

## **ECONTROL COMFORT 230/I**

### ***Pump Control Panel for Single Pump Operation***

Power Supply: 1x230V, N, PE  
Nominal Current: up to 1x16A see Panel Details  
Duty Cycle: 100%  
Dimensions: 318x267x167mm  
Protection: IP 63  
Protection Category: class II equipment  
Alarm Exit: Potential-free output, max. 250V/5A  
Alarm Exit II: Output 230V, 50Hz, 2A



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### **1. Specifications**

Electric Pump Control Panel for single-phase and capacitor integrated submersible pumps up to 2.2kW. Automatic operation is enabled via external Float-Switch/Pressure-Switch. Protection degree of the Panel is IP 63.

The Panel is equipped with a lockable red-yellow Main Switch, Manual (“Hand”) – OFF (“AUS”) – Automatic (“Automatik”) Switch, protective overload motor-switch with alarm indication and 2x LEDs for Pump Operation (“Betrieb”/green) and Alarm (“Störung”/red).

There are 3x Panel Inputs for *Automatic Operation* (float-switch/pressure-switch), *High Level Alarm* (float-switch) and *Dry-Run Protection* (float-switch).

Furthermore the Panel has a potential-free general fault/alarm output and an alarm output for acoustic and optical external devices with 230V/50Hz, max. 2A.

### **2. Operational Description**

For automatic operation (“Betrieb”) the pump is switched via the external device (float-switch/pressure-switch). The operating mode is displayed by the green LED.

The (optional) external device for High Level Alarm (“Störung”) signals an overflowing pump chamber or storage tank. This is displayed via the red LED, the potential-free general fault/alarm output and the alarm output for external devices (e.g. buzzer). High level alarm does not interrupt automatic pump operation.

*Current overload (protective overload motor-switch)* is displayed via the red LED, the potential-free general fault/alarm output and the alarm output. Automatic pump operation is interrupted until the protective overload motor-switch is switched on again. It is necessary to open the Panel for this.

The external device (e.g. float-switch) for *Dry-Run Protection* interrupts automatic pump operation. Manual operation of the pump is then still possible. At factory setting the contacts for the external device are bridged. Automatic operation is possible without *Dry-Run Protection*. It is however strongly recommended to connect an external device for *Dry-Run Protection*.

EBARA Pumps Europe  
 Philipp-Reis-Str. 15  
 63128 Dietzenbach

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Projekt :  
 EBARA ECONTROL

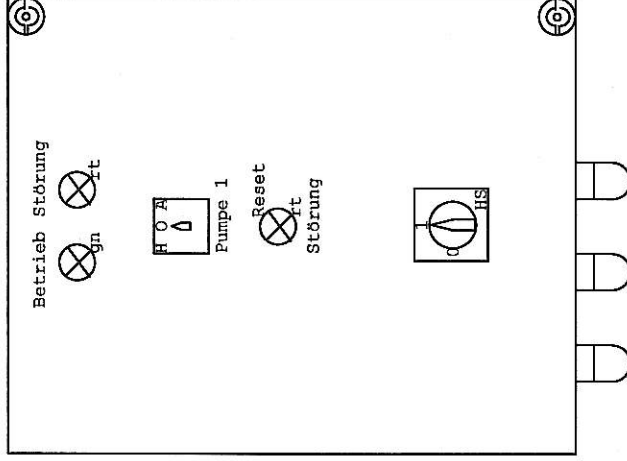
Typ: ECONTROL 230/1 Comfort

Nennspannung : 1 x 230 V+N+PE

Nennstrom : 1 x 16A

Nennleistung : lt. Tabelle

Steuerspannung : 230VAC

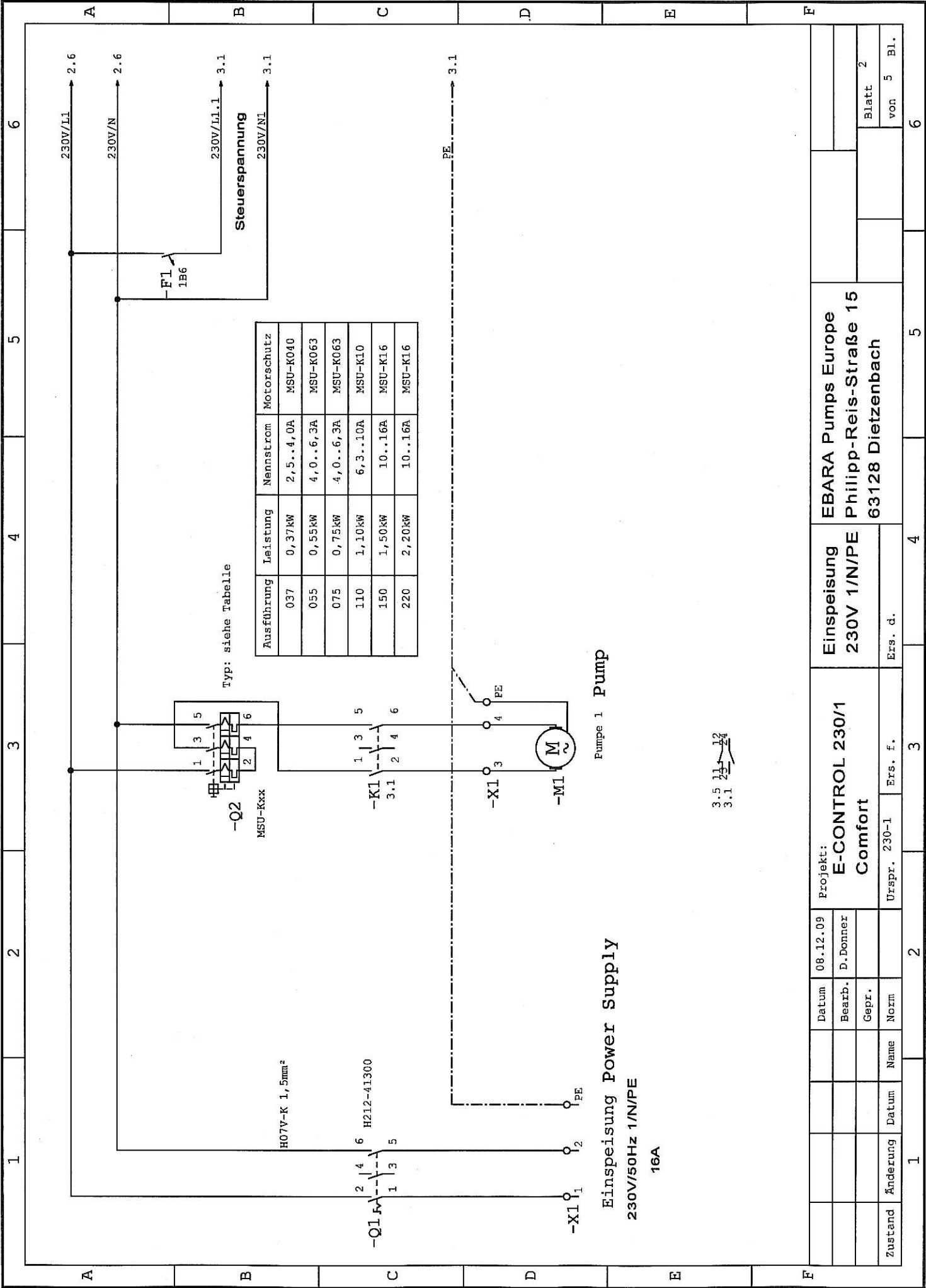


Gehäuse: A-48  
 HxBxT: 318x267x167  
 2x3 Verschraubungen  
 unten: 2xM25+1xM20  
 oben: 3xM20

Zustand	Änderung	Datum	Name	Norm	Urspr.	Ers. d.

Deckblatt  
 EBARA Pumps Europe  
 Philipp-Reis-Straße 15  
 63128 Dietzenbach

Blatt 1  
 von 5 Bl.



Typ: siehe Tabelle

Ausführung	Leistung	Nennstrom	Motorschutz
037	0,37kW	2,5..4,0A	MSU-K040
055	0,55kW	4,0..6,3A	MSU-K063
075	0,75kW	4,0..6,3A	MSU-K063
110	1,10kW	6,3..10A	MSU-K10
150	1,50kW	10..16A	MSU-K16
220	2,20kW	10..16A	MSU-K16

Pumpe 1 Pump

Einspeisung Power Supply  
230V/50Hz 1N/PE  
16A

3.5 11  
3.1

Zustand		Änderung		Datum		Name	
Einspeisung		E-CONTROL 230/1		Projekt:		EBARA Pumps Europe	
230V 1N/PE		Comfort		08.12.09		Philipp-Reis-Straße 15	
Ers. d.		Urspr. 230-1		D. Donner		63128 Dietzenbach	
Ers. f.		Ers. f.		Gepr.		Blatt 2	
3		2		Norm		von 5 Bl.	
4		1		Datum		6	





