

DATA SHEET

MINATURE CIRCUIT BREAKER

The series 700 circuit breaker is of a single-pole, double-break construction with 'overload' sensing by a series bi-metal strip. Manual operation is by a single push-pull button on which the unit rating is boldly marked. Eight ratings are available between 5 and 50 amps. The breaker is trip-free at any overload value which will trip it normally, and no pull-out motion is required before resetting can be accomplished.

Despite its exceptionally small size, the series 700 circuit breaker is of extremely robust construction, the thermal latches being independent of the mechanical latches used for normal switching operations. The mechanical latches are of hardened steel, ensuring long life under manual operating conditions. Contact pressure is maintained by steel extension springs which do not carry current, the connection between contacts and thermal element being made by flexible conductors. The contacts are mounted on rockers which provide a contact wiping action, maintaining low resistance and self cleaning.

The unit is panel mounted, secured by a single nut. A locating tab prevents rotation. Electrical connections are made to terminal lugs using No. 6 UNC screws (supplied).

General design data is given on sheet 2, but it should be noted that the 20 to 50 amp breaker will only rupture 1000 amps in the standard form. For fault currents up to 3000 amps in this range, the 516 series part number is required. At maximum ambient temperature the minimum ultimate trip current of the circuit breakers is de-rated as follows :

5 amp rating	-60% rated current
7.5 to 50 amp rating	-70% rated current

Key Features

- Small size
- Eight ratings available between 5 and 50 amps
- Extremely robust construction
- Contact wiping action for self cleaning and continued low resistance
- Panel mounted

Specification

Environmental and Physical

Vibration	BSG 100 Grade 2
Acceleration	BSG 100 Grade 1
dc rupture capacity	3000 amps prospective current
ac rupture capacity	750 amps prospective current
Operating temperature range	-65 °C to +70 °C
Weight	45gm (1.58oz)
Life	10,000 operations
Length	43.5mm (1.71in)

Ordering Information

To order please quote Part Number from Table on Sheet 2.



Type 700

Data Sheet No
DSCB700-0305

Sheet 1 of 2

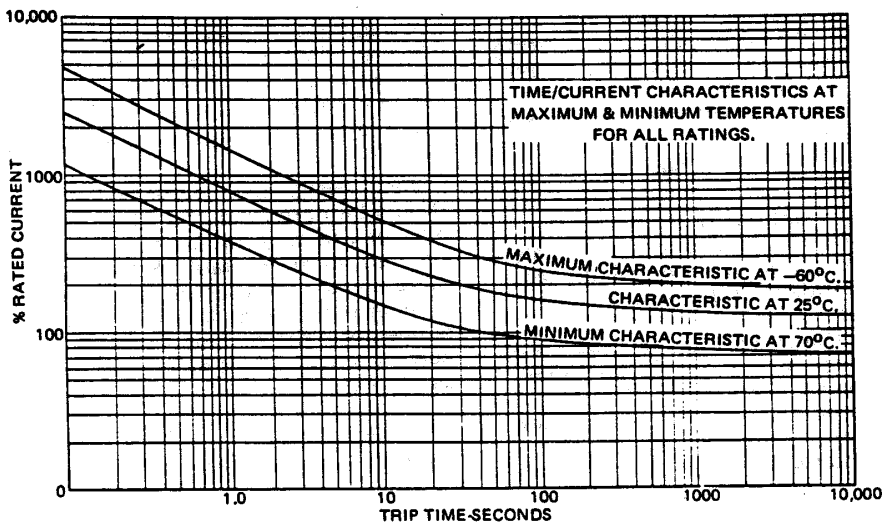
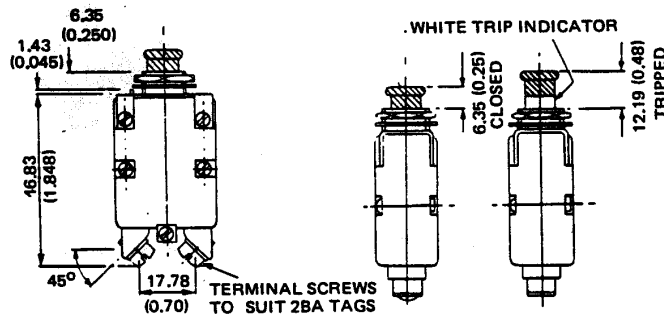
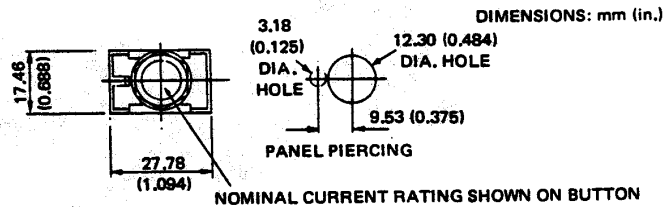
Design authority and manufacture by Barnbrook Systems Limited
Barnbrook Systems reserves the right to alter specifications and design without notice

DATA SHEET

MINATUE CIRCUIT BREAKER

Type 700

	Rating (Amps)	Part Number
1000 Amp Rupture	20	7CZ106664/20
	25	7CZ106664/25
	35	7CZ106664/35
	50	7CZ106664/50
3000 Amp Rupture	5	7CZ106664/5
	7.5	7CZ106664/7
	10	7CZ106664/10
	15	7CZ106664/15
	20	516-1-80000-020
	25	516-1-80000-025
	35	516-1-80000-035
	50	516-1-80000-050



Data Sheet No
DSCB700-0305

Sheet 2 of 2

Design authority and manufacture by Barnbrook Systems Limited
Barnbrook Systems reserves the right to alter specifications and design without notice