

SIMOTICS motors

Spindle motors for SINAMICS S120 Combi

SIMOTICS M-1PH8 asynchronous motors – SH 80 – Forced ventilation**Selection and ordering data**

Rated speed	Continuous speed, max.	Rated power S1 duty	Rated torque	Static torque	SIMOTICS M-1PH8 asynchronous motor Forced ventilation DE → NDE Terminal box top	Efficiency	Moment of inertia	Weight, approx.
n_{rated} rpm	n_{max1} rpm	P_{rated} kW	M_{rated} Nm	M_0 Nm	Article No.	η %	J kgm ²	m kg
Shaft height SH 80 – Line voltage 400 V 3 AC								
1500	10000	2.8	18	21	1PH8083-1DF0 ■ - ■ HA1	80.9	0.0064	32
	12000	2.8	18	21	1PH8083-1DF0 ■ - ■ DA1-Z L37	80.9	0.0064	32
	12000	2.8	18	21	1PH8083-1DF0 ■ - ■ LA1	80.9	0.0064	32
2000	10000	3.7	18	21	1PH8083-1DG0 ■ - ■ HA1	83.2	0.0064	32
	12000	3.7	18	21	1PH8083-1DG0 ■ - ■ DA1-Z L37	83.2	0.0064	32
	15000	3.7	18	21	1PH8083-1UG0 ■ - ■ LA1	83.2	0.0064	32
	17000	3.7	18	21	1PH8083-1SG0 ■ - ■ MA1	83.2	0.0064	32
3000	10000	4.1	13	21	1PH8083-1DM0 ■ - ■ HA1	86.9	0.0064	32
	12000	4.1	13	21	1PH8083-1DM0 ■ - ■ DA1-Z L37	86.9	0.0064	32
	15000	4.1	13	21	1PH8083-1UM0 ■ - ■ LA1	86.9	0.0064	32
	20000	4.1	13	21	1PH8083-1SM0 ■ - ■ MA1	86.9	0.0064	32
4500	10000	4.8	10	19	1PH8083-1DN0 ■ - ■ HA1	86.4	0.0064	32
	12000	4.8	10	19	1PH8083-1DN0 ■ - ■ DA1-Z L37	86.4	0.0064	32
	15000	4.8	10	19	1PH8083-1UN0 ■ - ■ LA1	86.4	0.0064	32
	20000	4.8	10	19	1PH8083-1SN0 ■ - ■ MA1	86.4	0.0064	32
1500	10000	3.7	24	27	1PH8087-1DF0 ■ - ■ HA1	81.7	0.0089	39
	12000	3.7	24	27	1PH8087-1DF0 ■ - ■ DA1-Z L37	81.7	0.0089	39
	14000	3.7	24	27	1PH8087-1UF0 ■ - ■ LA1	81.7	0.0089	39
2000	10000	4.9	23	27	1PH8087-1DG0 ■ - ■ HA1	85.3	0.0089	39
	12000	4.9	23	27	1PH8087-1DG0 ■ - ■ DA1-Z L37	85.3	0.0089	39
	15000	4.9	23	27	1PH8087-1UG0 ■ - ■ LA1	85.3	0.0089	39
	18000	4.9	23	27	1PH8087-1SG0 ■ - ■ MA1	85.3	0.0089	39
3000	10000	4.8	15	27	1PH8087-1DM0 ■ - ■ HA1	87.1	0.0089	39
	12000	4.8	15	27	1PH8087-1DM0 ■ - ■ DA1-Z L37	87.1	0.0089	39
	15000	4.8	15	27	1PH8087-1UM0 ■ - ■ LA1	87.1	0.0089	39
	20000	4.8	15	27	1PH8087-1SM0 ■ - ■ MA1	87.1	0.0089	39
4500	10000	5.8	12	25	1PH8087-1DN0 ■ - ■ HA1	86.8	0.0089	39
	12000	5.8	12	25	1PH8087-1DN0 ■ - ■ DA1-Z L37	86.8	0.0089	39
	15000	5.8	12	25	1PH8087-1UN0 ■ - ■ LA1	86.8	0.0089	39
	20000	5.8	12	25	1PH8087-1SN0 ■ - ■ MA1	86.8	0.0089	39

Type of constructionIM B3 (IM V5, IM V6)
IM B5 (IM V1, IM V3)**Shaft extension DE**

Plain shaft

Feather key

Feather key

Balancing

–

Full-key

Half-key

L37 Increased continuous speed, max. from 10000 to 12000 rpm**Bearing version****0 D** Standard with fixed bearing**1 H** Standard**2 L** Performance**M** High Performance**Vibration severity acc. to Siemens¹⁾/ EN 60034-14**

SR/A

S/A

SPECIAL/B

SPECIAL/B

Shaft and flange accuracy

R

R

SPECIAL

SPECIAL

¹⁾ For definition of the vibration severity according to Siemens, see the 1PH8 Configuration Manual.

SIMOTICS M-1PH8 asynchronous motors – SH 80 – Forced ventilation

Motor type (repeated)	Rated current for S1 duty	Stall current	SINAMICS S120 Combi						
			Rated output current for S1 duty	3-axis Power Modules			4-axis Power Modules		
				Article No.	Article No.	Article No.	Article No.	Article No.	Article No.
I_{rated} A	I_0 A	I_{rated} A	6SL3111- 3VE21-6FA0	6SL3111- 3VE21-6EA0	6SL3111- 3VE22-0HA0	6SL3111- 4VE21-6FA0	6SL3111- 4VE21-6EA0	6SL3111- 4VE22-0HA0	
1PH8083-1.F...	7.5	8	9	○	○/●	○/●	○/●	○/●	○/●
	7.5	8	9	○	○/●	○/●	○/●	○/●	○/●
	7.5	8	9	○	○/●	○/●	○/●	○/●	○/●
1PH8083-1.G...	11.6	12	12	○	○	○	○	○	○/●
	11.6	12	12	○	○	○	○	○	○/●
	11.6	12	12	○	○	○	○	○	○/●
	11.6	12	12	○	○	○	○	○	○/●
1PH8083-1.M...	13.6	17	18	○	○	○	○	○	○/● ²⁾
	13.6	17	18	○	○	○	○	○	○/● ²⁾
	13.6	17	18	○	○	○	○	○	○/● ²⁾
	13.6	17	18	○	○	○	○	○	○/● ²⁾
1PH8083-1.N...	17	23	18	✓	○	○	✓	○	○
	17	23	18	✓	○	○	✓	○	○
	17	23	18	✓	○	○	✓	○	○
	17	23	18	✓	○	○	✓	○	○
1PH8087-1.F...	10	11	12	○	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/●
	10	11	12	○	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/●
	10	11	12	○	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/●
1PH8087-1.G...	14.1	15	18	○	○	○	○	○	○
	14.1	15	18	○	○	○	○	○	○
	14.1	15	18	○	○	○	○	○	○
	14.1	15	18	○	○	○	○	○	○
1PH8087-1.M...	17.3	23	18	✓	○	○	✓	○	○
	17.3	23	18	✓	○	○	✓	○	○
	17.3	23	18	✓	○	○	✓	○	○
	17.3	23	18	✓	○	○	✓	○	○
1PH8087-1.N...	19.5	28	30	✓ ²⁾	○	○	✓ ²⁾	○	○
	19.5	28	30	✓ ²⁾	○	○	✓ ²⁾	○	○
	19.5	28	30	✓ ²⁾	○	○	✓ ²⁾	○	○
	19.5	28	30	✓ ²⁾	○	○	✓ ²⁾	○	○

- ✓ Perfectly suited as main spindle
- Suitable as main spindle
- Perfectly suited as driven tool
- Not suitable

²⁾ With derating.

SIMOTICS motors

Spindle motors for SINAMICS S120 Combi

SIMOTICS M-1PH8 asynchronous motors – SH 100 – Forced ventilation**Selection and ordering data**

Rated speed	Continu- ous speed, max.	Rated power S1 duty	Rated torque	Static torque	SIMOTICS M-1PH8 asynchronous motor Forced ventilation DE → NDE IP55 degree of protection Terminal box top	Efficiency	Moment of inertia	Weight, approx.
n_{rated} rpm	n_{max1} rpm	P_{rated} kW	M_{rated} Nm	M_0 Nm	Article No.	η %	J kgm ²	m kg
Shaft height SH 100 – Line voltage 400 V 3 AC								
1500	9000	3.7	24	29	1PH8101-1DF0 ■ - ■ HA1	83.5	0.0138	42
	10000	3.7	24	29	1PH8101-1DF0 ■ - ■ DA1-Z L37	83.5	0.0138	42
	12000	3.7	24	29	1PH8101-1DF0 ■ - ■ LA1	83.5	0.0138	42
1000	9000	3.7	35	38	1PH8103-1DD0 ■ - ■ HA1	81.4	0.0172	51
	10000	3.7	35	38	1PH8103-1DD0 ■ - ■ DA1-Z L37	81.4	0.0172	51
	12000	3.7	35	38	1PH8103-1DD0 ■ - ■ LA1	81.4	0.0172	51
1500	9000	5.5	35	38	1PH8103-1DF0 ■ - ■ HA1	85.2	0.0172	51
	10000	5.5	35	38	1PH8103-1DF0 ■ - ■ DA1-Z L37	85.2	0.0172	51
	12000	5.5	35	38	1PH8103-1DF0 ■ - ■ LA1	85.2	0.0172	51
2000	9000	7	33	38	1PH8103-1DG0 ■ - ■ HA1	87.7	0.0172	51
	10000	7	33	38	1PH8103-1DG0 ■ - ■ DA1-Z L37	87.7	0.0172	51
	12000	7	33	38	1PH8103-1DG0 ■ - ■ LA1	87.7	0.0172	51
3000	9000	8.4	27	38	1PH8103-1DM0 ■ - ■ HA1	90.0	0.0172	51
	10000	8.4	27	38	1PH8103-1DM0 ■ - ■ DA1-Z L37	90.0	0.0172	51
	12000	8.4	27	38	1PH8103-1DM0 ■ - ■ LA1	90.0	0.0172	51
1500	9000	7	45	52	1PH8105-1DF0 ■ - ■ HA1	86.7	0.0252	65
	10000	7	45	52	1PH8105-1DF0 ■ - ■ DA1-Z L37	86.7	0.0252	65
	12000	7	45	52	1PH8105-1DF0 ■ - ■ LA1	86.7	0.0252	65
1000	9000	6.3	60	63	1PH8107-1DD0 ■ - ■ HA1	83.4	0.0289	73
	10000	6.3	60	63	1PH8107-1DD0 ■ - ■ DA1-Z L37	83.4	0.0289	73
	12000	6.3	60	63	1PH8107-1DD0 ■ - ■ LA1	83.4	0.0289	73
1500	9000	9	57	63	1PH8107-1DF0 ■ - ■ HA1	86.9	0.0289	73
	10000	9	57	63	1PH8107-1DF0 ■ - ■ DA1-Z L37	86.9	0.0289	73
	12000	9	57	63	1PH8107-1DF0 ■ - ■ LA1	86.9	0.0289	73
2000	9000	10.5	50	63	1PH8107-1DG0 ■ - ■ HA1	89.7	0.0289	73
	10000	10.5	50	63	1PH8107-1DG0 ■ - ■ DA1-Z L37	89.7	0.0289	73
	12000	10.5	50	63	1PH8107-1DG0 ■ - ■ LA1	89.7	0.0289	73

Type of constructionIM B3 (IM V5, IM V6)
IM B5 (IM V1, IM V3)**Shaft extension DE**

Plain shaft

Feather key

Feather key

Balancing

–

Full-key

Half-key

L37 Increased continuous speed, max.
from 9000 to 10000 rpm**Bearing version****0 D** Standard with
fixed bearing**1 H** Standard**2 L** Performance**M** High Performance**Vibration severity**
acc. to Siemens¹⁾/
EN 60034-14**Shaft and**
flange
accuracy

SR/A

S/A

SPECIAL/B

SPECIAL/B

R

R

SPECIAL

SPECIAL

¹⁾ For definition of the vibration severity according to Siemens, see the 1PH8 Configuration Manual.

SIMOTICS M-1PH8 asynchronous motors – SH 100 – Forced ventilation

Motor type (repeated)	Rated current for S1 duty	Stall current	SINAMICS S120 Combi						
			Rated output current for S1 duty	3-axis Power Modules			4-axis Power Modules		
				Article No.	Article No.	Article No.	Article No.	Article No.	Article No.
I_{rated} A	I_0 A	I_{rated} A	6SL3111- 3VE21-6FA0	6SL3111- 3VE21-6EA0	6SL3111- 3VE22-0HA0	6SL3111- 4VE21-6FA0	6SL3111- 4VE21-6EA0	6SL3111- 4VE22-0HA0	
1PH8101-1.F...	12.5	14	12	○	○	○	○	○	○/●
	12.5	14	12	○	○	○	○	○	○/●
	12.5	14	12	○	○	○	○	○	○/●
1PH8103-1.D...	10	11	12	○	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/●
	10	11	12	○	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/●
	10	11	12	○	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/● ²⁾	○/●
1PH8103-1.F...	13.5	14	18	○	○	○	○	○	○/● ²⁾
	13.5	14	18	○	○	○	○	○	○/● ²⁾
	13.5	14	18	○	○	○	○	○	○/● ²⁾
1PH8103-1.G...	17.5	19	18	✓	○	○	✓	○	○
	17.5	19	18	✓	○	○	✓	○	○
	17.5	19	18	✓	○	○	✓	○	○
1PH8103-1.M...	25.7	31	30	–	✓ ²⁾	○	–	✓ ²⁾	○
	25.7	31	30	–	✓ ²⁾	○	–	✓ ²⁾	○
	25.7	31	30	–	✓ ²⁾	○	–	✓ ²⁾	○
1PH8105-1.F...	17.5	20	18	✓	○	○	✓	○	○
	17.5	20	18	✓	○	○	✓	○	○
	17.5	20	18	✓	○	○	✓	○	○
1PH8107-1.D...	17.5	25	18	✓	○	○	✓	○	○
	17.5	25	18	✓	○	○	✓	○	○
	17.5	25	18	✓	○	○	✓	○	○
1PH8107-1.F...	23.5	25	24	–	✓	○	–	✓	○
	23.5	25	24	–	✓	○	–	✓	○
	23.5	25	24	–	✓	○	–	✓	○
1PH8107-1.G...	26	29	30	–	✓ ²⁾	✓	–	✓ ²⁾	✓
	26	29	30	–	✓ ²⁾	✓	–	✓ ²⁾	✓
	26	29	30	–	✓ ²⁾	✓	–	✓ ²⁾	✓

- ✓ Perfectly suited as main spindle
- Suitable as main spindle
- Perfectly suited as driven tool
- Not suitable

²⁾ With derating.

SIMOTICS motors

Spindle motors for SINAMICS S120 Combi

SIMOTICS M-1PH8 asynchronous motors – SH 100 – Forced ventilation – Star-delta circuit

Selection and ordering data

Rated speed	Continu-ous speed, max.	Rated power S1 duty	Rated torque	Static torque	SIMOTICS M-1PH8 asynchronous motor Forced ventilation DE → NDE IP55 degree of protection Terminal box top	Efficiency	Moment of inertia	Weight, approx.
n_{rated} rpm	n_{max1} rpm	P_{rated} kW	M_{rated} Nm	M_0 Nm	Article No.	η %	J kgm ²	m kg
Shaft height SH 100 – Line voltage 400 V 3 AC – Star-delta circuit								
1500/4000	9000	3.7/3.7	24/9	29/19	1PH8101-1DS0 - - HA1	83.0/89.0	0.0138	42
	10000	3.7/3.7	24/9	29/19	1PH8101-1DS0 - - DA1-Z L37	83.0/89.0	0.0138	42
	12000	3.7/3.7	24/9	29/19	1PH8101-1DS0 - - LA1	83.0/89.0	0.0138	42
	18000	3.7/3.7	24/9	29/19	1PH8101-1SS0 - - MA1	83.0/89.0	0.0138	42
1500/4000	9000	7.5/7.5	48/18	55/36	1PH8105-1DS0 - - HA1	86.4/90.7	0.0252	65
	10000	7.5/7.5	48/18	55/36	1PH8105-1DS0 - - DA1-Z L37	86.4/90.7	0.0252	65
	12000	7.5/7.5	48/18	55/36	1PH8105-1DS0 - - LA1	86.4/90.7	0.0252	65
	18000	7.5/7.5	48/18	55/36	1PH8105-1SS0 - - MA1	86.4/90.7	0.0252	65
1500/4000	9000	8.5/8.5	54/20	63/42	1PH8107-1DS0 - - HA1	86.1/89.8	0.0289	73
	10000	8.5/8.5	54/20	63/42	1PH8107-1DS0 - - DA1-Z L37	86.1/89.8	0.0289	73
	12000	8.5/8.5	54/20	63/42	1PH8107-1DS0 - - LA1	86.1/89.8	0.0289	73
	18000	8.5/8.5	54/20	63/42	1PH8107-1SS0 - - MA1	86.1/89.8	0.0289	73

Type of construction

IM B3 (IM V5, IM V6)
IM B5 (IM V1, IM V3)

0
2

L37 Increased continuous speed, max. from 9000 to 10000 rpm

Shaft extension DE

Balancing

Plain shaft

–

Feather key
Feather key

Full-key
Half-key

Bearing version

0 D Standardwith fixed bearing
1 H Standard
2 L Performance
M High Performance

Vibration severity acc. to Siemens¹⁾/ EN 60034-14

SR/A
S/A
SPECIAL/B
SPECIAL/B

Shaft and flange accuracy

R
R
SPECIAL
SPECIAL

¹⁾ For definition of the vibration severity according to Siemens, see the 1PH8 Configuration Manual.

SIMOTICS motors

Spindle motors for SINAMICS S120 Combi

SIMOTICS M-1PH8 asynchronous motors – SH 100 – Forced ventilation – Star-delta circuit

Motor type (repeated)	Rated current for S1 duty	Stall current	SINAMICS S120 Combi								
			Rated output current for S1 duty	3-axis Power Modules			4-axis Power Modules				
				Article No.	Article No.	Article No.	Article No.	Article No.	Article No.		
I_{rated} A	I_0 A	I_{rated} A	6SL3111- 3VE21-6FA0	6SL3111- 3VE21-6EA0	6SL3111- 3VE22-0HA0	6SL3111- 4VE21-6FA0	6SL3111- 4VE21-6EA0	6SL3111- 4VE22-0HA0			
1PH8101-1.S...	13.2/13.5	15/20	18	○	○	○	○	○	○		
	13.2/13.5	15/20	18	○	○	○	○	○	○		
	13.2/13.5	15/20	18	○	○	○	○	○	○		
	13.2/13.5	15/20	18	○	○	○	○	○	○		
1PH8105-1.S...	23/24	25/35	24	–	○	○	–	○	○		
	23/24	25/35	24	–	○	○	–	○	○		
	23/24	25/35	24	–	○	○	–	○	○		
	23/24	25/35	24	–	○	○	–	○	○		
1PH8107-1.S...	27/28	30/40	30	–	–	○	–	–	○		
	27/28	30/40	30	–	–	○	–	–	○		
	27/28	30/40	30	–	–	○	–	–	○		
	27/28	30/40	30	–	–	○	–	–	○		

- ✓ Perfectly suited as main spindle
- Suitable as main spindle
- Perfectly suited as driven tool
- Not suitable

2) With derating.

SIMOTICS motors

Spindle motors for SINAMICS S120 Combi

SIMOTICS M-1PH8 asynchronous motors – SH 132 – Forced ventilation**Selection and ordering data**

Rated speed	Continu- ous speed, max.	Rated power S1 duty	Rated torque	Static torque	SIMOTICS M-1PH8 asynchronous motor Forced ventilation DE → NDE IP55 degree of protection Terminal box top	Efficiency	Moment of inertia	Weight, approx.
n_{rated} rpm	n_{max1} rpm	P_{rated} kW	M_{rated} Nm	M_0 Nm	Article No.	η %	J kgm ²	m kg
Shaft height SH 132 – Line voltage 400 V 3 AC								
1500	8000	11	70	96	1PH8131-1DF0 ■ - ■ HA1	89.9	0.059	89
	10000	11	70	96	1PH8131-1DF0 ■ - ■ LA1	89.9	0.059	89
1000	8000	12	115	128	1PH8133-1DD0 ■ - ■ HA1	87.1	0.076	106
	10000	12	115	128	1PH8133-1DD0 ■ - ■ LA1	87.1	0.076	106
Type of construction								
IM B3 (IM V5, IM V6)					0			
IM B5 (IM V1, IM V3)					2			
Shaft extension DE			Balancing		Bearing version		Vibration severity acc. to Siemens¹⁾/ EN 60034-14	Shaft and flange accuracy
Plain shaft			–		0 H	Standard	S/A	R
Feather key			Full-key		1 L	Performance	SPECIAL/B	SPECIAL
Feather key			Half-key		2 M	High Performance	SPECIAL/B	SPECIAL

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¹⁾ For definition of the vibration severity according to Siemens, see the 1PH8 Configuration Manual.

SIMOTICS motors

Spindle motors for SINAMICS S120 Combi

SIMOTICS M-1PH8 asynchronous motors – SH 132 – Forced ventilation

Motor type (repeated)	Rated current for S1 duty I_{rated} A	Stall current I_0 A	SINAMICS S120 Combi						
			Rated output current for S1 duty I_{rated} A	3-axis Power Modules			4-axis Power Modules		
				Article No.	Article No.	Article No.	Article No.	Article No.	Article No.
				6SL3111- 3VE21-6FA0	6SL3111- 3VE21-6EA0	6SL3111- 3VE22-0HA0	6SL3111- 4VE21-6FA0	6SL3111- 4VE21-6EA0	6SL3111- 4VE22-0HA0
1PH8131-1.F...	24	30	24	–	✓	○	–	✓	○
	24	30	24	–	✓	○	–	✓	○
1PH8133-1.D...	30	32	30	–	–	✓	–	–	✓
	30	32	30	–	–	✓	–	–	✓

- ✓ Perfectly suited as main spindle
- Suitable as main spindle
- Perfectly suited as driven tool
- Not suitable

SIMOTICS motors

Spindle motors for SINAMICS S120 Combi

SIMOTICS M-1PH8 Premium Performance asynchronous motors – SH 80 – Forced ventilation

Selection and ordering data

Rated speed	Maximum speed	Rated power S1 duty	Rated torque	SIMOTICS M-1PH8 Premium Performance asynchronous motor Forced ventilation DE → NDE IP55 degree of protection Terminal box top	Efficiency	Moment of inertia	Weight, approx. Motor with solid shaft
n_{rated} rpm	n_{max} rpm	P_{rated} kW	M_{rated} Nm		η %	J kgm ²	m kg
Shaft height SH 80 – Line voltage 400 V 3 AC							
9000	24000	2.8	3.0	1PH8081-1SU0 2- NA1-Z Q12+Q52	88.5	0.0045	24
	24000	2.8	3.0	1PH8081-1SW02- NA1-Z Q12+Q52	84.3	0.0045	24
	24000	3.5	3.7	1PH8081-1SV0 2- NA1-Z Q12+Q52	95.0	0.0045	24
5200	24000	4.5	8.3	1PH8083-1SW02- NA1-Z Q12+Q52	86.6	0.0064	29.5
12000	24000	4.5	3.6	1PH8083-1SV0 2- NA1-Z Q12+Q52	93.9	0.0064	29.5
	24000	6.5	5.2	1PH8087-1SV0 2- NA1-Z Q12+Q52	94.7	0.0089	37

Type of construction

IM B5 (IM V1, IM V3)

2

Shaft extension DE

Solid shaft

Hollow shaft

Order code **Y64** required.
Prepared for rotary union without bearing¹⁾

0

3

Bearing version

Vibration severity acc. to Siemens²⁾
EN 60034-14

Shaft and flange accuracy

Premium Performance

SPECIAL/B

SPECIAL

N

Q52 DE flange with additional 4 × M8 thread for one adapter plate for alignment of motor shaft with spindle shaft

Q12 M5 sealing air connection on terminal box¹⁾

¹⁾ For further details on interfaces and sealing air conditioning, see the 1PH8 Configuration Manual.

²⁾ For definition of the vibration severity according to Siemens, see the 1PH8 Configuration Manual.

SIMOTICS motors

Spindle motors for SINAMICS S120 Combi

SIMOTICS M-1PH8 Premium Performance asynchronous motors – SH 80 – Forced ventilation

Motor type (repeated)	Rated current for S1 duty I_{rated} A	SINAMICS S120 Combi						
		Pulse frequency kHz	3-axis Power Modules			4-axis Power Modules		
			Article No.			Article No.		
			6SL3111- 3VE21-6FA0	6SL3111- 3VE21-6EA0	6SL3111- 3VE22-0HA0	6SL3111- 4VE21-6EA0	6SL3111- 4VE22-0HA0	6SL3111- 4VE21-0EA0
1PH8081-1SU02-....	12.5	4	–	–	–	✓	✓	○
1PH8081-1SW02-....	12.5	8	–	–	–	–	–	✓
1PH8081-1SV02-....	15.5	8	–	–	–	–	–	✓
1PH8083-1SW02-....	15.5	8	–	–	–	–	–	✓
1PH8083-1SV02-....	15.5	8	–	–	–	–	–	✓
1PH8087-1SV02-....	19.0	8	–	–	–	–	–	✓

- ✓ Perfectly suited as main spindle
- Suitable as main spindle
- Perfectly suited as driven tool
- Not suitable