EURO HÜBNER BENELUX B.V.

Brake rectifier
FWR

Brake rectifier
HWR

Protective element
PE-400/150/5

Brake rectifier
BGL+EGL

Switching rectifier
SGL

PINTSCH BUBENZER
is certified according to
DIN EN ISO 9001:2008

Reliable | High Performance | Robust | Easy Maintenance | Compact | Tried and Trusted

Description Accessories

Main Features

- EMC compatibility
- Top-hat rail mounted
- Combinable with Brake Control Unit BCU2001
- Integrated protective element
- Integrated spark quench element

Specific Features for the rectifiers BGL and EGL

- Prepared for switching AC and DC circuits simultaneously
- Installation in cabinet

Specific Features for the protective element PE 400/150/5

- To be connected parallel to the output of the rectifiers BGL, EGL and SGL to increase the interruption capacity

Specific Features for the rectifiers FWR and HWR

- Prepared for switching AC and DC circuits simultaneously
- Installation in junction box

Specific Features of the switching rectifier SGL

- Prepared for switching AC and DC circuits simultaneously
- Switches from bridge rectification to half-wave rectification
- Four time settings 0,5 s, 1 s, 1,5 s, 2 s adjustable
- Applying brakes at elevated temperatures
- Accelerated brake release (Overexcitation with AC power supply voltage = 2 x DC coil voltage)
- Accelerated brake effect (Standard excitation with AC power supply voltage = DC coil voltage)

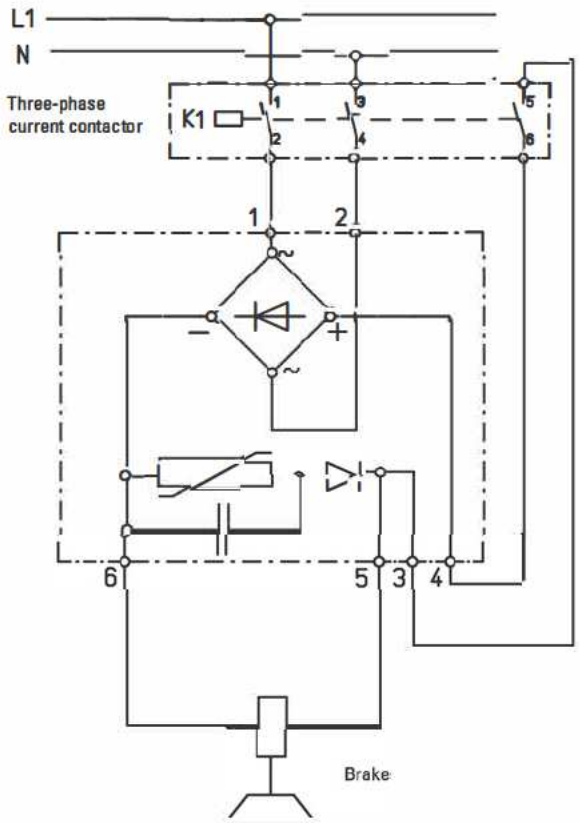
BGL-PE400/150/3 - EGL-PE400/150/5

Principal circuit diagram

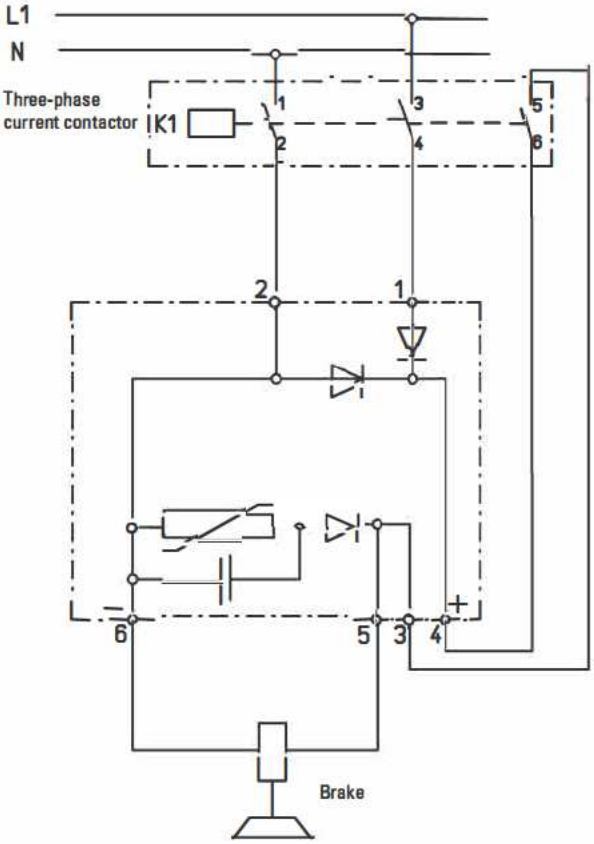
EURO HÜBNER BENELUX B.V.

Rev. 03-09

Bridge rectification with module BGL



Half-wave rectification with module EGL



Technical data

Brake rectifier BGL-PE400/150/3	
AC line voltage:	AC 460V; 50/60 Hz
Permissible rated coil voltages:	DC 24V…390V
Maximum brake current:	2,5A
Maximum continuous output of the internal protective circuit:	3W
Disconnection peak at maximum coil current:	≤450V
Ambient temperature:	-40° C … +50° C
Protection class:	IP 20

Brake rectifier EGL-PE400/150/5	
AC line voltage:	AC 460V; 50/60 Hz
Permissible rated coil voltages:	DC 24V…220V
Maximum brake current:	5A
Maximum continuous output of the internal protective circuit:	5W
Disconnection peak at maximum coil current:	≤450V
Ambient temperature:	-40° C … +50° C
Protection class:	IP 20

Full wave rectifier FWR-PE400/150/3

Principal circuit diagram

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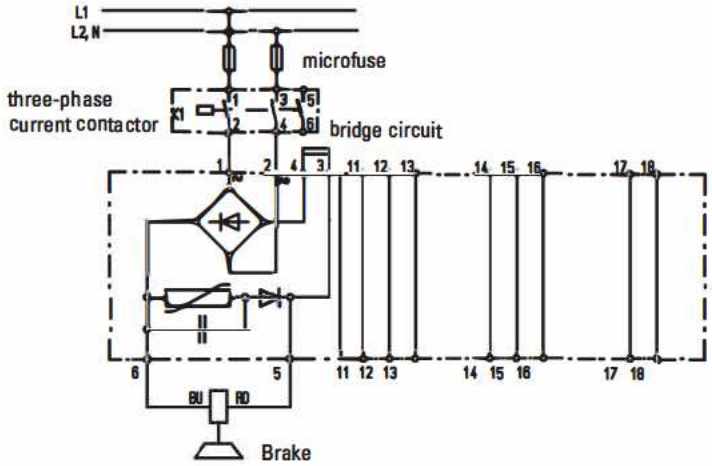
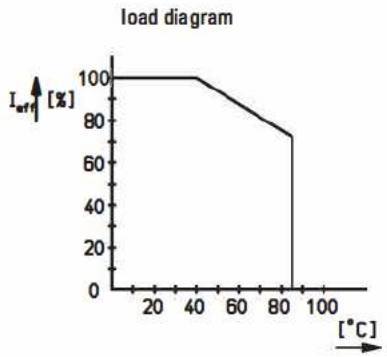
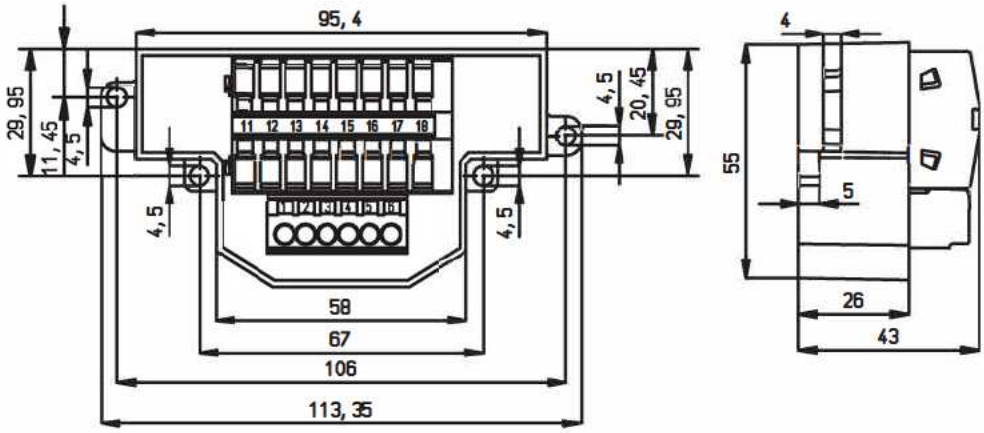
Rev. 10-10







Technical data

Coil voltage of the connected brake	DC 24V ... 390V
Max. voltage of supplying alternating current network	AC 460V - 50/60 Hz
Max. Output current I_{eff} at T_A = < 50°C	2,5 A
Max. Output current I_{eff} at max.T_A 85°C	1,8 A
Protection fuse in the AC input voltage line to the rectifier (In the selection of fuse is permissible on the I^2t limit load integral to eight)	FF 4A microfuse switching capacity H
Permitted limit integral I^2t	700A^2 s (t <10ms)
Max. energy absorbation of a shut-off	150 J
Max. continuous power of the internal protective circuit (average value)	3W
Shut-off peak at max. coil current	< 450V
Ambiente temperature T_A	-40° C ... +85° C
Permissible cross section of connection wire	0,2 ... 2,5 mm AWG 24 ... 14
Weight	0,3 kg
Protection class	IP 65 components seal / IP20 terminals
Mark of conformity	CE / RoHS conform

Full wave rectifier HWR-PE400/150/5

Principal circuit diagram

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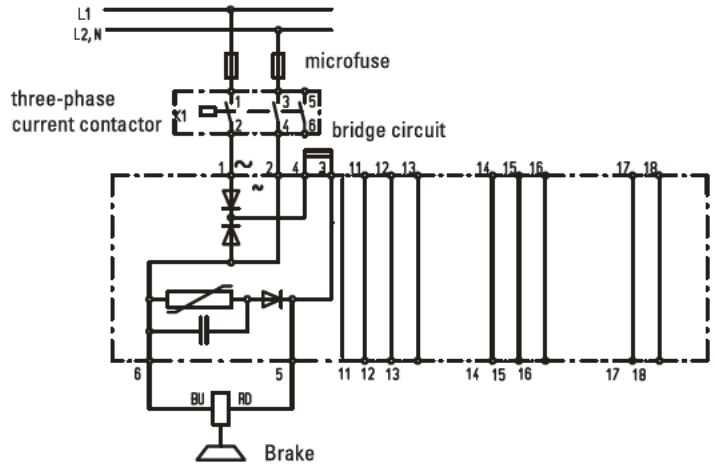
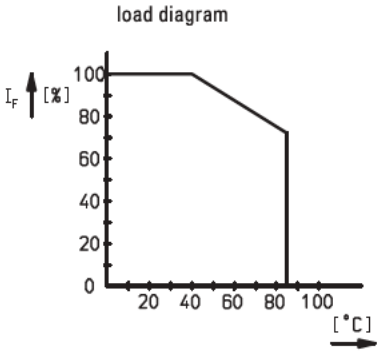
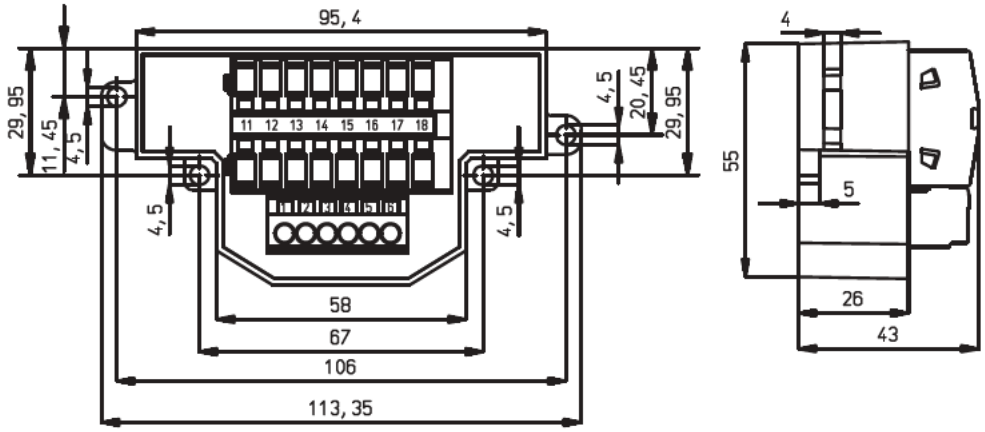
Rev. 10-10







Technical data

Coil voltage of the connected brake	DC 24V ... 240V
Max. voltage of supplying alternating current network	AC 550V - 50/60 Hz
Max. Output current I_{eff} at T_A = < 50°C	5 A
Max. Output current I_{eff} at max.T_A 85°C	3,6 A
Protection fuse in the AC input voltage line to the rectifier (In the selection of fuse is permissible on the I^2t limit load integral to eight)	FF 4A microfuse switching capacity H
Permitted limit integral I^2t	700A² s (t <10ms)
Max. energy absorbation of a shut-off	150 J
Max. continuous power of the internal protective circuit (average value)	5W
Shut-off peak at max. coil current	< 450V
Ambiente temperature T_A	-40° C ... +85° C
Permissible cross section of connection wire	0,2 ... 2,5 mm AWG 24 ... 14
Weight	0,3 kg
Protection class	IP 65 components seal / IP20 terminals
Mark of conformity	CE / RoHS conform

Switching rectifier SGL

Principal circuit diagram

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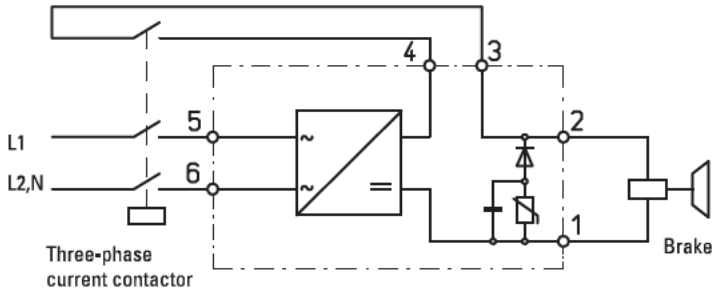
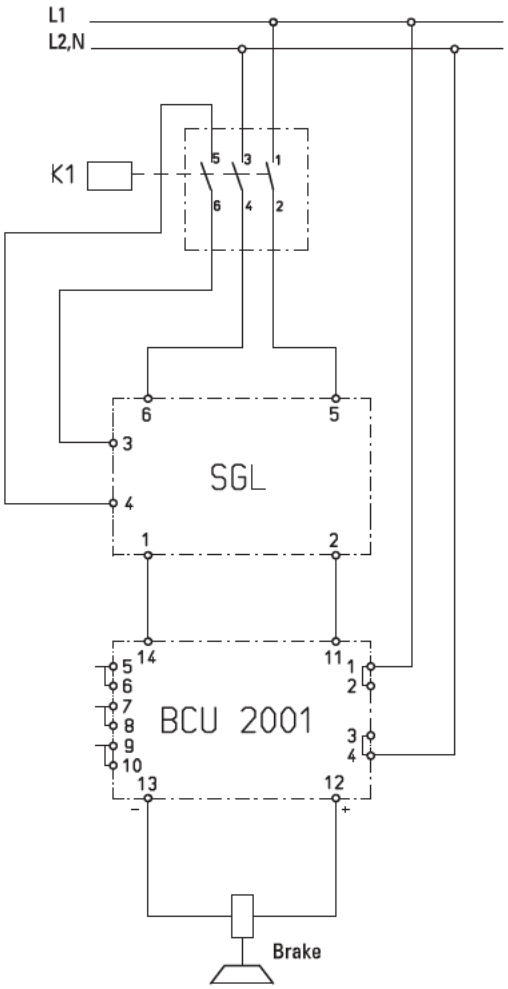


Switching rectification with module SGL



Switching rectification with module SGL combined with the Brake Control Unit BCU2001

Technical data

AC line voltage:	AC 220V….484V; 50/60 Hz
Maximum brake current for 2 s:	8A
Maximum continous output of the internal protective circuit:	5 W
Permanent brake current:	4A
Time settings by DIP switch:	0,5 s, 1 s, 1,5 s, 2,0 s
Ambient temperature:	-40° C … +50° C
Protection class:	IP 20

Protective element PE-400/150/5

Principal circuit diagram

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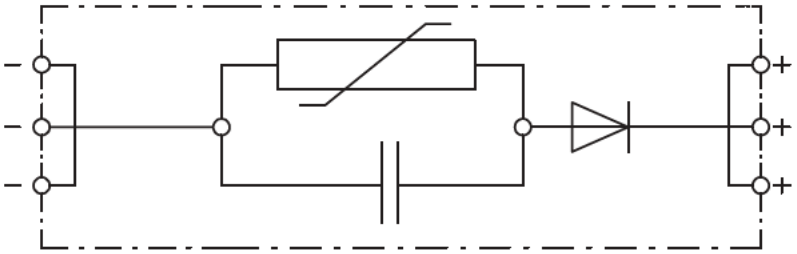
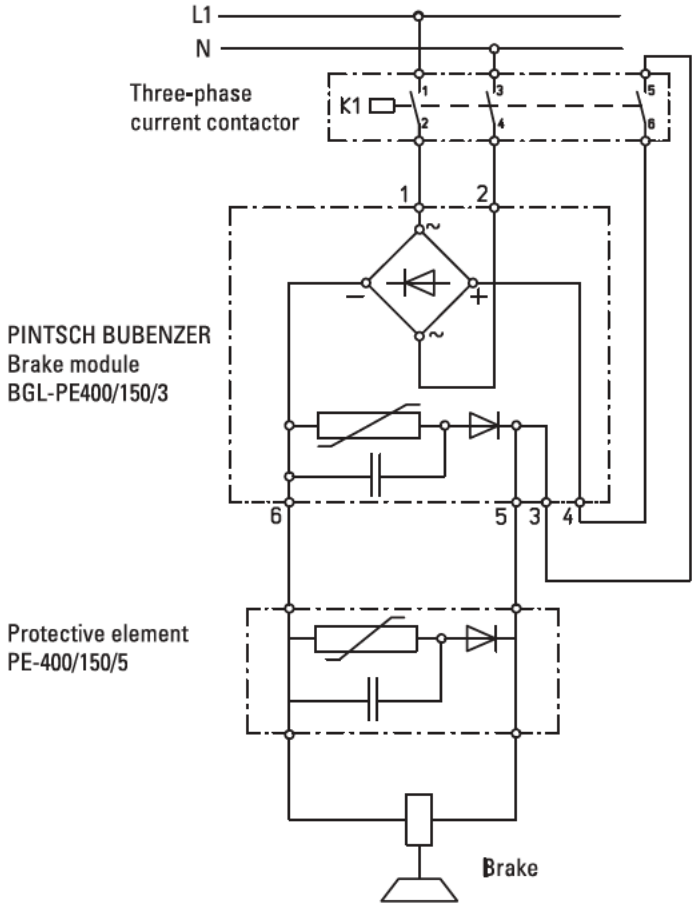


Protective element
PE-400/150/5



Bridge rectification with
module BGL combined
with the protective element
PE-400/150/5

Technical data

Maximum brake voltage:	DC 400V
Maximum brake current:	5A
Maximum continuous output of the internal protective circuit:	5W
Disconnection peak at maximum coil current:	≤ 450V
Ambient temperature:	-40° C … +50° C
Protection class:	IP 20