

JUMO TYA 202 - Three-Phase Thyristor Power Controller in Three-Phase Economy Circuit (709062)

- LCD display with info line
- Close mounting possible
- Network load optimization through dual energy management
- Current limiting
- Softstart function
- Phase-angle operation
- Burst-firing operation
- Resistance monitoring and limitation for MoSi2 heating elements
- Load monitoring for the detection of partial load failure or load short-circuit "Teach-In"
- Integrated diagnostic systems
- Energy meter
- Various field bus interfaces
- UL 508 approval



Order details

(1) Basic type	
709062	Three-phase thyristor power controller in three-phase economy circuit
(2) Version	
8	Standard with default settings
9	Customer-specific configuration (specification in plain text)
(3) Language	
01	German
02	English
03	French
(4) Load current / control	
020-100	AC20A U ² -control
020-010	AC20A I ² -control (partial load failure detection, current limiting, current control)
020-001	AC20A P-control (partial load failure detection, current limiting, current control)
032-100	AC32A U ² -control
032-010	AC32A I ² -control (partial load failure detection, current limiting, current control)
032-001	AC32A P-control (partial load failure detection, current limiting, current control)
050-100	AC50A U ² -control
050-010	AC50A I ² -control (partial load failure detection, current limiting, current control)
050-001	AC50A P-control (partial load failure detection, current limiting, current control)
100-100	AC100A U ² -control
100-010	AC100A I ² -control (partial load failure detection, current limiting, current control)
100-001	AC100A P-control (partial load failure detection, current limiting, current control)
150-100	AC150A U ² -control
150-010	AC150A I ² -control (partial load failure detection, current limiting, current control)
150-001	AC150A P-control (partial load failure detection, current limiting, current control)
200-100	AC200A U ² -control
200-010	AC200A I ² -control (partial load failure detection, current limiting, current control)
200-001	AC200A P-control (partial load failure detection, current limiting, current control)
250-100	AC250A U ² -control
250-010	AC250A I ² -control (partial load failure detection, current limiting, current control)
250-001	AC250A P-control (partial load failure detection, current limiting, current control)
(5) Mains voltage	
024	AC 24 V
042	AC 42 V
115	AC 115 V
230	AC 230 V
265	AC 265 V
400	AC 400 V
460	AC 460 V
500	AC 500 V
(6) Interface	

00	Not to be used
54	RS422/485, J-Bus, MOD-Bus
63	PROFINET-IO-Device (2 x RJ45)
64	PROFIBUS-DP (slave)
84	EtherCAT
(7) Extra codes	
252	Relay
257	Optocoupler

Order code

(1)	(2)	(3)	(4)	(5)	(6)	(7)

Important information:

Subordinate control loop U^2 , code 100: enables voltage control

Subordinate control loop I^2 , code 010: enables voltage control, current control, partial load failure detection, dual energy management, and current limiting

Subordinate control loop P, code 001: enables voltage control, current control, power control, partial load failure detection, dual energy management, current limiting, free-running economy circuit, and resistance limitation

The load voltage is also the voltage supply for the control electronics.

UL approval

Overview of the voltage supply of the fans for variants with 250 A load current

Load voltage	Voltage supply of the fan
$\leq$ AC 42 V	AC 24 V/20 VA
AC 115 V	AC 115 V/20 VA
$\geq$ 230 V	AC 230 V/20 VA

Semiconductor fuses

Overview of the ultrarapid semiconductor fuses for protecting thyristors against short-circuits (no lead protection)

Load current thyristor power controller	Order code	Part no.
20 A	709710/02 semiconductor fuse 40A (In=20A)-AC690V	00513108
32 A	709710/02 semiconductor fuse 80A (In=32/50A)-AC690V	00068011
50 A	709710/02 semiconductor fuse 80A (In=32/50A)-AC690V	00068011
100 A	709710/02-semiconductor fuse 160A (In=100A)-AC690V	00081801
150 A	709710/02 semiconductor fuse 350A (In=150A)-AC690V	00083318
200 A	709710/02 semiconductor fuse 550A (In=250A)-AC690V	00371964
250 A	709710/02 semiconductor fuse 550A (In=250A)-AC690V	00371964



Stock versions

Order code	Load current / control	Mains voltage	Part no.
709062/8-01-100-010-400-00/252	AC100A I ² -control (partial load failure detection, current limiting, current control)	AC 400 V	00574479
709062/8-01-150-010-400-00/252	AC150A I ² -control (partial load failure detection, current limiting, current control)	AC 400 V	00595985

Accessories

Description	Part no.
USB cable, A-connector to Mini-B connect length 3 m	00506252
mounting element for DIN-rail 709062 (20A	00555172
mounting element for DIN-rail 709062 (32	00555527
Semi-conductor fuse 80A (In=50A)-AC690V	00068011
Semi-conductor fuse 160A (In=100A)-AC690	00081801
Semi-conductor fuse 350A (In=150A)-AC690	00083318
Semi-conductor fuse 550A (In=250A)-AC690	00371964
Semi-conductor fuse 40A (In=20A)-AC690V	00513108
mount. kit f. mount. rail 50A TYA202 160	00600097

Software

Description	Part no.
GSD-Generator JUMO 144.01.xx/1.xx (download free of charge on our website)	00432892
Setup JUMO TYA-201/S201/202/S202/203	00544869
EtherCAT Slave Information (ESI) Datei JUMO TYA-201/202/203	00703297
JUMO TYA PROFINET GSDML-Datei	00709880