

This relay is an association of two ones: a solid state relay for softstarting during 6 seconds , and an electromechanical one for operating time.

So, the advantages of these two types of relay are added.

-The phase control and the zero current turn off for solid state relay .

-A smaller power dissipation for electromechanical relay.

Electrical characteristics (Tamb 25°C):

Input

ON voltage : 10 to 30 VDC

OFF voltage : 0 to 4 VDC

Input resistance :3,3 K Ω

Softstarting time :6 to 8 s

Electromechanical relay

Coil :Supply voltage =19,2 to 28,8VDC

Coil resistance = 380 Ω

Contact :Max. current =30A

Power

-with 24VDC :Voltage =110 to 240VAC

:max. continuous current =15A

-without 24VDC :Output OFF

Fréquency 50Hz

Over voltage protection by varistors

dv/dt protection by RC (100 Ω +22nF)

Triac

No repetitive current :

Itsm : 250A (10ms)

I²t : 312A²s

Isolation

Input/power : 3000VRMS

Coil/power : 1500VRMS

Thermal characteristics

Storage temperature :-40 à +100°C

Operating temperature :-40 à +85°C

Triac junction temperature :-40 à +125°C

Thermal Resistances

-junction/case :13°C/w

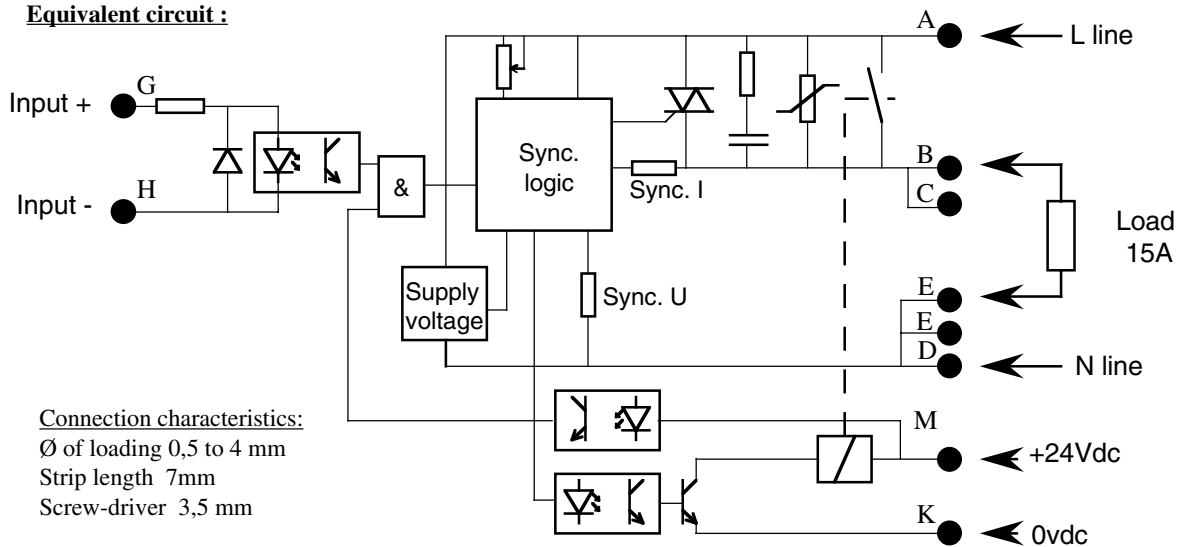
-case/ambient :6°C/w

Thermal constant :10s

Connections :

BORNE	DESIGNATION
A	L LINE
B	L LOAD 1
C	L LOAD 2
D	N LINE
E	N LOAD 1
F	N LOAD 2
G	INPUT +
H	INPUT -
J	N. C.
K	0V COIL SUPPLY
L	N. C.
M	+24VDC COIL SUPPLY

Equivalent circuit :



Connection characteristics:

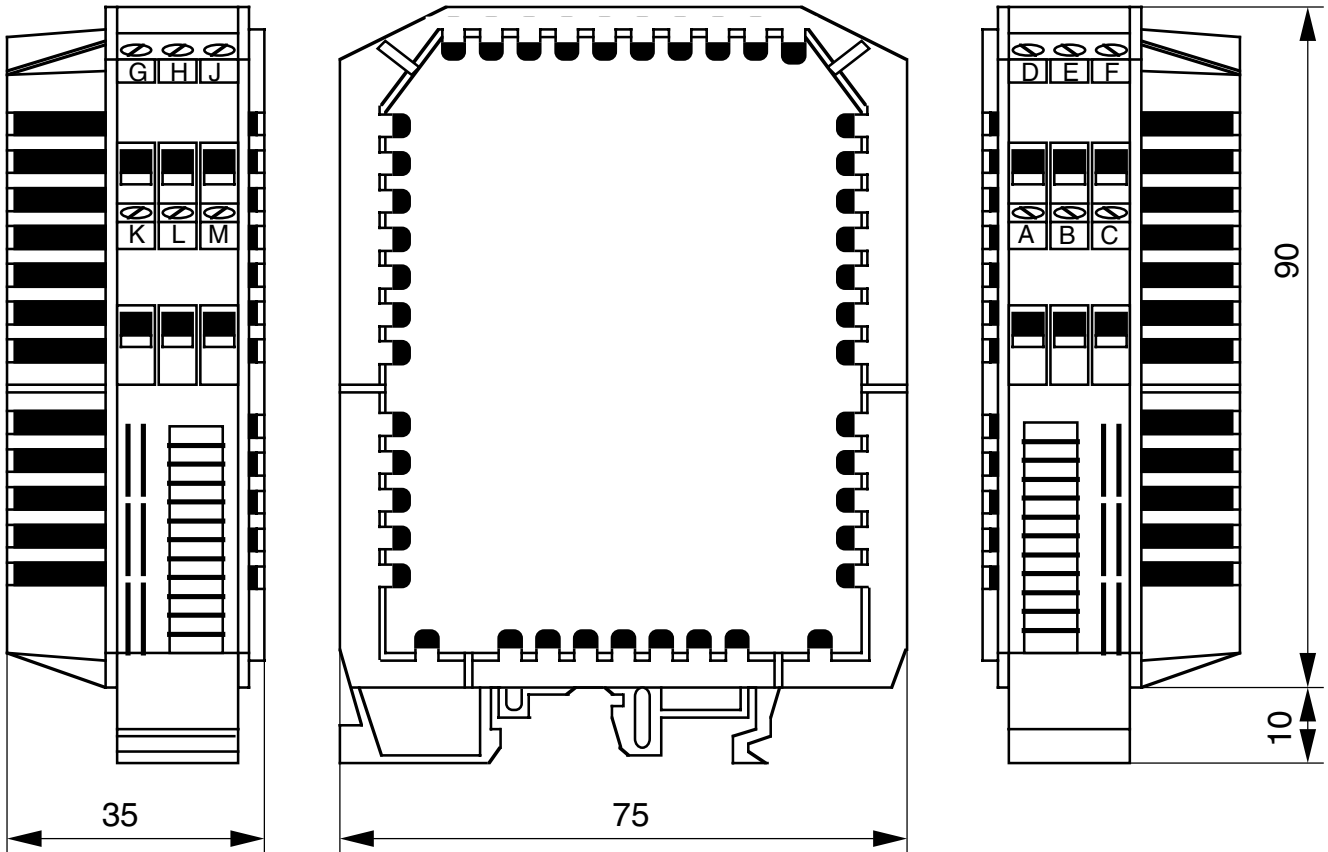
Ø of loading 0,5 to 4 mm

Strip length 7mm

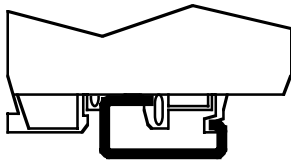
Screw-driver 3,5 mm

Dimensions :(Ech. 1)

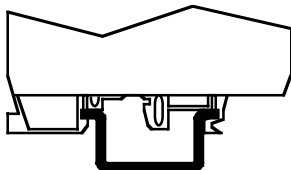
Weight : 130g



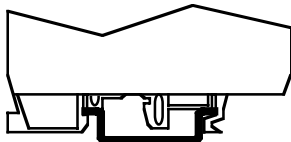
Mounting on profiles:(Ech. 0,5)



Profile EN50035



Profile EN50022 35x15

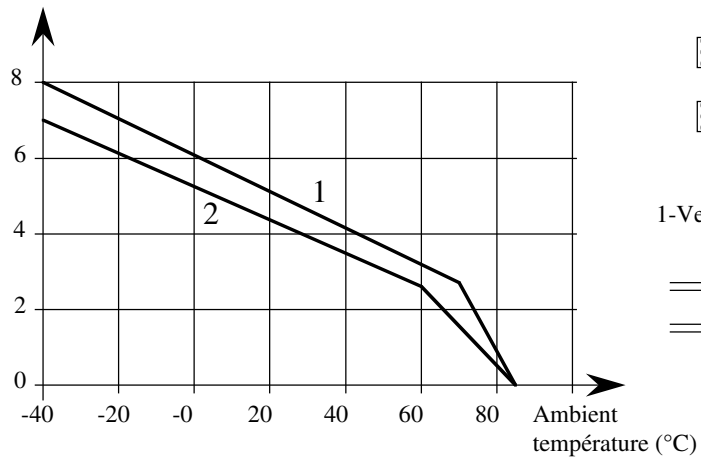


Profile EN50022 35x7,5

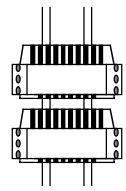
Thermal curve :

Number of softstart by min./ Ambient temperature .
(With +24VDC for coil supply and I load =15A).

Nb of softstart /min



2-Horizontal mounting



1-Vertical mounting

