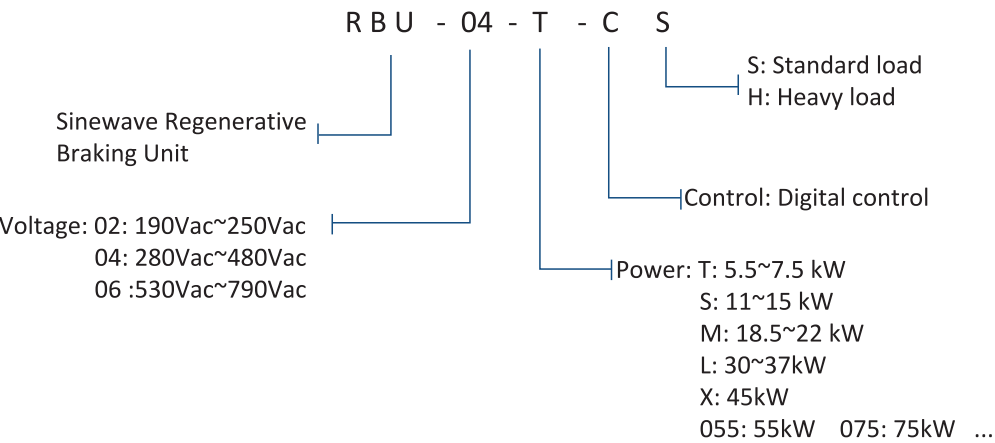


Regenerative Braking Unit - RBU

AC 220V/380V/690V 5.5~315kW



Product advantages

- Energy saving rate: 20% ~ 60%
- Auto 3-phase phase sequence detection
- Built-in Fuse
- Auto disconnected in case of failure
- Input Harmonic meet EN55022 Class A
- Energy conversion rate reaches 97.5%
- Wide input power frequency range
- Built-in Reactor, Filter
- Easy to select and easy to use
- Compatible with all brands of LV drive

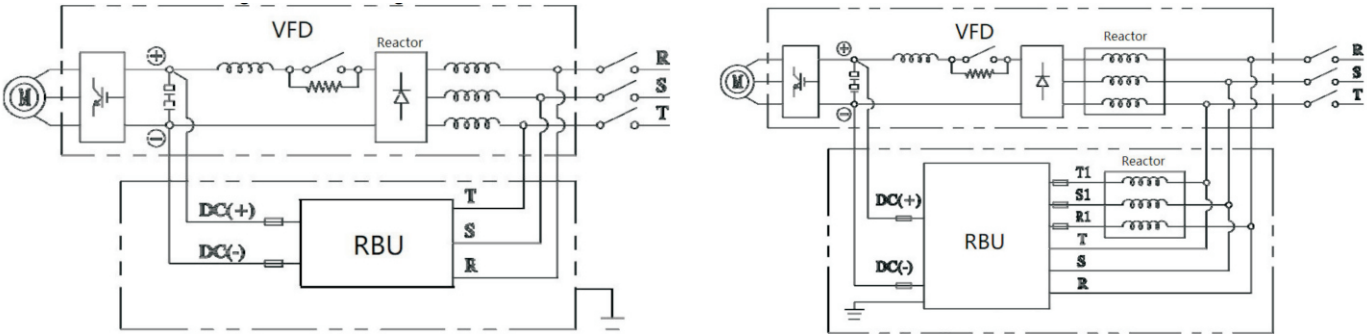
Product features

|          |                                                                                                                    |       |                                                                                                                                                          |
|----------|--------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| C2/C3/C4 | Harmonic THDi<=5%<br>150% braking torque<br>Built-in DC Fuse<br>Built-in Filter/Reactor<br>Built-in buffer circuit | C5/C6 | Harmonic THDi<=5%<br>150% braking torque<br>Built-in DC and AC Fuse<br>Built-in Filter<br>Come standard with external Reactor<br>Built-in buffer circuit |
|----------|--------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

Product specification

| ITEM        |                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                               |
|-------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VOLTAGE     | Input              | 3 Phase 190Vac ~ 250Vac<br>3 Phase 280Vac ~ 480Vac<br>3 Phase 530Vac ~ 790Vac                                                                                                                                                                                                                                                                             |
|             | Frequency          | 40Hz ~ 70Hz                                                                                                                                                                                                                                                                                                                                               |
| CONTROL     | Current Ctrl       | Vector control, current and voltage THD < 5%@ 100% load                                                                                                                                                                                                                                                                                                   |
|             | Output             | DC bus voltage intelligent predictive control                                                                                                                                                                                                                                                                                                             |
|             | Rectifier feedback | 330Vdc (220Vac) ± 150Vdc Adjustable<br>600Vdc (380Vac) ± 200Vdc Adjustable<br>1000Vdc (660Vac) ± 200Vdc Adjustable                                                                                                                                                                                                                                        |
|             | Fan Control        | Enable at 43℃, disable at 40℃, control programmable                                                                                                                                                                                                                                                                                                       |
| PROTECTION  | Protection         | Overcurrent protection, overload protection, current limit protection, DC short circuit protection, DC overvoltage protection, DC undervoltage protection, overheat protection, grid amplitude fault protection, frequency fault protection, grid phase fault protection, AC short circuit protection, external EXT Terminal input fault protection, etc. |
|             | DISPLAY            | Status                                                                                                                                                                                                                                                                                                                                                    |
| ENVIRONMENT | Install place      | Inside the cabinet, the altitude is no more than 1000m, no direct sunlight, no conductive dust and corrosive gases                                                                                                                                                                                                                                        |
|             | Temperature        | -10~40℃, Well ventilated                                                                                                                                                                                                                                                                                                                                  |
|             | Humidity           | Below 90%RH (no condensation)                                                                                                                                                                                                                                                                                                                             |
|             | Vibration          | Below 0.5g                                                                                                                                                                                                                                                                                                                                                |
|             | Air                | No dust, direct sunlight, corrosive gas, flammable gas, oil mist, steam, water, etc., not contain too much salt                                                                                                                                                                                                                                           |
| STORAGE     | Install method     | Wall-mounted, protection grade IP20                                                                                                                                                                                                                                                                                                                       |
|             | Temperature        | -40~70℃                                                                                                                                                                                                                                                                                                                                                   |
|             | Humidity           | 5 ~ 95% RH                                                                                                                                                                                                                                                                                                                                                |
|             | Air                | No dust, direct sunlight, corrosive gas, flammable gas, oil mist, steam, water, etc., not contain too much salt.                                                                                                                                                                                                                                          |

Standard wiring



C2/C3/C4 Wiring diagram or RBU and VFD

C5/C6 Wiring diagram or RBU and VFD