

Autonomous Power-Supply Switch-over Unit, Load Management and optional Solar charge controller (12V/24V-System)

Distribution house



L1 L2 L3 N

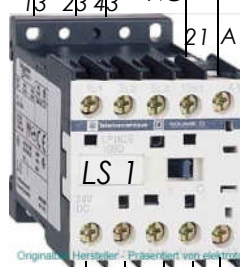
1/3-phase kWh-counter with S0-counter Output to terminal 84+ and 86 of Metamorphosis; Shielded cable, Shield on 86

13 23 43

Fridge/ freezer
washing machine / dishwasher
best switched by Timer
Fridge: 11:00-4:00
Freezer: 11:01-4:00
washing machine: 11:00-13:00
dishwasher : 13:01-15:00
Pump with Pressure-Tank 12:00-12:30

Grid on

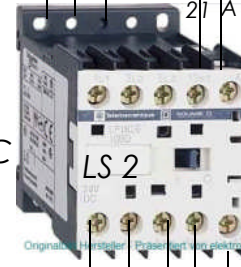
Coil-voltage 24V
3 Switch NO
1 Switch NC
> 4 KW



LS2 / Ls1
on by NC
Contact

Battery-Power on

Coil-voltage 24V
3 Switch NO
1 Switch NC
3 KW
L-Switch 2 on if
L-Switch 1 off
(interlocked)



Input L1 L2 L3
from Grid



L2 on
2 Minus
N
L1 on
32

3 Phase on 1 Phase
optional several Inverter



100 mF condensor
parallel to battery
for reject ripple-current



Batteries 12V/24V

Switch on by
Metamorphosis
Contact 8 + N
Bridge for 220V 32+12

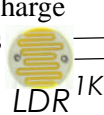


Charging by Mains



Optional Solar-Panel

Light-Sensor only
if Batt. Charge
by Mains



74
73
86
LDR 1K

Solar +
Solar -

Voltage 24 V
Mains for
Feedback
and Switch Ls



10K
63 31 64 3
+ 100K
Note! Terminal 63 and 64
with 100 K Resistor in Line



Voltage 24 V
Inverter Output
for Feedback
and Switch Ls2

L from Inverter

Minus
+

10K