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PG/ATSC/V1/0820



ATS Controller C40 | M40

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1. FEATURES

- Intelligent Micro-processor automatic transfer switch controller.
- Configurable timer for generator start, transfer delay, restore delay and generator cooling time.
- Programmable 1phase/3phase healthy selection for primary source.
- Reliable and field proven mechanism can provide you under voltage and overvoltage protection for your power sources.
- Monitor and displays VLL, VLN and Hz for Source I & Source II (C40).
- Monitor and displays A, KVA and KVAh for Source I & Source II (M40).
- RS485 and addon TC-IP Ethernet Gateway.
- Digital input relay for fire alarm or other inputs of standby generator.
- Optional built in AC Power Supply of 80-300 V AC taken from R Phase.

3.3 Clear Mode :

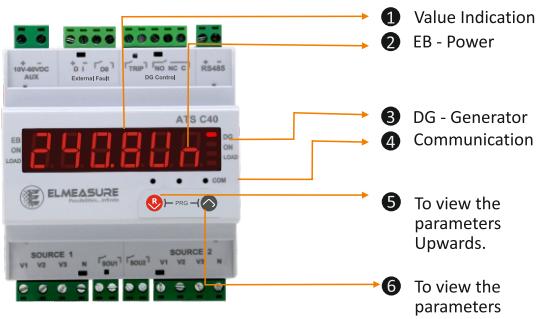
Press Up key	Display shows CLR.n. (with 'n' blinking) press Down key to change the options to 'Y' or 'n'.	Option : (YES)/(NO) 'Y' (for clearing) 'n' (for not clearing)
Press Up key	Displays xxxx (Clear Mode ends here)	

3.4 Display

Programming Parameter	Default	Option/Range
VA selection (UA) (vector harmonics)	UECHUR	Vector Harmonic / Vector/Arithmatic
Baud rate (bA)	9600bA	2400 to 19.2k
Parity (Pr)	UEEn.Pr	Even/ no/ Odd
Device Id (dU.)	1000dU	1.000 to 247.0
Password (PW)	-----PU	1000 to 9999



2. KEY & LED INDICATION



Energy (EN)	COUNER	(rESL / COUN)
Energy Selection(ES)	Wh E.S	Wh/VAh
EB/DG Under voltage(VL)	18000UL	180V to 210V
EB/DG Over voltage(VH)	26000UH	240V to 270V
DG max current limit(dA)	40000A.2	40A Default (Field programmable)
EB max current limit(EA)	40000A.1	40A Default (Field programmable)
Current Unbalance	50000AU	10 to 90%
Generator start	EnBLG.E	enable/disable
Generator start time	10000E.E	3 to 9999
Transfer delay	5000E.d	3 to 250sec
cooling time	3000E.C.E	3 to 600sec
Restore delay	5000r.d	1 to 150sec



3. PROGRAMMING MODE

3.1 Programming Keys	 To select / Edit & save Value	 To decrement value
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3.2 Setup Procedure

Press  Up +  Down to enter setup mode .
Enter Password (default 1000) blinking of digit indicates Edit is possible.
Press  Down to decrement value from 9 to 1.
Press  Up to move to the next digit till 4th digit .
If Password is correct, editing is possible.
Enters into Setup mode and meter display's VA Selection
Press  Down to view and press  Up to edit the parameter.
Press  Down to decrement values or to select from available options.
Press  Up to save the value of the parameter.
Press  Down to edit next till end of last parameter and parameter display screen will prompt **SAUE** display reads **Y**(YES).
Press  Down to change to **n** (NO).
Press  Up to save.

Source parity	5rC.15P	S1/S2*
C1 Cycle time (C1)	7.000E.1	6 to 150Sec*
C2 Cycle time (C2)	15.00E.2	6 to 150Sec*
C3 Cycle time (C3)	30.00E.3	6 to 150Sec*
C4 Cycle time (C4)	60.00E.4	6 to 150Sec*
No. of ON/OFF cycles	5.000E.L	5 to 10 Cycles
DG Phase Selection	3Ph 52	3.ph/1.ph DG
Delay Time	ALL.3.dE	0 to 180sec
EB Phase Selection	ALL.1.51	ALL.3./Any.1

Note: *Parameters are for C40 model only.

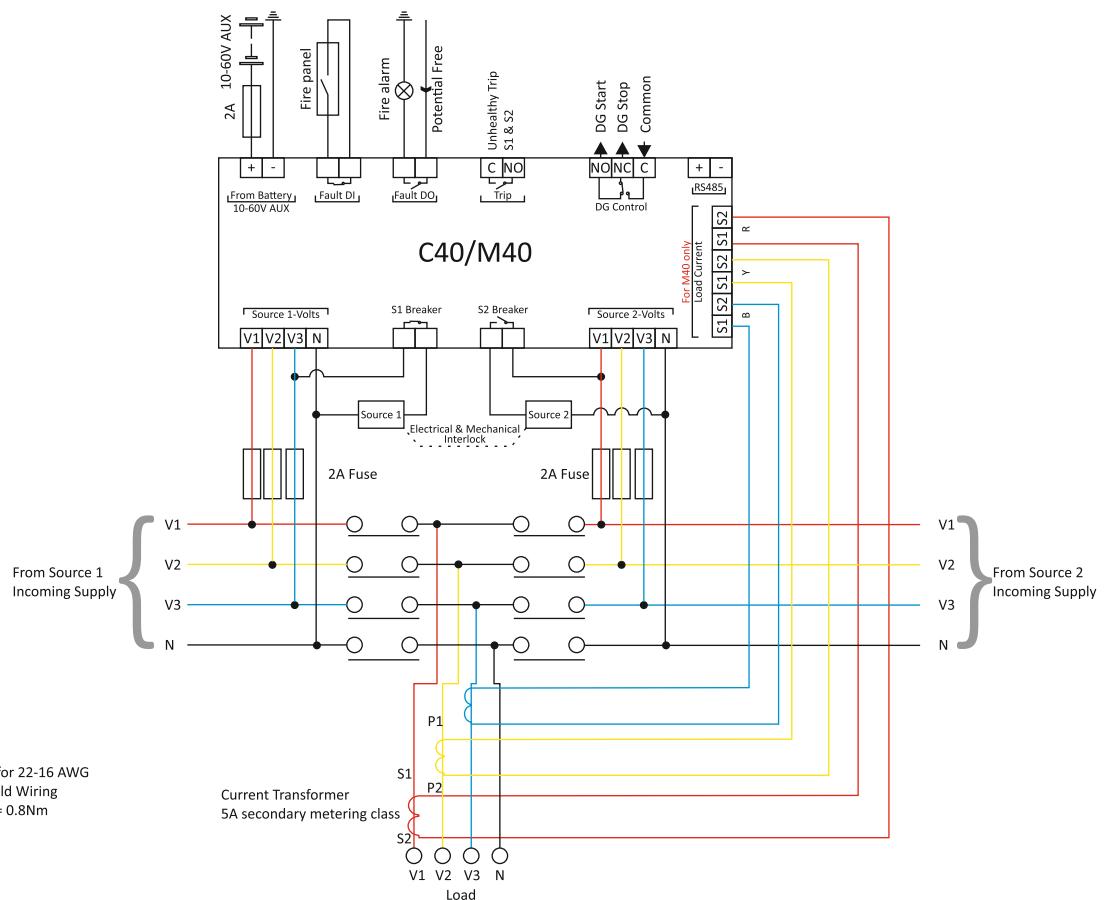
3.4 Enabling and Disabling Auto Scrolling

Press  Down for 5 Secs. Display shows : **EnBL.Ru** Again press any key to disable. Display shows : **d56L.Ru**

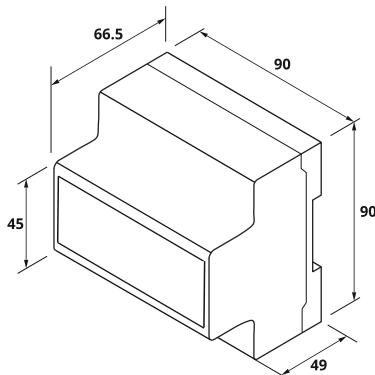


4. TYPICAL WIRING DIAGRAM

ATS Controller C40/M40 Typical Circuit Diagram for ATS Motorized/ Contactor Based/2 Position Solenoid



5. MECHANICAL SPECIFICATION:



INFORMATION

Manufacturer assumes no responsibility for a hazard or damage caused by incorrect or non-application of any of the instructions mentioned herein. ELMASURE shall not be liable for any consequential or resulting injury or for loss, damage or expense directly or indirectly from the use of this product under any circumstances.

ELMASURE does not claim any responsibility for the damage caused by using the product directly or indirectly as sufficient care has been taken to provide all information regarding the product. The user is advised to use according to the operating instructions, professional practices, wiring rules, codes, safety regulations applicable to the given installation.



CAUTION

During normal operation of this instrument, hazardous voltages are present at the rear terminals, which may cause injury or death. Installation, disconnection or removal of the meter should be carried out only by qualified, trained personnel, after de-energizing connected circuit. The warranty will become void in case the seal is broken, improper installation as well as improper grounding.