

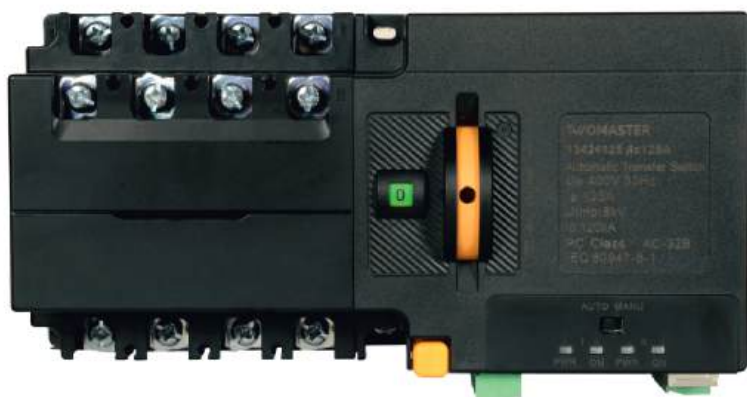
TWOMASTER



TWOMASTER TURN SERIES
40A-630A

TWOMASTER TURN B SERIES

40A-630A

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The solution for

- Main/Genset, Main/Main, Genset/Genset applications
- Housing Projects

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



Advantages

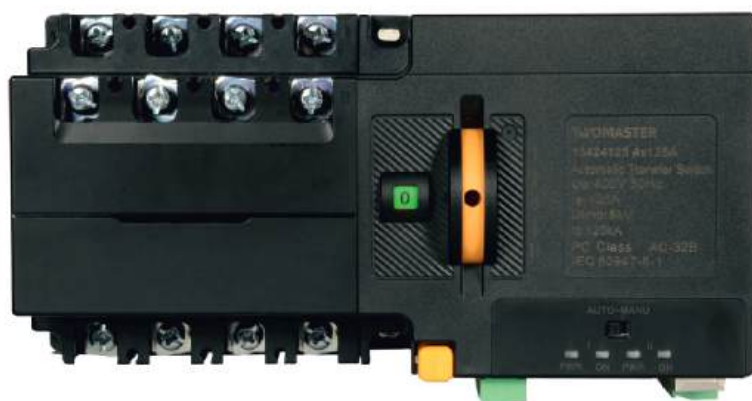
- 3 or 4 Pole Automatic Transfer Switch
- Automatic Transfer with Voltage Sensing (Single Phase)
- Integrated Auxiliary Contacts,(Output 220VAC)
- Generator Start/Stop, (No delay time)
- Integrated Dual Power Supply
- Integrated Bridging Bars
- Fire Alarm Input, (Dry contact)
- Mechanical Position Indicator
- LED Position Indicator
- LED Power Indicator
- Wide Voltage Range
- Easy integration

Product Code

TWOMASTER TURN B Series Automatic Transfer Switches						
Rating (A)	Product Code	No. of poles	Manual Handle	Auxiliary Contact	Bridging Bars	Control Module
40	13423004	3 Pole	1340001 included	mounted	mounted	13420002 mounted
	13424004	4 Pole				
63	13423006	3 Pole				
	13424006	4 Pole				
80	13423008	3 Pole				
	13424008	4 Pole				
100	13423010	3 Pole				
	13424010	4 Pole				
125	13423012	3 Pole				
	13424012	4 Pole				
160	13423016	3 Pole				
	13424016	4 Pole				
200	13423020	3 Pole				
	13424020	4 Pole				
250	13423025	3 Pole				
	13424025	4 Pole				
315	13423031	3 Pole				
	13424031	4 Pole				
400	13423040	3 Pole				
	13424040	4 Pole				
500	13423050	3 Pole				
	13424050	4 Pole				
630	13423063	3 Pole				
	13424063	4 Pole				

TWOMASTER TURN S SERIES

40A-630A

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Advantages

- 3 or 4 Pole Automatic Transfer Switch
- **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

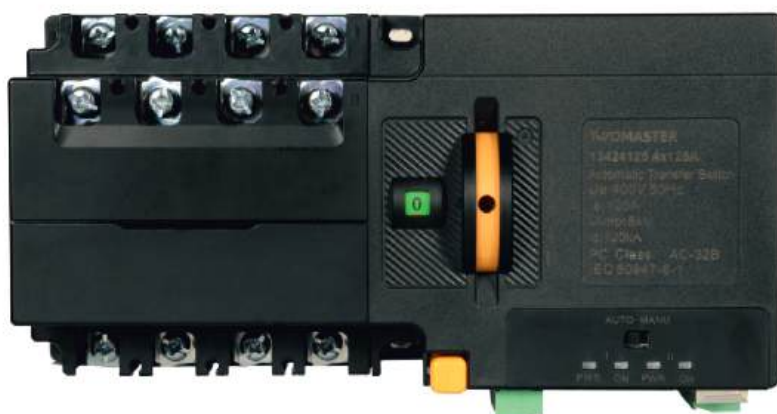


Product Code

TWOMASTER TURN S Series Automatic Transfer Switches							
Rating (A)	Product Code	No. of poles	Manual Handle	Auxiliary Contact	Bridging Bars	LCD Screen	Control Module
40	13433004	3 Pole	1340001 included	mounted	mounted	13230004	13430002 mounted
	13434004	4 Pole					
63	13433006	3 Pole					
	13434006	4 Pole					
80	13433008	3 Pole					
	13434008	4 Pole					
100	13433010	3 Pole					
	13434010	4 Pole					
125	13433012	3 Pole					
	13434012	4 Pole					
160	13433016	3 Pole					
	13434016	4 Pole					
200	13433020	3 Pole					
	13434020	4 Pole					
250	13433025	3 Pole					
	13434025	4 Pole					
315	13433031	3 Pole					
	13434031	4 Pole					
400	13433040	3 Pole					
	13434040	4 Pole					
500	13433050	3 Pole					
	13434050	4 Pole					
630	13433063	3 Pole					
	13434063	4 Pole					

TWOMASTER TURN E SERIES

40A-630A

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Advantages

- 3 or 4 Pole Automatic Transfer Switch
- 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

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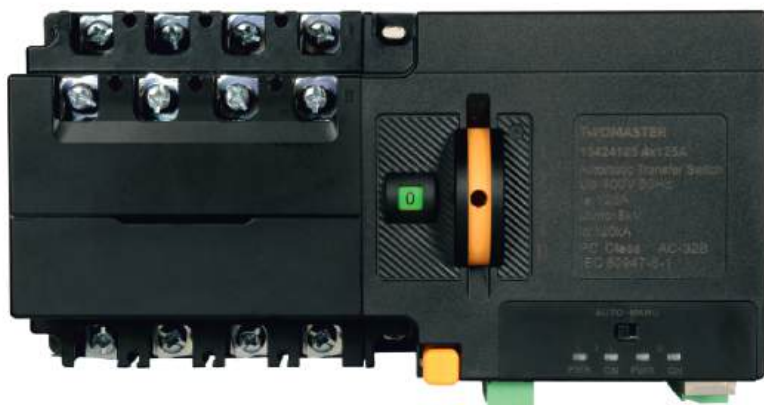
Product Code

TWOMASTER TURN E Series Automatic Transfer Switches							
Rating (A)	Product Code	No. of poles	Manual Handle	Auxiliary Contact	Bridging Bars	LCD Screen	Control Module
40	13453004	3 Pole	1340001 included	mounted	mounted	13230004 included	13450002 mounted
	13454004	4 Pole					
63	13453006	3 Pole					
	13454006	4 Pole					
80	13453008	3 Pole					
	13454008	4 Pole					
100	13453010	3 Pole					
	13454010	4 Pole					
125	13453012	3 Pole					
	13454012	4 Pole					
160	13453016	3 Pole					
	13454016	4 Pole					
200	13453020	3 Pole					
	13454020	4 Pole					
250	13453025	3 Pole					
	13454025	4 Pole					
315	13453031	3 Pole					
	13454031	4 Pole					
400	13453040	3 Pole					
	13454040	4 Pole					
500	13453050	3 Pole					
	13454050	4 Pole					
630	13453063	3 Pole					
	13454063	4 Pole					

TWOMASTER TURN R SERIES

40A-630A

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The solution for

- Main/Genset, Main/Main, Genset/Genset applications
- Generator Manufacturers

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



Advantages

- 3 or 4 Pole Motorized Transfer Switch
- Remote Transfer Switch
- Integrated Auxiliary Contacts
- Integrated Dual Power Supply
- Integrated Bridging Bars
- Mechanical Position Indicator
- LED Position Indicator
- LED Power Indicator
- Wide Voltage Range
- Easy integration

Product Code

TWOMASTER TURN R Series Automatic Transfer Switches						
Rating (A)	Product Code	No. of poles	Manual Handle	Auxiliary Contact	Bridging Bars	Control Module
40	13473004	3 Pole	1340001 included	mounted	mounted	13470002 mounted
	13474004	4 Pole				
63	13473006	3 Pole				
	13474006	4 Pole				
80	13473008	3 Pole				
	13474008	4 Pole				
100	13473010	3 Pole				
	13474010	4 Pole				
125	13473012	3 Pole				
	13474012	4 Pole				
160	13473016	3 Pole				
	13474016	4 Pole				
200	13473020	3 Pole				
	13474020	4 Pole				
250	13473025	3 Pole				
	13474025	4 Pole				
315	13473031	3 Pole				
	13474031	4 Pole				
400	13473040	3 Pole				
	13474040	4 Pole				
500	13473050	3 Pole				
	13474050	4 Pole				
630	13473063	3 Pole				
	13474063	4 Pole				

TWOMASTER TURN SERIES
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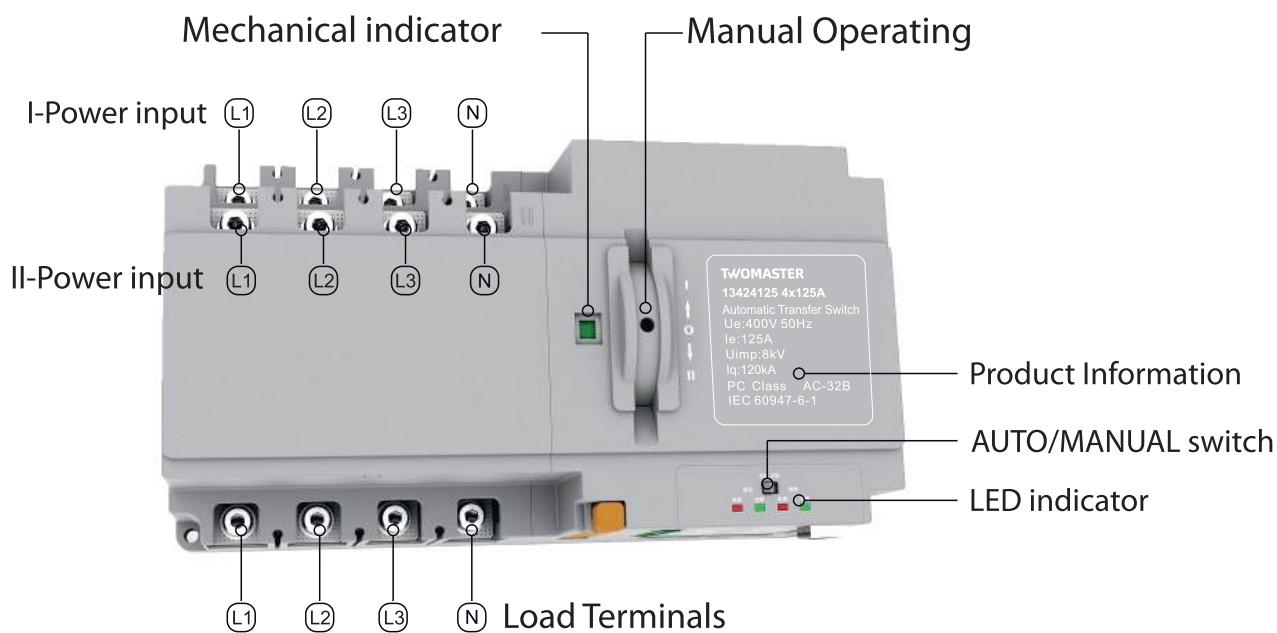
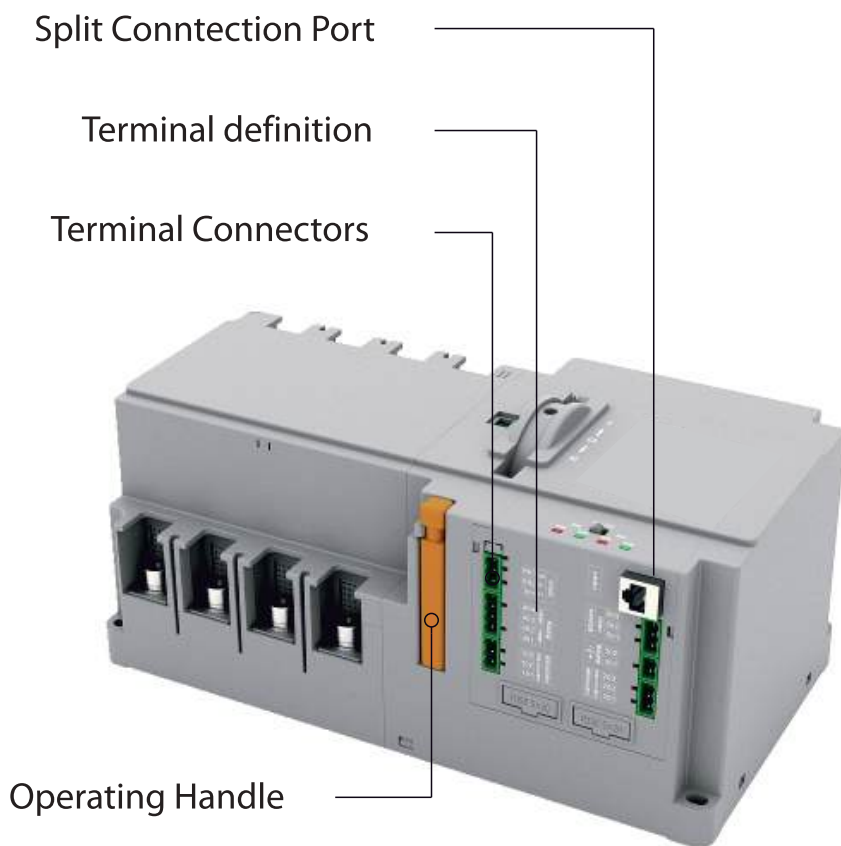


Technical Parameter

Rated Thermal Current Ith		125A					250A			630A			
Rated Current In(A)		40	63	80	100	125	160	200	250	315	400	500	630
Rated insulation voltage Ui(V)		690	690	690	690	690	690	690	690	690	690	690	690
Rated impulse withstand voltage Uimp KV (installation category)		8											
Rated working current Ie(A)	AC-33iB	40	63	80	100	125	160	200	250	315	400	500	630
Rated short-circuit making capacity Icm (kA) peak		12	12	12	12	12	17	17	17	26	26	26	26
Rated limited short-circuit current Iq (kA)		120											
Transfer Time	I-O-II (S)	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0	2.5	2.5	2.5	2.5
	O-I or II-O (S)	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9	1.2	1.2	1.2	1.2
Weight (kg)	3Poles	4,3	4,3	4,3	4,3	4,3	9	9	9	22,5	22,5	22,5	22,5
	4Poles	4,3	4,3	4,3	4,3	4,3	9	9	9	22,5	22,5	22,5	22,5
Use categeory		AC-32B(PC)											

Structure Instruction

Frame Current 40A-630A

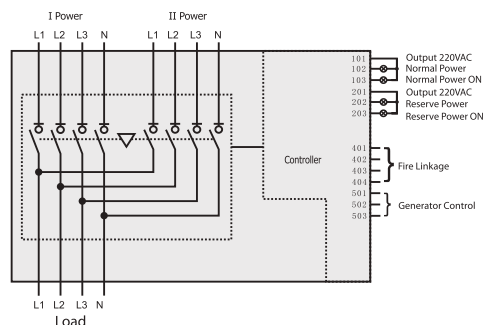


TWOMASTER TURN SERIES

40A-630A

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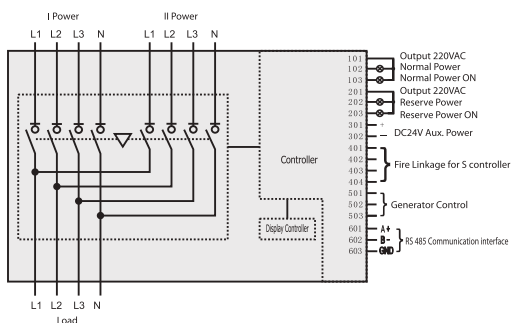
TWOMASTER-TURN B Controller 4P Wiring



Twomaster-Turn B 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
- 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

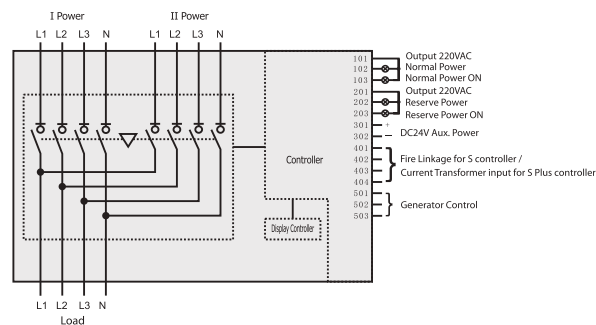
TWOMASTER-Turn E Controller 4P Wiring



Twomaster-E 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
- 601~603: RS485 Communication terminal 601--A+, 602--B-, 603--GND

TWOMASTER-TURN S Controller 4P Wiring



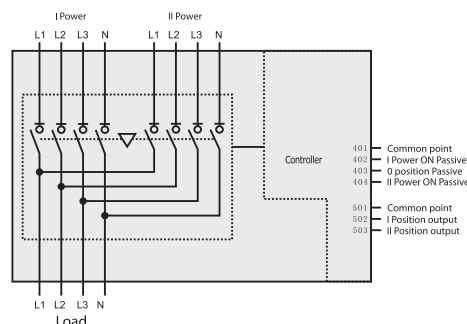
Twomaster-Turn S Controller terminal wiring instruction

- 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-Turn R Controller 4P Wiring



Twomaster-R Controller terminal wiring instruction

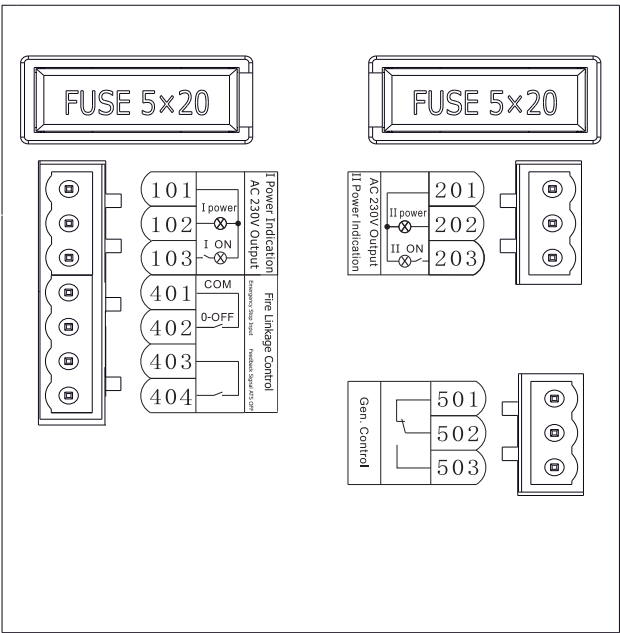
- 401~404 Remote control signal input
- 401— Common point
- 402— I Power ON passive input
- 403— 0 position passive input
- 404— II Power ON passive input
- 501-503 : Position signal output
- 501—Common point
- 502—I Position passive signal output
- 503—II Position passive signal output

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.

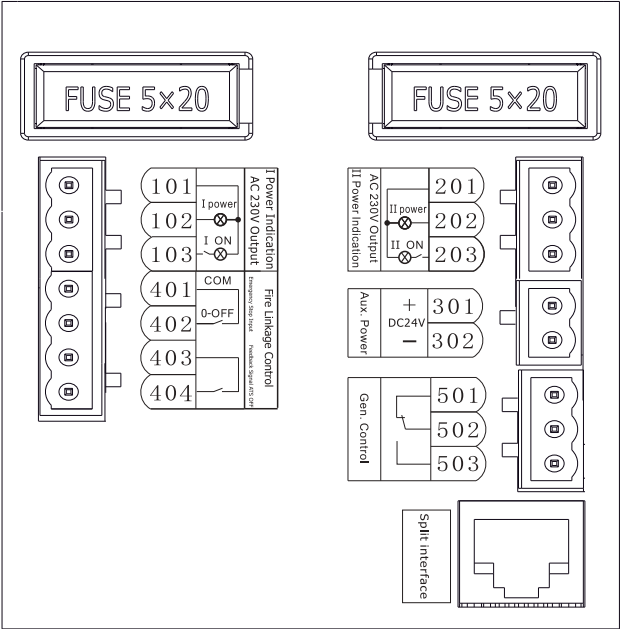
2. When the backup power is Auto start generator, when normal power is good 501 and 502 closed, 502 and 503 open; When Normal power is fault, 501 and 502 open, 502 and 503 closed.

3. RS485 Communication interface manual please refer to communication protocol.

TWOMASTER-TUN B Controller Terminal Definition
40A-630A



TWOMASTER-TURN S Controller Terminal Definition
40A-630A



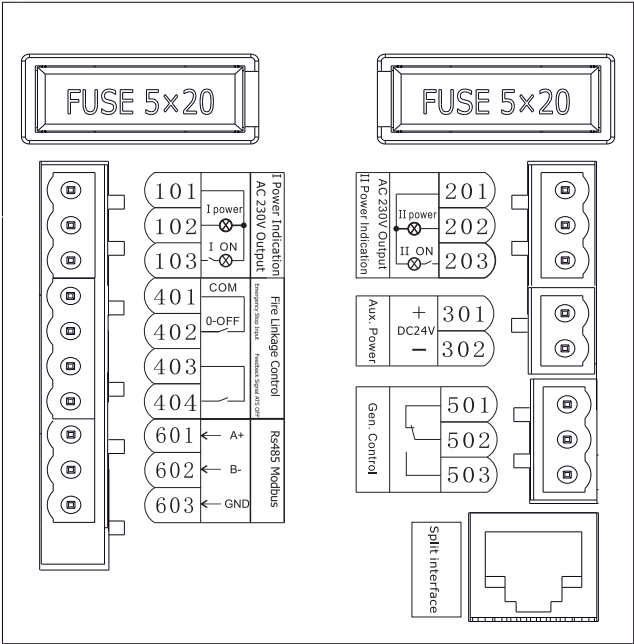
TWOMASTER TURN SERIES

40A-630A



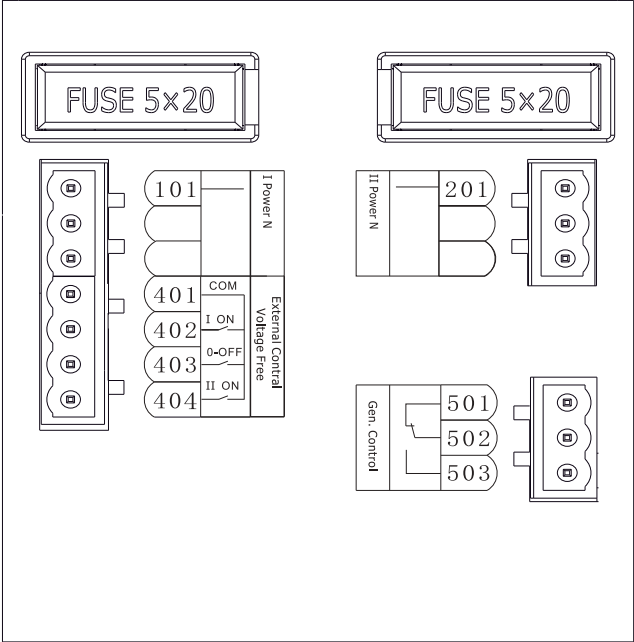
TWOMASTER- TURN E Controller Terminal Definition

40A-630A

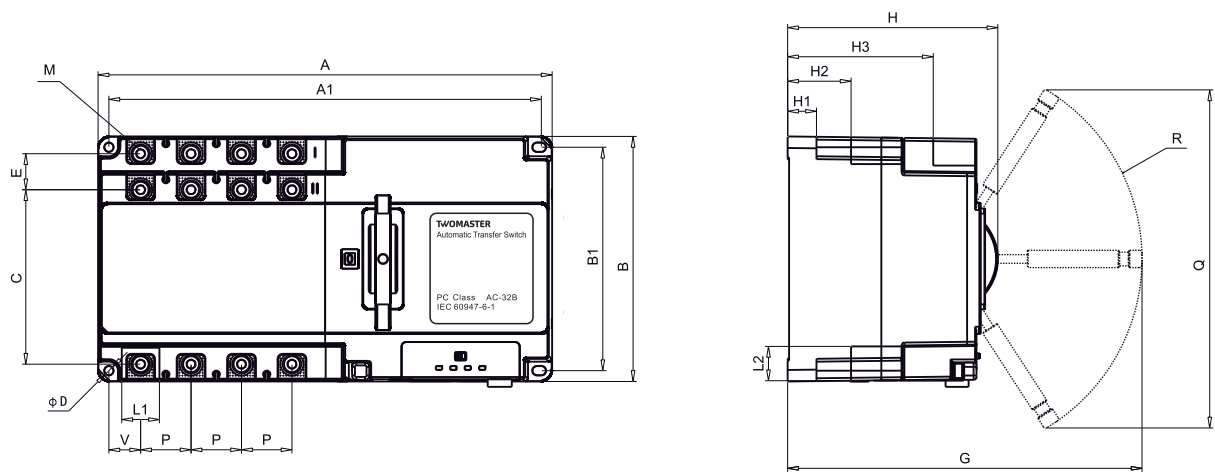


TWOMASTER-TURN R Controller Terminal Definition

40A-630A



Dimensions



Spec	Outline size (mm)			Mounting size (mm)													Operating space (mm)		
In	A	B	H	A1	B1	H1	H2	H3	L1	L2	C	E	V	P	D	M	G	R	Q
125	242	120	115	116	106	15.5	33	82.2	18.5	19	83	21	16.6	25	φ 4.5	M6	196	106	196
250	315	170	146	298.5	155	20	44	101	26	24	121	25	22	35	φ 6.3	M8	246	137	235
630	475	230	199.5	444	203	14	59.5	127.5	48	32.6	173	27	45.5	58	φ 8.5	M10	305	163	240

