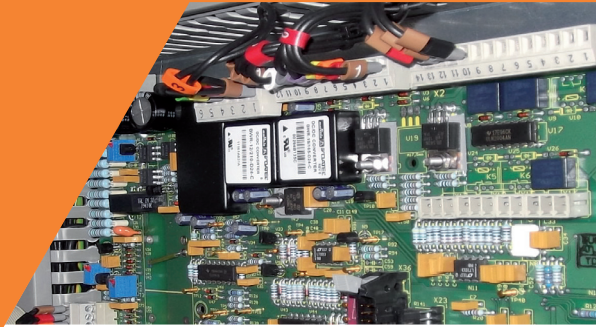


Wärtsilä JOVYPHASE 400

PRODUCT LEAFLET



The static frequency converters of the type Wärtsilä JOVYPHASE 400 guarantee secure power supply with an adjustable frequency of 50, 60 200 380 or 400 Hz. Low operating costs, compact design with low space requirement as well as a high efficiency characterise these devices. Due to the advanced technology the static frequency converters of Wärtsilä JOVYPHASE 400 assure reliable and efficient operation.

STATIC FREQUENCY CONVERTER WITH EXCELLENT SINGLE-PHASE VOLTAGE CONTROL

The frequency converters of the Wärtsilä JOVYPHASE 400 series are equipped with a 6-pulse rectifier bridge, inrush current limiting and with LC filtering. The inverters of these series are based on PWM technology. The excellent single-phase voltage control ensures full functioning of the device also with extreme unbalanced load. Static frequency converters of the type series Wärtsilä JOVYPHASE 400 are manufactured by default with the frequencies 50, 60, 200, 380 and 400 Hz. Other frequencies are available optionally on request.

The frequency converters of these type series are available in industrial-cabinet design as well as in 19-inch design. The industrial-cabinet system covers the performance ranges of 10 up to 200 kVA; in the 19-inch version the frequency converters are available with performances of 1,5 up to max. 5 kVA. Both versions are available with single-phase as well as with three-phase outputs.

The robust mechanic version enables application also under difficult operational conditions. In addition to an excellent sinusoidal value the systems of this type show an optimal control performance, even in the event of a 100% load change. A comfortable monitoring and diagnosis system provides all necessary information about the operational status of the system.

In the standard version the frequency converters of these series are equipped with an ON/OFF button, failure lamp, operating hours meter as well as a voltmeter and an ammeter for the output data. A variety of options are available, e.g. radio interference suppression according to specification, over voltage and low voltage indicator, remote control, controlled input rectifier, additional potential-free signalling contacts or higher protection classes. The interpretation of electric data can be configured customer-specifically, also the dimensions of housings and colours.

Tab.1 Extract of technical data Wärtsilä JOVYPHASE 400

TECHNICAL DATA

Input	voltage: 3 x 400 / 230 V frequency: 50 /60 Hz ± 5%
Output	voltage: max. 1 x 250 V single-phase system / max. 3 x 440 V three-phase system frequency: 50 /60 /200/ 380 Hz/400 Hz power: max. 5 kVA THD < 5% efficiency > 90%
Operation mode	permanent operation
Protection class	IP 20
Ambient temperature	0° - 45° C

TYPES
SINGLE-PHASE OUTPUT, 19 INCH DESIGN

Termination	Output power [kVA]	Dimensions H x W x D [mm]	Weight [kg]
Wärtsilä JOVYPHASE 911	1,5	483 x 532 x 535	51
Wärtsilä JOVYPHASE 912	2	483 x 532 x 535	60
Wärtsilä JOVYPHASE 913	3	483 x 532 x 535	72
Wärtsilä JOVYPHASE 914	4	483 x 532 x 535	80
Wärtsilä JOVYPHASE 915	5	483 x 532 x 535	86

THREE-PHASE OUTPUT, 19 INCH DESIGN

Wärtsilä JOVYPHASE 931	1,5	483 x 532 x 535	55
Wärtsilä JOVYPHASE 932	2	483 x 532 x 535	63
Wärtsilä JOVYPHASE 933	3	483 x 532 x 535	78
Wärtsilä JOVYPHASE 934	4	483 x 532 x 535	85
Wärtsilä JOVYPHASE 935	5	483 x 532 x 535	91

SINGLE-PHASE OUTPUT, INDUSTRIAL CABINET DESIGN

Wärtsilä JOVYPHASE 110	10	800 x 1800 x 500	on request
Wärtsilä JOVYPHASE 130	30	1200 x 1800 x 500	on request
Wärtsilä JOVYPHASE 180	80	1200 x 2200 x 600	on request
Wärtsilä JOVYPHASE 1100	100	1200 x 2200 x 800	on request
Wärtsilä JOVYPHASE 1130	130	1800 x 2200 x 800	on request
Wärtsilä JOVYPHASE 1160	160	2000 x 2200 x 800	on request
Wärtsilä JOVYPHASE 1200	200	2400 x 2200 x 800	on request

THREE-PHASE OUTPUT, INDUSTRIAL CABINET DESIGN

Wärtsilä JOVYPHASE 310	10	800 x 1800 x 500	on request
Wärtsilä JOVYPHASE 330	30	1200 x 1800 x 500	on request
Wärtsilä JOVYPHASE 380	80	1200 x 2200 x 600	on request
Wärtsilä JOVYPHASE 3100	100	1200 x 2200 x 800	on request
Wärtsilä JOVYPHASE 3130	130	1800 x 2200 x 800	on request
Wärtsilä JOVYPHASE 3160	160	2000 x 2200 x 800	on request
Wärtsilä JOVYPHASE 3200	200	2400 x 2200 x 800	on request

It is self-explanatory that the frequency converters of the Wärtsilä JOVYPHASE 400 meet the applicable Europe-wide standards for system perturbation, radio interference suppression and EMC.

- **STATIC FREQUENCY CONVERTER WITH 6-PULSE RECTIFIER**
- **SINUSOIDAL OUTPUT OF HIGHEST QUALITY**
- **OPTIMAL CONTROL PERFORMANCE**
Single-phase voltage control
- **HIGH OPERATIONAL SAFETY**
- **OVERLOAD PROOF AND SHORT CIRCUIT PROOF**
- **CUSTOMISED MANUFACTURING FEASIBLE**

Fig.1 Wärtsilä JOVYPHASE 400

