209**	**90 x 91**	**136 x 80**	**170 x 67**	**8.0**	**13**	**7.0**

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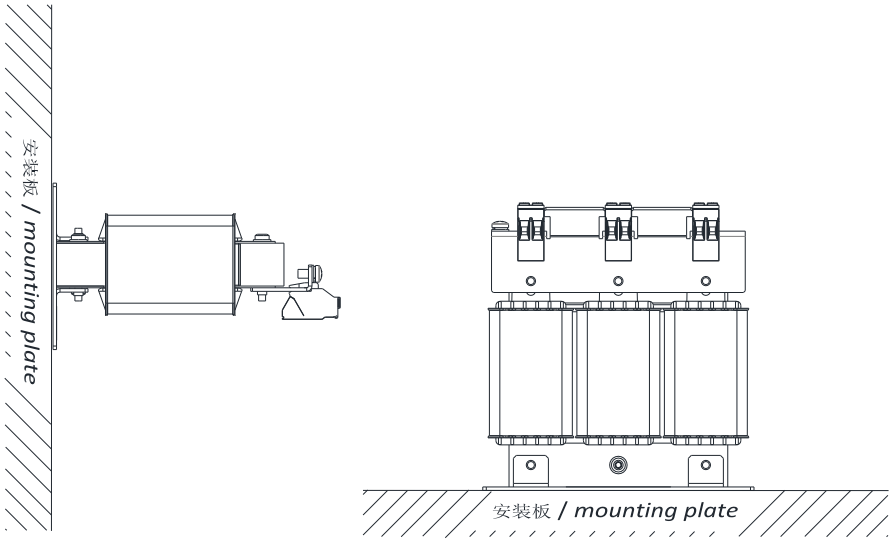
额外信息 / Additional Information

	端子 / Terminals		扭矩 / Torque		-	
	螺钉端子	PE-端子	螺栓端子	PE-端子	重量	线圈材料
	Screw terminal	PE Terminal	Screw terminal	PE Terminal	Weight (Net)	Winding material
	[mm²]	-	[Nm]	[Nm]	[kg]	-
MR3 400/2.5	**4.0**	**6.3 – 0.8**	**0.5 – 1.0**	-	**0.70**	**CU**
MR3 400/4	**4.0**	**6.3 – 0.8**	**0.5 – 1.0**	-	**0.75**	**CU**
MR3 400/6	**4.0**	**6.3 – 0.8**	**0.5 – 1.0**	-	**0.90**	**CU**
MR3 400/8	**4.0**	**6.3 – 0.8**	**0.5 – 1.0**	-	**0.95**	**CU**
MR3 400/10	**4.0**	**M5**	**0.5 – 1.0**	**3.0**	**1.7**	**CU**
MR3 400/13	**4.0**	**M5**	**0.5 – 1.0**	**3.0**	**1.8**	**CU**
MR3 400/18	**4.0**	**M5**	**0.5 – 1.0**	**3.0**	**2.5**	**CU**
MR3 400/24	**10.0**	**M5**	**1.2 – 2.0**	**3.0**	**2.6**	**CU**
MR3 400/30	**10.0**	**M5**	**1.2 – 2.0**	**3.0**	**3.5**	**CU**
MR3 400/37	**10.0**	**M5**	**1.2 – 2.0**	**3.0**	**3.6**	**CU**
MR3 400/42	**10.0**	**M5**	**1.2 – 2.0**	**3.0**	**5.2**	**CU**
MR3 400/48	**16.0**	**M5**	**2.0 – 4.0**	**3.0**	**5.8**	**CU**
MR3 400/61	**16.0**	**M5**	**2.0 – 4.0**	**3.0**	**7.4**	**CU**

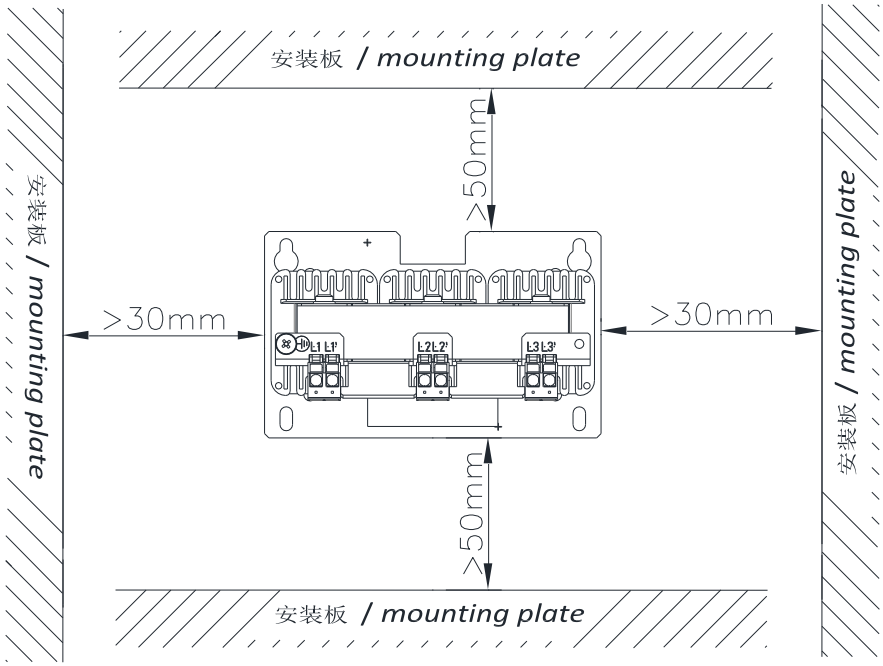
端子额外信息 / Additional Information Terminals

端子	Terminal	[mm²]	**4**	**10**	**16**	**螺钉端子 /** Screw Terminal
输入 输出	Input Output	[mm²]	**0.2 – 6.0** -	**0.2 – 16**	**2.5 – 25**	**单根线 (固体) / 标准的** Singe wire (solid) / stranded
		[mm²]	**0.2 – 6.0 /** **0.2 – 4.0**	**0.2 – 10**	**2.5 – 25 /** **2.5 – 16**	**灵活的 / 带电缆和套管灵活的** Flexible / flexible with cable and sleeves
		AWG	**22 – 10**	**8**	**10 – 6**	
		[mm]	**9**	**14**	**15**	**剥离长度 /** Stripping length
		-	**有槽得/** Slotted	**有槽得/** Slotted	**有槽得/** Slotted	**螺钉头 /** Screw head
		-	**M3**	**M4**	**M5**	**螺纹/** Screw threading

安装指导 / Mounting directions



可用空间 / Free spaces



备注 / Notes

图纸中的技术规范不具有约束力.
通用公差符合 DIN 2768-m.
保留更改权力

Technical specifications in the drawing are not binding.
General tolerance to DIN 2768-m.
Subject to change.

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备注 / Notes

在操作设备之前，请仔细阅读这些警告和安全注意事项。本设备的安装仅供合格人员使用。当设备出现故障或损坏时，应立即切断电源电压，送生产车间检查。设备不包含任何服务部件。指定的数据仅服务于产品描述，不被理解为法律意义上的授权特征。

正确使用

该设备设计用于安装在接线柜中，并于工业控制系统，机床，风机和电梯等变频器配套使用。请勿在飞机，火车或是核设施控制系统中使用此设备，因为故障可能导致严重的伤害或是死亡。

安装

安装应按当地条件、有关规定、国家事故预防规定和工程技术规程进行。这电气设备是为安装在电气系统或机器上而设计的部件,它满足低电压指令要求（2014/35/EU）。必须保持与相邻部件之间所需的最小距离防止冷却系统受到阻碍!

Please read these warnings and safety notices carefully before operating the device. Installation of the device is reserved for competent and qualified personnel. In the event of malfunctions or damage to the device, switch off the supply voltage immediately and send to the production plant for inspection. The device does not contain any service parts. The specified data serve the product description alone and are not understood as warranted characteristics in the legal sense.

Proper use

This device is designed for installation in a wiring cabinet and for general use with a frequency inverter such as industrial control systems, machine tools, wind turbines and elevators for example. Do not use this device in the control systems of aircraft, trains, or nuclear facilities where malfunction may result in severe injury or death.

Installation

Installation should be performed in accordance with local conditions, relevant provisions, national accident prevention regulations and the accepted rules of engineering. This electrical equipment is a component designed for installation in electrical systems or machines and it satisfies the requirements of the Low Voltage Directive (2014/35/EU). The required minimum distance from the adjacent parts must be maintained in order to prevent the cooling system from being impeded!