制动单元(CDBR) DC Braking Unit



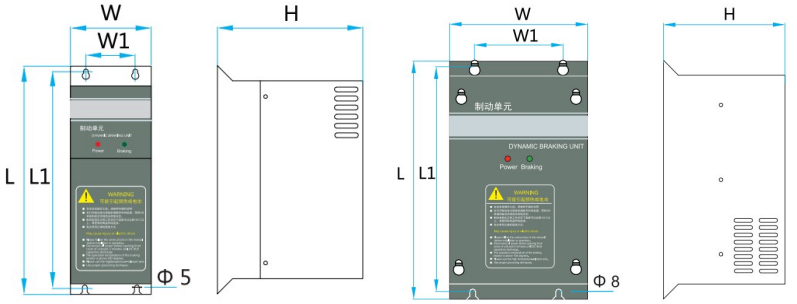
产品概述(Product Introduction)

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 re - generative energy produced in the process of deceleroting the motor, converting that energy into heat. Regenerative energy flows form the motor into the inverter DC bus,manifested as increased bus votge.

产品应用(Product Application)

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,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。When the inverter slows down, the motor is in the state of power generation because of the large inertia of the dragging system, and the mechanical energy quickly feeds back to the DC bus, making the DC bus voltage rise rapidly, thus endangering the safety of the converter. Therefore, the feedback energy must be consumed quickly, otherwise the converter will be overvoltage protection or fault. General inertia is large, or need to slow down sharply, braking occasions can use this braking unit. For example: centrifuge, elevator, crane, drawing machine, port machinery and so on can be used.

产品尺寸图(Product Size)



产品型号 Product Type	额定电流 Rated Cuurent(A)	峰值电流 Crest Current	最小阻值 Minimum Resistance	尺寸/Size(Unit:mm)					端子 Terminals	图号
				L	L1	W	W1	H		
CDBR–2015	15A	50A	10Ω	240	228	85	55	153	M4	图一
CDBR–2022	25A	75A	6.8Ω	240	228	85	55	153	M4	
CDBR–2030	30A	85A	5Ω	240	228	85	55	153	M4	
CDBR–4030	15A	50A	20Ω	240	228	85	55	153	M4	
CDBR–4045	25A	75A	13.6Ω	240	228	85	55	153	M4	
CDBR–4055	30A	85A	12Ω	240	228	85	55	153	M4	
CDBR–4075M	35A	100A	10Ω	240	228	85	55	153	M4	
CDBR–4075	35A	100A	8Ω	320	304	187	120	163	M6	图二
CDBR–4110	50A	150A	6.8Ω	320	304	187	120	163	M6	
CDBR–4160	70A	200A	5Ω	320	304	187	120	163	M6	
CDBR–4220	85A	300A	3.3Ω	320	304	187	120	163	M6	
CDBR–4300	120A	400A	2.5Ω	320	304	223	160	193	M6	

产品选择指引(Selection guide)

CDBR	4	045
CDBR:制动单元	电压 Voltage 4:380V 2:220V 6:660V	变频器功率 POWER (15~300KW)