上海贝岭股份有限公司
SHANGHAI BELLING CO.,LTD.

FEATURES;

*High Accuracy,Less than 0.3% Error over a Dynamic Range of 200 to 1.

*Well Reliability .Supplies both Fast (FP)and Low Pulse Output(SP1,SP2),FP used to Computer Data Processing and SP1,SP2 used to Drive Electrical Motor.

*Operation at 5v,low power dissipation(50mw typical)

*Fine Dependability, able to Working More Than 20 Years.

SYSTEM BLOCK DIAGRAM AND PACKING DIAGRAM:

1 IP1	22 IV1
2 IN1	21 IV2
3 IP2	20 IV3
4 IN2	19 GND
5 IP3	18 VDD
6 IN3	17 XTZ
7 Vref1	16 XT
8 Vref2	15 SP2
9 FP	14 SP1
10 MS	13 VSS
11 DFP	12 FT
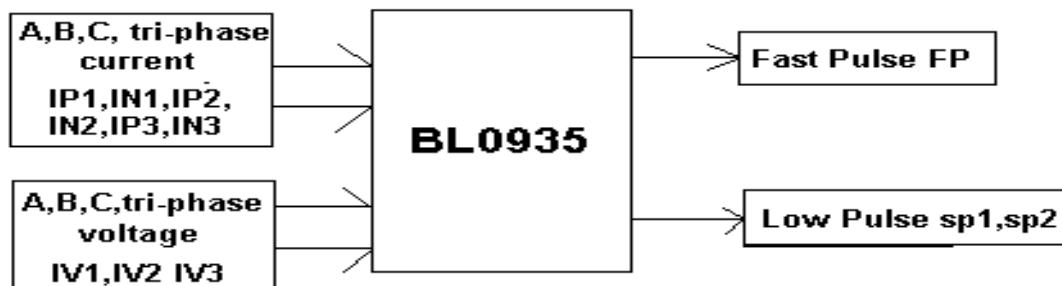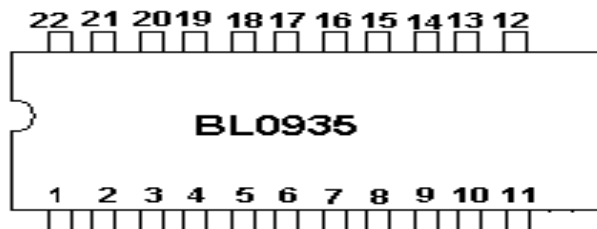
FUNCTION DESCRIPTION:

BL0935 is designed to compute the active power and electrical energy of trio-Phase(including the dual-phase and single-phase).It provides a pulse output proportional to the sum of trio-phase active power as well as pulse used to drive dual-phase stepper motor .The influence of various phase power should be counted in when computing the power dissipation and electrical energy.Consumption of energy is determined by the power measurement being integrated over timeless than 0.3% Error over a Dynamic Range of 200:1.

Trio-phase power computation : $P=Ga* Iv1*Ii1 + Gb* Iv2*Ii2+ Gc *Iv3*Ii3$

Where: Iv1,Iv2,Iv3:the sampling value of tri-phase voltage

Ii1,Ii2,Ii3:the sampling value of tri-phase current

Ga,Gb,Gc:the gain of the trio-phase power multiplier

FP: frequency of output pulse : $Ffp = k*p/3*Ir2$

Where: Ir: reference current

K: constant of frequency conversion