

TWOMASTER



TWOMASTER PRO SERIES
40A-630A

TWOMASTER PRO S SERIES

40-630A

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Advantages

- 3 or 4 Pole Automatic Transfer Switch
- **Load Category is AC33-B**
- Automatic Transfer with Voltage Sensing (Three Phase)
- LCD Screen
- Adjustable delay time before transfer
- Phase Sequence Sensing
- Voltage Lower/Upper Limit
- Frequency Lower/Upper Limit
- Source Priority Selection
- Integrated Auxiliary Contacts (Output 220VAC)
- Generator Start/Stop (adjustable delay time)
- Integrated Dual Power Supply
- Integrated Bridging Bars
- Fire Alarm Input, (Dry contact)
- Mechanical Position Indicator
- LED Position Indicator
- LED Power Indicator
- Wide Voltage Range
- Easy integration

*These settings can be made on the LCD screen.

The solution for

- Main/Genset, Main/Main, Genset/Genset applications
- High Building
- Hospital
- Industrial Facilities
- Bank Office
- Telecommunications
- School
- Public Buildings

Compliance with standards

- IEC 60947-1
- IEC 60947-3
- IEC 60947-6-1:2023
- IEC 55014-1 : 2021
- IEC 55014-2 : 2021
- IEC 61000-3-2 : 2019 + A1 : 2021
- EN 61000-3-3 : 2013 + A2 :2021

Approvals and certification

ICR Polska Co., Ltd. POLAND



Product Code

TWOMASTER Pro S Series Automatic Transfer Switches							
Rating (A)	Product Code	No. of poles	Manual Handle	Auxiliary contact	Bridging bars	LCD Screen	Control module
40	13343004	3 Pole	mounted	mounted	mounted	mounted 13230001	13340002 mounted
	13344004	4 Pole					
63	13343006	3 Pole					
	13344006	4 Pole					
80	13343008	3 Pole					
	13344008	4 Pole					
100	13343010	3 Pole					
	13344010	4 Pole					
125	13343012	3 Pole					
	13344012	4 Pole					
160	13343016	3 Pole					
	13344016	4 Pole					
200	13343020	3 Pole					
	13344020	4 Pole					
250	13343025	3 Pole					
	13344025	4 Pole					
315	13343031	3 Pole					
	13344031	4 Pole					
400	13343040	3 Pole					
	13344040	4 Pole					
500	13343050	3 Pole					
	13344050	4 Pole					
630	13343063	3 Pole					
	13344063	4 Pole					

TWOMASTER PRO E SERIES

40-630A

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Advantages

- 3 or 4 Pole Automatic Transfer Switch
- **Load Category is AC33-B**
- Automatic Transfer with Voltage Sensing (Three Phase)
- LCD Screen
- **RS 485 Modbus Communication**
- Adjustable delay time before transfer
- Phase Sequence Sensing
- Voltage Lower/Upper Limit
- Frequency Lower/Upper Limit
- Source Priority Selection
- Integrated Auxiliary Contacts (Output 220VAC)
- Generator Start/Stop (adjustable delay time)
- Integrated Dual Power Supply
- Integrated Bridging Bars
- Fire Alarm Input, (Dry contact)
- Mechanical Position Indicator
- LED Position Indicator
- LED Power Indicator
- Wide Voltage Range
- Easy integration

The solution for

- Main/Genset, Main/Main, Genset/Genset applications
- Data Center
- High Building
- Hospital
- Industrial Facilities
- Bank Office
- Telecommunications
- School
- Public Buildings

Compliance with standards

- IEC 60947-1
- IEC 60947-3
- IEC 60947-6-1:2023
- IEC 55014-1 : 2021
- IEC 55014-2 : 2021
- IEC 61000-3-2 : 2019 + A1 : 2021
- EN 61000-3-3 : 2013 + A2 : 2021

Approvals and certification

ICR Polska Co., Ltd. POLAND



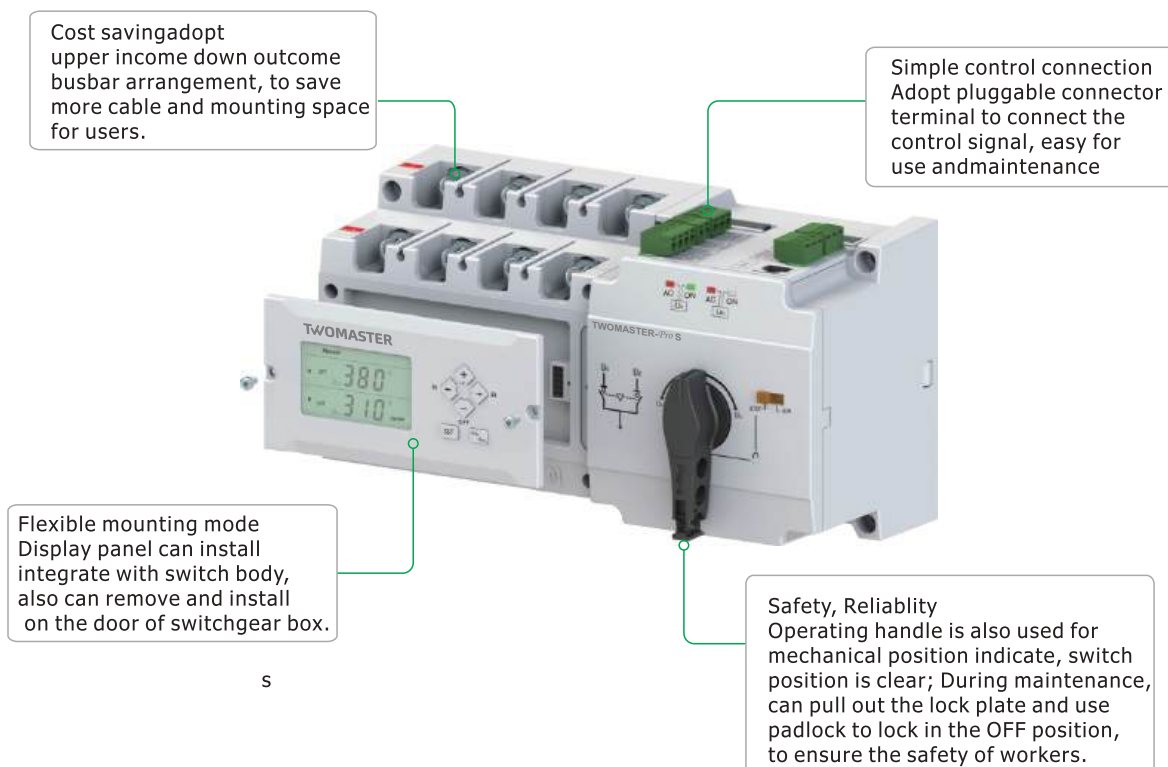
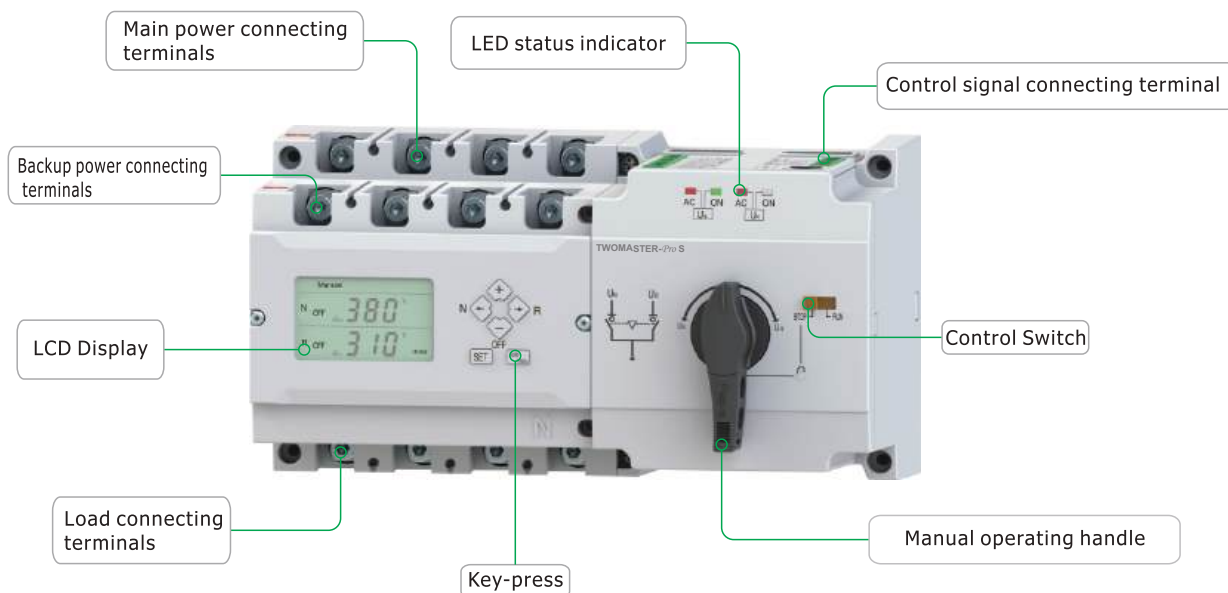
Product Code

TWOMASTER Pro E Series Automatic Transfer Switches							
Rating (A)	Product Code	No. of poles	Manual Handle	Auxiliary contact	Bridging bars	LCD Screen	Control module
40	13353004	3 Pole	mounted	mounted	mounted	mounted 13230001	13350002 mounted
	13354004	4 Pole					
63	13353006	3 Pole					
	13354006	4 Pole					
80	13353008	3 Pole					
	13354008	4 Pole					
100	13353010	3 Pole					
	13354010	4 Pole					
125	13353012	3 Pole					
	13354012	4 Pole					
160	13353016	3 Pole					
	13354016	4 Pole					
200	13353020	3 Pole					
	13354020	4 Pole					
250	13353025	3 Pole					
	13354025	4 Pole					
315	13353031	3 Pole					
	13354031	4 Pole					
400	13353040	3 Pole					
	13354040	4 Pole					
500	13353050	3 Pole					
	13354050	4 Pole					
630	13353063	3 Pole					
	13354063	4 Pole					

Technical Parameter

Rated Thermal Current I _{th}		80A			125A		250A			630A			
Rated Current I _n (A)		40	63	80	100	125	160	200	250	315	400	500	630
Rated insulation voltage U _i (V)		690											
Rated impulse withstand voltage U _{im} KV (installation category)		8	8	8	8	8	8	8	8	12	12	12	12
Rated working current I _e (A)	AC-33B	40	63	80	100	125	160	200	250	315	400	500	630
Rated short time withstand current I _{cw} kA		10	10	10	20	20	30	30	30	25	25	25	25
Rated short circuit making capacity I _{cm} kA peak		15	15	15	20	20	30	30	30	50	50	50	50
Transfer Time	I-0-II (S)	1.2	1.2	1.2	1.2	1.2	2.1	2.1	2.1	3.3	3.3	3.3	3.3
	0-I or II-0 (S)	0.6	0.6	0.6	0.6	0.6	1	1	1	1.5	1.5	1.5	1.5
Weight (kg)	3Poles	2,5	2,5	2,5	4,3	4,3	9	9	9	22,5	22,5	22,5	22,5
	4Poles	2,5	2,5	2,5	4,3	4,3	9	9	9	22,5	22,5	22,5	22,5
Use category		AC-33B(PC)											

Structure Instruction
Frame Current 40A-630A



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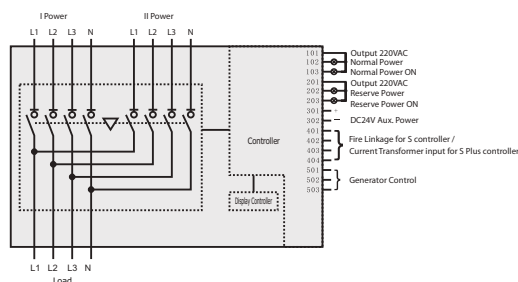
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Wiring Instruction

Frame Current 40A-630A

TWOMASTER-Pro S Controller 4P Wiring



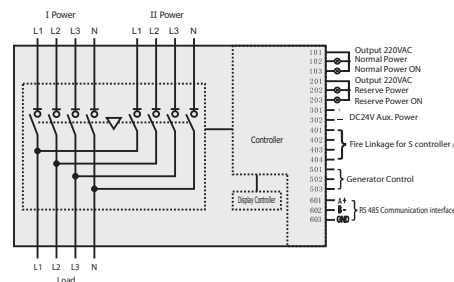
Twomaster-Pro S Controller terminal wiring instruction

- 101-103 : Main Power external Indicator signal output (Active AC230V 0.5A)
 101—Indicator common null line and 3P null line input
 102—Main power indicator signal output
 103—Main power ON signal output
 201~203 : Backup power external indicator signal (Active AC230V/0. 5A)
 201—Indicator common null line and 3P null line input
 202—Backup power indicator signal output
 203—Backup power ON signal output
 301~302 aux. power DC24V input
 301—DC24V "+" input
 302—DC24V "-" input
 401~404 fire linkage control signal input and feedback signal output
 401, 402— Fire linkage signal passive input,
 403, 404— Feedback signal when ATS transfer to OFF position
 501~503 : Generator start control signal output
 501—Control signal NC point
 502—Control signal common point
 503—Control signal NO point

S Plus Controller terminal wiring instruction

- 401~404 current signal input, 100mA

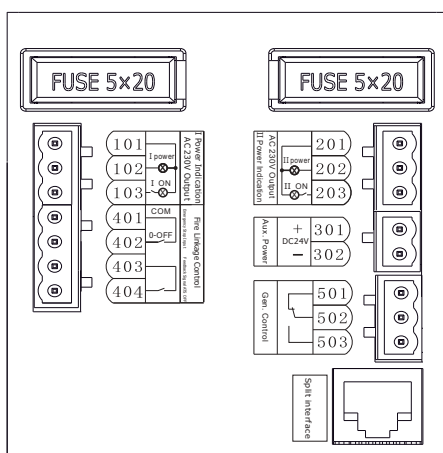
TWOMASTER-Pro E Controller 4P Wiring



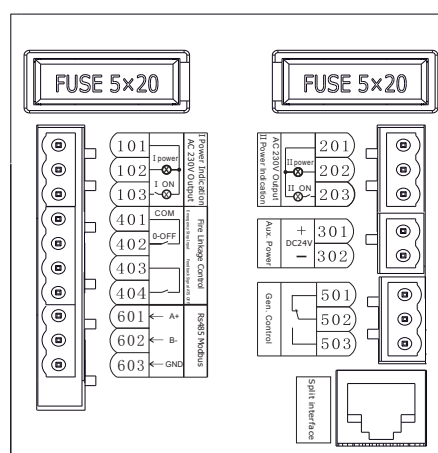
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 301~302 aux. power DC24V input
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 401, 402— Fire linkage signal passive input,
 403, 404— Feedback signal when ATS transfer to OFF position
 501~503 : Generator start control signal output
 501—Control signal NC point
 502—Control signal common point
 503—Control signal NO point
 601~603: RS485 Communication terminal 601--A+, 602--B-, 603--GND

TWOMASTER-Pro S Controller Terminal Definition

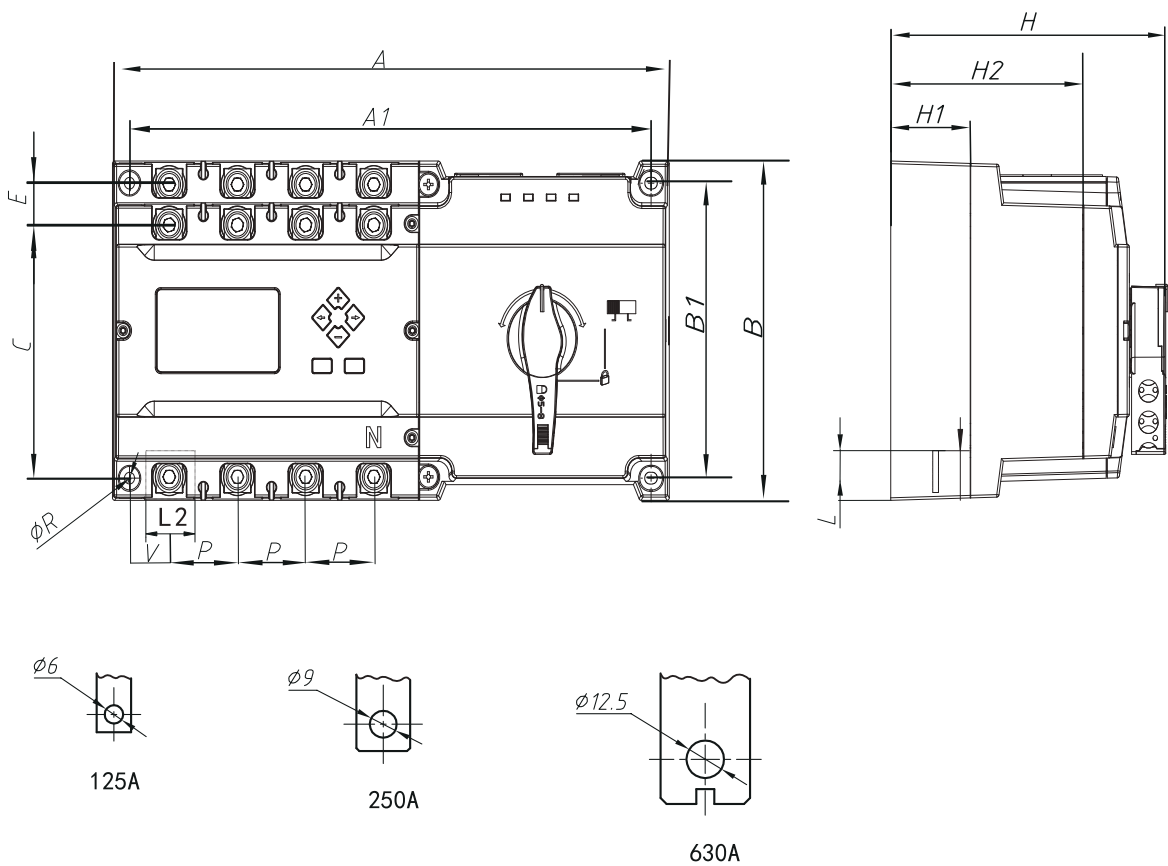
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TWOMASTER-Pro E Controller Terminal Definition

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- Note: 1. If fire-fighting equipment output signal is active power, the signal source need to change over the line connection, for example to connect through a relay to change the line connection, and connect the relay NO point to 401, 402, when NO contact point closed ATS transfer to OFF position. When the fire linkage function is active, the ATS will stop working, if want the ATS to working again, must first clear up the fire-fighting signal and then the ATS will recovery normal operation. If it is intelligent type, need switching Manual/Auto button one time.
2. When the backup power is Auto start generator, when normal power is good 501 and 502 closed, 502 and 503 open; When Normal power is fault, 501 and 502 open, 502 and 503 closed.
3. RS485 Communication interface manual please refer to communication protocol.

Dimensions



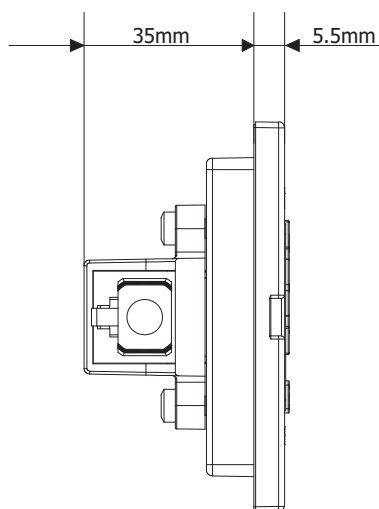
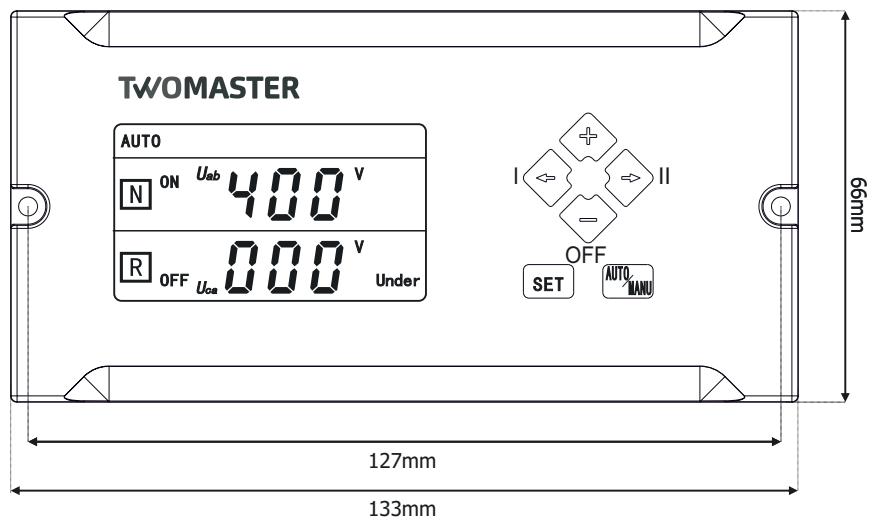
Size	Outline (mm)			Mounting(mm)										
	A	B	H	A1	B1	H1	H2	C	E	R	V	P	L	L2
80	230	125	130	212	100	35	83	79	16.5	4	15.5	23	14	9
125	245	130	122	230	113	31	71	97.5	15.5	4.5	25	30	16	21.5
250	295	175	175	275	152	29	99	132	20	6	32	35	29	27
630	430	272	228	400	240	41	131	207	30	9	50	58	38	42

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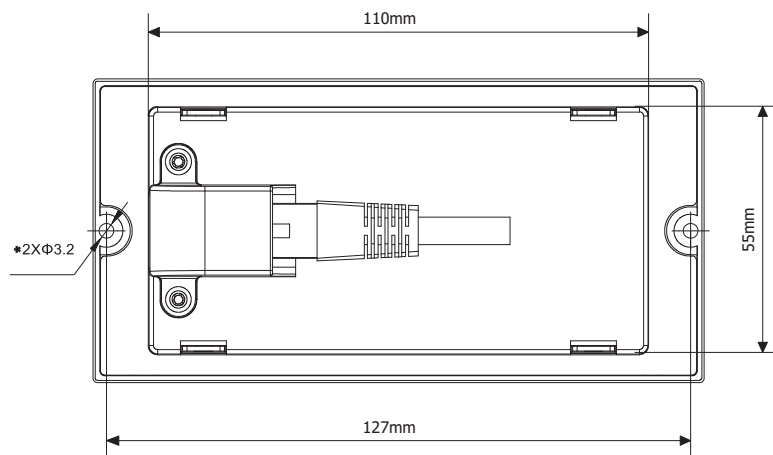
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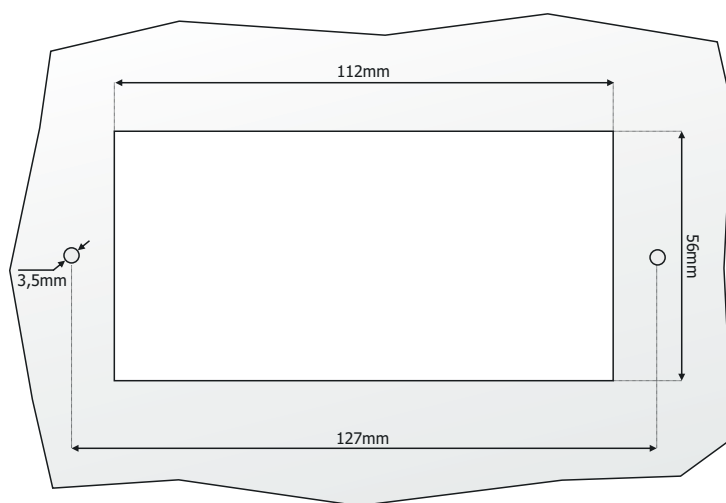
Dimensions Twomaster LCD



Dimensions Twomaster LCD



Overall dimensions



Split mounting hole size

