

Symbol	Typ	Titel
H	Sektion	ELECTRICITY
H02	Klasse	GENERATION, CONVERSION, OR DISTRIBUTION OF ELECTRIC POWER
H02M	Unterklasse	APPARATUS FOR CONVERSION BETWEEN AC AND AC, BETWEEN AC AND DC, OR BETWEEN DC AND DC, AND FOR USE WITH MAINS OR SIMILAR POWER SUPPLY SYSTEMS ; CONVERSION OF DC OR AC INPUT POWER INTO SURGE OUTPUT POWER; CONTROL OR REGULATION THEREOF (conversion of current or voltage specially adapted for use in electronic time-pieces with no moving parts G04G 19/02; systems for regulating electric or magnetic variables in general, e.g. using transformers, reactors or choke coils, combination of such systems with static converters G05F; for digital computers G06F 1/00; transformers H01F; connection or control of one converter with regard to conjoint operation with a similar or other source of supply H02J; dynamo-electric converters H02K 47/00; controlling transformers, reactors or choke coils, control or regulation of electric motors, generators or dynamo-electric converters H02P; pulse generators H03K) [4, 5]
H02M 1/00	Hauptgruppe	Details of apparatus for conversion
H02M 1/02	1-Punkt Untergruppe	. Circuits specially adapted for the generation of grid-control or igniter-control voltages for discharge tubes incorporated in static converters
H02M 1/04	2-Punkt Untergruppe	. . for tubes with grid control
H02M 1/06	1-Punkt Untergruppe	. Circuits specially adapted for rendering non-conductive gas discharge tubes or equivalent semiconductor devices, e.g. thyratrons, thyristors [2]
H02M 1/08	1-Punkt Untergruppe	. Circuits specially adapted for the generation of control voltages for semiconductor devices incorporated in static converters
H02M 1/084	2-Punkt Untergruppe	. . using a control circuit common to several phases of a multi-phase system [4]
H02M 1/088	2-Punkt Untergruppe	. . for the simultaneous control of series or parallel connected semiconductor devices [4]
H02M 1/092	3-Punkt Untergruppe	. . . the control signals being transmitted optically [4]
H02M 1/096	3-Punkt Untergruppe	. . . the power supply of the control circuit being connected in parallel to the main switching element (H02M 1/092 takes precedence) [4]
H02M 1/10	1-Punkt Untergruppe	. Arrangements incorporating converting means for enabling loads to be operated at will from different kinds of power supplies, e.g. from ac or dc
H02M 1/12	1-Punkt Untergruppe	. Arrangements for reducing harmonics from ac input or output
H02M 1/14	1-Punkt Untergruppe	. Arrangements for reducing ripples from dc input or output
H02M 1/15	2-Punkt Untergruppe	. . using active elements [4]
H02M 1/16	1-Punkt Untergruppe	. Means for providing current step on switching, e.g. with saturable reactor
H02M 1/20	1-Punkt Untergruppe	. Contact mechanisms of dynamic converters
H02M 1/22	2-Punkt Untergruppe	. . incorporating collectors and brushes
H02M 1/24	2-Punkt Untergruppe	. . incorporating rolling or tumbling contacts
H02M 1/26	2-Punkt Untergruppe	. . incorporating cam-operated contacts
H02M 1/28	2-Punkt Untergruppe	. . incorporating electromagnetically-operated vibrating contacts
H02M 1/30	2-Punkt Untergruppe	. . incorporating liquid contacts
H02M 3/00	Hauptgruppe	Conversion of dc power input into dc power output

Symbol	Typ	Titel
H02M 3/02	1-Punkt Untergruppe	. without intermediate conversion into ac
H02M 3/04	2-Punkt Untergruppe	. . by static converters
H02M 3/06	3-Punkt Untergruppe	. . . using resistors or capacitors, e.g. potential divider
H02M 3/07	4-Punkt Untergruppe	 using capacitors charged and discharged alternately by semiconductor devices with control electrode [4]
H02M 3/08	3-Punkt Untergruppe	. . . using discharge tubes without control electrode or semiconductor devices without control electrode
H02M 3/10	3-Punkt Untergruppe	. . . using discharge tubes with control electrode or semiconductor devices with control electrode (H02M 3/07 takes precedence) [4]
H02M 3/125	4-Punkt Untergruppe	 using devices of a thyatron or thyristor type requiring extinguishing means [2]
H02M 3/13	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 3/135	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 3/137	6-Punkt Untergruppe	 with automatic control of output voltage or current, e.g. switching regulators [4]
H02M 3/139	7-Punkt Untergruppe	 with digital control [4]
H02M 3/142	7-Punkt Untergruppe	 including plural semiconductor devices as final control devices for a single load [4]
H02M 3/145	4-Punkt Untergruppe	 using devices of a triode or transistor type requiring continuous application of a control signal [2]
H02M 3/15	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 3/155	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 3/156	6-Punkt Untergruppe	 with automatic control of output voltage or current, e.g. switching regulators [4]
H02M 3/157	7-Punkt Untergruppe	 with digital control [4]
H02M 3/158	7-Punkt Untergruppe	 including plural semiconductor devices as final control devices for a single load [4]
H02M 3/16	2-Punkt Untergruppe	. . by dynamic converters
H02M 3/18	3-Punkt Untergruppe	. . . using capacitors or batteries which are alternately charged and discharged, e.g. charged in parallel and discharged in series
H02M 3/20	2-Punkt Untergruppe	. . by combination of static with dynamic converters; by combination of dynamo-electric with other dynamic or static converters
H02M 3/22	1-Punkt Untergruppe	. with intermediate conversion into ac
H02M 3/24	2-Punkt Untergruppe	. . by static converters
H02M 3/26	3-Punkt Untergruppe	. . . using discharge tubes without control electrode or semiconductor devices without control electrode to produce the intermediate ac
H02M 3/28	3-Punkt Untergruppe	. . . using discharge tubes with control electrode or semiconductor devices with control electrode to produce the intermediate ac
H02M 3/305	4-Punkt Untergruppe	 using devices of a thyatron or thyristor type requiring extinguishing means [2]
H02M 3/31	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 3/315	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 3/325	4-Punkt Untergruppe	 using devices of a triode or a transistor type requiring continuous application of a control signal [2]

Symbol	Typ	Titel
H02M 3/33	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 3/335	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 3/337	6-Punkt Untergruppe	 in push-pull configuration [4]
H02M 3/338	6-Punkt Untergruppe	 in a self-oscillating arrangement (H02M 3/337 takes precedence) [4]
H02M 3/34	2-Punkt Untergruppe	. . by dynamic converters
H02M 3/36	3-Punkt Untergruppe	. . . using mechanical parts to select progressively or to vary continuously the input potential
H02M 3/38	3-Punkt Untergruppe	. . . using mechanical contact-making and -breaking parts to interrupt a single potential
H02M 3/40	4-Punkt Untergruppe	 wherein the parts are rotating and collectors co-operate with brushes or rollers
H02M 3/42	4-Punkt Untergruppe	 with electromagnetically-operated vibrating contacts, e.g. chopper (self-interrupters in general H01H 51/34)
H02M 3/44	2-Punkt Untergruppe	. . by combination of static with dynamic converters; by combination of dynamo-electric with other dynamic or static converters
H02M 5/00	Hauptgruppe	Conversion of ac power input into ac power output, e.g. for change of voltage, for change of frequency, for change of number of phases
H02M 5/02	1-Punkt Untergruppe	. without intermediate conversion into dc
H02M 5/04	2-Punkt Untergruppe	. . by static converters (controlling transformers, reactors or choke coils, e.g. by tap changing, H02P 13/00) [4]
H02M 5/06	3-Punkt Untergruppe	. . . using impedances
H02M 5/08	4-Punkt Untergruppe	 using capacitors only
H02M 5/10	3-Punkt Untergruppe	. . . using transformers
H02M 5/12	4-Punkt Untergruppe	 for conversion of voltage or current amplitude only
H02M 5/14	4-Punkt Untergruppe	 for conversion between circuits of different phase number
H02M 5/16	4-Punkt Untergruppe	 for conversion of frequency
H02M 5/18	4-Punkt Untergruppe	 for conversion of waveform
H02M 5/20	3-Punkt Untergruppe	. . . using discharge tubes without control electrode or semiconductor devices without control electrode
H02M 5/22	3-Punkt Untergruppe	. . . using discharge tubes with control electrode or semiconductor devices with control electrode
H02M 5/25	4-Punkt Untergruppe	 using devices of a thyatron or thyristor type requiring extinguishing means (H02M 5/27 takes precedence) [2]
H02M 5/253	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 5/257	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 5/27	5-Punkt Untergruppe	 for conversion of frequency [2]
H02M 5/275	4-Punkt Untergruppe	 using devices of a triode or transistor type requiring continuous application of a control signal (H02M 5/297 takes precedence) [2]
H02M 5/29	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 5/293	5-Punkt Untergruppe	 using semiconductor devices only [2]

Symbol	Typ	Titel
H02M 5/297	5-Punkt Untergruppe	 for conversion of frequency [2]
H02M 5/32	2-Punkt Untergruppe	. . by dynamic converters
H02M 5/34	3-Punkt Untergruppe	. . . using mechanical contact-making and -breaking parts
H02M 5/36	4-Punkt Untergruppe	 wherein the parts are rotating and collectors co-operate with brushes or rollers
H02M 5/38	2-Punkt Untergruppe	. . by combination of static with dynamic converters; by combination of dynamo-electric with other dynamic or static converters
H02M 5/40	1-Punkt Untergruppe	. with intermediate conversion into dc
H02M 5/42	2-Punkt Untergruppe	. . by static converters
H02M 5/44	3-Punkt Untergruppe	. . . using discharge tubes or semiconductor devices to convert the intermediate dc into ac
H02M 5/443	4-Punkt Untergruppe	 using devices of a thyatron or thyristor type requiring extinguishing means [2]
H02M 5/447	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 5/45	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 5/451	6-Punkt Untergruppe	 with automatic control of output voltage or frequency [4]
H02M 5/452	6-Punkt Untergruppe	 with automatic control of output waveform [4]
H02M 5/453	4-Punkt Untergruppe	 using devices of a triode or transistor type requiring continuous application of a control signal [2]
H02M 5/456	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 5/458	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 5/46	2-Punkt Untergruppe	. . by dynamic converters
H02M 5/48	2-Punkt Untergruppe	. . by combination of static with dynamic converters; by combination of dynamo-electric with other dynamic or static converters
H02M 7/00	Hauptgruppe	Conversion of ac power input into dc power output; Conversion of dc power input into ac power output
H02M 7/02	1-Punkt Untergruppe	. Conversion of ac power input into dc power output without possibility of reversal
H02M 7/04	2-Punkt Untergruppe	. . by static converters
H02M 7/06	3-Punkt Untergruppe	. . . using discharge tubes without control electrode or semiconductor devices without control electrode
H02M 7/08	4-Punkt Untergruppe	 arranged for operation in parallel
H02M 7/10	4-Punkt Untergruppe	 arranged for operation in series, e.g. for multiplication of voltage
H02M 7/12	3-Punkt Untergruppe	. . . using discharge tubes with control electrode or semiconductor devices with control electrode
H02M 7/145	4-Punkt Untergruppe	 using devices of a thyatron or thyristor type requiring extinguishing means [2, 4]
H02M 7/15	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 7/155	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 7/162	6-Punkt Untergruppe	 in a bridge configuration [4]
H02M 7/17	6-Punkt Untergruppe	 arranged for operation in parallel [2, 4]
H02M 7/19	6-Punkt Untergruppe	 arranged for operation in series, e.g. for voltage multiplication [2, 4]

Symbol	Typ	Titel
H02M 7/21	4-Punkt Untergruppe	 using devices of a triode or transistor type requiring continuous application of a control signal [2, 4]
H02M 7/213	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 7/217	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 7/219	6-Punkt Untergruppe	 in a bridge configuration [4]
H02M 7/23	6-Punkt Untergruppe	 arranged for operation in parallel [2, 4]
H02M 7/25	6-Punkt Untergruppe	 arranged for operation in series, e.g. for multiplication of voltage [2, 4]
H02M 7/26	3-Punkt Untergruppe	. . . using open-spark devices, e.g. Marx rectifier
H02M 7/28	3-Punkt Untergruppe	. . . using electrolytic rectifiers
H02M 7/30	2-Punkt Untergruppe	. . by dynamic converters
H02M 7/32	3-Punkt Untergruppe	. . . using mechanical contact-making and -breaking parts
H02M 7/34	4-Punkt Untergruppe	 wherein the parts are rotating and collectors co-operate with brushes or rollers
H02M 7/36	4-Punkt Untergruppe	 with electromagnetically-operated vibrating contacts, e.g. chopper (self-interrupters in general H01H 51/34)
H02M 7/38	3-Punkt Untergruppe	. . . using one or more sparking electrodes rotating over counterelectrodes
H02M 7/40	2-Punkt Untergruppe	. . by combination of static with dynamic converters; by combination of dynamo-electric with other dynamic or static converters
H02M 7/42	1-Punkt Untergruppe	. Conversion of dc power input into ac power output without possibility of reversal
H02M 7/44	2-Punkt Untergruppe	. . by static converters
H02M 7/46	3-Punkt Untergruppe	. . . using discharge tubes without control electrode or semiconductor devices without control electrode
H02M 7/48	3-Punkt Untergruppe	. . . using discharge tubes with control electrode or semiconductor devices with control electrode
H02M 7/505	4-Punkt Untergruppe	 using devices of a thyatron or thyristor type requiring extinguishing means [2]
H02M 7/51	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 7/515	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 7/517	6-Punkt Untergruppe	 with special starting equipment [4]
H02M 7/519	6-Punkt Untergruppe	 in a push-pull configuration (H02M 7/517 takes precedence) [4]
H02M 7/521	6-Punkt Untergruppe	 in a bridge configuration [4]
H02M 7/523	6-Punkt Untergruppe	 with LC-resonance circuit in the main circuit [4]
H02M 7/525	6-Punkt Untergruppe	 with automatic control of output waveform or frequency (H02M 7/517 to H02M 7/523 take precedence) [4]
H02M 7/527	7-Punkt Untergruppe	 by pulse width modulation [4]
H02M 7/529	8-Punkt Untergruppe	 using digital control [4]
H02M 7/53	4-Punkt Untergruppe	 using devices of a triode or transistor type requiring continuous application of a control signal [2]
H02M 7/533	5-Punkt Untergruppe	 using discharge tubes only [2]

Symbol	Typ	Titel
H02M 7/537	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 7/5375	6-Punkt Untergruppe	 with special starting equipment [4]
H02M 7/538	6-Punkt Untergruppe	 in a push-pull configuration (H02M 7/5375 takes precedence) [4]
H02M 7/5383	6-Punkt Untergruppe	 in a self-oscillating arrangement (H02M 7/538 takes precedence) [4]
H02M 7/5387	6-Punkt Untergruppe	 in a bridge configuration [4]
H02M 7/539	6-Punkt Untergruppe	 with automatic control of output wave form or frequency (H02M 7/5375 to H02M 7/5387 take precedence) [4]
H02M 7/5395	7-Punkt Untergruppe	 by pulse-width modulation [4]
H02M 7/54	2-Punkt Untergruppe	. . by dynamic converters
H02M 7/56	3-Punkt Untergruppe	. . . using mechanical parts to select progressively, or to vary continuously, the input potential
H02M 7/58	3-Punkt Untergruppe	. . . using mechanical contact-making and -breaking parts to interrupt a single potential
H02M 7/60	4-Punkt Untergruppe	 wherein the parts are rotating and collectors co-operate with brushes or rollers
H02M 7/62	4-Punkt Untergruppe	 with electromagnetically-operated vibrating contacts, e.g. chopper (self-interrupters in general H01H 51/34)
H02M 7/64	2-Punkt Untergruppe	. . by combination of static with dynamic converters; by combination of dynamo-electric with other dynamic or static converters
H02M 7/66	1-Punkt Untergruppe	. with possibility of reversal
H02M 7/68	2-Punkt Untergruppe	. . by static converters
H02M 7/70	3-Punkt Untergruppe	. . . using discharge tubes without control electrode or semiconductor devices without control electrode
H02M 7/72	3-Punkt Untergruppe	. . . using discharge tubes with control electrode or semiconductor devices with control electrode
H02M 7/75	4-Punkt Untergruppe	 using devices of a thyatron or thyristor type requiring extinguishing means (H02M 7/77 takes precedence) [2]
H02M 7/753	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 7/757	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 7/758	6-Punkt Untergruppe	 with automatic control of output waveform or frequency [4]
H02M 7/77	5-Punkt Untergruppe	 arranged for operation in parallel [2]
H02M 7/79	4-Punkt Untergruppe	 using devices of a triode or transistor type requiring continuous application of a control signal (H02M 7/81 takes precedence) [2]
H02M 7/793	5-Punkt Untergruppe	 using discharge tubes only [2]
H02M 7/797	5-Punkt Untergruppe	 using semiconductor devices only [2]
H02M 7/81	5-Punkt Untergruppe	 arranged for operation in parallel [2]
H02M 7/82	3-Punkt Untergruppe	. . . using open-spark devices, e.g. Marx rectifier
H02M 7/84	3-Punkt Untergruppe	. . . using electrolytic rectifiers
H02M 7/86	2-Punkt Untergruppe	. . by dynamic converters

Symbol	Typ	Titel
H02M 7/88	3-Punkt Untergruppe	. . . using mechanical parts to select progressively or to vary continuously the input potential
H02M 7/90	3-Punkt Untergruppe	. . . using mechanical contact-making and -breaking parts to interrupt a single potential
H02M 7/92	4-Punkt Untergruppe	 wherein the parts are rotating and collectors co-operate with brushes or rollers
H02M 7/94	4-Punkt Untergruppe	 wherein the parts are operated by rotating cams or cam-like devices
H02M 7/95	4-Punkt Untergruppe	 with electromagnetically-operated vibrating contacts, e.g. chopper (self-interrupters in general H01H 51/34)
H02M 7/96	4-Punkt Untergruppe	 with moving liquid contacts
H02M 7/98	2-Punkt Untergruppe	. . by combination of static with dynamic converters; by combination of dynamo-electric with other dynamic or static converters
H02M 9/00	Hauptgruppe	Conversion of dc or ac input power into surge output power [2]
H02M 9/02	1-Punkt Untergruppe	. with dc input power [2]
H02M 9/04	2-Punkt Untergruppe	. . using capacitative stores [2]
H02M 9/06	1-Punkt Untergruppe	. with ac input power [2]
H02M 11/00	Hauptgruppe	Power conversion systems not covered by the preceding groups [4]