

JUMO TYA HL303 – Three-phase Thyristor power controller

- LED display with control panel
- Setup software with wizard for easy commissioning
- Phase angle control and burst firing operation in one device
- Partial load break monitoring
- Process data recording
- Energy meter
- Various fieldbus interfaces
- UL 508 approval up to 700A



Order details

(1) Basic type	
709083	JUMO TYA HL303 three-phase thyristor power controller
(2) Version	
0	Standard version
(3) Load current	
120	AC 120 A
150	AC 150 A
180	AC 180 A
210	AC 210 A
300	AC 300 A
400	AC 400 A
450	AC 450 A
500	AC 500 A
600	AC 600 A
700	AC 700 A
800	AC 800 A
(4) Mains voltage	
115	AC 115 V
230	AC 230 V
400	AC 400 V
480	AC 480 V
600	AC 600 V
690	AC 690 V
(5) Output	
000	Without
005	4 to 20 mA
040	0 to 10 V analog
(6) Interface	
00	Not to be used
54	RS422/485, J-Bus, MOD-Bus
63	PROFINET-IO Device (2x RJ45)
64	PROFIBUS-DP (slave)
84	EtherCat
85	Ethernet (Modbus TCP)
86	Ethernet IP
(7) Extension	
00	None
01	Energy totalizer
02	Datalogging
03	Datalogging and Energy totalizer
04	Bluetooth device
05	Bluetooth device and Energy totalizer
06	Bluetooth and Datalogging
07	Bluetooth device with Datalogging and Energy totalizer
08	Heater brake
09	Heater brake and Energy totalizer
10	Heater brake with Datalogging

11	Heater brake, Datalogging, Energy totalizer
12	Heater brake with Bluetooth device
13	Heater brake, Energy totalizer and Bluetooth device
14	Heater brake with Datalogging and Bluetooth device
15	Heater brake, Datalogging with Energy totalizer and Bluetooth device
16	Current limit
17	Current limit with Energy totalizer
18	Current limit with Datalogging
19	Current limit with Datalogging and Energy totalizer
20	Current limit with Bluetooth device
21	Current limit with Bluetooth device and Energy totalizer
22	Current limit with Bluetooth device and Datalogging
23	Current limit with Bluetooth device, Datalogging and Energy totalizer
24	Current limit with Heater brake
25	Current limit with Heater brake and Energy totalizer
26	Current limit with Heater brake and Datalogging
27	Current limit with Heater brake, Datalogging and Energy totalizer
28	Current limit with Heater brake with Bluetooth device
29	Current limit, Heater brake with Bluetooth device and Energy totalizer
30	Current limit, Heater brake with Bluetooth device and Datalogging
31	Current limit, Heater brake with Bluetooth device, Datalogging, Energy totalizer
(8) Fan voltage	
1	AC 115 V
2	AC 230 V
3	DC 24 V
(9) Extra codes	
000	Without approval
061	With UL approval

Order code

(1) (2) (3) (4) (5) (6) (7) (8) (9)
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Base prices depending on rated voltage, rated current, and certification

Rated voltage	115V/230V 400V/480V	600V	690V	115V/230V 400V/480V	600V
Approvals	CE	CE	CE	CE & UL	CE & UL
Rated current					
120 A	-	-	2,907.45 €	-	-
150 A	-	-	3,082.80 €	-	-
180 A	-	-	3,687.60 €	-	-
210 A	-	-	3,885.00 €	-	-
300 A	4,350.15 €	4,784.85 €	5,024.25 €	4,567.50 €	5,024.25 €
400 A	5,036.85 €	5,540.85 €	5,817.00 €	5,288.85 €	5,818.05 €
450 A	5,639.55 €	6,203.40 €	6,512.10 €	5,920.95 €	6,513.15 €
500 A	6,439.65 €	7,083.30 €	7,437.15 €	6,760.95 €	7,437.15 €
600 A	8,487.15 €	9,335.55 €	9,909.90 €	9,765.00 €	10,744.65 €
700 A	8,592.15 €	9,440.55 €	10,014.90 €	9,870.00 €	10,849.65 €
800 A	8,697.15 €	9,545.55 €	10,119.90 €	9,975.00 €	10,954.65 €

Spareparts

Super-fast semiconductor fuses for short-circuit protection of thyristors (not for line protection).
 Please note that some models require multiple fuses for protection.

Size	200 kARMS Symmetrical A.I.C					Quantity for each phase	Material number
	Fuse Code	Total Current (ARMS)	Fuse I ² t at 500Vac* (A2 Sek)	Fuse I ² t at 660Vac* (A2 Sek)	Vac		
115V,230V, 400V,480V							
300A	FUFMM450	450	73500	105000	690	1	30072192
400A	FUFMM550	550	150500	215000	690	1	30072229
450A	FUFMM700	700	294000	420000	690	1	30072226



500A	FUFMM700	700	294000	420000	690	1	30072226
600A	FU2055920.250	1000	246400	352000	690	4	30072232
700A	FU2055920.250	1000	246400	352000	690	4	30072232
800A	FUFMM550	1100	602000	860000	690	2	30072229

Size	200 kARMS Symmetrical A.I.C					Quantity for each phase	Material number
690V	Fuse Code	Total Current (ARMS)	Fuse I ² t at 500Vac* (A2 Sek)	Fuse I ² t at 660Vac* (A2 Sek)	Vac		
120A	FU2055920.160	160	15400	16940	690	1	30072235
150A	FU2055920.200	200	25000	27500	690	1	30072234
180A	FU2055920.250	250	44000	48400	690	1	30072232
210A	FU2055920.315	315	77000	84700	690	1	30072233
300A	FUFMM400	400	72500	79750	690	1	30072194
400A	FUFMM550	550	215000	236500	690	1	30072229
450A	FUFMM700	700	420000	462000	690	1	30072226
500A	FUFMM700	700	420000	462000	690	1	30072226
600A	FUFMM450	900	352000	387200	690	2	30072192
700A	FUFMM450	900	352000	387200	690	2	30072192
800A	FUFMM550	1100	602000	860000	690	2	30072229

Accessories

Description	Part no.
Semiconductor fuse FUFMM400 (400 A)	30072194
Semiconductor fuse FUFMM450 (450 A)	30072192
Semiconductor fuse FUFMM550 (550 A)	30072229
Semiconductor fuse FUFMM700 (700 A)	30072226
Semiconductor fuse FU2055920.160 (160 A)	30072235
Semiconductor fuse FU2055920.200 (200 A)	30072234
Semiconductor fuse FU2055920.250 (250 A)	30072232
Semiconductor fuse FU2055920.315 (315 A)	30072233