Circuit diagram:

$$A+C$$
$$C$$
$$(A+C)\bar{B}A$$
$$B$$
$$\bar{B}A$$
$$A$$
$$B$$
$$BD$$
$$Y=(A+C)\bar{B}A+BD+\bar{A}$$
$$D$$
$$A$$
$$\bar{A}$$

$$y = \left(A+C\right)\bar{B}A + BD + \bar{A}$$

$$y = A\bar{B} + A\bar{B}C + BD + \bar{A}$$

$$y = A\bar{B}\left(1 + C\right) + BD + \bar{A}$$

$$y = A\bar{B} + BD + \bar{A}$$

FORMA CANONICA S.P.

f di commutazione è scritta in

MINTERMINI

A	B	C	D	y
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	1

$$\} A\bar{B}$$

$$A = 1$$
$$B = 0$$

$$A\bar{B} -$$
$$- BD$$