

制动单元 DBU 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。

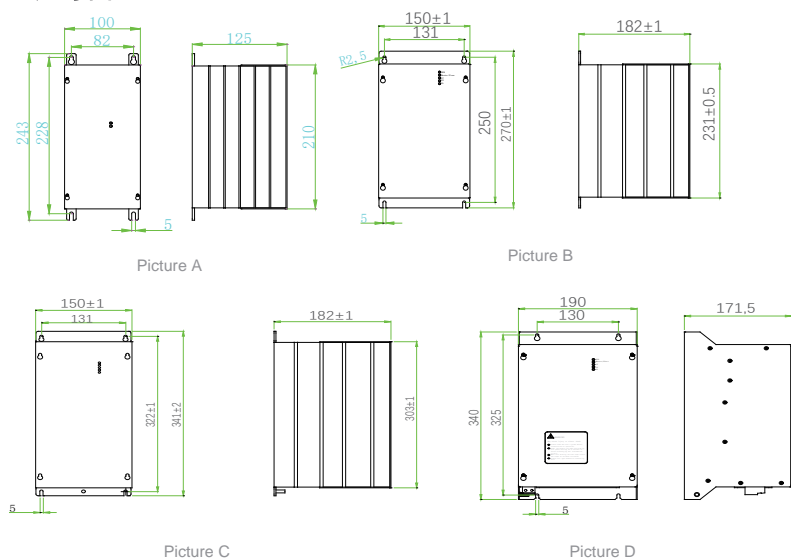
The function of the braking unit is to divert into a brake resistor the regenerative energy produced in the process of decelerating the motor, converting that energy into heat. Regenerative energy flows from the motor into the inverter DC bus, manifested as increased bus voltage.

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。例如：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 equipments, Variable speed, variable frequency equipments, motor equipments

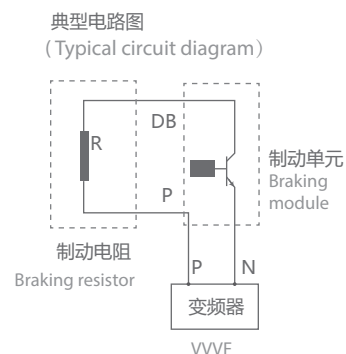
产品尺寸图 (Product Size)



电压等级 Voltage	规格型号 TYPE	图号 Product Picture	峰值电流(A) Peak current	额定电流(A) Rated Current	最小阻值 Ω Minimum resistance
AC200V~AC300V	DBU-2015D	Picture A	50	15	10
	DBU-2030D		90	30	6.5
	DBU-4030D		50	15	20
	DBU-4045D		75	25	13.6
	DBU-4055		90	30	12
AC380V~AC460V	DBU-4075	Picture B	110	35	10
	DBU-4090		130	45	7.5
	DBU-4110		150	50	6.5
	DBU-4160		200	70	4.5
	DBU-4220		300	85	3
AC690	DBU-4300	Picture C	500	120	2.5
	DBU-6110		150	50	8.5
	DBU-6220		180	75	7.5
	DBU-6300	Picture D	200	85	6.5

成品识别码 (Product Identification Code)

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



Regenerative Unit

产品概述 (Product Introduction)

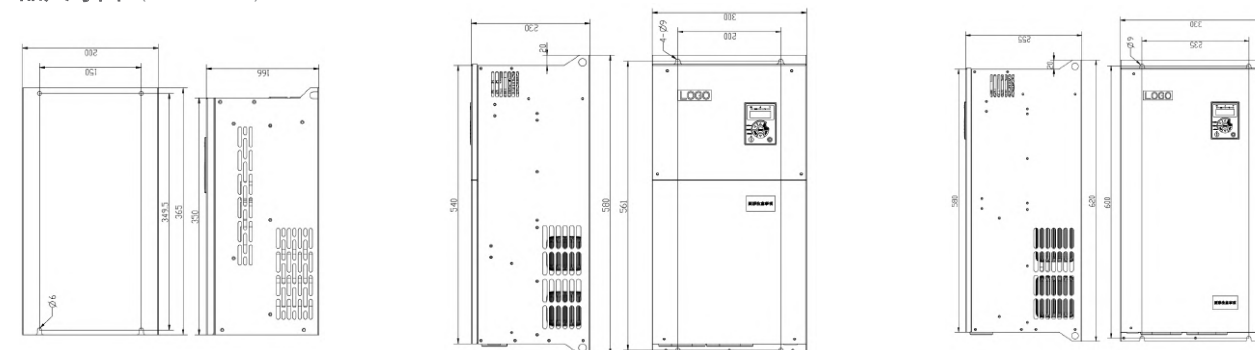
The AFE regenerative unit is a compact, total all-in-one solution for low harmonics and/or full regeneration, and is the ultimate choice for power quality and energy savings. It has easy to setup and install, safe to use, parallel usage of multiple units, realize complete current sharing. It is mainly applied in cases where rapid DEC, positioning and brake is needed eg mine hoist, elevator, textile machine, paper-making machinery, centrifugal machine, drawbench, proportional action and crown block.



技术规格 (Technical Specifications)

功率范围 Power Range:	5.5-45KW
输入电压 Input Voltage	380V ± 15%, 3 PH
输出电压 Output Voltage	580-780Vdc
Carrier frequency	10 kHz
Controllable rectifier power factor	> ±0.98 (under rated load, the mains voltage harmonics <3%)
Controllable rectifier power current	<5% (under rated load, the grid voltage harmonics <3%)
Work efficiency	> 97 %
Overload capacity	120% rated current overload for 30 minutes 150% rated current overload for 1 minute
Feedback power view	The feedback power (active power) is represented by a negative number and the accuracy error < 5% at rated power.
Rectification/Feedback Distinction	Distinguish between rectifier current and feedback current: the rectification direction is positive, and the feedback direction is negative.
Measurement of feedback power	For example, it can be set to record and check the amount of energy returned within a certain hour, with an accuracy within ± 10%
Digital input	Route 1 (x1-COM)
Digital output	1 way relay (RA-RC)

产品尺寸图 (Product Size)



Control panel



Button Name	Name	Function Description
PRG	Programming key	Enter or exit via the first-level menu
ENTER	Confirm button	Enter the menu screen step by step, set the parameters and confirm.
▲	UP increment key	Increment of data or function code
▼	DOWN decrement key	Decreasing of data or function code
▶	shift key	In the shutdown and operation display interfaces, the displayed parameters can be cycled through; when modifying parameters, the modification digits can be selected.
🟢	Run key	In keyboard operation mode, it is used to perform operations.
🟡	Stop/Reset button	When in operation, pressing this key can be used to stop operation, subject to function code P7.02; when in fault alarm state, this key can be used to reset the fault, not subject to function code P7.02.
JOG	Shortcut multi-function key	The function of this key is determined by function code P7.01.
M	Spare key	