

制动单元 (DBM) DC Braking Module

■ 产品概述 (Product Introduction)

采用在变频器直流侧设置制动单元组件，将再生电能消耗在功率电阻上来实现制动。通过专门的能耗制动控制电路将再生能量消耗在电阻上，转化为热能。

The function of the braking unit is to divert into a brake resistor the regenerative energy produced in the process of decelerating the motor, converting that energy into heat. Regenerative energy flows from the motor into the inverter DC bus, manifested as increased bus voltage.

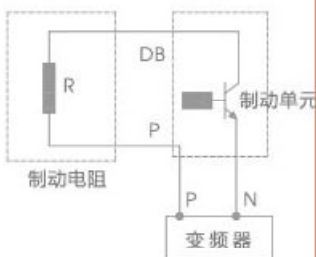
■ 产品应用 (Product Application)

主要用在变频器拖动系统需要急剧减速，刹车，定位等场合。变频器在减速时，由于拖动系统的惯性较大，此时电动机处于发电状态，机械能快速回馈到直流母线上，使直流母线电压迅速上升，从而危及变频器的安全，因此必须将该回馈能量迅速消耗掉，保持直流母线电压在某一安全范围以下，否则变频器将会过压保护或故障。一般惯性较大，或需急剧减速，刹车的场合可使用本制动单元。列如：离心机，电梯，起重机，拉丝机，港口机械等均可使用。

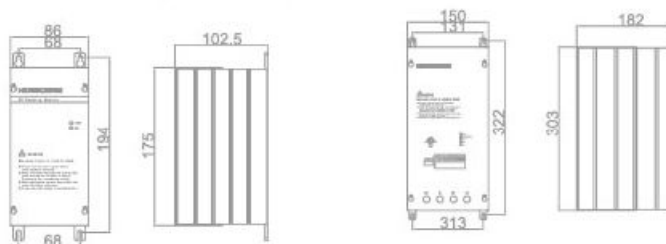
The equipments make EMI or equipments sensitive to EMI. The equipments impulse circuit or micro processor, SCR Silicon Controlled Rectifier equipments, Variable frequency equipments, Variable speed, variable frequency equipments, motor equipments



典型电路图



■ 产品尺寸图 (Product Size)



Picture A

Picture B

电压等级 Voltage	规格型号 TYPE	尺寸 Dimension L*W*H	安装尺寸 Mounting Dimensions	峰值电流(A) Peak current	额定电流(A) Rated Current	最小阻值 Ω Minimum resistance
AC200V~AC300V	DBM-2015	200*86*102.5	194*68	50	15	10
	DBM-2030	200*86*102.5	194*68	90	30	6.5
	DBM-4030	200*86*102.5	194*68	50	15	20
AC380V~AC460V	DBM-4045	200*86*102.5	194*68	75	25	16.3
	DBM-4110	350*150*182	322*131	200	70	6
	DBM-4220	350*150*182	322*131	300	85	3
	DBM-4300	350*150*182	322*131	500	120	2.5
AC690	DBM-6220	350*150*182	322*131	300	85	6

■ 成品识别码 (Product Identification Code)

DBM — 4030
 制动单元 — 4: Rated Voltage 2:220V 4:380V 6:690V
 DC Braking Module 11:1140V 030: Power 030=30KW