

VFD data sheet

1) Contact information

Название компании RMG Copper
Название объекта Madneuli concentrate plant

2) Process

Technological process Mill
Adjustment range 0-100%
Quantity of motors 1

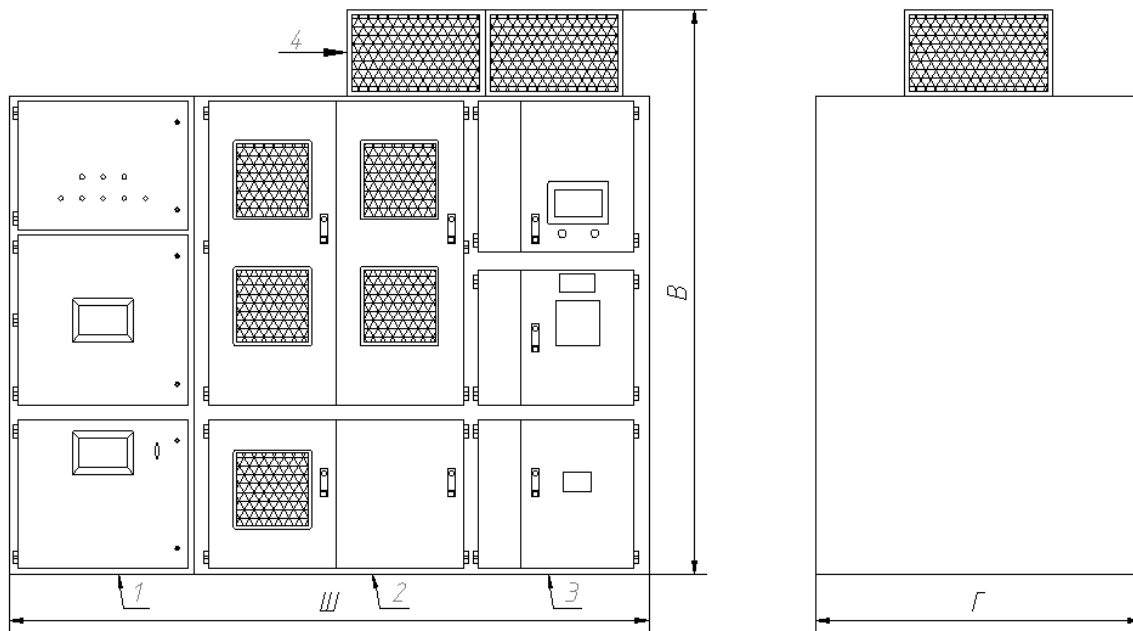
3) Information regarding motor

Type of motor asynchronous squirrel-cage motor
Nominal frequency, Hz 50Hz
Nominal stator voltage, V 6000 V
Motor Nominal capacity, kWt 315 kWt
Nominal stator current, A 40,5 A
Nominal rotation, rpm/min 750 rpm/min
Nominal efficiency, % 93,4 %
Nominal power factor 0,8
Working mode Continuous
Motor model ДА304-450X-8У1

4) Frequency converter requirements

Quantity of frequency converters, pieces 1
Input with a MV circuit breaker Yes
Protection class IP 31
Constructive execution cabinet with one-side access
Working temperature range, - C° ~ +C° 0 - +40C
Cooling system Air
Power/control cables input bottom
Control circuits voltage, V 24V
Distance from VFD to motor, m 100m
Communication protocol Ethernet IP
Altitude above sea level, m <1000m
Relative humidity of the air, % 80%
Size of the VFD 5,0*2,5*1,5м

Performance example



1-Input cabinet with MV circuit breaker

2-VFD power module

3-control board

4-Fans

5) List of signals:

Input discrete signals:

- Incoming MV CB ON
- Incoming MV CB OFF
- Start/Stop
- Remote control/local control.

Output discrete signals:

- MV CB ON/Off status
- VFD ON status
- Motor Run status
- MV CB TRIP.
- VFD TRIP
- Remote/local mode
- VFD cabinet opened door
- VFD READY status
- VFD fans Trip

Input analog signal:

- RPM (frequency) setpoint

Output analog signals:

- RPM (frequency) feedback
- Motor current