

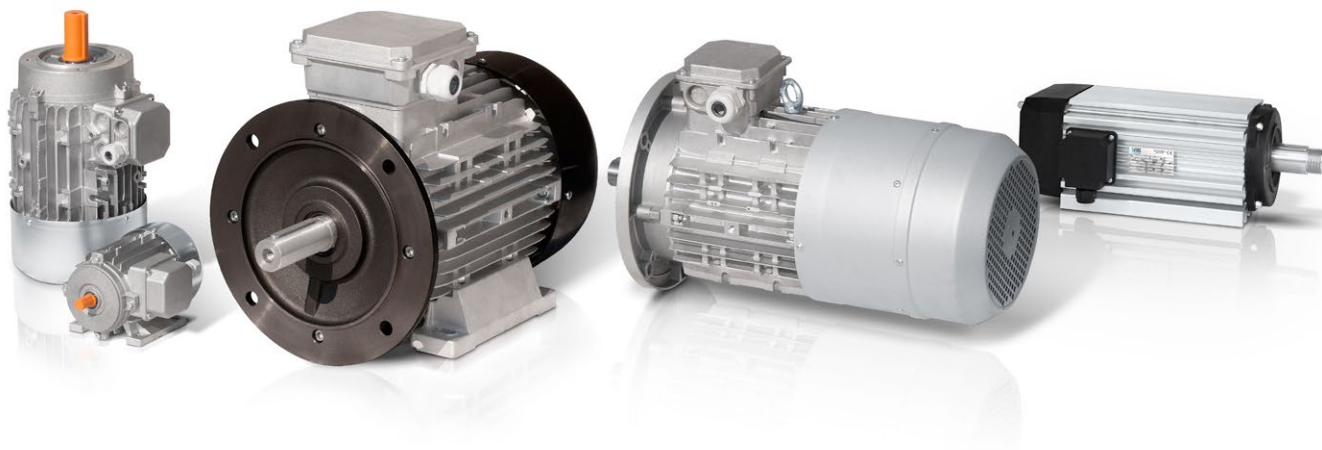


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ITAC MOTORS CATALOGUE

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ELECTRIC MOTOR DIVISION

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INDUCTION AC ELECTRIC MOTORS IEC 60034-1

THREE – PHASE MOTORS DESIGNED IN STANDARD

PN-EN 60034-1

for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz

IEC 60034-1

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

CE mark

3000 min¹ (2 poles)

Type frame size	Rated output kW	Rated speed min ¹	Rated current I _N at 400 V (A)	Efficiency η [%]	Power factor cos φ	Torque T _N (Nm)	Starting current/rated current I _L /I _N	Starting torque/rated torque T _L /T _N	$\frac{T_{Max}}{T_N}$	Motor weight kg
				IE1						
SF 56-2B	0,12	2790	0,4	61	0,70	0,41	4,6	2,7	2,7	3
SF 63-2A	0,18	2800	0,55	65	0,72	0,61	5,1	2,7	2,9	4
SF 63-2B	0,25	2780	0,73	66	0,74	0,96	5,3	2,4	2,4	5
SF 71-2A	0,37	2800	1,0	70	0,75	1,26	5,3	2,3	2,3	6
SF 71-2B	0,55	2820	1,41	74	0,76	1,88	5,6	2,3	2,4	7
SF 80-2A	0,75	2820	1,78	76	0,80	2,54	5,7	2,3	2,4	8,5
SF 80-2B	1,1	2820	2,4	79	0,82	3,72	5,7	2,3	2,35	10
SF 90 S-2	1,5	2840	3,34	78	0,83	5,04	5,5	2,4	2,3	11
SF 90 L-2	2,2	2840	4,84	80	0,82	7,4	5,5	2,35	2,4	14
SF 100 L-2	3	2860	6,2	82	0,85	10	5,9	2,6	2,7	20
SF 112 M-2	4	2880	7,92	83,7	0,87	13,4	6,0	2,4	2,8	27
SF 132 S-2A	5,5	2910	10,85	85	0,86	18,05	6,1	2,2	2,5	37
SF 132 M-2B	7,5	2920	14,7	86	0,86	24,5	6,2	2,1	2,4	42
SF 160 M-2A	11	2930	20,5	88	0,88	35,9	6,8	2,5	2,7	79
SF 160 M-2B	15	2930	27,3	89	0,89	48,9	6,9	2,4	2,6	86
SF 160 L-2	18,5	2940	32,8	89,5	0,91	60,1	6,9	2,5	2,8	97

1500 min¹ (4 poles)

Type frame size	Rated output kW	Rated speed min ¹	Rated current I _N at 400 V (A)	Efficiency η [%]	Power factor cos φ	Torque T _N (Nm)	Starting current/rated current I _L /I _N	Starting torque/rated torque T _L /T _N	$\frac{T_{Max}}{T_N}$	Motor weight kg
				IE1						
SF 56-4B	0,09	1380	0,37	58	0,61	0,6	2,9	2,2	2,3	3,5
SF 63-4A	0,12	1380	0,48	58	0,62	0,8	3	2,3	2,5	5
SF 63-4B	0,18	1380	0,66	61	0,64	1,23	3,2	2,1	2	4
SF 71-4A	0,25	1400	0,82	67	0,66	1,72	3,8	2,3	2,3	6
SF 71-4B	0,37	1400	1,1	70	0,70	2,58	4	2,0	2,1	6
SF 80-4A	0,55	1420	1,59	71,4	0,70	3,74	4,2	2,1	2,3	8
SF 80-4B	0,75	1420	2,03	72,2	0,74	5,1	4,2	2,1	2,4	9
SF 90 S-4	1,1	1400	2,75	75	0,77	7,5	4,3	2,2	2,4	12
SF 90 L-4	1,5	1410	3,64	77,3	0,77	10,23	4,4	2,2	2,4	14
SF 100 L-4A	2,2	1420	5,1	79,7	0,79	14,8	4,6	2,3	2,4	19
SF 100 L-4B	3	1420	6,64	81,6	0,80	20,2	4,6	2,4	2,4	21
SF 112 M-4	4	1430	8,48	83,1	0,82	26,7	5,5	2,5	2,5	29
SF 132 S-4	5,5	1430	11,2	84,8	0,84	36,52	6,0	2,5	2,8	42
SF 132 M-4	7,5	1450	14,7	86,2	0,86	49,6	6,1	2,4	2,6	50
SF 160 M-4	11	1460	21,6	87,7	0,86	71,9	6,2	2,2	2,5	76
SF 160 L-4	15	1460	28,2	88,8	0,87	98,1	6,3	2,2	2,6	96

THREE – PHASE MOTORS DESIGNED IN STANDARD

PN-EN 60034-1

for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz

IEC 60034-1

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

CE mark

1000 min ¹ (6 poles)										
Type frame size	Rated output kW	Rated speed min ¹	Rated current I _N at 400 V (A)	Efficiency η [%] IE1	Power factor cos φ	Torque T _N (Nm)	Starting current/rated current I _L /I _N	Starting torque/rated torque T _L /T _N	$\frac{T_{Max}}{T_N}$	Motor weight kg
SF 63-6A	0,09	870	0,47	45	0,61	1,0	2,1	1,7	1,8	4
SF 71-6A	0,18	900	0,71	57	0,64	1,9	2,8	1,8	1,9	5,5
SF 71-6B	0,25	900	0,92	59	0,66	2,65	2,8	1,9	1,8	6
SF 80-6A	0,37	920	1,22	65	0,68	3,89	3,0	2,1	2,0	8,5
SF 80-6B	0,55	920	1,65	68	0,71	5,78	3,1	2,4	2,5	10,5
SF 90 S-6	0,75	910	2,15	70	0,72	7,87	3,2	2,1	2,1	11,5
SF 90 L-6	1,1	920	3,0	73	0,73	11,5	3,7	2,1	2,2	14
SF 100 L-6	1,5	930	3,9	75,2	0,74	15,35	4,2	2,2	2,3	20,5
SF 112 M-6	2,2	940	5,37	77,8	0,76	22,37	4,5	2,2	2,5	29,5
SF 132 S-6	3	950	6,94	80	0,78	30,2	4,7	2,2	2,5	41
SF 132 M-6A	4	950	8,85	81,5	0,80	40,3	4,9	2,1	2,4	47
SF 132 M-6B	5,5	950	11,52	83,1	0,83	55,4	4,9	2,1	2,4	54
SF 160 M-6	7,5	950	14,84	84,8	0,86	75,1	5,7	2,3	2,7	79
SF 160 L-6	11	950	20,58	86,7	0,89	110,6	6	2,2	2,5	98
750 min ¹ (8 poles)										
Type frame size	Rated output kW	Rated speed min ¹	Rated current I _N at 400 V (A)	Efficiency η [%] IE1	Power factor cos φ	Torque T _N (Nm)	Starting current/rated current I _L /I _N	Starting torque/rated torque T _L /T _N	$\frac{T_{Max}}{T_N}$	Motor weight kg
SF 71-8B	0,12	660	0,68	46	0,56	1,7	2,2	2,3	1,9	6,5
SF 80-8A	0,18	680	0,85	52	0,59	2,5	2,6	2,3	2	7
SF 80-8B	0,25	690	1	61	0,61	3,5	2,6	2,1	2	8,5
SF 90 S-8	0,37	690	1,33	64	0,63	5,15	3,1	2	2	12
SF 90 L-8	0,55	690	1,9	67	0,63	7,7	3,4	1,8	1,9	13,5
SF 100 L-8A	0,75	690	2,46	69	0,64	10,4	3,5	1,9	2	18
SF 100 L-8B	1,1	700	3,39	71	0,66	15,0	3,5	1,9	2	20
SF 112 M-8	1,5	710	4,43	73	0,67	20,2	3,8	2,1	2,2	29
SF 132 S-8	2,2	710	5,9	78	0,70	29,6	4,6	1,9	2,2	43
SF 132 M-8	3	710	7,75	79	0,71	40,4	5	1,9	2,3	48
SF 160 M-8A	4	710	9,52	81	0,75	53,8	5	2	2,2	74
SF 160 M-8B	5,5	720	12,7	83	0,76	73,0	5,1	2,1	2,2	80
SF 160 L-8	7,5	710	16,5	85	0,78	100,9	5,1	1,1	2,3	99

THREE – PHASE MOTORS DESIGNED TO HIGH EFFICIENCY PN-EN 60034-1

for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN 60034-30

IEC 60034-1, IEC 60034-30

CE mark

3000 min⁻¹ (2 poles)

Type frame size	Rated output [kW]	Rated speed [min ⁻¹]	Rated current I _N at 400 V [A]	Efficiency η [%] IE2	Power factor cos φ	Torque T _N [Nm]	Starting current/rated current I _L /I _N	Starting torque/rated torque T _L /T _N	$\frac{T_{Max}}{T_N}$	Motor weight [kg]
SHF 80-2A	0,75	2860	1,77	78,4	0,78	2,50	6,2	2,9	3,0	8,6
SHF 80-2B	1,1	2850	2,46	80,6	0,80	3,69	6,1	2,3	3,1	9,8
SHF 90 S-2	1,5	2870	3,09	82,3	0,85	4,99	6,5	2,4	3,2	13,3
SHF 90 L-2	2,2	2870	4,35	83,9	0,87	7,32	6,5	2,6	3,4	14,2
SHF 100 L-2	3	2880	6,02	85,6	0,87	9,95	6,8	2,7	3,4	20
SHF 112 M-2	4	2880	7,48	86,7	0,89	13,26	6,9	2,8	3,2	27
SHF 132 S-2A	5,5	2910	9,96	87,6	0,91	18,05	7,1	3,6	3,8	37,4
SHF 132 M-2B	7,5	2910	13,38	88,9	0,91	24,61	7,2	3,4	3,5	42
SHF 160 M-2A	11	2930	19,30	90,4	0,91	35,85	6,8	2,3	2,6	79
SHF 160 M-2B	15	2930	26,20	90,8	0,91	48,89	6,9	2,4	2,6	86
SHF 160 L-2	18,5	2940	31,65	91,7	0,92	60,09	6,9	2,5	2,8	97

1500 min⁻¹ (4 poles)

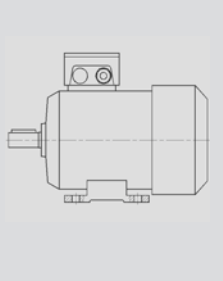
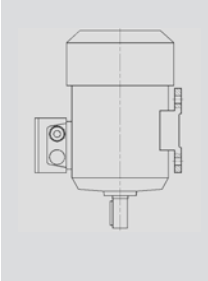
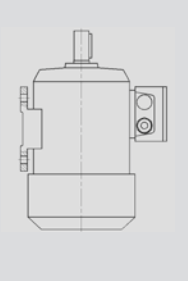
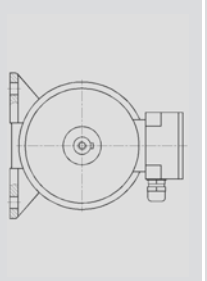
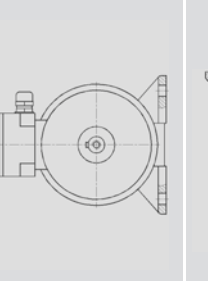
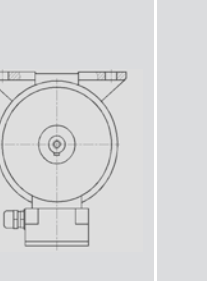
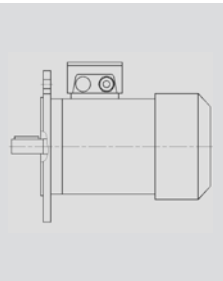
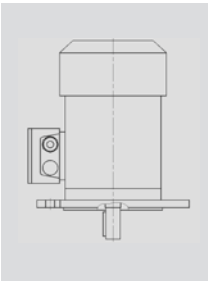
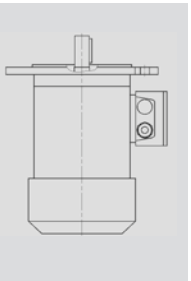
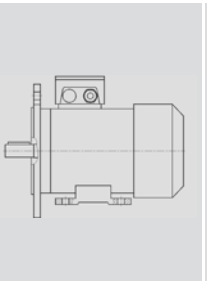
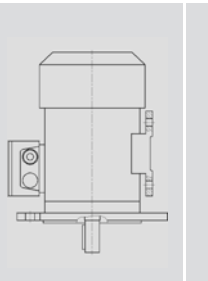
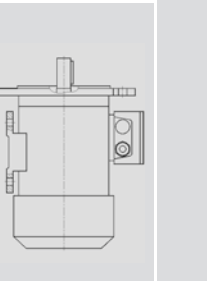
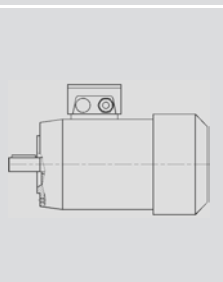
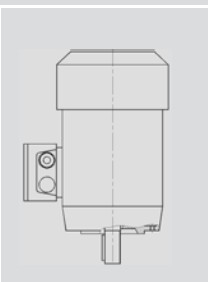
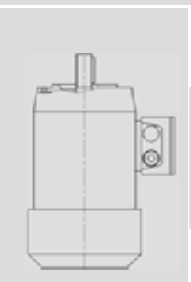
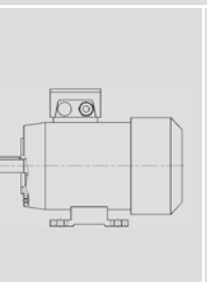
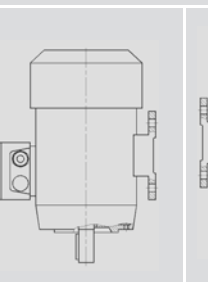
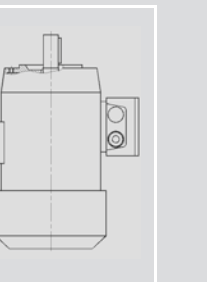
Type frame size	Rated output [kW]	Rated speed [min ⁻¹]	Rated current I _N at 400 V [A]	Efficiency η [%] IE2	Power factor cos φ	Torque T _N [Nm]	Starting current/rated current I _L /I _N	Starting torque/rated torque T _L /T _N	$\frac{T_{Max}}{T_N}$	Motor weight [kg]
SHF 80-4B	0,75	1430	1,73	80,6	0,76	5	4,2	3,6	3,46	9
SHF 90 S-4	1,1	1423	2,54	84	0,75	7,4	4,3	3,2	3,3	12
SHF 90 L-4	1,5	1428	3,47	84,3	0,74	10,04	4,4	3,6	3,4	14
SHF 100 L-4A	2,2	1428	4,90	86,0	0,74	14,7	4,6	4,3	4,2	19
SHF 100 L-4B	3	1438	6,5	86,0	0,74	20,0	4,6	3,7	3,8	21
SHF 112 M-4	4	1450	8,20	89,5	0,79	26,36	5,5	3,5	3,6	29
SHF 132 S-4	5,5	1460	11,1	90,6	0,79	35,97	6,0	3,73	3,75	42
SHF 132 M-4	7,5	1460	15,00	90,6	0,80	48,8	6,1	3,48	3,5	50
SHF 160 M-4	11	1460	21,5	92,4	0,81	71,9	6,2	3	2,4	76
SHF 160 L-4	15	1460	28,95	91,8	0,82	98,1	6,3	3,3	3,6	96

1000 min⁻¹ (6 poles)

Type frame size	Rated output [kW]	Rated speed [min ⁻¹]	Rated current I _N at 400 V [A]	Efficiency η [%] IE2	Power factor cos φ	Torque T _N [Nm]	Starting current/rated current I _L /I _N	Starting torque/rated torque T _L /T _N	$\frac{T_{Max}}{T_N}$	Motor weight [kg]
SHF 90 S-6	0,75	920	2,13	76,0	0,67	7,78	3,2	2,1	2,1	11,5
SHF 90 L-6	1,1	920	2,94	78,3	0,69	11,42	3,6	2,0	2,1	14
SHF 100 L-6	1,5	950	3,92	80,0	0,71	15,00	4,0	1,9	2,3	20,5
SHF 112 M-6	2,2	940	5,23	82,0	0,74	22,35	4,5	2,2	2,5	29,5
SHF 132 S-6	3	950	6,87	84	0,75	30,16	4,7	2,2	2,5	41
SHF 132 M-6A	4	950	8,67	85,4	0,78	40,21	4,9	2,1	2,4	47
SHF 132 M-6B	5,5	950	11,83	86,0	0,78	55,3	4,9	2,1	2,4	54
SHF 160 M-6	7,5	970	15,62	87,7	0,79	73,85	5,4	2,3	2,7	79
SHF 160 L-6	11	970	22,50	89,3	0,79	108,3	6	2,3	2,5	98

MECHANICAL DESIGN - MOUNTING ARRANGEMENTS

Mounting arrangements for rotating electrical machines are designated according to PN-IEC 34-7, IEC 60034-7. Depending on design of and frame size of motors.

B3						
	B3	V5	V6	B6	B7	B8
B5						
B35	B5	V1	V3	B35	V15	V36
B14						
B34	B14	V18	V19	B34	V184	V194

THREE – PHASE MOTORS DESIGNED

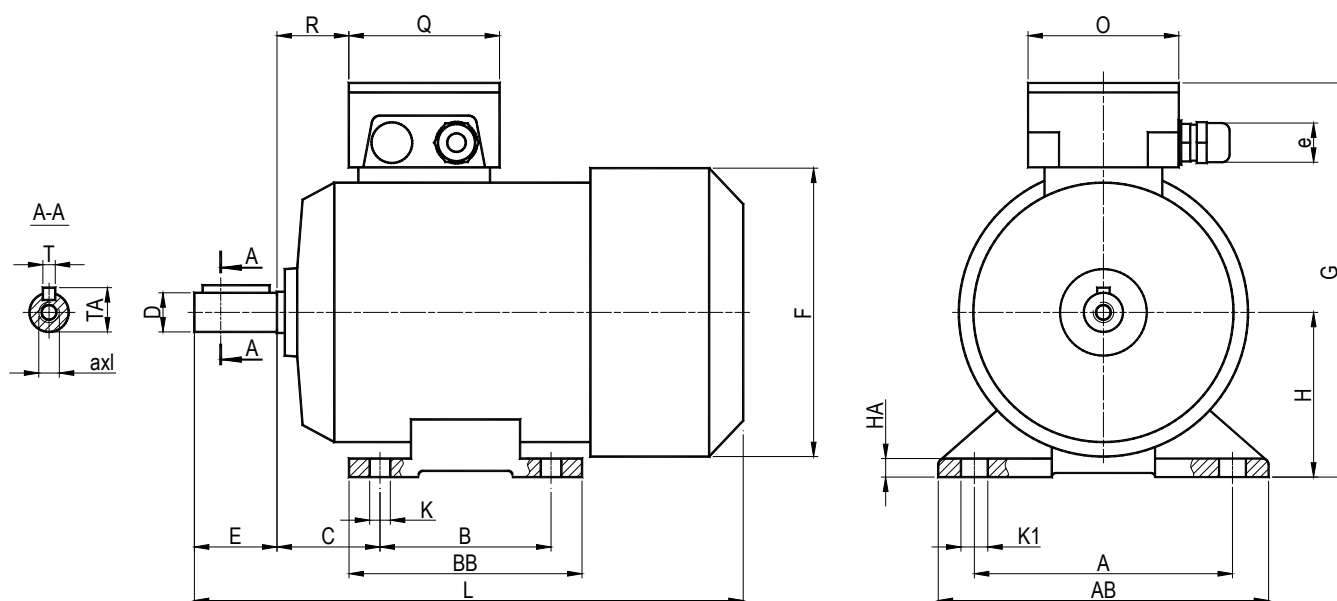
for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz
degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN 60034-1

IEC 60034-1

CE mark

Construction form B3



type	dimension [mm]																shaft				
	A	B	C	F	G	H	K	K1	L	O	Q	R	BB	AB	HA	e	D	axl	E	T [h9]	TA
SF 56 A/B	90	71	36	110	141	56	6	8	187	75	80	25	90	107	7	PG11	9 j6	M4x10	20	3	10
SF 63 A/B	100	80	40	125	154	63	7	10	205	75	80	28	100	120	7	PG11	11 j6	M4x10	23	4	12
SF 71 A/B	112	90	45	141	172	71	7	11	244	75	80	35	112	135	8	PG13,5	14 j6	M5x15	30	5	16
SF 80 A/B	125	100	50	159	195	80	9	13	275	88	88	35	125	153	12	PG13,5	19 j6	M6x15	40	6	21
SF 90S	140	100	56	176	210	90	10	13	305	88	88	41	130	170	13	PG13,5	24 j6	M8x20	50	8	27
SF 90L	140	125	56	176	210	90	10	13	330	88	88	41	155	170	13	PG13,5	24 j6	M8x20	50	8	27
SF 100L	160	140	63	193	235	100	12	17	368	88	88	52	170	192	14	PG16	28 j6	M10x25	60	8	31
SF 112M	190	140	70	220	263	112	13	17	388	112	112	49	182	220	14	PG16	28 j6	M10x25	60	8	31
SF 132S	216	140	89	260	310	132	11	20	463	112	112	55	181	260	16	PG21	38 k6	M12x30	80	10	41
SF 132M	216	178	89	260	310	132	11	20	500	112	112	55	219	260	16	PG21	38 k6	M12x30	80	10	41
SF 160M	254	210	108	309	383	160	14	23	605	150	150	75	261	319	20	PG21	42 k6	M16x35	110	12	45
SF 160L	254	254	108	309	383	160	14	23	650	150	150	75	305	319	20	PG21	42 k6	M16x35	110	12	45

THREE – PHASE MOTORS DESIGNED

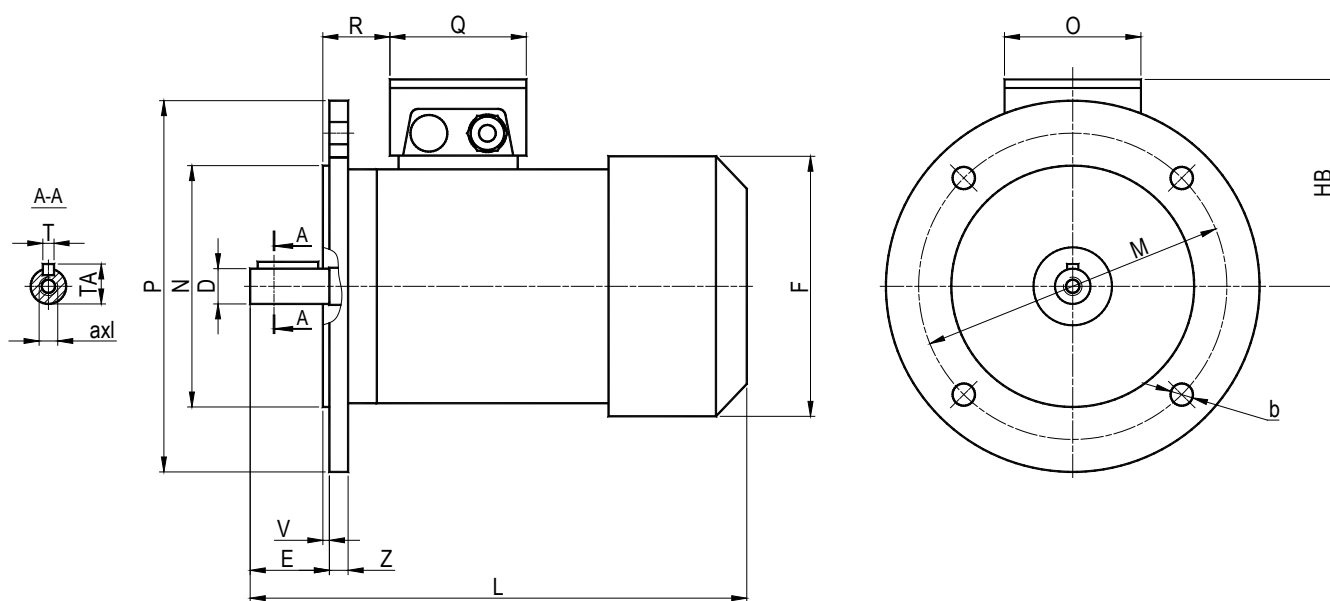
for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz
degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN 60034-1

IEC 60034-1

CE mark

Construction form B5



type	dimension [mm]												shaft				
	F	HB	L	M	N	O	P	Q	R	V	Z	b	D	a x l	E	T [h9]	TA
SKF 56 A/B	110	85	187	100	80	75	120	80	25	3	8,5	7	9 j6	M4x10	20	3	10
SKF 63 A/B	125	91	205	115	95	75	140	80	28	3	8	9	11 j6	M4x10	23	4	12
SKF 71 A/B	141	101	244	130	110	75	160	80	35	3,5	8	9,5	14 j6	M5x15	30	5	16
SKF 80 A/B	159	115	275	165	130	88	200	88	35	3,5	8,5	11,5	19 j6	M6x15	40	6	21
SKF 90S	176	120	305	165	130	88	200	88	41	3,5	10	11,5	24 j6	M8x20	50	8	27
SKF 90L	176	120	330	165	130	88	200	88	41	3,5	10	11,5	24 j6	M8x20	50	8	27
SKF 100L	193	135	368	215	180	88	250	88	52	4	11	14	28 j6	M10x25	60	8	31
SKF 112M	220	151	388	215	180	112	250	112	49	4	12	14	28 j6	M10x25	60	8	31
SKF 132S	260	178	463	265	230	112	300	112	55	4	15	14	38 k6	M12x30	80	10	41
SKF 132M	260	178	500	265	230	112	300	112	55	4	15	14	38 k6	M12x30	80	10	41
SKF 160M	309	223	605	300	250	150	350	150	75	5	14	18	42 k6	M16x35	110	12	45
SKF 160L	309	223	650	300	250	150	350	150	75	5	14	18	42 k6	M16x35	110	12	45

THREE – PHASE MOTORS DESIGNED

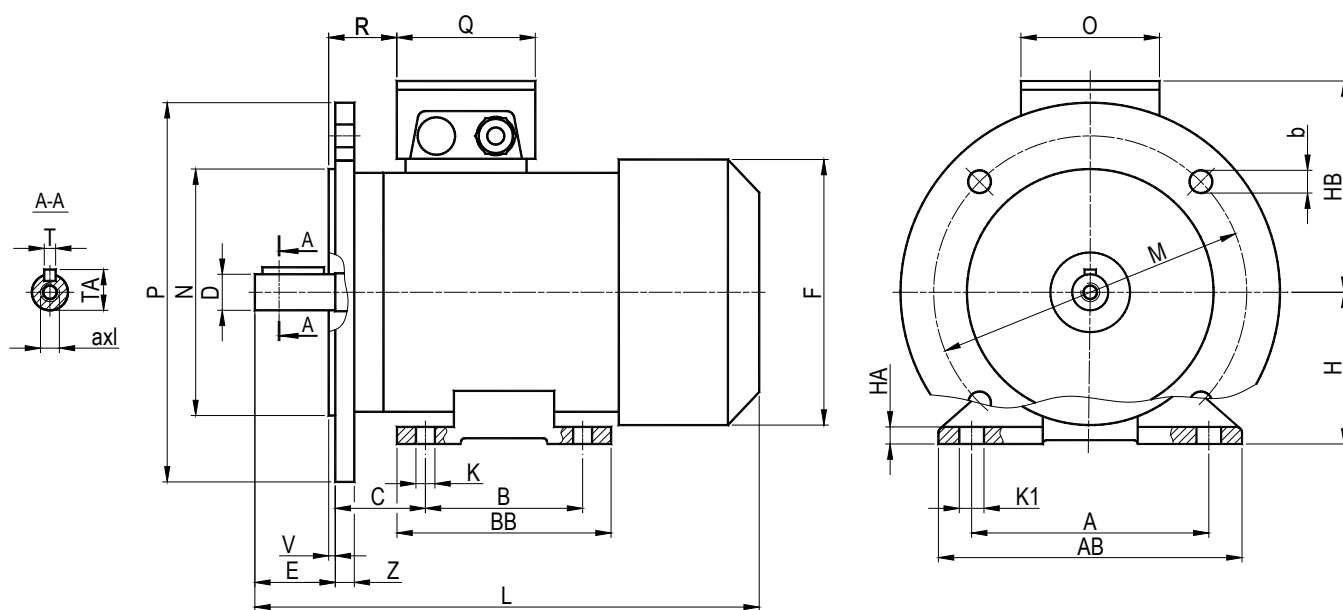
for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz
degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN 60034-1

IEC 60034-1

CE mark

Construction form B35



type	dimension [mm]																					shaft				
	A	B	C	F	HB	H	K	K1	L	M	N	O	P	Q	R	BB	AB	V	HA	Z	b	D	a x l	E	T [h9]	TA
SLKF 56 A/B	90	71	36	110	85	56	6	8	187	100	80	75	120	80	25	90	107	3	7	8,5	7	9 j6	M4x10	20	3	10
SLKF 63 A/B	100	80	40	125	91	63	7	10	205	115	95	75	140	80	28	100	120	3	7	8	9	11 j6	M4x10	23	4	12
SLKF 71 A/B	112	90	45	141	101	71	7	11	244	130	110	75	160	80	35	112	135	3,5	8	8	9,5	14 j6	M5x15	30	5	16
SLKF 80 A/B	125	100	50	159	115	80	9	13	275	165	130	88	200	88	35	125	153	3,5	12	8,5	11,5	19 j6	M6x15	40	6	21
SLKF 90S	140	100	56	176	120	90	10	13	305	165	130	88	200	88	41	130	170	3,5	13	10	11,5	24 j6	M8x20	50	8	27
SLKF 90L	140	125	56	176	120	90	10	13	330	165	130	88	200	88	41	155	170	3,5	13	10	11,5	24 j6	M8x20	50	8	27
SLKF 100L	160	140	63	193	135	100	12	17	368	215	180	88	250	88	52	170	192	4	14	11	14	28 j6	M10x25	60	8	31
SLKF 112M	190	140	70	220	151	112	13	17	388	215	180	112	250	112	49	182	220	4	14	12	14	28 j6	M10x25	60	8	31
SLKF 132S	216	140	89	260	178	132	11	20	463	265	230	112	300	112	55	181	260	4	16	15	14	38 k6	M12x30	80	10	41
SLKF 132M	216	178	89	260	178	132	11	20	500	265	230	112	300	112	55	219	260	4	16	15	14	38 k6	M12x30	80	10	41
SLKF 160M	254	210	108	309	223	160	14	23	605	300	250	150	350	150	75	261	319	5	20	14	18	42 k6	M16X35	110	12	45
SLKF 160L	254	254	108	309	223	160	14	23	650	300	250	150	350	150	75	305	319	5	20	14	18	42 k6	M16X35	110	12	45

THREE – PHASE MOTORS DESIGNED

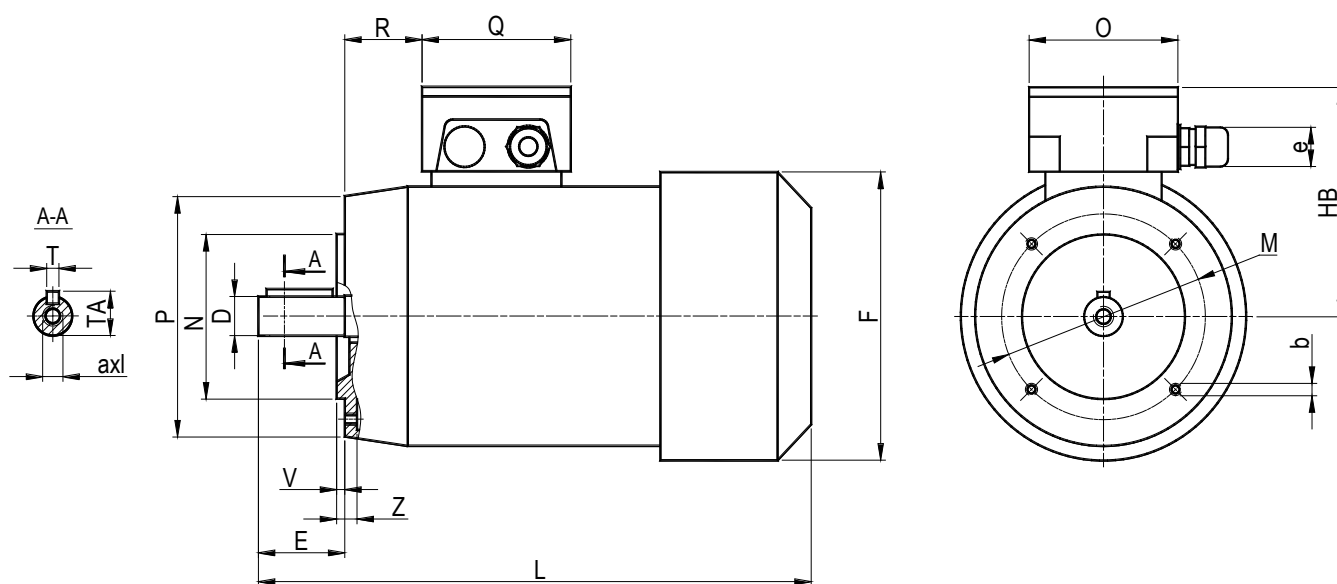
for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz
degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN 60034-1

IEC 60034-1

CE mark

Construction form B14



type	dimension [mm]													shaft				
	F	HB	L	M	N	O	P	Q	R	V	Z	b	e	D	a x l	E	T [h9]	TA
SKF 56 A/B	110	85	187	65	50	75	80	80	25	2	6	M5	PG11	9 j6	M4x10	20	3	10
SKF 63 A/B	125	91	205	75	60	75	90	80	28	2	6	M5	PG11	11 j6	M4x10	23	4	12
SKF 71 A/B	141	101	244	85	70	75	105	80	35	2	8	M6	PG13,5	14 j6	M5x15	30	5	16
SKF 80 A/B	159	115	275	100	80	88	120	88	35	3	12	M6	PG13,5	19 j6	M6x15	40	6	21
SKF 90S	176	120	305	115	95	88	140	88	41	3	10	M8	PG13,5	24 j6	M8x20	50	8	27
SKF 90L	176	120	330	115	95	88	140	88	41	3	10	M8	PG13,5	24 j6	M8x20	50	8	27
SKF 100L	193	135	368	130	110	88	160	88	52	3	10	M8	PG16	28 j6	M10x25	60	8	31
SKF 112M	220	151	388	130	110	112	160	112	49	3	13	M8	PG16	28 j6	M10x25	60	8	31
SKF 132S	260	178	463	165	130	112	200	112	55	3	15	M10	PG21	38 k6	M12x30	80	10	41
SKF 132M	260	178	500	165	130	112	200	112	55	3	15	M10	PG21	38 k6	M12x30	80	10	41

THREE – PHASE MOTORS DESIGNED

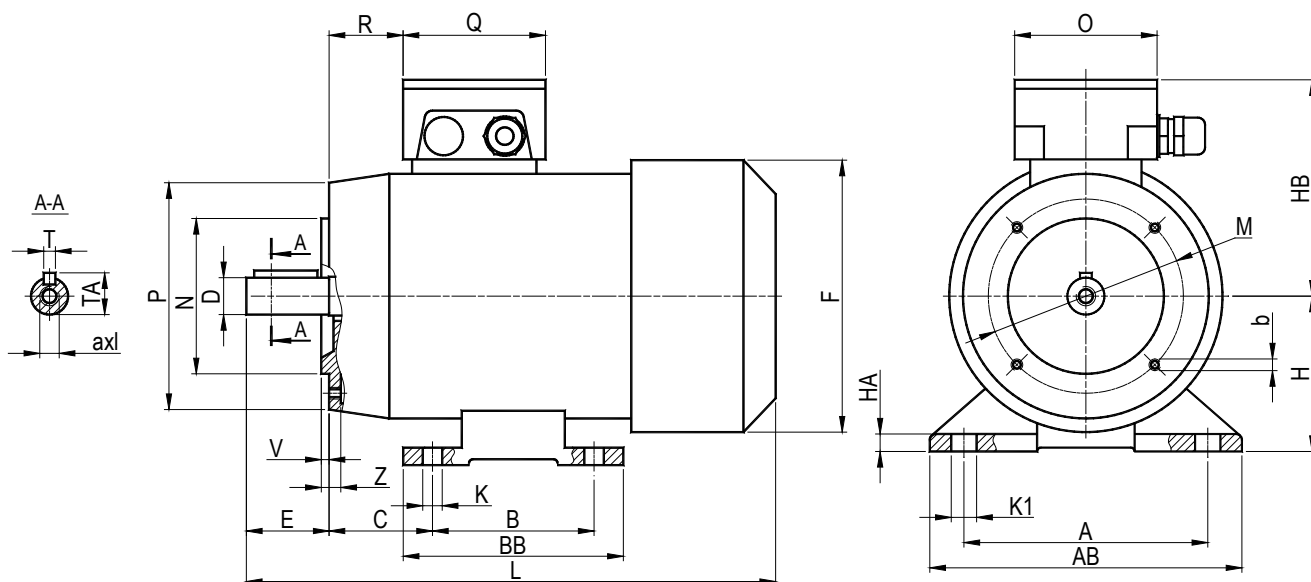
for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz
degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN 60034-1

IEC 60034-1

CE mark

Construction form B34



type	dimension [mm]																				shaft					
	A	B	C	F	HB	H	K	K1	L	M	N	O	P	Q	R	BB	AB	V	HA	Z	b	D	a x l	E	T [h9]	TA
SLKF 56 A/B	90	71	36	110	85	56	6	8	187	65	50	75	80	80	25	90	107	2	7	6	M5	9 j6	M4x10	20	3	10
SLKF 63 A/B	100	80	40	125	91	63	7	10	205	75	60	75	90	80	28	100	120	2	7	6	M5	11 j6	M4x10	23	4	12
SLKF 71 A/B	112	90	45	141	101	71	7	11	244	85	70	75	105	80	35	112	135	2	8	8	M6	14 j6	M5x15	30	5	16
SLKF 80 A/B	125	100	50	159	115	80	9	13	275	100	80	88	120	88	35	125	153	3	12	12	M6	19 j6	M6x15	40	6	21
SLKF 90S	140	100	56	176	120	90	10	13	305	115	95	88	140	88	41	130	170	3	13	10	M8	24 j6	M8x20	50	8	27
SLKF 90L	140	125	56	176	120	90	10	13	330	115	95	88	140	88	41	155	170	3	13	10	M8	24 j6	M8x20	50	8	27
SLKF 100L	160	140	63	193	135	100	12	17	368	130	110	88	160	88	52	170	192	3	14	10	M8	28 j6	M10x25	60	8	31
SLKF 112M	190	140	70	220	151	112	13	17	388	130	110	112	160	112	49	182	220	3	14	13	M8	28 j6	M10x25	60	8	31
SLKF 132S	216	140	89	260	178	132	11	20	463	165	130	112	200	112	55	181	260	3	16	15	M10	38 k6	M12x30	80	10	41
SLKF 132M	216	178	89	260	178	132	11	20	500	165	130	112	200	112	55	219	260	3	16	15	M10	38 k6	M12x30	80	10	41

THREE – PHASE BUILT-IN INDUCTION MOTORS

for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN 60034-1

IEC 60034-1

CE mark

STANDARD IE1

Type	Rated output [kW]	Rated speed [min-1]	Starting torque/ rated torque Tr/Tn	Starting current/ rated current Ir/In
SWF 56-2B	0,12	2790	2,7	4,6
SWF 56-4B	0,09	1380	2,2	2,9
SWF 63-2A	0,18	2800	2,7	5,1
SWF 63-2B	0,25	2780	2,4	5,3
SWF 63-4A	0,12	1380	2,3	3,0
SWF 63-4B	0,18	1380	2,1	3,2
SWF 71-2A	0,37	2800	2,3	5,3
SWF 71-2B	0,55	2820	2,3	5,6
SWF 71-4A	0,25	1400	2,3	3,8
SWF 71-4B	0,37	1400	2,0	4,0
SWF 80-2A	0,75	2820	2,3	5,7
SWF 80-2B	1,1	2820	2,3	5,7
SWF 80-4A	0,55	1420	2,1	4,2
SWF 80-4B	0,75	1420	2,1	4,2
SWF 90 S-2	1,5	2840	2,4	5,5
SWF 90 L-2	2,2	2840	2,4	5,5
SWF 90 S-4	1,1	1400	2,2	4,3
SWF 90 L-4	1,5	1410	2,2	4,4
SWF 100 L-2	3	2860	2,6	5,9
SWF 100 L-4A	2,2	1420	2,3	4,6
SWF 100 L-4B	3	1420	2,4	4,6
SWF 112 M-2	4	2880	2,4	6,0
SWF 112 M-4	4	1430	2,5	5,5
SWF 132 S-2A	5,5	2910	2,2	6,1
SWF 132 M-	7,5	2920	2,1	6,2
SWF 132 S-4	5,5	1430	2,5	6,0
SWF 132 M-4	7,5	1450	2,4	6,1
SWF 160 M-	11	2930	2,5	6,8
SWF 160 M-	15	2930	2,4	6,9
SWF 160 L-2	18,5	2940	2,5	6,9
SWF 160 M-4	11	1460	2,2	6,2
SWF 160 L-4	15	1460	2,2	6,3

HIGH EFFICIENCY IE2

Type	Rated output [kW]	Rated speed [min-1]	Starting torque/ rated torque Tr/Tn	Starting current/ rated current Ir/In
SWHF 80-2A	0,75	2860	2,9	6,2
SWHF 80-2B	1,1	2850	2,3	6,1
SWHF 80-4B	0,75	1430	3,6	4,2
SWHF 90 S-2	1,5	2870	2,4	6,5
SWHF 90 L-2	2,2	2870	2,6	6,5
SWHF 90 S-4	1,1	1423	3,2	4,3
SWHF 90 L-4	1,5	1428	3,6	4,4
SWHF 100 L-2	3	2880	2,7	6,8
SWHF 100 L-4A	2,2	1428	4,3	4,6
SWHF 100 L-4B	3	1438	3,7	4,6
SWHF 112 M-2	4	2880	2,8	6,9
SWHF 112 M-4	4	1450	3,5	5,5
SWHF 132 S-2A	5,5	2910	3,6	7,1
SWHF 132 M-2B	7,5	2910	3,4	7,2
SWHF 132 S-4	5,5	1460	3,7	6,0
SWHF 132 M-4	7,5	1460	3,5	6,1
SWHF 160 M-2A	11	2930	2,3	6,8
SWHF 160 M-2B	15	2930	2,4	6,9
SWHF 160 L-2	18,5	2940	2,5	6,9
SWHF 160 M-4	11	1460	3,0	6,2
SWHF 160 L-4	15	1460	3,3	6,3

THREE – PHASE BUILT-IN INDUCTION MOTORS

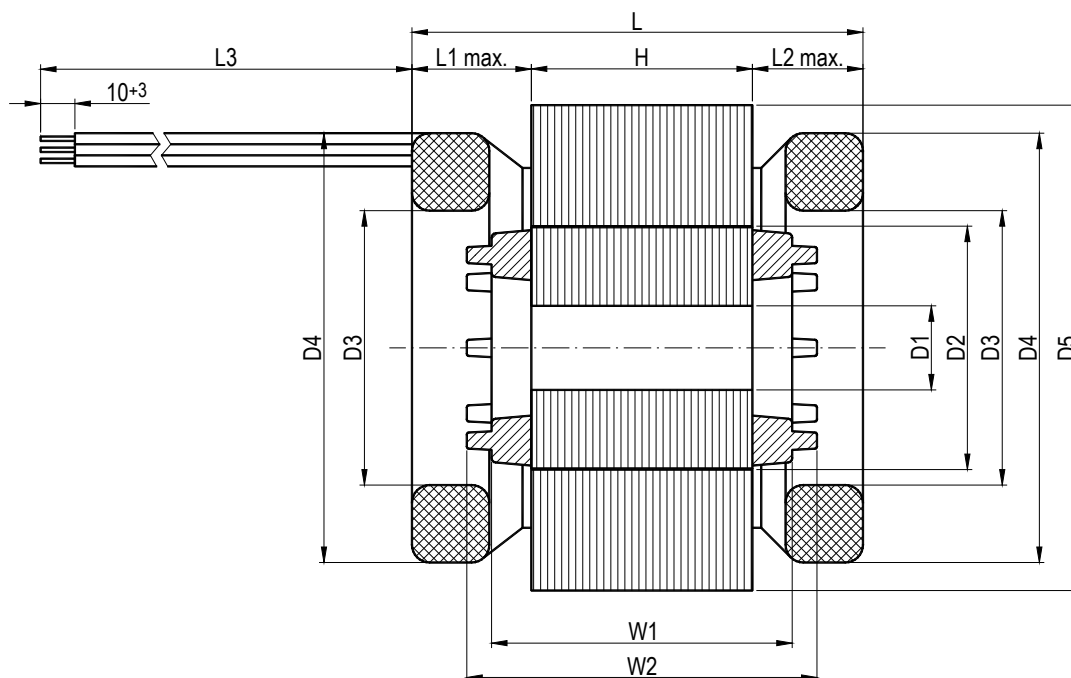
for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN 60034-1

IEC 60034-1

CE mark



Typ	Dimension (mm)											
	L	L1 max	L2 max	L3	H	D1	D2	D3	D4	D5	W1	W2
SWHF 80-2A	130	30	30	150	70	25	65	72	112	125	90	---
SWHF 80-2B	150				90		80	86			120	---
SWHF 80-4B	150				80		80	86			120	137
SWHF 90 S-2	172	37	35	150	90	30	70	75	122	135	136	---
SWHF 90 L-2	212				120		80	88			176	---
SWHF 90 S-4	176				100		80	88			141	157
SWHF 90 L-4	206	33	33		120		80	88	123		171	187
SWHF 100 L-2	202	42	40	200	100	36	80	90	135	152	151	167
SWHF 100 L-4A	202	37	35		120		90	98			160	---
SWHF 100 L-4B	227				135		90	98			185	---
SWHF 112 M-2	217	45	42	200	120	38	90	100	160	173	160	---
SWHF 112 M-4	235	45	40		150		103	110			177	193
SWHF 132 S-2A	234	52	52	200	110	50	110	120	180	200	158	190
SWHF 132 M-2B	274				150		125	135			198	230
SWHF 132 S-4	275				50		50	150			125	135
SWHF 132 M-4	290	170	125					135			219	247
SWHF 160 M-2A	287	57	55	200	155	55	135	145	220	240	210	246
SWHF 160 M-2B	352				210						275	311
SWHF 160 L-2	392				250						315	351
SWHF 160 M-4	298	55	53		160		150	160			226	252
SWHF 160 L-4	358			220	286	312						

THREE – PHASE BUILT-IN INDUCTION MOTORS

PN-EN 60034-1

for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz

IEC 60034-1

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

CE mark

Typ	Dimension (mm)												
	L	L1 max	L2 max	L3	H	D1	D2	D3	D4	D5	W1	W2	
SWF 56-2B	95	23	22	120	50	16	40	45	75	80	66	---	
SWF 56-4B	104	22			60	15	45	50			80	---	
SWF 63-2A	95	23	22	150	50	15	47	52	80	90	63	74	
SWF 63-2B	105				60						73	84	
SWF 63-4A	100	25	25		50		50	55			70	---	
SWF 63-4B	110				60						80	---	
SWF 71-2A	102	27	25	150	50	19	55	62	97	110	68	79	
SWF 71-2B	112				60						78	89	
SWF 71-4A	102				50		66	72			100	67	79
SWF 71-4B	112				60							77	89
SWF 80-2A	120	30	30	150	60	25	65	72	112	125	76	92	
SWF 80-2B	130				70						86	102	
SWF 80-4A	120				60		80	86			114	80	96
SWF 80-4B	140				80							100	116
SWF 90 S-2	142	37	35	150	70	30	70	75	122	135	90	104	
SWF 90 L-2	172				100						120	134	
SWF 90 S-4	146	33	33		80		80	88			123	100	116
SWF 90 L-4	166				100							120	136
SWF 100 L-2	172	42	40	200	90	36	80	90	135	152	107	119	
SWF 100 L-4A	162	37	35		90		90	98			116	150	
SWF 100 L-4B	192				120						146	180	
SWF 112 M-2	177	45	42	200	90	38	90	100	160	173	112	125	
SWF 112 M-4	205		40		120		103	110			147	163	
SWF 132 S-2A	194	52	52	200	90	50	110	120	180	200	118	150	
SWF 132 M-2B	224				120						148	180	
SWF 132 S-4	225	50	50		125		125	135			154	182	
SWF 132 M-4	260				160						189	217	
SWF 160 M-2A	242	57	55	200	130	55	135	145	220	240	165	201	
SWF 160 M-2B	272				160						195	231	
SWF 160 L-2	312				200						235	271	
SWF 160 M-4	268	55	53		160		150	160			196	222	
SWF 160 L-4	308				200						236	262	

SINGLE – PHASE INDUCTION MOTORS DESIGNED

PN-EN60034-1

rated voltage 230 V – 50 Hz

IEC 60034-1

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

CE mark

3000 min⁻¹ (2 poles)

Type frame size	Rated output kW	Rated speed min ⁻¹	Rated current I _N at 230 V (A)	Efficiency η [%] IE1	Power factor cos φ	Torque T _N (Nm)	Starting current/rated current I _L /I _N	Starting torque/rated torque T _L /T _N	Run Capacitor μF at 450 V	Motor weight kg
SMF 56-2B	0,12	2780	1,25	52	0,80	0,35	3,2	0,46	8	3
SMF 63-2A	0,18	2800	1,4	64	0,90	0,62	3,5	0,47	10	4
SMF 63-2B	0,25	2800	1,83	66	0,90	0,80	3,5	0,52	12,5	5
SMF 71-2A	0,37	2820	2,5	70	0,94	1,27	3,7	0,54	14	6
SMF 71-2B	0,55	2820	3,7	71	0,94	1,86	3,8	0,57	16	7
SMF 80-2A	0,75	2820	4,9	71	0,95	2,54	4,1	0,60	25	9
SMF 80-2B	1,1	2820	7,15	72	0,95	3,8	4,1	0,62	31,5	10
SMF 90 S-2	1,5	2830	9,5	73	0,96	5,19	4,3	0,65	35	14

1500 min⁻¹ (4 poles)

Type frame size	Rated output kW	Rated speed min ⁻¹	Rated current I _N at 230 V (A)	Efficiency η [%] IE1	Power factor cos φ	Torque T _N (Nm)	Starting current/rated current I _L /I _N	Starting torque/rated torque T _L /T _N	Run Capacitor μF at 450 V	Motor weight kg
SMF 56-4B	0,09	1380	0,8	55	0,90	0,64	2,1	0,58	4	3
SMF 63-4A	0,12	1400	1,1	54	0,91	0,84	2,4	0,58	8	5
SMF 63-4B	0,18	1400	1,52	56	0,93	1,61	2,9	0,6	10	5
SMF 71-4A	0,25	1410	1,95	60	0,96	1,74	3	0,62	12,5	7
SMF 71-4B	0,37	1410	2,75	61	0,96	2,57	3,1	0,60	14	7
SMF 80-4A	0,55	1420	3,95	64	0,96	3,80	3,3	0,64	16	9
SMF 80-4B	0,75	1410	5,25	65	0,96	5,22	3,5	0,62	20	10,5
SMF 90 S-4	1,1	1420	7,15	71	0,96	7,60	3,7	0,64	30	14
SMF 90 L-4	1,5	1420	9,5	73	0,97	10,36	3,8	0,63	35	15,5

1000 min⁻¹ (6 poles)

Type frame size	Rated output kW	Rated speed min ⁻¹	Rated current I _N at 230 V (A)	Efficiency η [%] IE1	Power factor cos φ	Torque T _N (Nm)	Starting current/rated current I _L /I _N	Starting torque/rated torque T _L /T _N	Run Capacitor μF at 450 V	Motor weight kg
SMF 71-6A	0,18	880	1,7	54	0,89	2,00	2,3	0,70	10	7
SMF 71-6B	0,25	890	1,97	60	0,92	2,60	2,4	0,72	12,5	8
SMF 80-6A	0,37	900	2,74	65	0,92	4,03	2,5	0,72	16	10
SMF 80-6B	0,55	900	3,95	66	0,93	5,99	2,6	0,71	20	10,5
SMF 90 S-6	0,75	910	4,97	71	0,94	7,96	2,9	0,74	25	12
SMF 90 L-6	1,1	920	7,1	72	0,95	11,67	2,8	0,72	35	17
SMF 100 L-6	1,5	940	9,3	74	0,96	15,24	2,7	0,73	50	20

SINGLE – PHASE INDUCTION MOTORS DESIGNED

rated voltage 230 V – 50 Hz

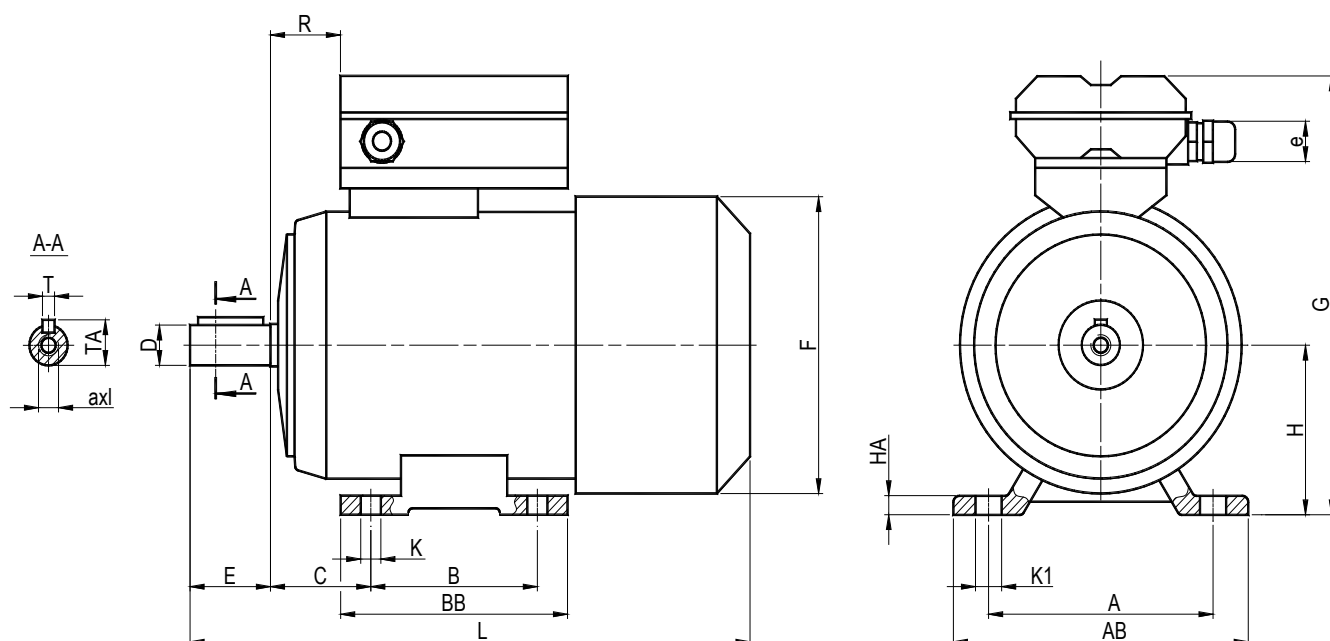
degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN60034-1

IEC 60034-1

CE mark

Construction form B3



type	dimension [mm]														shaft				
	A	B	C	F	G	H	K	K1	L	R	BB	AB	HA	e	D [j6]	a x l	E	T [h9]	TA
SMF 56 A/B	90	71	36	110	160	56	6	8	187	17	91	107	6	PG11	9 j6	M4x10	20	3	10
SMF 63 A/B	100	80	40	125	171	63	7	10	205	18	100	120	7	PG11	11 j6	M4x10	23	4	12
SMF 71 A/B	112	90	45	141	193	71	7	11	244	18	112	135	8	PG13,5	14 j6	M5x15	30	5	16
SMF 80 A/B	125	100	50	159	219	80	9	13	275	25	125	153	12	PG13,5	19 j6	M6x15	40	6	21
SMF 90S	140	100	56	176	236	90	10	13	305	32	130	170	13	PG13,5	24 j6	M8x20	50	8	27
SMF 90L	140	125	56	176	236	90	10	13	330	32	155	170	13	PG13,5	24 j6	M8x20	50	8	27
SMF 100L	160	140	63	193	260	100	12	17	368	40	170	192	14	PG16	28 j6	M10x25	60	8	31

SINGLE – PHASE INDUCTION MOTORS DESIGNED

rated voltage 230 V – 50 Hz

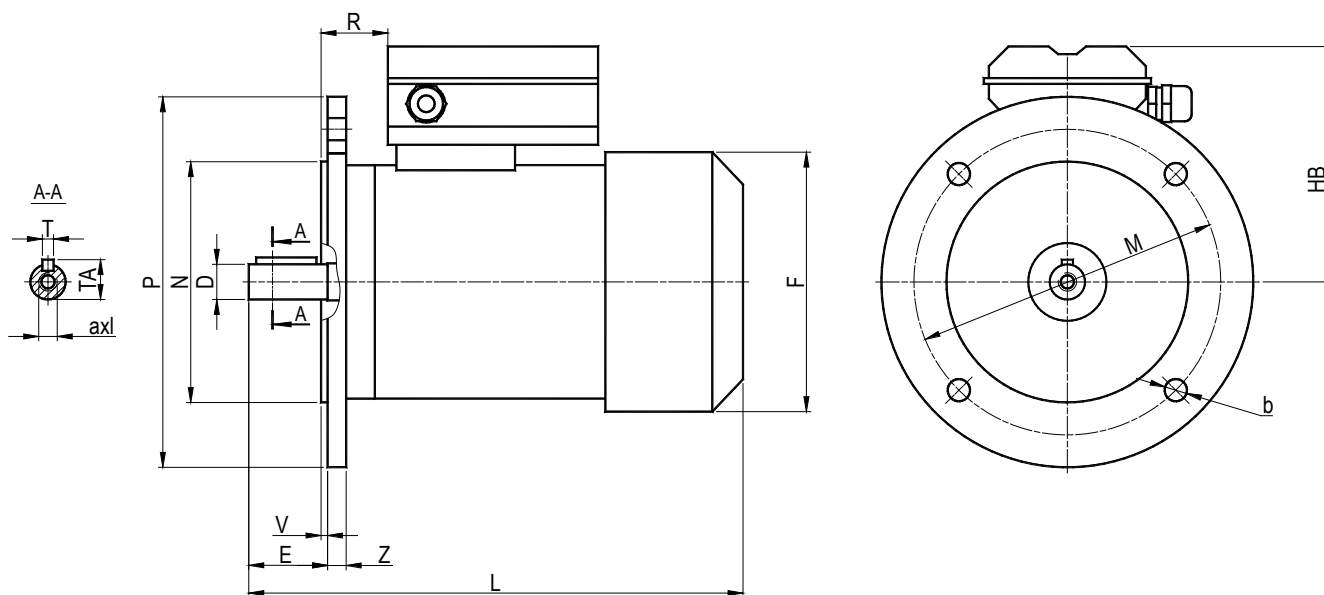
degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN60034-1

IEC 60034-1

CE mark

Construction form B5



type	dimension [mm]										shaft				
	F	HB	L	M	N	P	R	V	Z	b	D	a x l	E	T [h9]	TA
SMKF 56 A/B	110	104	187	100	80	120	17	3	8,5	7	9 j6	M4x10	20	3	10
SMKF 63 A/B	125	108	205	115	95	140	18	3	8	9	11 j6	M4x10	23	4	12
SMKF 71 A/B	141	122	244	130	110	160	18	3,5	8	9,5	14 j6	M5x15	30	5	16
SMKF 80 A/B	159	139	275	165	130	200	25	3,5	8,5	11,5	19 j6	M6x15	40	6	21
SMKF 90S	176	146	305	165	130	200	32	3,5	10	11,5	24 j6	M8x20	50	8	27
SMKF 90L	176	146	330	165	130	200	32	3,5	10	11,5	24 j6	M8x20	50	8	27
SMKF 100L	193	160	368	215	180	250	40	4	11	14	28 j6	M10x25	60	8	31

SINGLE – PHASE INDUCTION MOTORS DESIGNED

rated voltage 230 V – 50 Hz

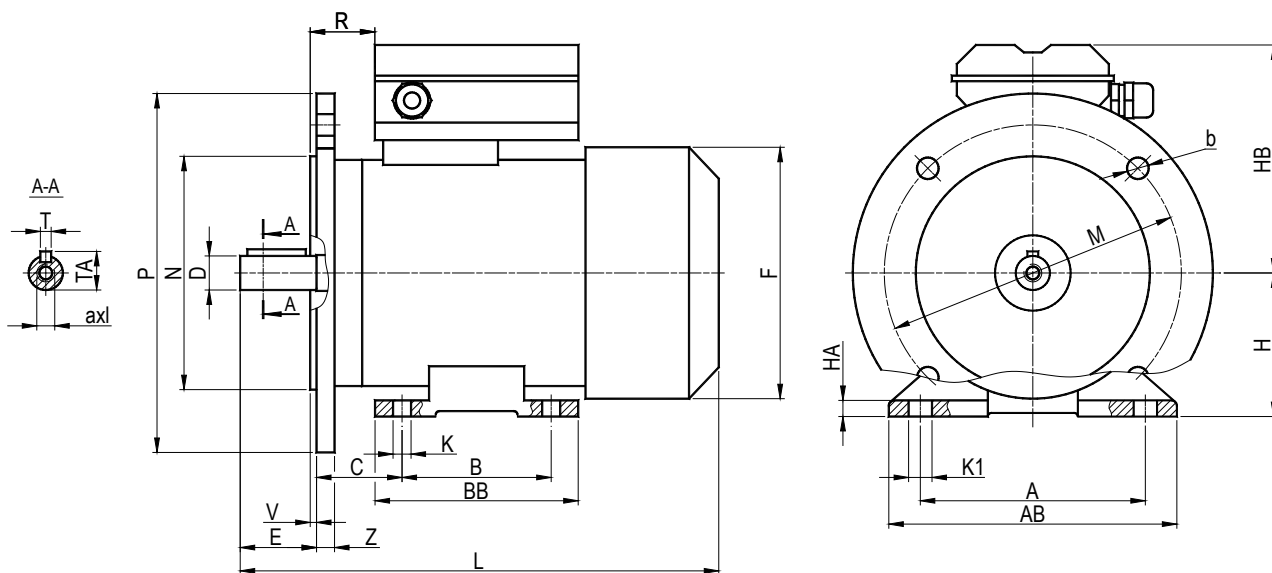
degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN60034-1

IEC 60034-1

CE mark

Construction form B35



type	dimension [mm]																				shaft				
	A	B	C	F	H	HB	K	K1	L	M	N	P	R	BB	AB	V	HA	Z	b	D	a x l	E	T [h9]	TA	
SMLKF 56 A/B	90	71	36	110	56	104	6	8	187	100	80	120	17	90	107	3	7	8,5	7	9 j6	M4x10	20	3	10	
SMLKF 63 A/B	100	80	40	125	63	108	7	10	205	115	95	140	18	100	120	3	7	8	9	11 j6	M4x10	23	4	12	
SMLKF 71 A/B	112	90	45	141	71	122	7	11	244	130	110	160	18	112	135	3,5	8	8	9,5	14 j6	M5x15	30	5	16	
SMLKF 80 A/B	125	100	50	159	80	139	9	13	275	165	130	200	25	125	153	3,5	12	8,5	11,5	19 j6	M6x15	40	6	21	
SMLKF 90S	140	100	56	176	90	146	10	13	305	165	130	200	32	130	170	3,5	13	10	11,5	24 j6	M8x20	50	8	27	
SMLKF 90L	140	125	56	176	90	146	10	13	330	165	130	200	32	155	170	3,5	13	10	11,5	24 j6	M8x20	50	8	27	
SMLKF 100L	160	140	63	193	100	160	12	17	368	215	180	250	40	170	192	4	14	11	14	28 j6	M10x25	60	8	31	

SINGLE – PHASE INDUCTION MOTORS DESIGNED

rated voltage 230 V – 50 Hz

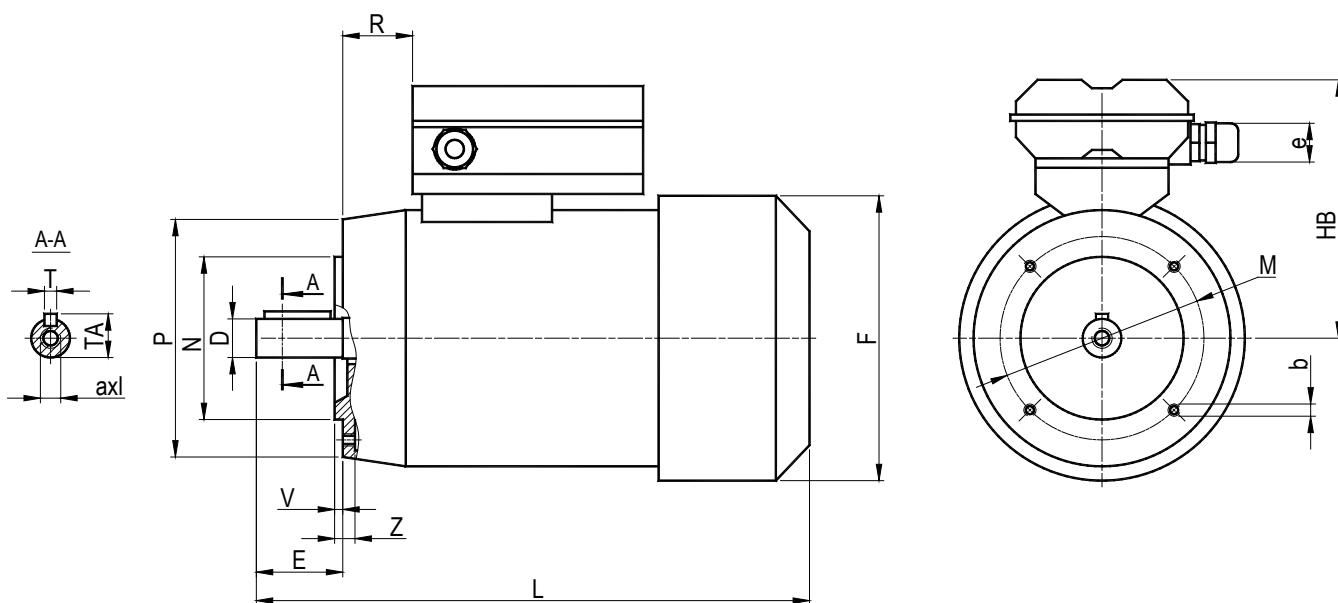
degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN60034-1

IEC 60034-1

CE mark

Construction form B14



type	dimension [mm]											shaft				
	F	HB	L	M	N	P	R	V	Z	b	e	D	axl	E	T [h9]	TA
SMKF 56 A/B	110	104	187	65	50	80	17	2	6	M5	PG11	9 j6	M4x10	20	3	10
SMKF 63 A/B	125	108	205	75	60	90	18	2	6	M5	PG11	11 j6	M4x10	23	4	12
SMKF 71 A/B	141	122	244	85	70	105	18	2	8	M6	PG13,5	14 j6	M5x15	30	5	16
SMKF 80 A/B	159	139	275	100	80	120	25	3	12	M6	PG13,5	19 j6	M6x15	40	6	21
SMKF 90S	176	146	305	115	95	140	32	3	10	M8	PG13,5	24 j6	M8x20	50	8	27
SMKF 90L	176	146	330	115	95	140	32	3	10	M8	PG13,5	24 j6	M8x20	50	8	27

SINGLE – PHASE INDUCTION MOTORS DESIGNED

rated voltage 230 V – 50 Hz

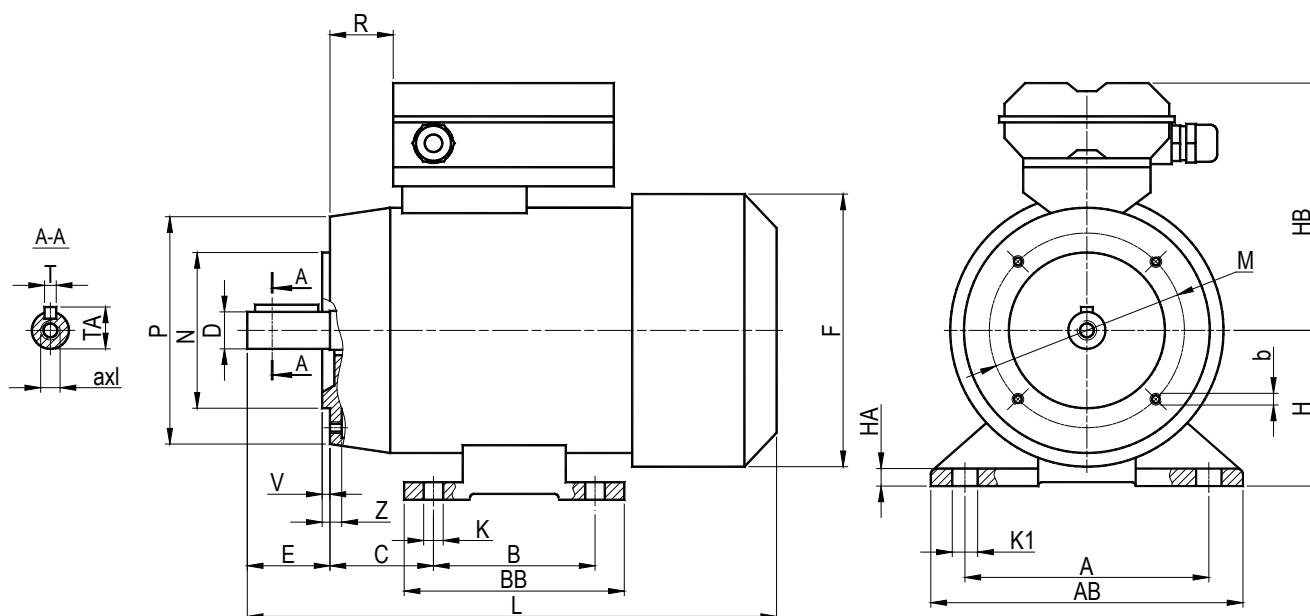
degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

PN-EN60034-1

IEC 60034-1

CE mark

Construction form B34



type	dimension [mm]																			shaft				
	A	B	C	F	H	HB	K	K1	L	M	N	P	R	BB	AB	V	HA	Z	b	D	axl	E	T [h9]	TA
SMLKF 56 A/B	90	71	36	110	56	104	6	8	187	65	50	80	17	90	107	2	7	6	M5	9 j6	M4x10	20	3	10
SMLKF 63 A/B	100	80	40	125	63	108	7	10	205	75	60	90	18	100	120	2	7	6	M5	11 j6	M4x10	23	4	12
SMLKF 71 A/B	112	90	45	141	71	122	7	11	244	85	70	105	18	112	135	2	8	8	M6	14 j6	M5x15	30	5	16
SMLKF 80 A/B	125	100	50	159	80	139	9	13	275	100	80	120	25	125	153	3	12	12	M6	19 j6	M6x15	40	6	21
SMLKF 90S	140	100	56	176	90	146	10	13	305	115	95	140	32	130	170	3	13	10	M8	24 j6	M8x20	50	8	27
SMLKF 90L	140	125	56	176	90	146	10	13	330	115	95	140	32	155	170	3	13	10	M8	24 j6	M8x20	50	8	27

COD OF ELECTRIC MOTORS – IEC

PN-EN60034-1

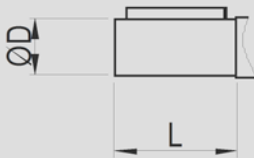
S				F		-								
												mounting arrangements		
												B3	V5; V6; B6; B7; B8	
												B5	V1; V3	
												B14	V18; V19	
												B34	V184; V194	
												B35	V15; V36	
												/ T	with thermic	
													without thermic	
												A	size of packages	
												B		
												C		
												2	no of poles	
												4		
												6		
												8		
												56	mechanical volume	to complete our offer
												63		
												71		
												80		
												90		
												100		
												112	our main range	
												132		
												160		
												CPTRADE mark		
													on feets	
												K	flange	
												LK	flange on feets	
													Three-phase	
												M	Single-phase	
													Standard IE1	
												H	High efficiency IE2	
Motor														

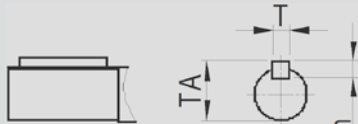
For example cod:

SLKF 112-4A-B35

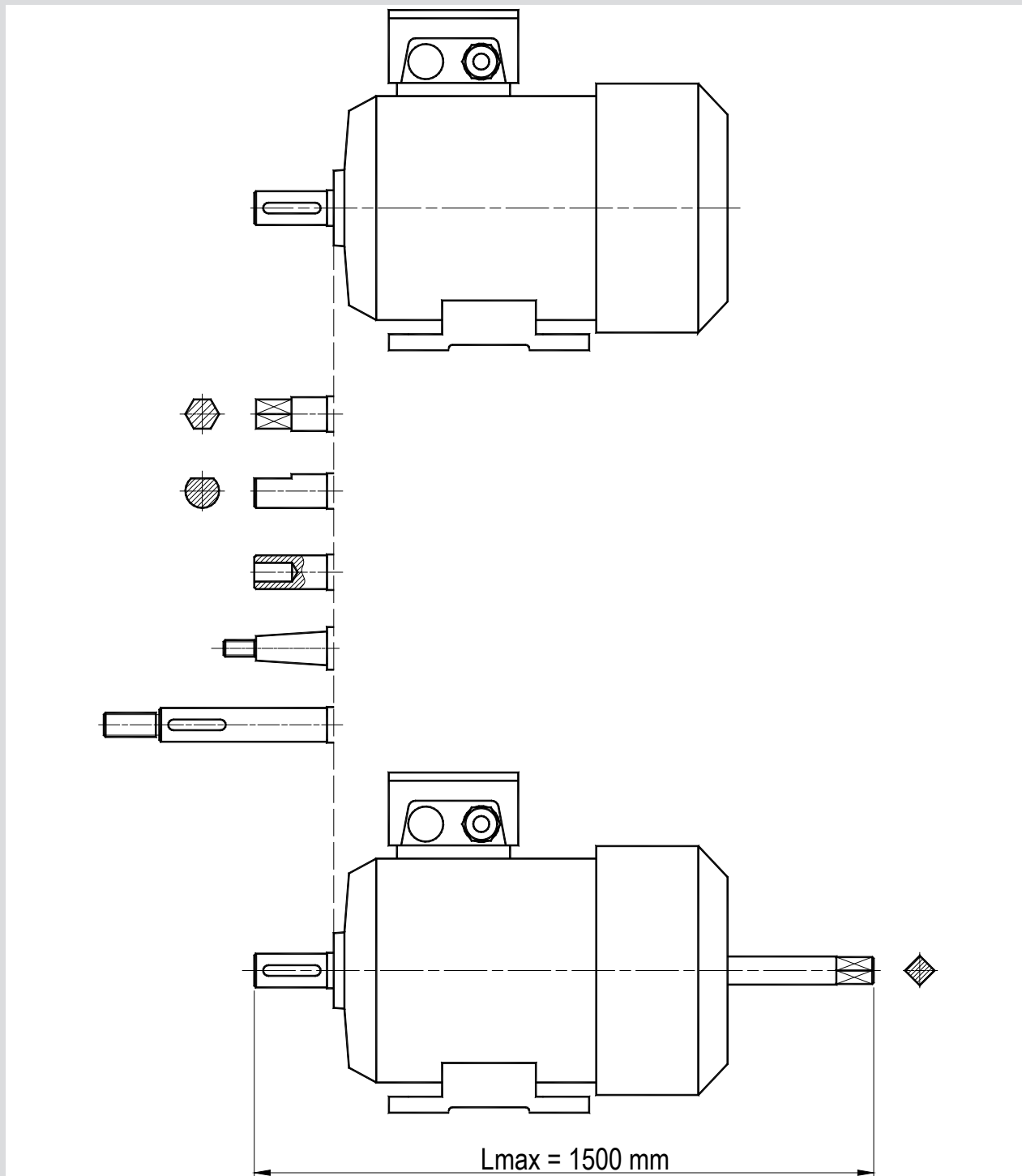
Three-phase motor with flange B5 on feets (construction type B35), CPTRADE mark, mech.volume 112 mm, 4 poles, type A, without thermic, standard efficiency IE1

MECHANICAL DESIGN - STANDARD SHAFT

dimensions of shaft ending		56	63	71	80	90	100	112	132	160
	Ø D	9	11	14	19	24	28	28	38	42
	L	20	23	30	40	50	60	60	80	110
construction tolerance										
diameter	od Ø 9 mm do Ø 27 mm						od Ø 28 mm do Ø 42 mm			
tolerance	j6						k6			

dimensions of splineway		56	63	71	80	90	100	112	132	160
	T ^[h9] x h ^[h11]	3x3	4x4	5x5	6x6	8x7	8x7	8x7	10x8	12x8
	TA	10,2	12,5	16,0	21,5	27,0	31,0	31,0	41,0	45,0

MECHANICAL DESIGN - SPECIAL SHAFT



ORDER DATA - DEGREES OF PROTECTION IP

PN-EN60034-5
IEC 60034-5

DEGREES OF PROTECTION FOR MECHANICAL MACHINES ARE DESIGNATED IN ACCORDANCE WITH **PN-EN60034-5**
BY THE LETTERS IP AND TWO CHARACTERISTIC NUMERALS:

First numeral: protection against contact of foreign bodies and dust.

Second numeral: protection against ingress of water.

IP have range 0 up to 8

	First digit:	Second digit:
IP	0 No special protection	0 No special protection
	1 Protection against solid foreign bodies larger than 50mm (example: inadvertent contact with the hand).	1 Protection against vertically falling water drops (condensation).
	2 Protection against solid foreign bodies larger than 12mm (example: inadvertent contact with the fingers).	2 Protection against dripping when inclined by up to 15° from vertical.
	3 Protection against solid foreign bodies larger than 2,5mm (example: wires, tools)	3 Protection against rain water up to 60° from vertical.
	4 Protection against solid foreign bodies larger than 1,00mm (example: wires, bands).	4 Protection against water splashed from any direction.
	5 Protection against dust (harmful deposit of dust).	5 Protection against water projected by nozzle from any direction.
	6 Complete protection against dust.	6 Protection against heavy seas or water projected in powerful jets.
		7 Protection against when submerge between 0,15 and 1m.
		8 Protection against when continuously submerged in water at conditions agreed between the manufacturer and the user.

Our standard is protection **IP54** but we are for your disposal to follow your requirements to find your satisfaction.

ORDER DATA - INFORMATION OF MOTORS DUTY AND OPERATING CONDITIONS

PN-EN60034-7
IEC 60034-7

		$\varepsilon = \frac{t_p}{t_p + t_s} 100\%$
S1 Normal continuous duty and normal operating conditions	S2 ...min (short time duties)	S3 .. % -...min (intermittent duty)
$\varepsilon = \frac{t_R + t_p}{t_R + t_p + t_s} 100\%$	$\varepsilon = \frac{t_R + t_p + t_H}{t_R + t_p + t_H + t_s} 100\%$	$\varepsilon = \frac{t_p}{t_p + t_s} 100\%$
S4 ...% - J M...kgm² - Jext... kgm² (intermittent duty with starting)	S5 ...% - J M...kgm² - Jext... kgm² (intermittent duty with electric braking)	S6 .. % -min (continuous-operation periodic duty with intermittent load)
S7 J M...kgm² - Jext... kgm² (continuous-operation periodic duty with electric braking)	S8 J M...kgm² - Jext... kgm² (continuous-operation periodic duty with speed changes)	S9 ...kW equ (continuous duty with non-periodic load and speed variations).

t₀ – operations period t_s – stop period t_H – breaking moment
t_r – starting moment t_i – infertile period

Our standard normal continuous duty and normal operating condition is **S1** but we are for your disposal to follow your requirements to find your satisfaction.

INDUCTION ELECTRIC MOTORS OF GENERAL INDUSTRIAL USE AMP (ГОСТ) SERIES

THREE – PHASE MOTORS DESIGNED

AIP

for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz

degree of protection: IP54 insulation class F, duty S1; temp. -15°C to +40°C

3000 min⁻¹ (2 poles)

Type frame size	Rated output [kW]	Rated speed [min ⁻¹]	Rated current I _N at 400 V [A]	Efficiency η [%]	Power factor cos φ	Torque T _N [Nm]	Starting torque/rated torque T _L /T _N	Starting current/rated current I _L /I _N	Weight [kg]
SFG 56-2A	0,18	2790	0,52	68	0,75	0,63	1,9	4,4	5
SFG 56-2B	0,25	2800	0,68	69	0,78	0,87	2,3	4,5	5
SFG 63-2A	0,37	2800	0,86	75	0,83	1,29	2,2	5,4	7
SFG 63-2B	0,55	2790	1,22	77	0,85	1,93	2,1	5,4	8
SFG 71-2A	0,75	2810	1,7	75	0,85	2,62	2,05	5,4	9,5
SFG 71-2B	1,1	2810	2,5	75	0,85	3,84	2,1	5,8	10,5
SFG 80-2A	1,5	2830	3,2	79	0,87	5,2	2	6,4	12
SFG 80-2B	2,2	2820	4,6	80	0,87	7,6	2,2	6,4	15
SFG 90 L2	3	2850	6,0	82	0,88	10,3	2,3	6,8	21
SFG 100 S2	4	2860	7,9	83,5	0,88	13,7	2,1	6,8	28
SFG 100 L2	5,5	2890	10,6	85,5	0,88	18,6	2,1	7,0	36
SFG 112 M2	7,5	2910	13,9	88	0,89	25,3	2,05	7,4	45

1500 min⁻¹ (4 poles)

Type frame size	Rated output [kW]	Rated speed [min ⁻¹]	Rated current I _N at 400 V [A]	Efficiency η [%]	Power factor cos φ	Torque T _N [Nm]	Starting torque/rated torque T _L /T _N	Starting current/rated current I _L /I _N	Weight [kg]
SFG 56-4A	0,12	1380	0,45	55	0,70	0,85	2,1	3,1	4,5
SFG 56-4B	0,18	1380	0,64	58	0,70	1,28	1,9	3,4	5
SFG 63-4A	0,25	1390	0,84	61	0,71	1,76	2,1	3,8	6
SFG 63-4B	0,37	1395	1,05	71	0,73	2,60	2,1	3,9	7
SFG 71-4A	0,55	1410	1,52	71	0,74	3,83	2,2	4,8	9
SFG 71-4B	0,75	1420	1,98	72,2	0,76	5,18	2,1	4,8	10
SFG 80-4A	1,1	1430	2,73	75,5	0,77	7,55	2,2	5,0	13
SFG 80-4B	1,5	1430	3,5	77,5	0,80	10,3	2,15	5,3	15
SFG 90 L4	2,2	1440	4,9	80,5	0,81	15,0	2,0	5,8	19
SFG 100 S4	3	1450	6,3	82	0,84	20,3	2,1	6,0	22
SFG 100 L4	4	1450	8,9	84	0,85	27,0	2,0	6,4	31
SFG 112 M4	5,5	1460	11	85	0,85	37,0	2,3	6,1	44

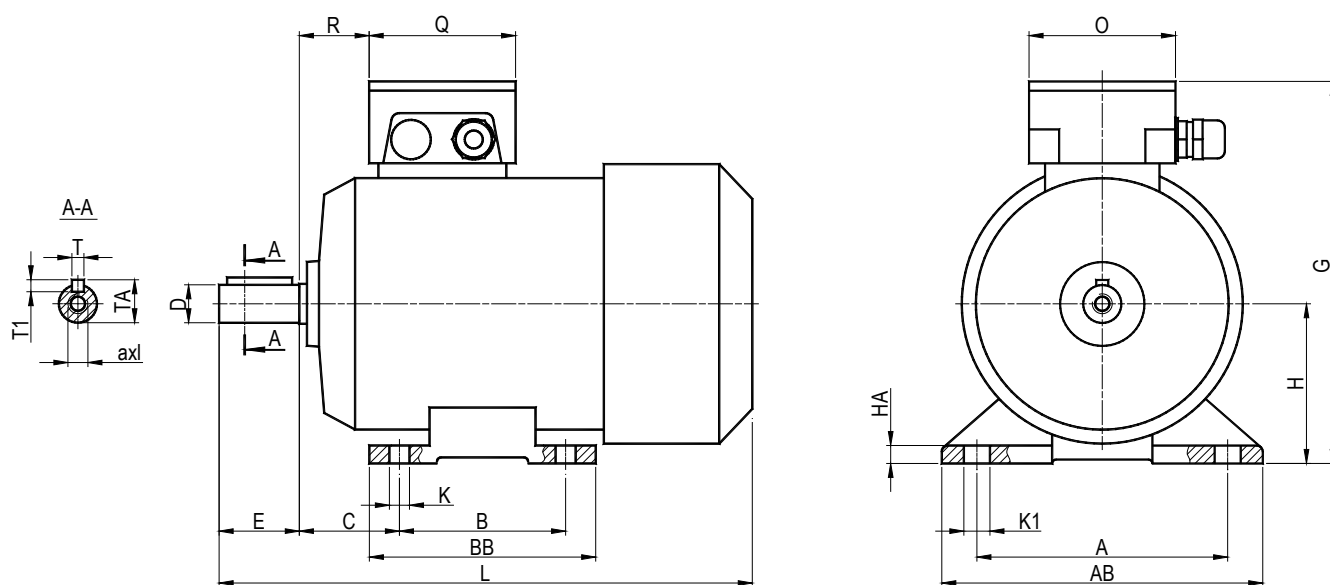
THREE – PHASE MOTORS DESIGNED

ANP

for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50H

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

Construction form B3



type	dimension [mm]														shaft					
	A	B	C	G	H	K	K1	L	O	Q	R	BB	AB	HA	D	a x l	E	T [h9]	T1	TA
SFG 56 A/B	90	71	36	144	56	5,8	8	196	75	80	25	90	107	8	11 j6	M4x10	23	4	4	12,5
SFG 63 A/B	100	80	40	170	63	7	12	226	75	80	28	100	120	7	14 j6	M4x10	30	5	5	16
SFG 71 A/B	112	90	45	185	71	7	10	270	75	80	35	112	135	8	19 j6	M5x15	40	6	6	21,5
SFG 80 A/B	125	100	50	204,5	80	10	12	320,5	88	88	35	125	153	9	22 j6	M6x15	50	6	6	24,5
SFG 90S/L	140	125	56	224,5	90	10	12	337	88	88	41	155	170	10	24 j6	M8x20	50	8	7	27
SFG 100L	160	140	63	242	100	12	16	390	88	88	52	170	192	12	28 j6	M10x25	60	8	7	31
SFG 112M	190	140	70	265	112	12	16	470	112	112	49	182	220	12	32 k6	M10x25	80	10	8	35

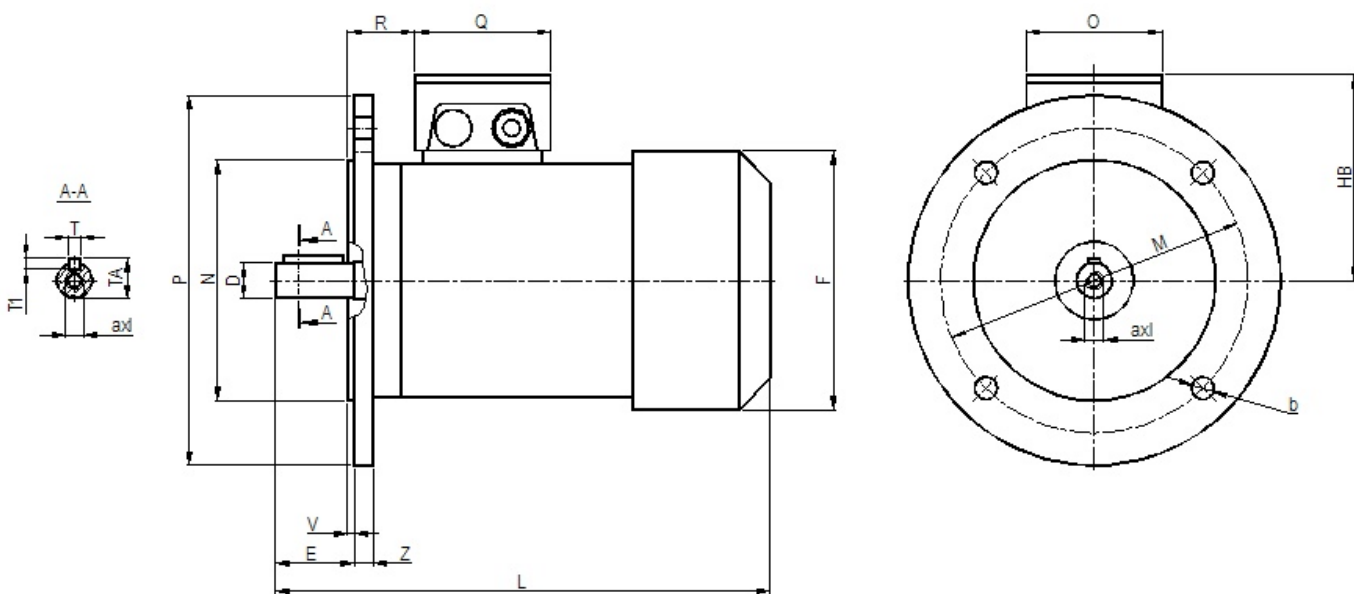
THREE – PHASE MOTORS DESIGNED

AIP

for range of rated voltage: 230-400 V – 50Hz; 400-690 V – 50Hz

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°

Construction form B5



type	dimension [mm]											shaft					
	HB	L	M	N	O	P	Q	R	V	Z	b	D	axl	E	T [h9]	T1	TA
SKFG 56 A/B	88	196	115	95	75	140	80	25	3	10	10	11 j6	M4x10	23	4	4	12,5
SKFG 63 A/B	107	226	130	110	75	160	80	28	3,5	9	10	14 j6	M4x10	30	5	5	16
SKFG 71 A/B	114	270	165	130	75	200	80	35	3,5	10	12	19 j6	M5x15	40	6	6	21,5
SKFG 80 A/B	124,5	320,5	165	130	88	200	88	35	3,5	10	12	22 j6	M6x15	50	6	6	24,5
SKFG 90S/L	134,5	337	215	180	88	250	88	41	4	12	15	24 j6	M8x20	50	8	7	27
SKFG 100L	142	390	215	180	88	250	88	52	4	14	15	28 j6	M10x25	60	8	7	31
SKFG 112M	153	470	265	230	112	300	112	49	4	14	15	32 k6	M10x25	80	10	8	35

SINGLE – PHASE MOTORS DESIGNED

AIP

for range of rated voltage: 230 V – 50Hz;

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

3000 min¹ (2 poles)

Type frame size	Rated output kW	Rated speed min ¹	Rated current at I _N 230 V (A)	Efficiency η [%]	Torque T _N (Nm)	Starting torque/rated torque T _L /T _N	Weight
SFG 80-2A	1,1	3000	7,3	81	1,8	0,60	17
SFG 80-2B	1,5	3000	10	82	1,8	0,60	17
SFG 80 2C	2,2	3000	14	85	1,9	0,65	19

1500 min¹ (4 poles)

Type frame size	Rated output kW	Rated speed min ¹	Rated current at I _N 230 V (A)	Efficiency η [%]	Torque T _N (Nm)	Starting torque/rated torque T _L /T _N	Weight
SFG 80-4A	0,7	1500	5,0	76	1,6	0,40	17
SFG 80-4B	1,1	1500	7,1	77	1,7	0,40	17
SFG 80 -4C	1,5	1500	9,6	81	1,6	0,45	19

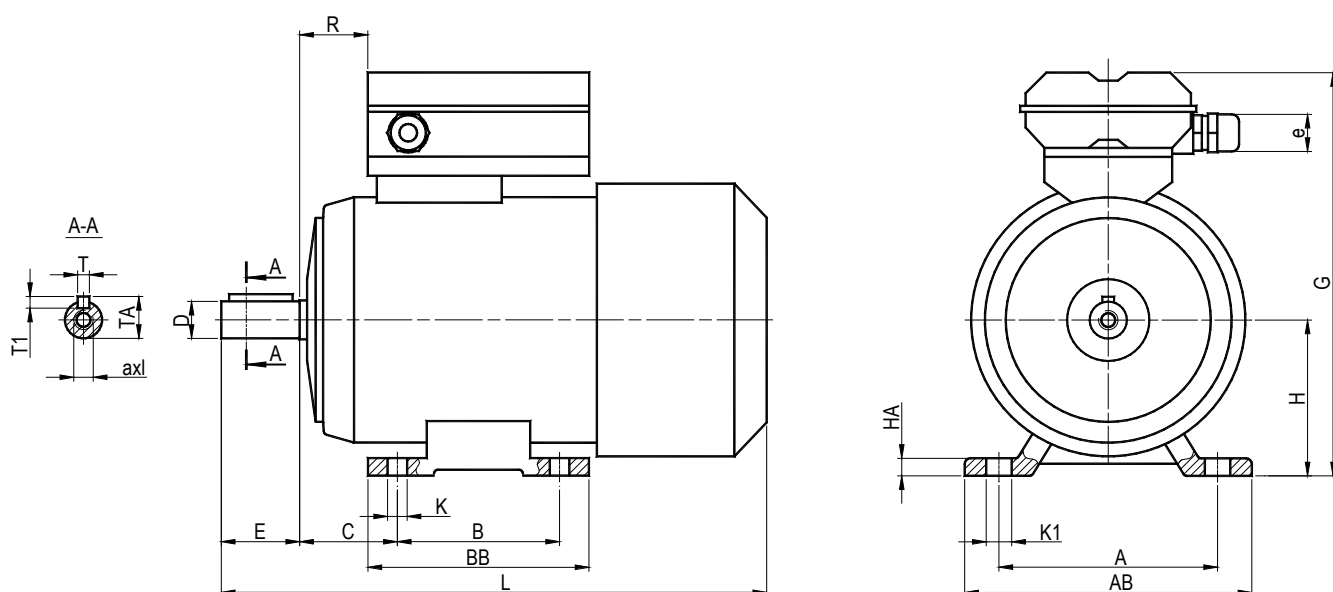
SINGLE – PHASE MOTORS DESIGNED

AIP

for range of rated voltage: 230 V – 50Hz;

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

Construction form B3



type	dimension [mm]												shaft					
	A	B	C	G	H	K	K1	L	R	BB	AB	HA	D	a x l	E	T [h9]	T1	TA
SMFG 80 A/B/C	125	100	50	204,5	80	10	12	320,5	35	125	153	9	22 j6	M6x15	50	6	6	24,5

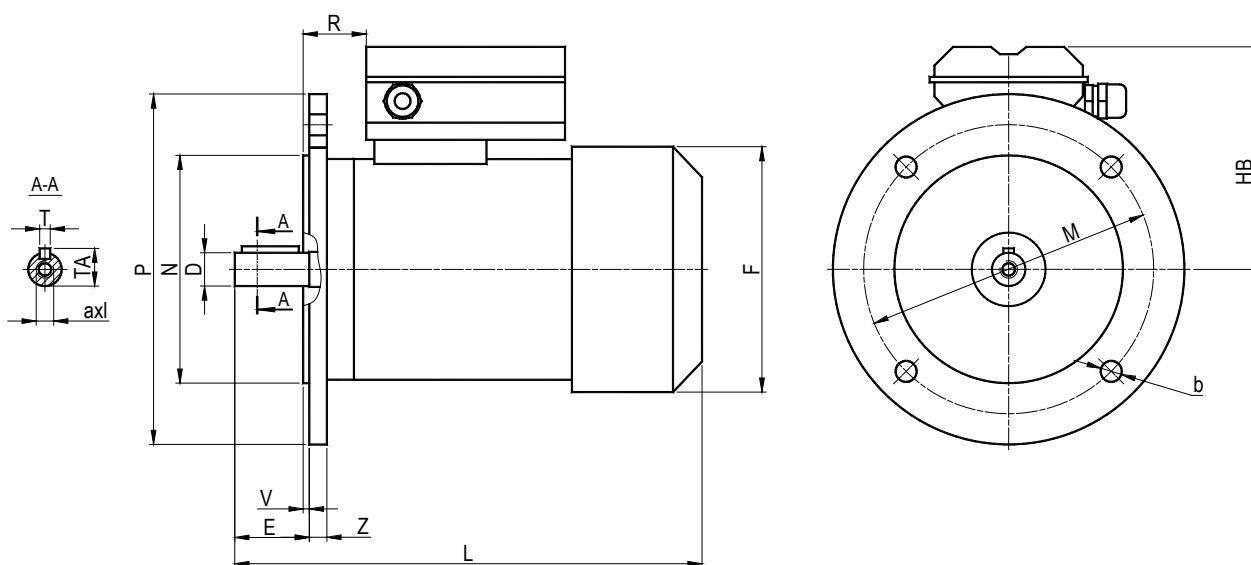
SINGLE – PHASE MOTORS DESIGNED

AIP

for range of rated voltage: 230 V – 50Hz;

degree of protection: IP54 insulation class F; duty S1; temp. -15°C to +40°C

Construction form B5



type	dimension [mm]										shaft					
	HB	L	M	N	P	R	V	Z	b	D	a x l	E	T [h9]	T1	TA	
SMKFG 80 A/B/C	124,5	320,5	165	130	200	35	3,5	10	12	22 j6	M6x15	50	6	6	24,5	

CPTRADE srl

nasce come azienda di servizio orientata al cliente e vuole essere un sinonimo di affidabilità per:

- soluzioni elettromeccaniche;
- condensatori e disgiuntori;
- assistenza tecnica in ricerca-sviluppo e marketing;

Noi siamo il coordinatore produttivo di aziende della filiera italiana specializzate nel settore componentistica macchine rotanti e la società di vendita alla clientela.

Da oltre 40 anni le aziende del nostro gruppo producono componenti per motori elettrici ed accessori in materia plastica. Un lungo periodo dove esperienza, tecnologia, innovazione e sicurezza dei prodotti hanno permesso di ottenere il

SITEMA QUALITÀ ISO 9001:2015.

Guardiamo al futuro globale attraverso la nostra storia e determinazione con soluzioni personalizzate per il cliente.

CPTRADE srl

Is a customer service oriented company and is a reliable name for:

- electromechanical solutions;
- capacitors and pilots;
- technical support in R & D and marketing.

We are the co-manufacturing italian components supply chain factories for the sector of rotating machines and front to the client for sale and service.

For over 40 years our group have been manufacturing electric motors, components and plastic accessories with a long time of technological experience, innovations and safety of products has permitted us to obtain the

QUALITY SYSTEM ISO 9001:2015.

We are looking through our history with determination to the global future for supplying the client with standard and customized solutions.

CPTRADE srl

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