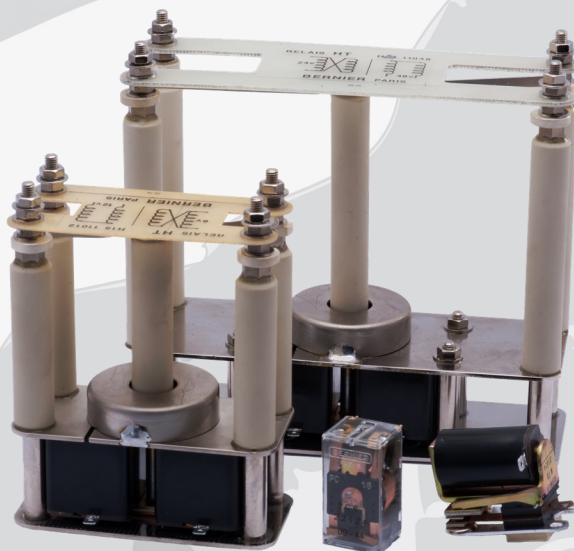




Relays

H • PC16 • MTD



... The right solution for the command of
Electrical/Power systems !

Catalog



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◆ Description

H relays : Thanks to a large contact gap and a double break, the H relays can commute high voltages. The silicone coated steatite insulators ensure excellent insulation. The only difference between types H10 and H15 is their dielectric in relation to the ground. The H20 relay is based on the same design but has a larger contact gap and a very large contact – ground dielectric, in conformity with the VDE standard (Insulation distance $\geq 70\text{mm}$) These relays can be submerged in oil.

PC16 relays : they are weldable on printed circuit, dust proof protected, used in telecontrol, metering circuit, auxiliary automation control.

MTD relays : Despite its compactness, this relay has a strong breaking capacity and is used for energy, safety power, commutation, etc. CENT approved (List LNZ 44.04)

Industrial applications

Command reliability

High security level

Durability

◆ Applications



Energy



Industry



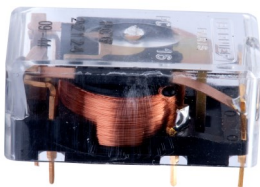
Railroads

◆ H Relays



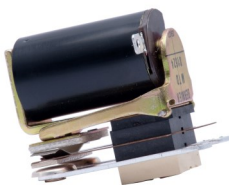
Coil	H10	H15	H20
6 – 12 V=	H10 11012	H15 11012	H20 11012
24 – 48 V=	H10 11048	H15 11048	H20 11048
110 – 220 V =	H10 11022	H15 11022	H20 11022
16 -32 V=	H10 90001	H15 90001	H20 90001

◆ PC16 Relays



Part numbers	Old part numbers
PC16 2RT 6V Ag Pd	PC 6 22106
PC16 2RT 12V Ag Pd	PC 6 22112
PC16 2RT 24V Ag Pd	PC 6 22124
PC16 2RT 48V Ag Pd	PC 6 22148
PC16 2RT 110V Ag Pd	PC 6 22111

◆ MTD Relays



Part numbers	Old part numbers
MTD 30A 6VCC	MTD 01 306
MTD 30A 12VCC	MTD 01 312
MTD 30A 24VCC	MTD 01 324
MTD 30A 48VCC	MTD 01 348
MTD 30A 110VCC	MTD 01 311
MTD 60A 6VCC	MTD 01 606
MTD 60A 12VCC	MTD 01 612
MTD 60A 24VCC	MTD 01 624
MTD 60A 48VCC	MTD 01 648
MTD 60A 110VCC	MTD 01 611
MTD 20A 48 V= RIND 001	MTD 90 001
MTD 30A 6-12 V=	MTD 01 912
MTD 30A 12-24 V=	MTD 01 924

◆ H Relays

Features :

Weight :
 H10 : 415g
 H15 : 470g
 H20 : 610g
 Coil supply : D.C.
 Contacts : 1 ON -1 OFF double break
 Material : Hard Ag over brass

Operation :

Breaking capacity :
 H10 – H15 : 200V= or 10 000 V~
 H20 : 250 V= or 16 000 V~
 Max. Resistive : Load of 0.2 A – Passing through 2A
 Max. Inductive : 0.1A
 Response time :
 Connection : 30ms
 Release : 65ms Max
 Life-span using indicated load : 200 000 operations mini

Electrical characteristics :

Contact resistance : Initiale \leq 100m Ω
 Dielectric strength :

Dielectric strength	H10	H15	H20
Contact / contact	20 000 Veff.	20 000 Veff.	33 000 Veff.
Contact / Ground	16 000 Veff.	30 000 Veff.	40 000 Veff.
Coil / Ground	1 000 Veff.	10000 Veff.	1 000 Veff.

Insulance :

(20°C – 50% relative humidity \geq 10 000M Ω at 500 V
 Coil characteristics : See table

Conditions of use :

Utilization temperature : -25°C +85°C
 Mechanical class : 2-2 (NF C 45 255)
 Branches : \varnothing M 4 screw

◆ PC16 Relays

Features :

Weight : 23gr
 Coil supply : D.C.
 Contacts : 2 inversors
 Material : AgPd

Operation :

Breaking capacity : 30 V= or 125 V~
 Max. Resistive : 2A
 Max. Inductive : 1A Max.
 Power : 30W= 80VA
 Response time :
 Connection : 7ms
 Release : 17ms
 Max Life-span using indicated load : 500 000 operations mini
 Mechanical life-span : 15 000 000 operations mini

Electrical characteristics :

Contact Resistance : \leq 100m Ω
 Dielectric strength :
 Contact / Contact : 1 000Veff.
 Contact / Ground : 2 000 Veff.
 Coil / Ground : 1 000 Veff.

Insulance :

(20°C – 50% relative humidity) \geq 1 000M Ω at 500 V
 Coil characteristics : See table

Conditions of use :

Utilization temperature : -25°C +70°C
 Mechanical class : 2-2 (NF C 45 255)
 Welding on printed circuit : soldering iron

◆ MTD Relays

Features :

Weight : 65gr
 Coil supply : D.C.
 Contacts : 1 On double break
 Material :
 30A : Ag
 60A : AgCdo

Operation :

Breaking capacity : 30 V= or 125 V~

Max. Resistive	30 A	60 A
Max. Inductive	12 A	24 A
Max. Power :	300W= 1 000 VA~	400W= 1 200 A~

Response time :

Connection : 15ms
 Release : 2ms
 Life-span using indicated load : 100 000 operations mini
 Mechanical life-span : 2 500 000 operations mini

Electrical characteristics :

Contact Resistance : \leq 50m Ω
 Dielectric strength
 Contact / Contact : \geq 1 500Veff.
 Contact / Ground : \geq 1 000 Veff.
 Coil / Ground : \geq 1 000 Veff.

Insulance :

(20°C – 50% relative humidity) \geq 1 000M Ω at 500 V=
 Coil characteristics : See table

Conditions of use :

Utilization temperature : -55°C +85°C
 Mechanical class : 2-2 (NF C 45 255)
 Branches : Soldering ring

◆ H Relays

Indicated load	Min. / Max. Load -20°C		Parallel / In series	Unit R in Ω - 20°C
6 ou 12 V =	4.2 / 8.5 V	8.3 / 16.8 V	6 Ω / 24 Ω	12 Ω \pm 10%
16 ou 32 V =	11.2 / 22.4 V	22.4 / 45 V	42.5 Ω / 170	85 Ω \pm 10%
24 ou 48 V =	17 / 34 V	32.8 / 67 V	95 Ω / 380 Ω	190 Ω \pm 10%
110 ou 220 V =	77 / 154 V	165 / 308 V	2400 Ω / 9600 Ω	4800 Ω \pm 15%

Indicated excitation power : 6W approximately

As these relays are equipped with 2 coils, they can be wired in parallel or in series, thus providing 2 excitation voltage per relay : 6 or 12 VDC, 16 or 32 VDC, 24 or 48 VDC, 110 or 220 VDC.

◆ PC16 Relays

Indicated load	Min. / Max. Load -20°C	R in Ohms -20 °C
6 V =	4.2 / 8.5 V	56 Ω \pm 10%
12 V =	8.3 / 16.8 V	193 Ω \pm 10%
24 V =	17 / 34 V	895 Ω \pm 10%
48 V =	32.8 / 67 V	4150 Ω \pm 15%
110 V =	77 / 154 V	14 550 Ω \pm 15%

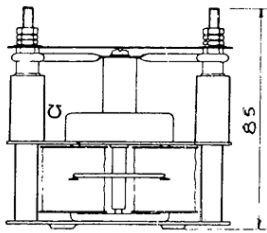
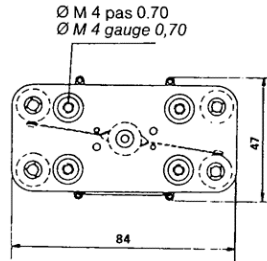
Indicated excitation power : 0.7 W approximately

◆ MTD Relays

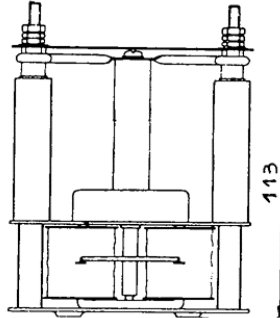
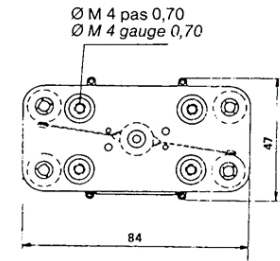
Indicated load	Min./Max. Load 20°C	R in Ω 20°C
6 V =	4.2 / 8.5 V	15 Ω \pm 10%
12 V =	8.3 / 16.8 V	62 Ω \pm 10%
24 V =	17 / 34 V	1235 Ω \pm 15%
110 V =	77 / 154 V	5600 Ω \pm 15%

Indicated excitation power : 2 W approximately

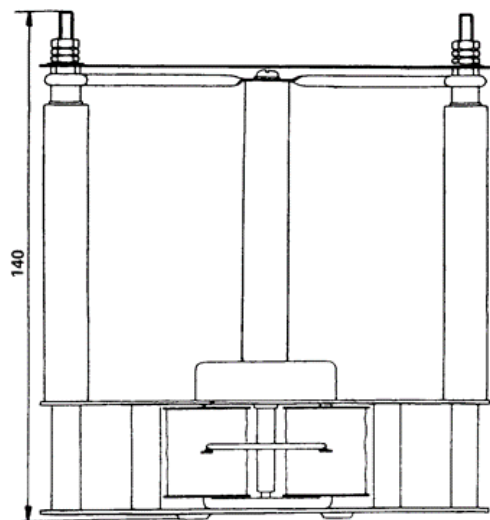
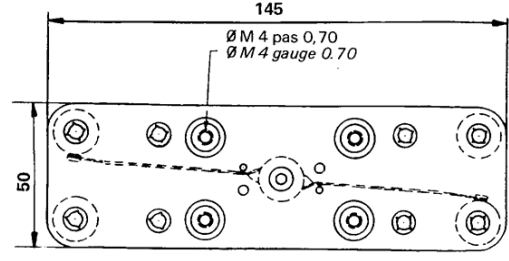
◆ H Relays



H10

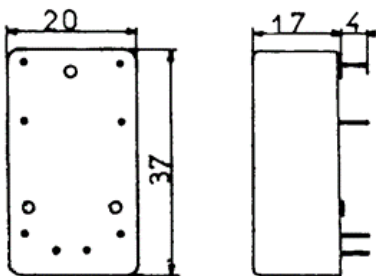


H15

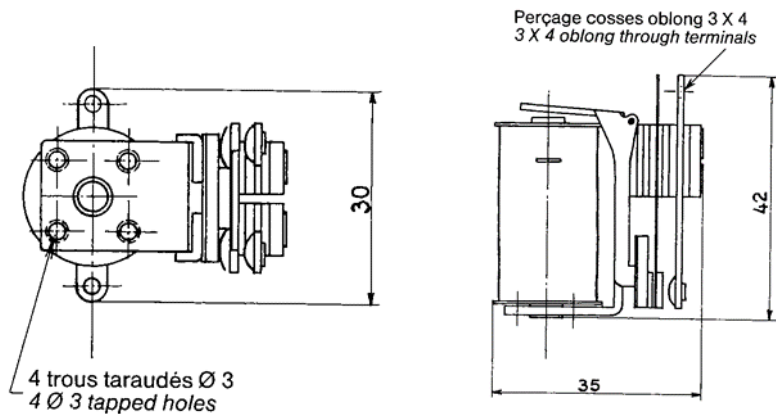


H20

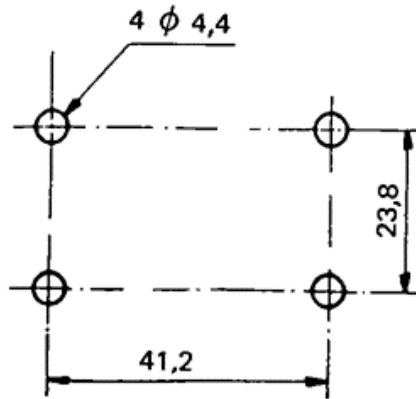
◆ PC16 Relays



◆ MTD Relays

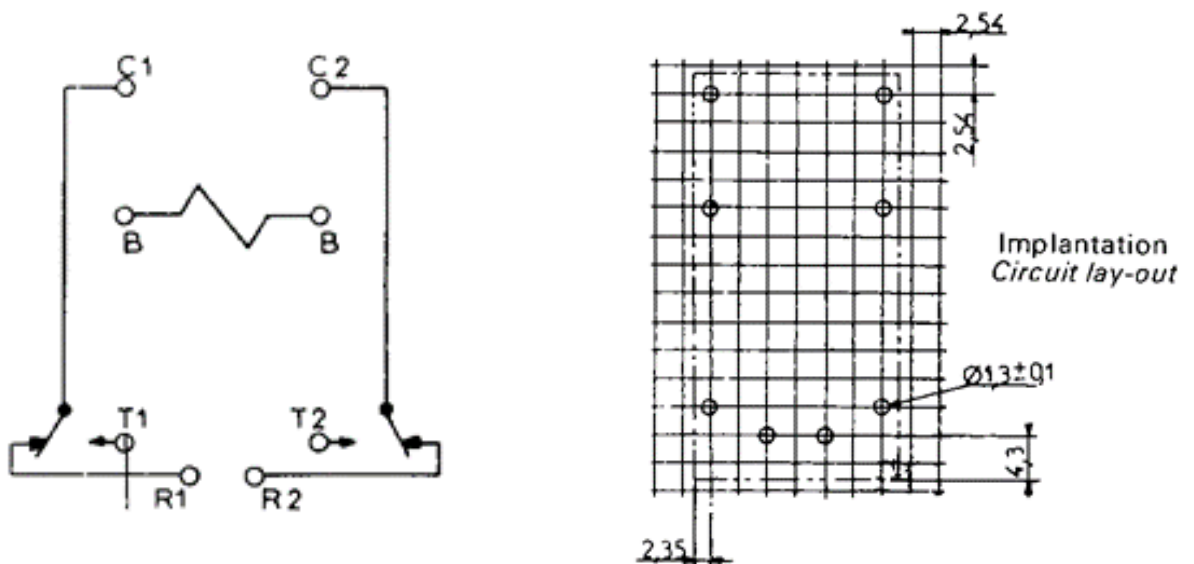


◆ H Relays

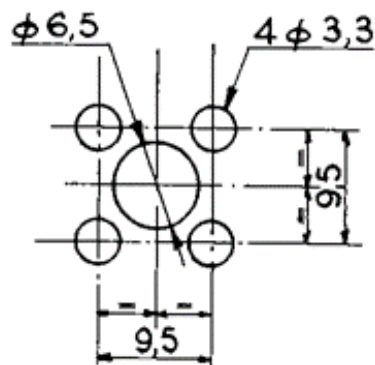


Max. fastening screw length =
panel thickness + 3mm

◆ PC16 Relays



◆ MTD Relays



Max. fastening screw length =
panel thickness + 3mm

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