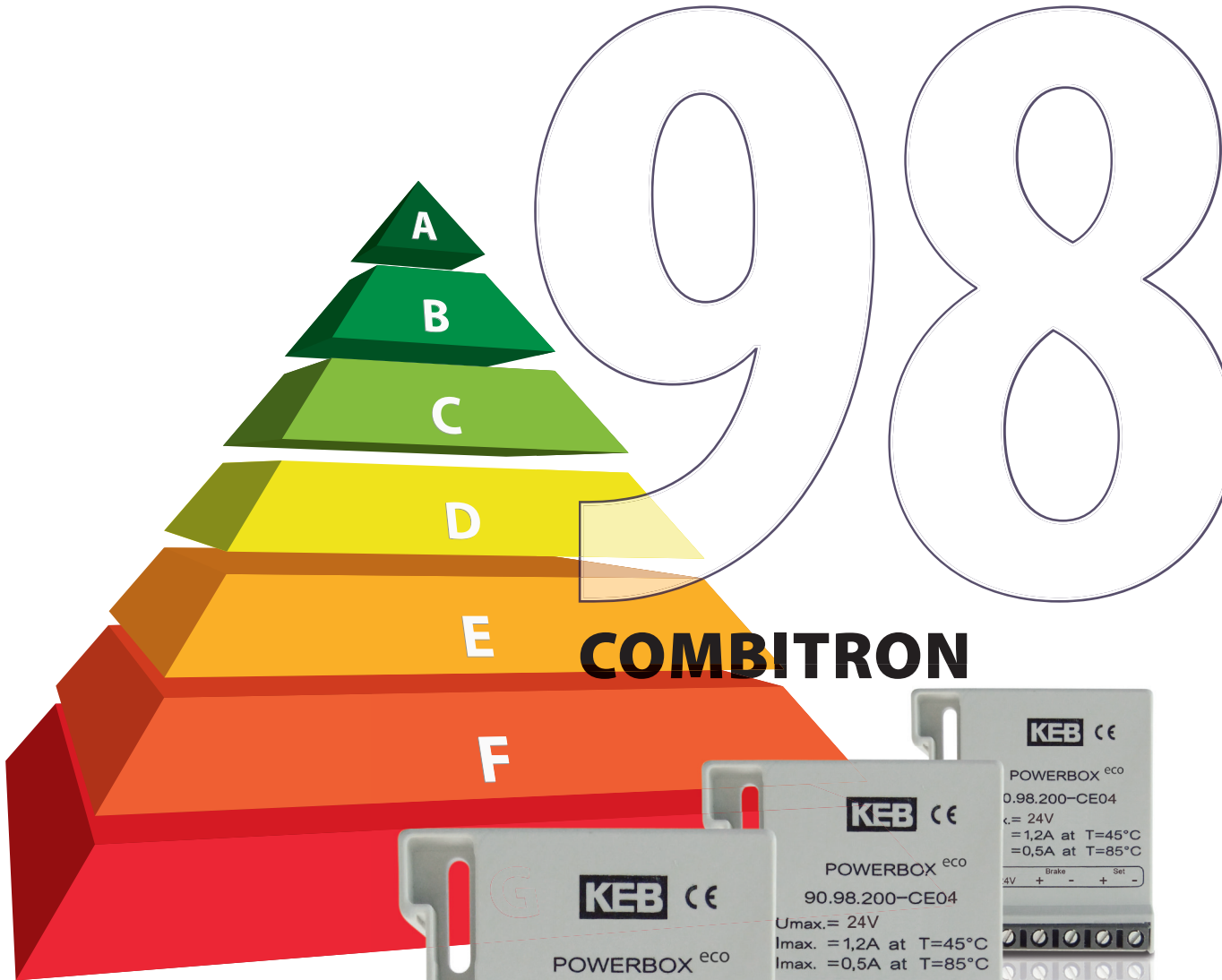


MADE
IN
GERMANY



COMBITRON



POWERBOX eco
pure energy saving





Electromagnetic holding brakes are continuous powered during operation and switched off in emergency situations.

Opening the brake requires a nominal voltage to generate a magnetic field that „works against“ a spring load or permanent magnet force.

As a result the electrical / thermal losses are connected to the nominal voltage.

The KEB POWERBOX sets down the release voltage to a smaller holding voltage after switch on time - resulting in a square time reduced power consumption.

Application: Spring applied brake, Permanent magnet brake



Advantage: Sufficient power to release the brake and then keep it in holding position with a minimum of energy.

Short time cost amortisation of Powerbox invest

Cost savings: without Powerbox 130 W; 24 h operation; 1 year
 => 1,138 kWh x 9 Cent = 102.42 €

with Powerbox 130 W down to 8 W
 => 70 kWh x 9 Cent = 6.31 €

Saving 96.11 € per year

COMBITRON 98 rapid-switching rectifiers with overexcitation for optimal turn-on and turn-off times of spring-applied brakes and electromagnets.

Two Powerbox versions with similar right housing to fit on DIN rail or bolt on version.

COMBITRON 90.98.200-CE09 UL - certification (No.: E.308765)

	90.98.200-CE04	90.98.200-CE09 ¹⁾
Input voltage	24 V DC $\pm 20\%$	180-300 V AC $\pm 0\%$
Overexcitation time	800 ms $\pm 15\%$	350 ms $\pm 10\%$
Cable length	max. 10 m to brake coil	max. 100 m to brake coil
Current I_N 45 °C	1.2 A continuous 7 A for 800 ms	1.2 A continuous 2.4 A for 350 ms
Current I_N 75 °C	0.6 A continuous 3.5 A for 800 ms	0.7 A continuous 1.4 A for 350 ms
Temperature	CCV -40° ... 75°	CCV -40° ... 75°
Switching rate	max. 6 per minute at max current	max. 1 per minute at max current
Side altitude above sea level	> 1,000 m - 1 % current reduction/m	> 1,000 m - 1 % current reduction/m
Wiring diagrams		

¹⁾ different values (U, A) when used under conditions of UL

