

UFS

BRAKING UNITS

GENERAL DESCRIPTION

The UFS braking units are designed to be used with any frequency inverter or converter equipped with BUS-DC. These units can dissipate, through a static chopper, the energy coming from the load during the braking phase. The product family has UL Certification for NAFTA market use.

MAIN FEATURES

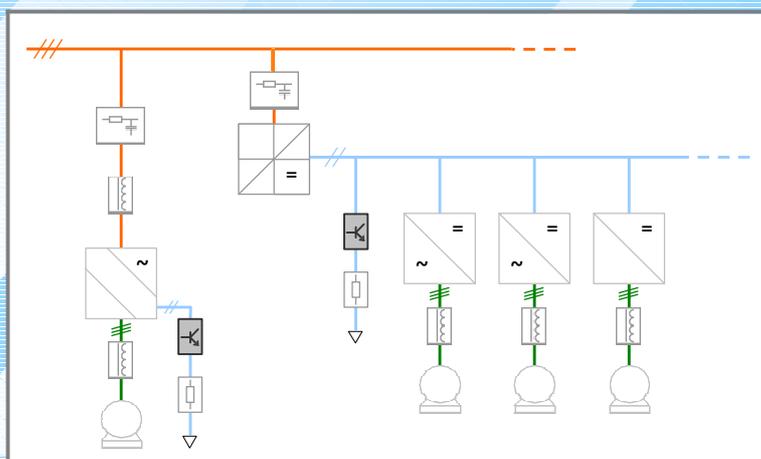
- User selectable braking threshold
- Self powered from DC-BUS
- Master-Slave functionality
- Internal electro-mechanical thermal relay with insulated auxiliary contacts for braking resistor protection.
- Standard kits of braking resistors

ORDERING DATA

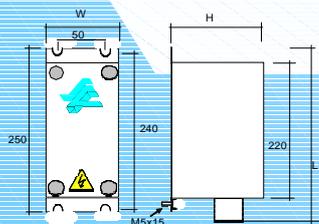
UFS 22 J

└─ Voltage size:
- J : 230V
- nothing : 400V

└─ Rated current



OUTLINE DIMENSIONS



Model	Quote			Weight
	W	L1	H	
UFS15,22,40 UFS15J,22J,40J	100	/	175	2.5 Kg
UFS110	107	270	195	3.9 Kg

APPLICATION TABLE / PRODUCT SELECTION

Unit	Braking voltage Standard (SW1-4 = ON)	Maximum peak current IP (A)	Maximum instantaneous power Pmax (KW)	Standard Ith (A)	%ED Max	RF(∧) min.
UFS15	745	18	14	4+6	10%	>40
UFS22	745	34	25	7+11	10%	>22
UFS40	745	55	41	12+18	10%	>13,5
UFS110	745	140	105	23+32	5%	>5,3

Standard Kit for mains up to 440Vac

Unit	SCS kit		Connection	Overall Resistance	Overall power continuous duty S1	Max power intermittent duty S3 ED 5% (Max 2s cont.)	Dimension s 1 pc L/W/H.
UFS15	RUFC15	1 pz. x 40∧ 1200W		40∧ -0%+10%	1,2 kW	14kW	310/100/75
UFS22	RUFC22	1 pz x 24∧ 2000W		24∧ -0%+10%	2 kW	23kW	365/100/75
UFS40	RUFC40	2 pz. x 6,8∧ 2000W		13,6∧ -0%+10%	4 kW	40kW	365/100/75
UFS110	RUFC110	4 pz. x 6,8∧ 2000W		6,8∧ -0%+10%	8 kW	81kW	365/100/75

Standard Kit for mains up to 330Vac

Unit	SCS Kit		Connection	Total resistance	Total power S1 continuous service	Total power S3 cyclic service ED 5% (Max 2s continuous)*	Dimensions 1 piece L/W/H.
UFS15J	RUFC15J	1 pz. x 24∧ 800W		24∧ -0%+10%	0.8kW	6kW	240x100x75
UFS22J	RUFC22J	1 pz x 12∧ 1200W		12∧ -0%+10%	1.2 kW	12kW	310x100x75
UFS40J	RUFC40J	1 pz. X7.5∧ 2000W		7,5∧ -0%+10%	2kW	19kW	365x100x75

TECHNICAL SPECIFICATIONS

- Tolerance on the intervention voltage: 0.8%
- Hysteresis about 2%
- Ambient temperature 0°C + 40°C
- Maximum braking time = 10s
- Protection degree IP20
- Thermal guard with manual / automatic reset
- DC supply voltage from 450Vdc to 746Vdc (234Vdc+373dc for J version)
- Maximum voltage 800Vdc (400Vdc for J version)
- Main supply voltage from 380Vac to 480Vac +/-10%. (200Vac to 240Vac ±10% for J version)

RUFC

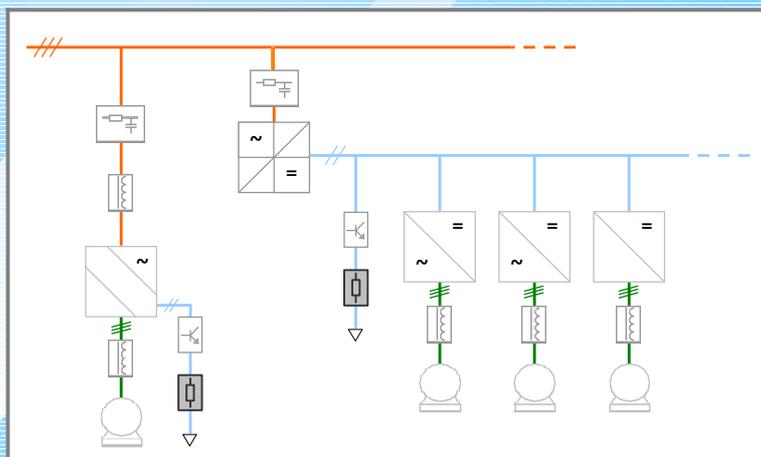
BRAKING RESISTORS

GENERAL DESCRIPTION

The RUFC braking resistors are designed to be connected with UFS braking units so that a braking kit is available for any application of frequency inverter or converter equipped with BUS-DC.

MAIN FEATURES

- excellent performances/dimensions ratio
- low thermal resistance (from 0,6°C/W to 0,24 °C/W)
- easy mounting
- no smoke or fumes
- ROHS compliant



ORDERING DATA REFERENCE TABLE

SCS kit		Overall Resistance	Overall power continuous duty S1	Dimensions [mm] L/W/H
RUFC15	1 pz. x 40 Δ 1200W	40 Δ -0%+10%	1,2 kW	310/100/75
RUFC22	1 pz x 24 Δ 2000W	24 Δ -0%+10%	2 kW	365/100/75
RUFC40	2 pz. x 6,8 Δ 2000W	13,6 Δ -0%+10%	4 kW	365/100/75
RUFC110	4 pz. x 6,8 Δ 2000W	6,8 Δ -0%+10%	8 kW	365/100/75
RUFC15J	1 pz. x 24 Δ 800W	24 Δ -0%+10%	0.8kW	240x100x75
RUFC22J	1 pz x 12 Δ 1200W	12 Δ -0%+10%	1.2 kW	310x100x75
RUFC40J	1 pz. X7.5 Δ 2000W	7,5 Δ -0%+10%	2kW	365x100x75