

## **ECONTROL COMFORT 230/II**

### ***Pump Control Panel for Dual 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 2x single-phase and capacitor integrated submersible pumps up to 2.2kW each. 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 for each pump, protective overload motor-switch (2x) with alarm indication, 2x LEDs for each pump displaying Operation (“Betrieb”/green) and Alarm (“Störung”/red).

There are 4x Panel Inputs for *Automatic Operation* (float-switch/pressure-switch), *Peak Load* (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”) one of the pumps is switched via the external device (float-switch/pressure-switch) for normal operation. After every pump cycle the pump is changed to obtain equal operational hours. The operating mode is displayed by the green LED.

During *Peak Load* (“Spitzenlast”) the external device for peak operation (float-switch/pressure-switch) switches the non-operating pump on as backup. The pumps will be switched as normal after the cycle has ended.

The (optional) external device for *High Level Alarm* (“Störung”) signals high water level inside the 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 separately via the red LED of each pump and the potential-free general fault/alarm output only. Automatic pump operation is limited to the remaining operational pump. In order switch on again the protective overload motor-switch for each pump, it is necessary to open the Panel.

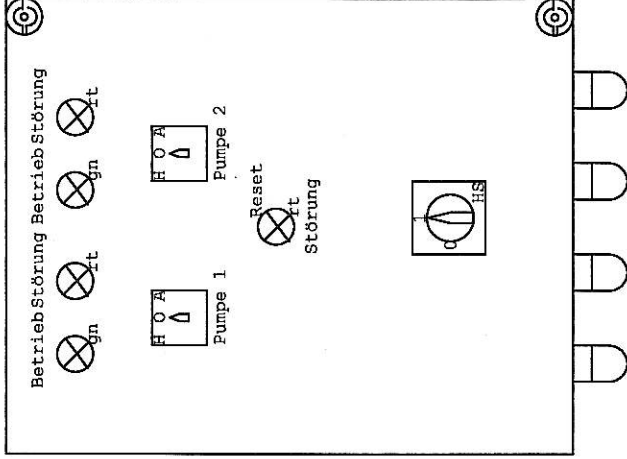
The external device (e.g. float-switch) for *Dry-Run Protection* interrupts automatic pump operation. Manual operation of the pumps is then still possible. At factory setting the contacts for the external device are bridged. Automatic operation is possible without *Dry-Run Protection*. It is however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

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

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 Fax: 06074 / 8279-42

Projekt :  
 EBARA ECONTROL

Typ: ECONTROL 230/2 Comfort  
 Nennspannung : 3 x 400 V+N+PE  
 Nennstrom : 3 x 16A  
 Nennleistung : lt. Tabelle  
 Steuerspannung : 230VAC



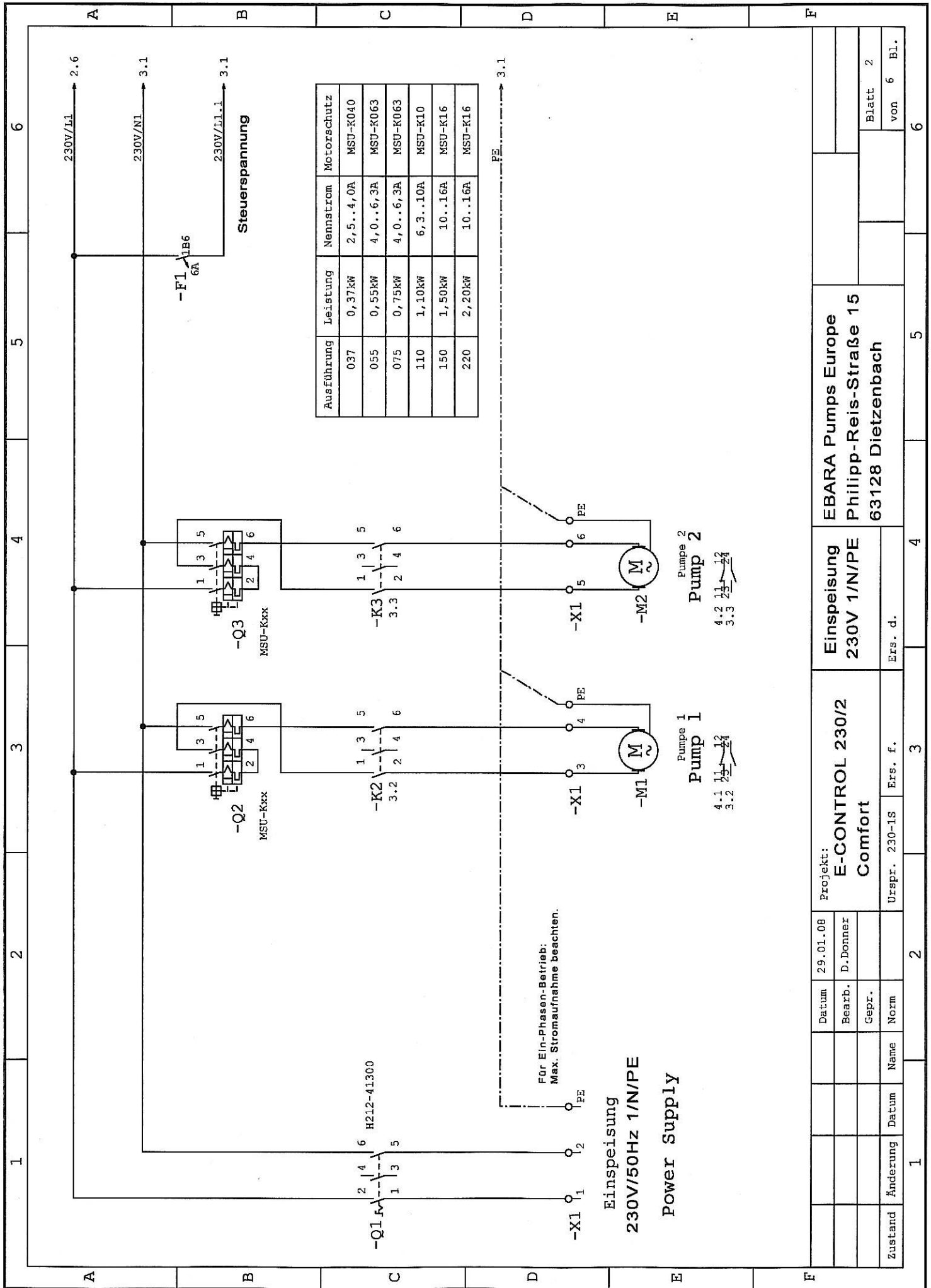
Gehäuse: A-48  
 HxBxT: 318x267x167  
 2x4 Verschraubungen  
 unten: 3xM25+1xM20  
 oben: 4xM20

Zustand	Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.

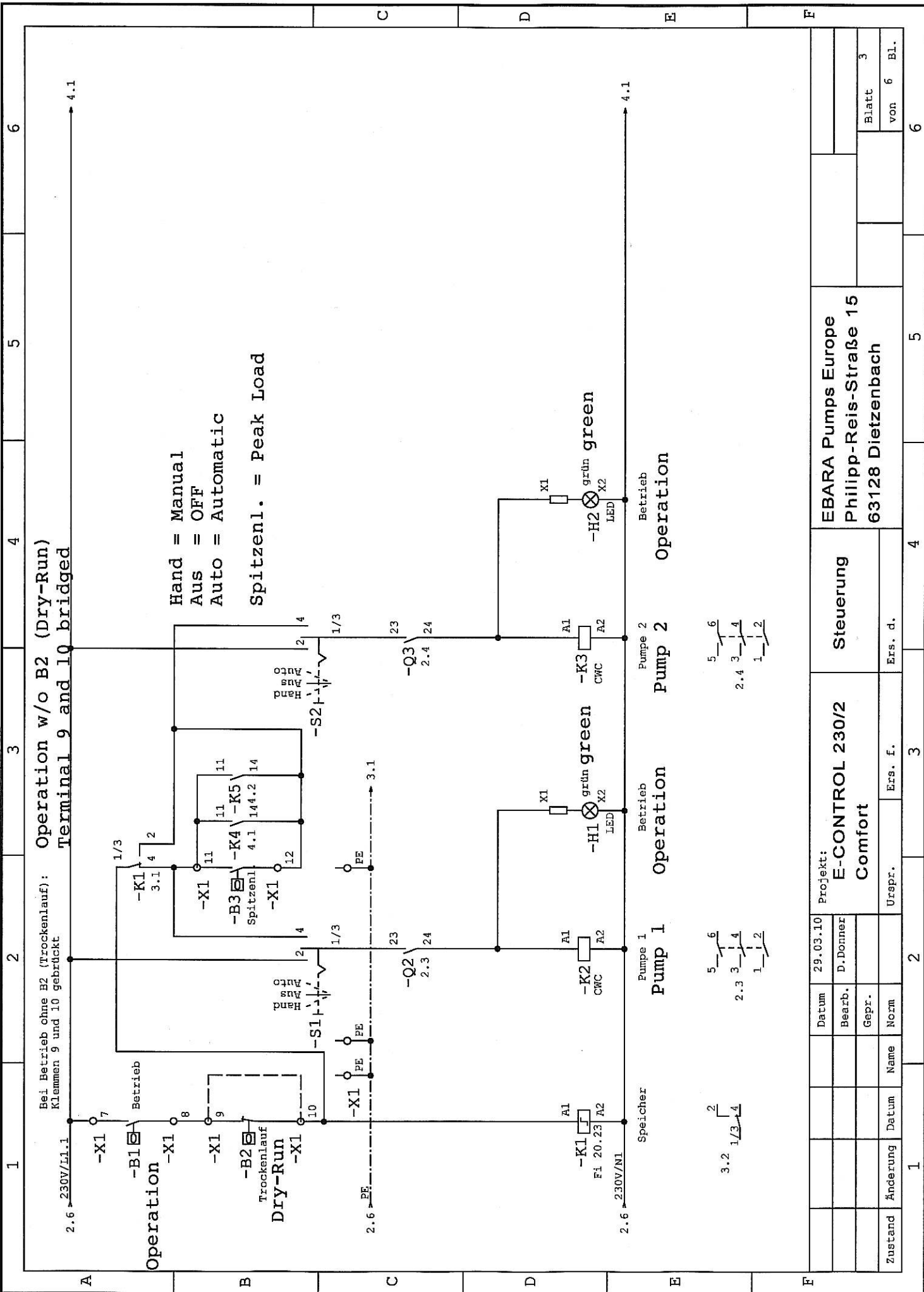
Deckblatt

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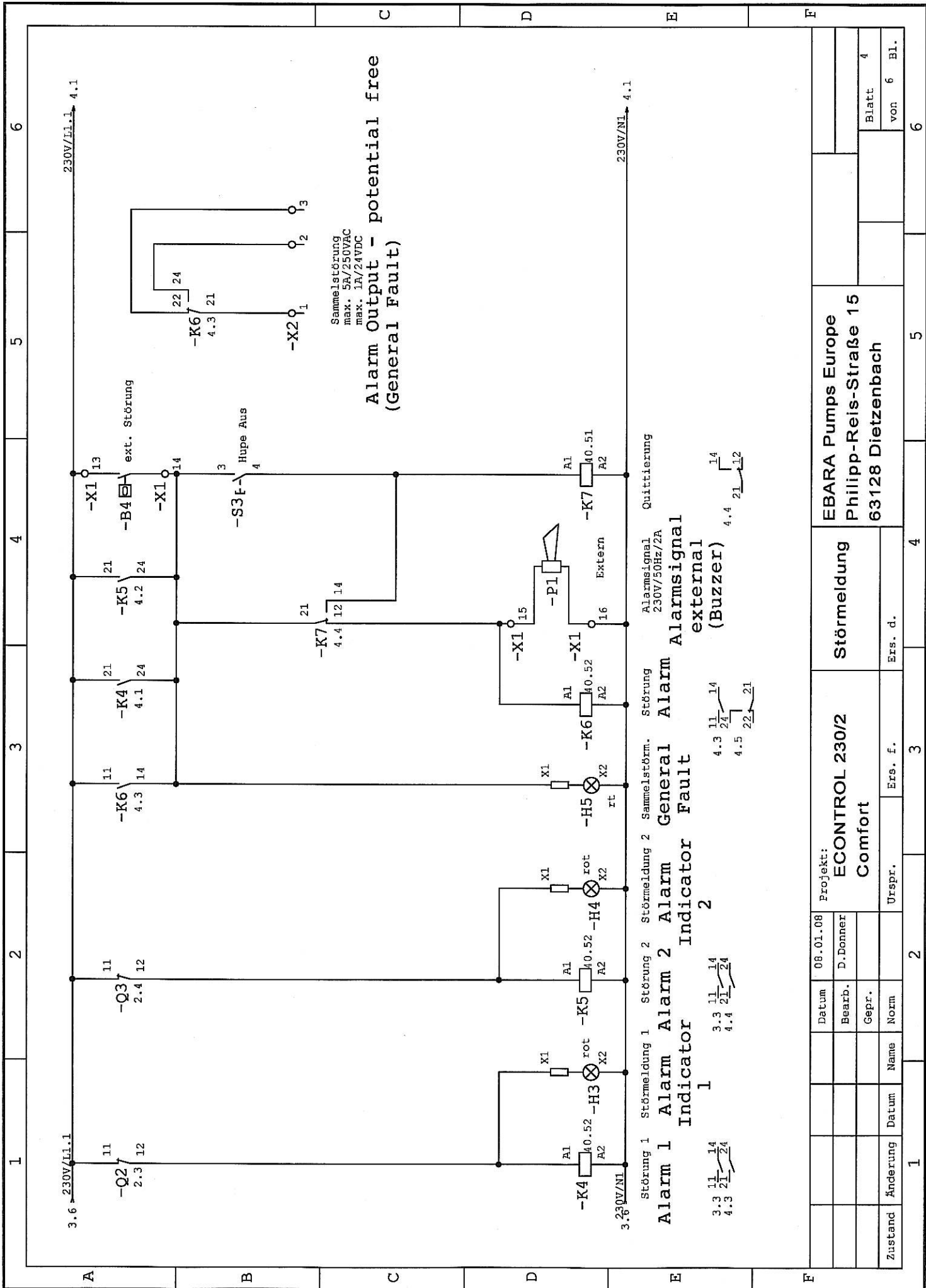
Blatt 1  
 von 6 Bl.



Zustand		Änderung		Datum		Name	
Ers. f.		Ers. d.		3.2		4.1	
Urspr. 230-1S		E-C-CONTROL 230/2 Comfort		Einspeisung 230V 1N/PE		EBARA Pumps Europe Philipp-Reis-Straße 15 63128 Dietzenbach	
Projekt:		E-C-CONTROL 230/2 Comfort		Einspeisung 230V 1N/PE		EBARA Pumps Europe Philipp-Reis-Straße 15 63128 Dietzenbach	
Datum		29.01.08		Ers. d.		Ers. f.	
Bearb.		D. Donner		3		4	
Gepr.				3		4	
Norm				3		4	
Blatt		2		5		6	
von		6		5		6	
Bl.		2		5		6	



Zustand	Änderung	Datum	Name	Urspr.	Ers. f.	3	4	5	6
Datum			Projekt:						
29.03.10			E-CONTROL 230/2						
Bearb.			Comfort			Steuerung			
D. Donner						EBARA Pumps Europe			
Gepr.						Philipp-Reis-Straße 15			
Norm						63128 Dietzenbach			
Ers. f.						Blatt 3			
Urspr.						von 6 Bl.			



Sammelstörung  
max. 5A/250VAC  
max. 1A/24VDC  
**Alarm Output - potential free  
(General Fault)**

Alarmsignal  
230V/50Hz/2A  
**Alarm external  
(Buzzer)**

Störung  
**Alarm  
external**

Störung 2  
**Alarm  
Indicator**

Störung 1  
**Alarm  
Indicator**

Zustand		Änderung		Datum		Name		Urspr.		Ers. f.		Ers. d.		Störmeldung		EBARA Pumps Europe Philipp-Reis-Straße 15 63128 Dietzenbach	
Projekt: ECONTROL 230/2 Comfort																	
Datum		08.01.08		Bearb.		D. Donner		Gepr.									
Blatt		4		von		6		Bl.									



