

Terminal boxes

The location of the terminal box (viewed from drive end) in standard design is on top; on the right or on the left are possible.

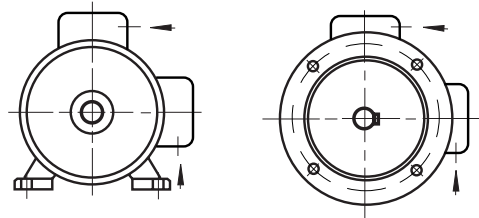
For motors with mountings IM B6, IM B7, IM B8, IM V5, IM V6 the location of the terminal box is related to an IM B3 mounting.

The position of the entry openings can be adjusted to suit the existing connection facilities by turning through 90°. Should special accessories be used (temperature detectors, anti-condensation heating, etc.) please enquire.

For motors in standard design, the cable gland does not belong to our scope of delivery.

The dimension tables always show the maximum distance to the outermost edge of the available terminal boxes. This maximum value may, however, be smaller, depending on the design of the terminal box. If the space for mounting is very limited, please enquire.

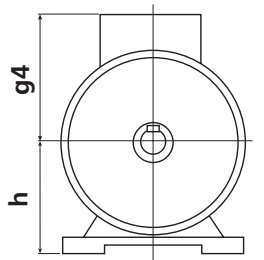
Direction of cable entries



Frame size	Degree of protection	Thread for cable entry		Max. external cable diam. mm
		Metric ¹⁾	Pg ²⁾	
56 - 71	IP 55	1 x M16	1 x Pg 11	12
80 - 100	IP 55	1 x M20	1 x Pg 13.5	16

¹⁾ Pitch 1.5

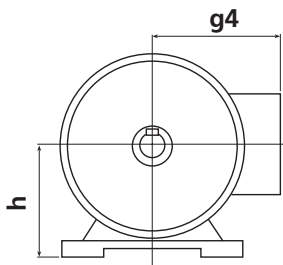
²⁾ Pg thread to DIN 40 430 (on request)



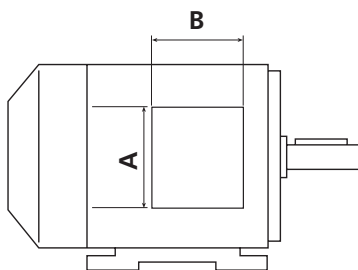
Terminal box on top

Standard design

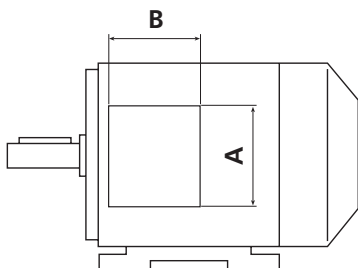
Frame size h	g4	A	B	Material
56	115	120	148	Plastic UL 94 V0
63	120	120	148	Plastic UL 94 V0
71	129	120	148	Plastic UL 94 V0
80	150	135	173	Plastic UL 94 V0
90	160	135	173	Plastic UL 94 V0
100	166	135	173	Plastic UL 94 V0



Terminal box at the side



left ¹⁾



right

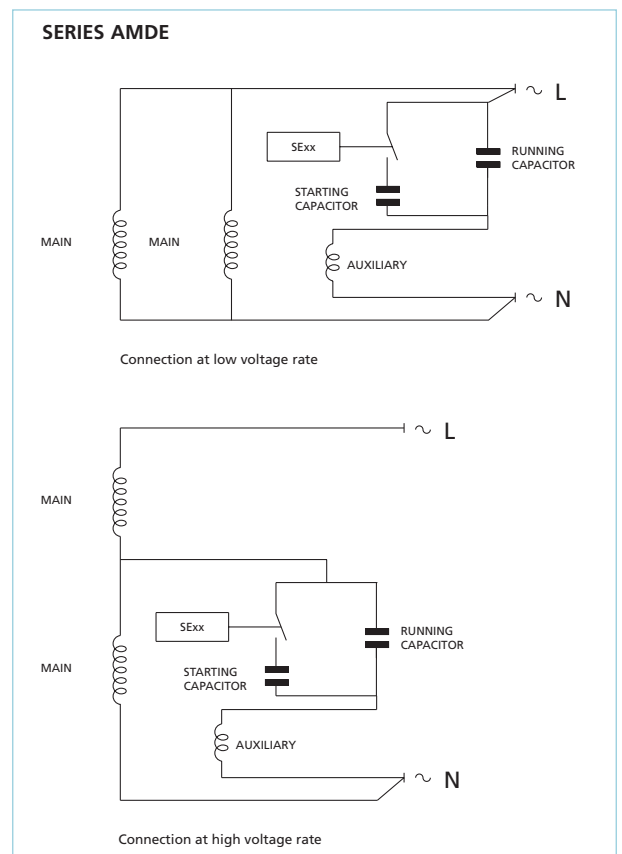
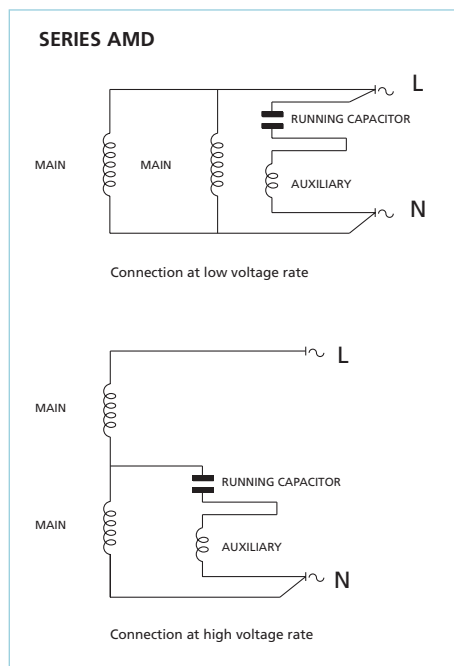
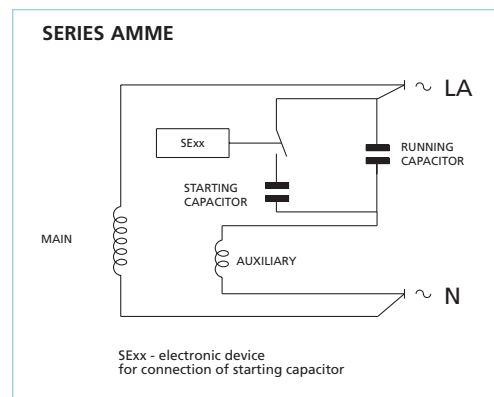
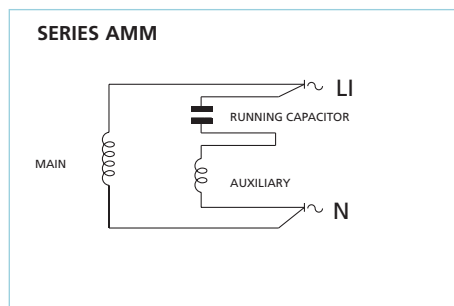
¹⁾ Frame size 80-100 the position of the terminal box is close to drive end

Connection diagrams

Single-phase motors type AMM and AMME are designed for single-rated voltage; motors type AMD and AMDE for dual voltage. The windings (main and auxiliary winding) are connected to the capacitor supplied with the motor.

The direction of rotation can be reversed by inverting the winding ends as follows:

- main winding for motors with one supply voltage
- auxiliary winding for dual voltage motors

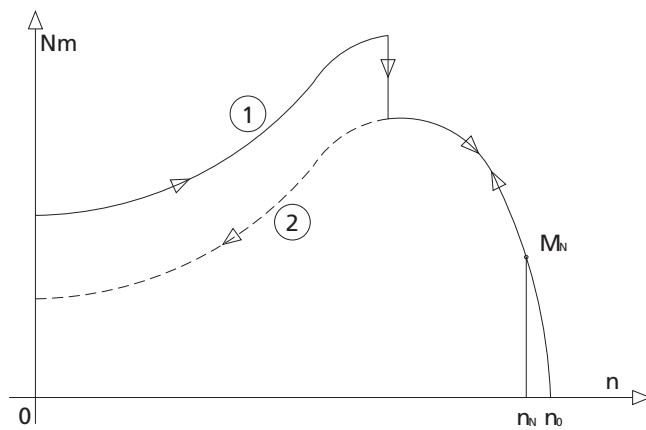


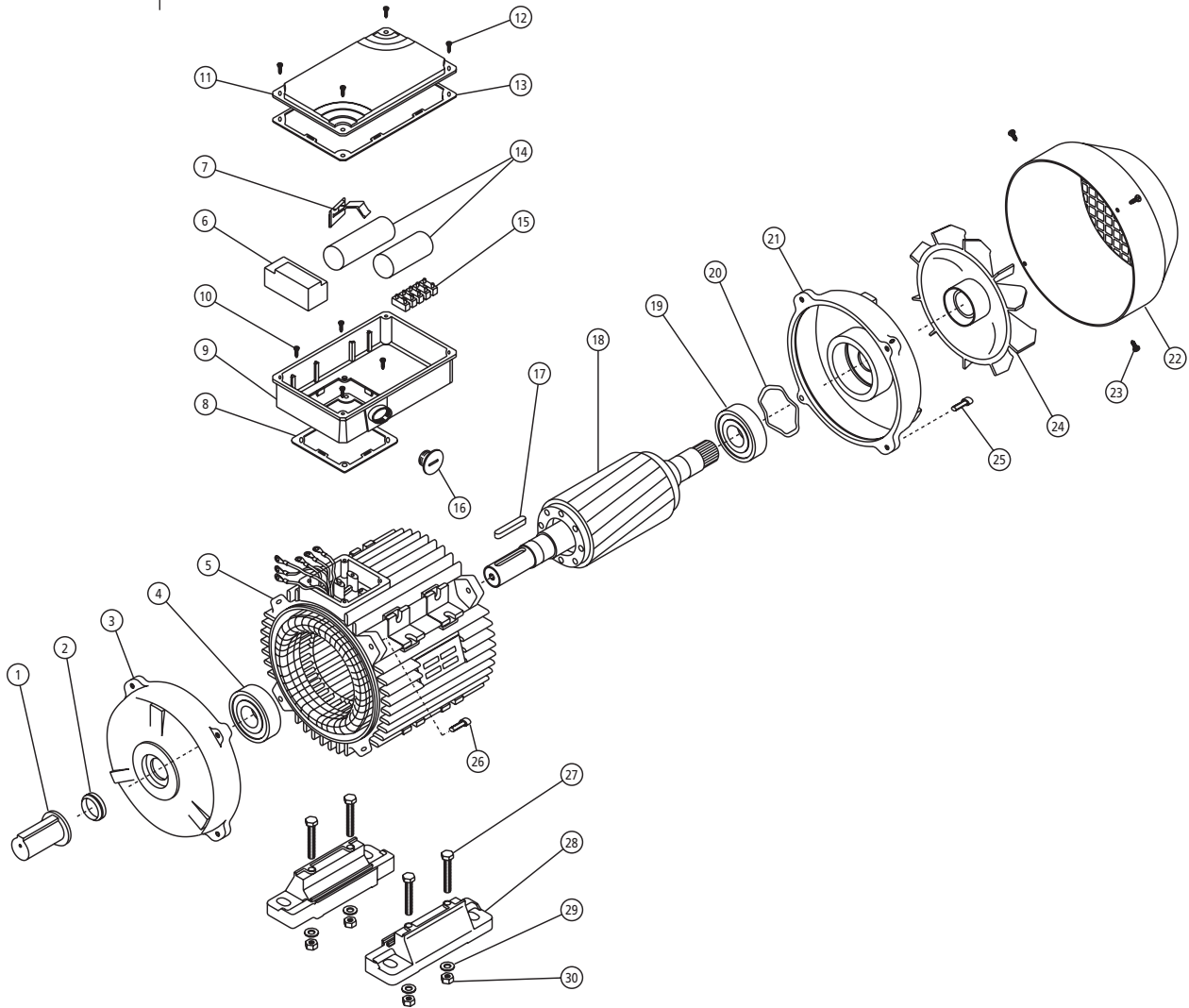
Electronic starting device (SE XX)

Single-phase motors with one single capacitor generally have lower starting torques than the full load torque. When higher starting torques are required, the motor is equipped with an additional starting capacitor. It is connected by the electronic starting device (SE XX) in the moment of starting and disconnected automatically proximate to the pull-out torque (see figure). At this point the torque characteristic for the running capacitor (characteristic 2) applies again.

Characteristic 1 is not reversible. The starting capacitor is reconnected only when restarting the motor. In case of overload, characteristic 2 has to be applied.

Time between stop and restart of the motor must be higher than 15 s.





Part description

- | | | | |
|----|-------------------------------|----|-------------------------------------|
| 1 | Shaft protection | 16 | Blank gland plug |
| 2 | Dust seal drive end | 17 | Key |
| 3 | Endshield drive end | 18 | Rotor complete |
| 4 | Bearing drive end | 19 | Bearing non-drive end |
| 5 | Stator frame | 20 | Pre-load washer |
| 6 | Starter | 21 | Endshield non-drive end |
| 7 | Fixing device capacitor | 22 | Fan cover |
| 8 | Gasket terminal box | 23 | Fixing screw fan cover |
| 9 | Terminal box | 24 | Fan |
| 10 | Fixing screw terminal box | 25 | Fixing bolt endshield non-drive end |
| 11 | Terminal box lid | 26 | Fixing bolt endshield drive end |
| 12 | Fixing screw terminal box lid | 27 | Fixing bolt motor feet |
| 13 | Gasket terminal box lid | 28 | Motor feet |
| 14 | Capacitor | 29 | Fixing washer motor feet |
| 15 | Connecting block | 30 | Fixing nut motor feet |

In enquires and orders for spare parts please state always:

Designation of spare part, motor type, mounting arrangement, motor serial number (Product No. (E-No.) when available)

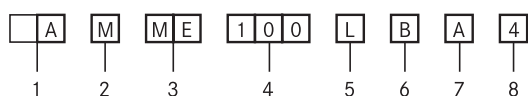
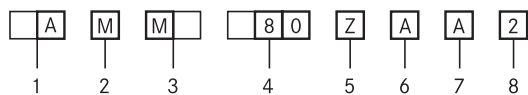
Enquires and orders cannot be handled without these data.

Apart from other information, it is necessary to specify the exact type designation in all enquiries, when ordering spare parts or replacement motors or when asking for documentary information.

The type designation of our motors comprises 8 points of reference, each of which may consist of several letters and/or numerals. The meaning of each symbol can be seen from the following table. For motors not included in our standard range, special symbols may be used which are not listed here.

Ref. point	Meaning	Description of symbols used for our motors	
1	Type of motor	A	Asynchronous motor
2	Cooling	M	Surface cooled with external fan, cooling fins
3	Type of motor	M ME D DE	Single-phase motor Single-phase motor with starting capacitor Single-phase motor with double voltage Single-phase motor with double voltage and starting capacitor
4	Shaft centre height	56, 63, 71, 80, 90, 100	
5	Frame length	Z S M L	Mechanical dimension (short) Mechanical dimension (medium) Mechanical dimension (long)
6	Mechanical design and output value	A B C D	
7	Frame material	A	Aluminium frame
8	Number of poles	2 4 6	

Examples



**Single-phase motors designed
for range of rated voltage
220-240 V ± 5% - 50 Hz**

**For mains voltage
to IEC 60038
230 V ± 10% - 50 Hz**

Type	kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I _N		I _Δ /I _N	M _Δ /M _N	M _R /M _N	J 10 ⁻³ kgm ²	kg	
							230V	220-240V						
3000 min⁻¹ (2 poles)														
AMM 56Z AA	2	0.12	0.16	2600	0.4	47	0.90	1.25	1.3	1.3	1.3	1.8	0.09	3
AMM 63Z AA	2	0.18	0.25	2710	0.6	58.5	0.98	1.2	1.3	3	1.2	1.8	0.14	5
AMM 63Z BA	2	0.25	0.33	2760	0.9	68.6	0.95	1.7	1.9	3.2	1	1.6	0.18	5.5
AMM 71Z AA	2	0.37	0.50	2780	1.3	57.6	0.89	3.1	3.3	3.1	0.8	1.9	0.41	7.1
AMM 71Z BA	2	0.55	0.75	2740	1.9	69	0.89	3.9	4.1	3.5	0.7	1.7	0.55	8.5
AMM 80Z AA	2	0.75	1	2800	2.6	65	0.95	5.3	5.5	4.1	0.6	2	1.05	11.4
AMM 80Z BA	2	1.1	1.5	2730	3.8	74	0.97	6.5	6.6	3.6	0.5	1.6	1.08	11.8
AMM 90S AA	2	1.1	1.5	2830	3.7	68	0.94	7.5	8	4	0.4	2	1.62	15.3
AMM 90L BA	2	1.5	2	2835	5.1	73	0.90	9.3	9.6	3.9	0.5	2.1	1.87	17.3
AMM 90L CA	2	1.8	2.5	2790	6.2	73	0.99	10.8	11.2	4	0.6	2	2.09	18.7
AMM 90L DA	2	2.2 ¹⁾	3 ¹⁾	2770	7.6	73	0.90	14.6	15.4	4.3	0.2	1.8	2.11	19.3
AMM 100L AA	2	2.2	3	2795	7.5	75	0.98	12.8	13.1	4.3	0.4	1.5	4.05	24.5
1500 min⁻¹ (4 poles)														
AMM 56Z AA	4	0.09	0.12	1340	0.6	45	0.89	1	1.1	1.9	0.5	1.2	0.14	3.5
AMM 63Z AA	4	0.12	0.16	1385	0.8	50	0.97	1	1.1	2.8	0.7	1.5	0.27	4.5
AMM 63Z BA	4	0.18	0.25	1280	1.3	50	0.97	1.6	1.7	2	0.8	1.2	0.34	4.9
AMM 71Z AA	4	0.25	0.33	1270	1.9	52.1	0.89	2.5	2.7	2.4	0.7	1.5	0.82	7.2
AMM 71Z BA	4	0.37	0.50	1370	2.6	62	0.88	2.8	3.1	2.9	0.8	1.2	1.08	8.5
AMM 80Z AA	4	0.37	0.50	1390	2.5	60	0.96	2.8	2.9	3.2	0.5	1.9	2	9.8
AMM 80Z BA	4	0.55	0.75	1390	3.8	67	0.88	4	4.2	3.2	0.5	1.8	2.41	11.3
AMM 80Z CA	4	0.75	1	1445	5.0	73	0.90	4.9	5.1	4.4	0.3	1.9	2.7	12.8
AMM 90L AA	4	1.1	1.5	1415	7.4	70	0.93	7.4	7.8	3.6	0.5	1.5	3.13	15.4
AMM 90L BA	4	1.5 ¹⁾	2 ¹⁾	1430	10.0	79	0.94	9	9.3	4.3	0.5	1.7	3.73	17.6
AMM 100L AA	4	1.8	2.5	1380	12.5	70	0.96	12	12.4	3.6	0.3	1.5	5.83	22.8
AMM 100L BA	4	2.2 ¹⁾	3 ¹⁾	1450	14.5	81	0.97	12.5	12.7	4.6	0.4	1.7	6	23.8
1000 min⁻¹ (6 poles)														
AMM 71Z AA	6	0.18	0.25	840	2.0	48.0	0.87	1.9	2	2.7	0.8	1.6	0.90	6.3
AMM 80Z AA	6	0.25	0.33	900	2.7	56	0.95	2.2	2.4	2.3	0.3	1.8	2	8.8
AMM 80Z BA	6	0.37	0.50	925	3.8	60	0.96	2.8	3	2.6	0.4	1.3	2.47	10
AMM 90L AA	6	0.55	0.75	950	5.5	72	0.95	3.4	3.5	3.4	0.4	1.2	5.2	16.5
AMM 90L BA	6	0.75	1	890	8.0	71	0.96	4.8	4.9	3.2	0.5	1.5	5.85	18
AMM 100L AA	6	1.1	1.5	950	11.1	69	0.96	7.1	7.7	2.9	0.2	1.3	6.73	19
AMM 100L BA	6	1.5 ¹⁾	2 ¹⁾	870	16.5	66	0.98	10	10.2	2.5	0.4	1.4	9.43	22.5

1) Temperature rise to class F

Single-phase motors with starting capacitor designed for range of rated voltage 220-240 V ± 5% - 50 Hz

**For mains voltage to IEC 60038
230 V ± 10% - 50 Hz**

[S]

Type	kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I _N		I _R /I _N	M _R /M _N	M _K /M _N	J 10 ³ kgm ²	kg	
							230V	220-240V						
3000 min⁻¹ (2 poles)														
AMME 63Z AA	2	0.12	0.16	2810	0.4	67.1	0.90	0.90	1	2.5	1.9	1.5	0.11	4.5
AMME 63Z BA	2	0.18	0.25	2800	0.6	58.5	0.98	1.2	1.3	3	1.6	1.8	0.14	5
AMME 63Z CA	2	0.25	0.33	2760	0.9	68.6	0.95	1.7	1.9	3.2	1.7	1.6	0.18	5.5
AMME 71Z AA	2	0.37	0.50	2780	1.3	57.6	0.89	3.1	3.3	3.1	2.5	1.9	0.41	7.1
AMME 71Z BA	2	0.55	0.75	2740	1.9	69	0.89	3.9	4.1	3.5	1.9	1.7	0.55	8.5
AMME 80Z AA	2	0.75	1	2800	2.6	65	0.95	5.3	5.5	5.3	2.9	2	1.05	11.4
AMME 80Z BA	2	1.1	1.5	2730	3.8	74	0.97	6.5	6.6	4	2.9	1.6	1.08	11.8
AMME 90S AA	2	1.1	1.5	2830	3.7	68	0.94	7.5	8	5.2	2.4	2	1.62	15.3
AMME 90L BA	2	1.5	2	2835	5.1	73	0.90	9.3	9.6	5.1	2.5	2.1	1.87	17.3
AMME 90L CA	2	1.8	2.5	2790	6.2	73	0.99	10.8	11.2	3.7	1.6	2.0	2.09	18.7
AMME 90L DA	2	2.2 ¹⁾	3 ¹⁾	2770	7.6	73	0.90	14.6	15.4	4	1.8	1.8	2.11	19.3
AMME 100L AA	2	2.2	3	2795	7.5	75	0.98	12.8	13.1	4.3	1.8	1.8	4.05	24.5
1500 min⁻¹ (4 poles)														
AMME 63Z AA	4	0.12	0.16	1385	0.8	50	0.97	1	1.1	2.8	1.2	1.5	0.27	4.5
AMME 63Z BA	4	0.18	0.25	1280	1.3	50	0.97	1.6	1.7	2	1.9	1.2	0.34	4.9
AMME 71Z AA	4	0.25	0.33	1270	1.9	52.1	0.89	2.5	2.7	2.4	3	1.5	0.82	7.2
AMME 71Z BA	4	0.29	0.39	1275	2.2	56.1	0.95	2.4	2.5	4	3	1.6	0.95	7.8
AMME 71Z CA	4	0.37	0.50	1370	2.6	62	0.88	2.8	3.1	2.9	2.5	1.2	1.08	8.5
AMME 80Z AA	4	0.37	0.50	1390	2.5	60	0.96	2.8	2.9	2.5	1.8	1.9	2	9.8
AMME 80Z BA	4	0.55	0.75	1390	3.8	67	0.88	4	4.2	3.3	2.3	1.8	2.41	11.3
AMME 80Z CA	4	0.75	1	1445	5.0	73	0.90	4.9	5.1	5.4	2.4	2	2.7	12.8
AMME 90L AA	4	1.1	1.5	1415	7.4	70	0.93	7.4	7.8	4.8	2	1.5	3.13	15.4
AMME 90L BA	4	1.5 ¹⁾	2 ¹⁾	1430	10.0	79	0.94	9	9.3	4.7	1.8	1.7	3.73	17.6
AMME 100L AA	4	1.8	2.5	1380	12.5	70	0.96	12	12.4	3.2	1.5	1.5	5.83	22.8
AMME 100L BA	4	2.2 ¹⁾	3 ¹⁾	1450	14.5	81	0.97	12.5	12.7	4.6	1	1.7	6	23.8
1000 min⁻¹ (6 poles)														
AMME 71Z AA	6	0.15	0.20	865	1.7	43	0.83	1.8	1.9	1.8	1.9	1.2	1.24	8
AMME 80Z AA	6	0.25	0.33	900	2.7	56	0.95	2.2	2.4	2.3	1.3	1.8	2	8.8
AMME 80Z BA	6	0.37	0.50	925	3.8	60	0.96	2.8	3	2.7	2	1.3	2.47	10
AMME 90L AA	6	0.55	0.75	950	5.5	72	0.95	3.4	3.5	3.8	2.5	1.2	5.2	16.5
AMME 90L BA	6	0.75	1	890	8.0	71	0.96	4.8	4.9	3	3.4	1.5	5.85	18
AMME 100L AA	6	1.1	1.5	950	11.1	69	0.96	7.1	7.7	2.4	1.4	1.3	6.73	19
AMME 100L BA	6	1.5 ¹⁾	2 ¹⁾	870	16.5	66	0.98	10	10.2	2.5	2	1.4	9.43	22.5

1) Temperature rise to class F

Single-phase dual-voltage motors 115-230 V - 50 Hz

Type		kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I _N 115-230V	I _R /I _N	M _R /M _N	M _K /M _N	J 10 ³ kgm ²	kg
3000 min⁻¹ (2 poles)													
AMD 63Z AA	2	0.11	0.15	2760	0.4	52	0.93	2-1	2.8	0.6	1.5	0.11	4.5
AMD 63Z BA	2	0.18	0.25	2800	0.6	55	0.98	2.9-1.45	3	0.5	1.6	0.14	5
AMD 63Z CA	2	0.24	0.32	2815	0.8	56	0.98	3.8-1.9	3.1	0.6	1.8	0.18	5.5
AMD 71Z AA	2	0.37	0.50	2730	1.3	55	0.90	6.6-3.3	3.3	0.9	2	0.41	7.1
AMD 71Z BA	2	0.55	0.75	2840	1.8	64	0.94	8-4	4.2	0.5	1.9	0.55	8.5
AMD 80Z AA	2	0.75	1	2800	2.6	60	0.78	13.8-7	3.5	0.4	2.1	1.05	11.4
AMD 80Z BA	2	1.1	1.5	2770	3.8	72	0.93	14.2-7.2	3.5	0.5	1.6	1.08	11.8
AMD 90S AA	2	1.1	1.5	2815	3.7	70	0.78	17.5-8.8	3.8	0.4	1.9	1.62	15.3
AMD 90L BA	2	1.5	2	2800	5.1	69	0.87	22-11	3.6	0.4	1.8	1.87	17.3
AMD 90L CA	2	1.8	2.5	2810	6.1	70	0.89	25-12.5	3.7	0.3	1.9	2.09	18.7
AMD 90L DA	2	2.2 ¹⁾	3 ¹⁾	2880	7.3	76	0.93	27.2-13.6	5	0.3	1.9	2.10	19.3
AMD 100L AA	2	2.2	3	2810	7.5	75	0.92	28-14	4.6	0.2	1.8	4.05	24.5
1500 min⁻¹ (4 poles)													
AMD 63Z AA	4	0.11	0.15	1370	0.8	53	0.89	2.2-1.1	2	0.8	1.6	0.27	4.5
AMD 63Z BA	4	0.18	0.25	1340	1.3	51	0.9	3.3-1.7	1.9	0.6	1.3	0.34	4.9
AMD 71Z AA	4	0.24	0.32	1300	1.8	51	0.81	5.1-2.55	2.5	0.7	1.4	0.82	7.2
AMD 71Z BA	4	0.29	0.39	1340	2.1	61	0.84	4.9-2.45	2.6	0.6	1.6	0.95	7.8
AMD 71Z CA	4	0.37	0.5	1370	2.6	58	0.85	6.5-3.25	3.4	0.5	1.5	1.08	8.5
AMD 80Z AA	4	0.37	0.5	1375	2.6	54	0.94	6.3-3.15	2.5	0.7	1.5	2	9.8
AMD 80Z BA	4	0.55	0.75	1360	3.9	66	0.84	8.6-4.3	3.4	0.6	1.7	2.41	11.3
AMD 80Z CA	4	0.75	1	1435	5.0	62	0.91	11.5-5.75	4.1	0.4	1.9	2.7	12.8
AMD 90L AA	4	1.1	1.5	1425	7.4	69	0.81	17-8.5	3.9	0.3	1.9	3.13	15.4
AMD 90L BA	4	1.5 ¹⁾	2 ¹⁾	1415	10.1	72	0.88	20.5-10.25	3.4	0.3	1.4	3.73	17.6
AMD 100L AA	4	1.8	2.5	1430	12.0	70	0.86	26-13	3.2	0.3	1.6	5.83	22.8
AMD 100L BA	4	2.2 ¹⁾	3 ¹⁾	1440	14.6	72	0.86	31-15.5	3.2	0.2	1.3	6	23.8
1000 min⁻¹ (6 poles)													
AMD 71Z AA	6	0.15	0.20	910	1.6	58	0.80	2.8-1.4	2.2	0.5	1.4	1.24	8
AMD 80Z AA	6	0.25	0.33	930	2.6	61	0.85	4.2-2.1	2.3	0.4	1.2	2	8.8
AMD 80Z BA	6	0.37	0.50	940	3.8	61	0.82	6.4-3.2	2.9	0.4	1.6	2.47	10
AMD 90L AA	6	0.55	0.75	950	5.5	68	0.83	8.5-4.25	2.7	0.6	1.3	5.2	16.5
AMD 90L BA	6	0.75	1	950	7.5	58	0.79	14.2-7.1	3	0.4	1.6	5.85	18
AMD 100L AA	6	1.1	1.5	935	11.2	72	0.88	15-7.5	3.1	0.3	1.4	6.73	19
AMD 100L BA	6	1.5 ¹⁾	2 ¹⁾	890	16.1	74	0.98	18-9	2.9	0.5	1.4	9.43	22.5

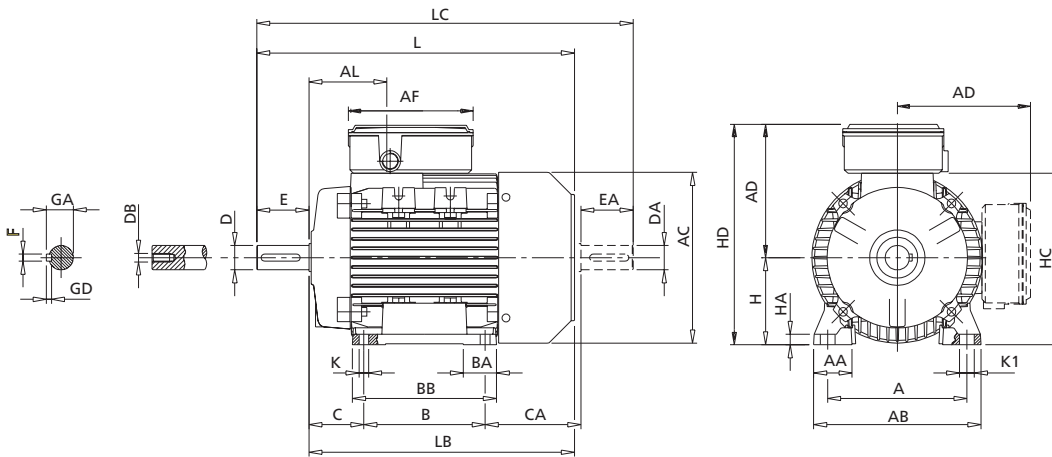
1) Temperature rise to class F

Single-phase dual-voltage motors with starting capacitor 115-230 V - 50 Hz

[S]

Type		kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I _N 115-230V	I _R /I _N	M _R /M _N	M _R /M _N	J 10 ⁻³ kgm ²	kg
3000 min⁻¹ (2 poles)													
AMDE 63Z AA	2	0.11	0.15	2760	0.4	52	0.93	2-1	2.8	1.9	1.5	0.11	4.5
AMDE 63Z BA	2	0.18	0.25	2800	0.6	55	0.98	2.9-1.45	3	1.6	1.6	0.14	5
AMDE 63Z CA	2	0.24	0.32	2815	0.8	56	0.98	3.8-1.9	3.1	1.8	1.8	0.18	5.5
AMDE 71Z AA	2	0.37	0.50	2730	1.3	55	0.90	6.6-3.3	3.3	2.5	2	0.41	7.1
AMDE 71Z BA	2	0.55	0.75	2840	1.8	64	0.94	8-4	4.2	1.3	2	0.55	8.5
AMDE 80Z AA	2	0.75	1	2800	2.6	60	0.78	13.8-7	3.5	1.3	2.2	1.05	11.4
AMDE 80Z BA	2	1.1	1.5	2770	3.8	72	0.93	14.2-7.2	3.5	1.4	1.6	1.08	11.8
AMDE 90S AA	2	1.1	1.5	2815	3.7	70	0.78	17.5-8.75	3.8	2.6	1.9	1.62	15.3
AMDE 90L BA	2	1.5	2	2800	5.1	69	0.87	22-11	3.6	2.6	1.8	1.87	17.3
AMDE 90L CA	2	1.8	2.5	2810	6.1	70	0.89	25-12.5	3.7	1.6	1.9	2.09	18.7
AMDE 90L DA	2	2.2	3	2880	7.3	76	0.93	27.2-13.6	5	2.5	1.9	2.10	19.3
AMDE 100L AA	2	2.2 ¹⁾	3 ¹⁾	2810	7.5	75	0.92	28-14	4.6	1.8	1.8	4.05	24.5
1500 min⁻¹ (4 poles)													
AMDE 63Z AA	4	0.11	0.15	1370	0.8	53	0.89	2.2-1.1	2	1.9	1.6	0.27	4.5
AMDE 63Z BA	4	0.18	0.25	1340	1.3	51	0.9	3.3-1.7	1.9	1	1.3	0.34	4.9
AMDE 71Z AA	4	0.24	0.32	1300	1.8	51	0.81	5.1-2.55	2.5	2.3	1.4	0.82	7.2
AMDE 71Z BA	4	0.29	0.39	1340	2.1	61	0.84	4.9-2.45	2.6	1.7	1.6	0.95	7.8
AMDE 71Z CA	4	0.37	0.5	1370	2.6	58	0.85	6.5-3.25	3.4	1.4	1.5	1.08	8.5
AMDE 80Z AA	4	0.37	0.5	1375	2.6	54	0.94	6.3-3.15	2.5	1.8	1.5	2	9.8
AMDE 80Z BA	4	0.55	0.75	1360	3.9	66	0.84	8.6-4.3	3.4	2.1	1.7	2.41	11.3
AMDE 80Z CA	4	0.75	1	1435	5.0	62	0.91	11.5-5.75	4.1	2	1.9	2.7	12.8
AMDE 90L AA	4	1.1	1.5	1425	7.4	69	0.81	17-8.5	3.9	2	1.9	3.13	15.4
AMDE 90L BA	4	1.5 ¹⁾	2 ¹⁾	1415	10.1	72	0.88	20.5-10.25	3.4	2	1.4	3.73	17.6
AMDE 100L AA	4	1.8	2.5	1430	12.0	70	0.86	26-13	3.2	2.1	1.6	5.83	22.8
AMDE 100L BA	4	2.2 ¹⁾	3 ¹⁾	1440	14.6	72	0.86	31-15.5	3.2	1.5	1.3	6	23.8
1000 min⁻¹ (6 poles)													
AMDE 71Z AA	6	0.15	0.20	910	1.6	58	0.80	2.8-1.4	2.2	1.9	1.4	1.24	8
AMDE 80Z AA	6	0.25	0.33	930	2.6	61	0.85	4.2-2.1	2.3	1.3	1.2	2	8.8
AMDE 80Z BA	6	0.37	0.50	940	3.8	61	0.82	6.4-3.2	2.9	1.9	1.6	2.47	10
AMDE 90L AA	6	0.55	0.75	950	5.5	68	0.83	8.5-4.25	2.7	3	1.3	5.2	16.5
AMDE 90L BA	6	0.75	1	950	7.5	58	0.79	14.2-7.1	3	3.4	1.6	5.85	18
AMDE 100L AA	6	1.1	1.5	935	11.2	72	0.88	15-7.5	3.1	1.9	1.4	6.73	19
AMDE 100L BA	6	1.5 ¹⁾	2 ¹⁾	890	16.1	74	0.98	18-9	2.9	2	1.4	9.43	22.5

1) Temperature rise to class F



IEC DIN	H h	A b	B a	C w ₁	K ¹⁾ s	AB f	BB e	CA	AD ²⁾ g ₄	HD ²⁾ p	AC g	HC	HA c	K1
56	56	90	71	36	6	109	90	65	115	171	104	110	8	9
63	63	100	80	40	7	126	104	72	120	183	122	121	8	11
71	71	112	90	45	7	144	109	86	129	200	142	142	9	11
80	80	125	100	50	10	153	125	89	150	230	160	162	9.5	14
90S	90	140	100	56	10	170	150	113	160	250	180	181	11	15
90L	90	140	125	56	10	170	150	88	160	250	180	181	11	15
100L	100	160	140	63	11	192	166	110	166	266	196	198	12	17

IEC DIN	L k	LB	LC k ₁	AL	AF	BA m	AA n	D/DA d/d ₁	E/EA l/l ₁	F/FA u/u ₁	GD	GA/GC t/t ₁	DB ³⁾ d ₆ /d ₇
56	190	170	210	68	148	22	22	9 j6	20	3	3	10.2	M3
63	213	190	239	66	148	26	26	11 j6	23	4	4	12.5	M4
71	245	215	275	73	148	22	30	14 j6	30	5	5	16	M5
80	272	232	319	79	173	28.5	34.5	19 j6	40	6	6	21.5	M6
90S	317	267	372	85	173	28/53	37	24 j6	50	8	7	27	M8
90L	317	267	372	85	173	28/53	37	24 j6	50	8	7	27	M8
100L	366	306	433	89.5	173	38	44	28 j6	60	8	7	31	M10

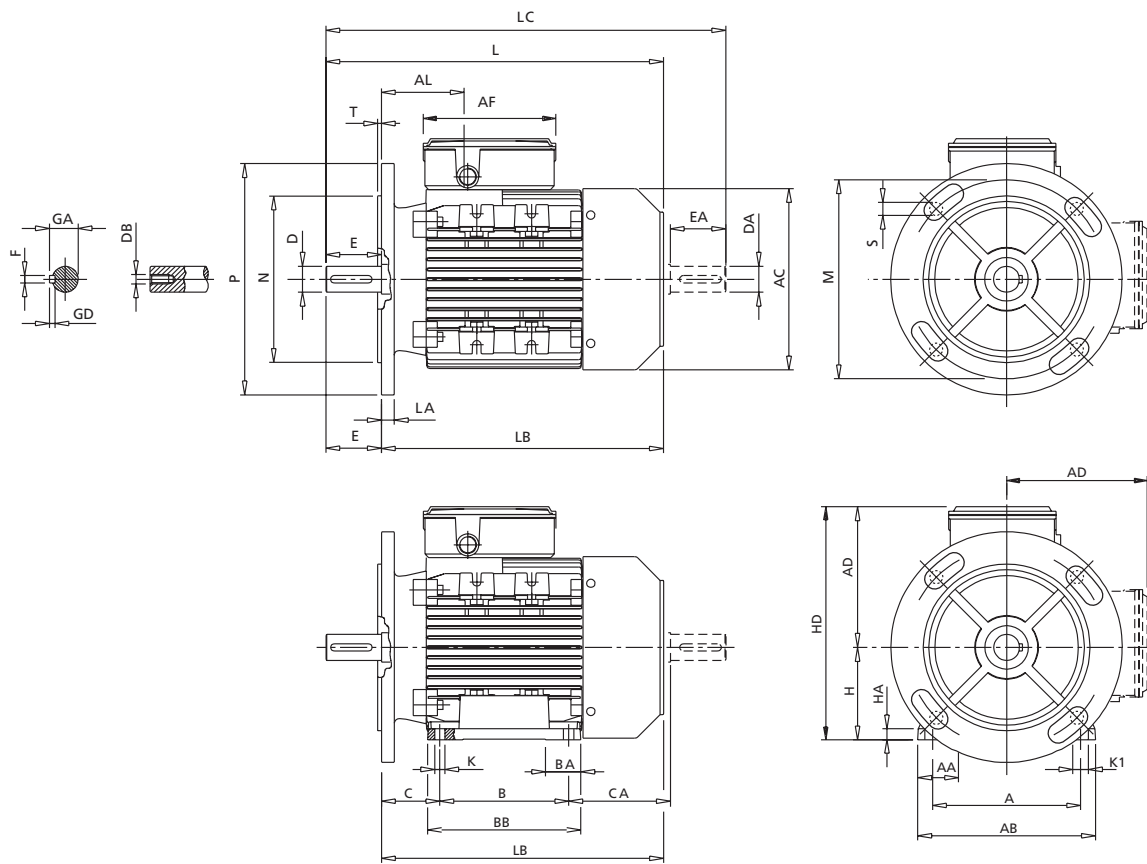
1) Clearance hole for screw

2) Maximum dimension

3) Centering holes in shaft extensions to DIN 332 part 2

SINGLE-PHASE FRAME SIZE 56 - 100 IM B5, IM B35, IM V1

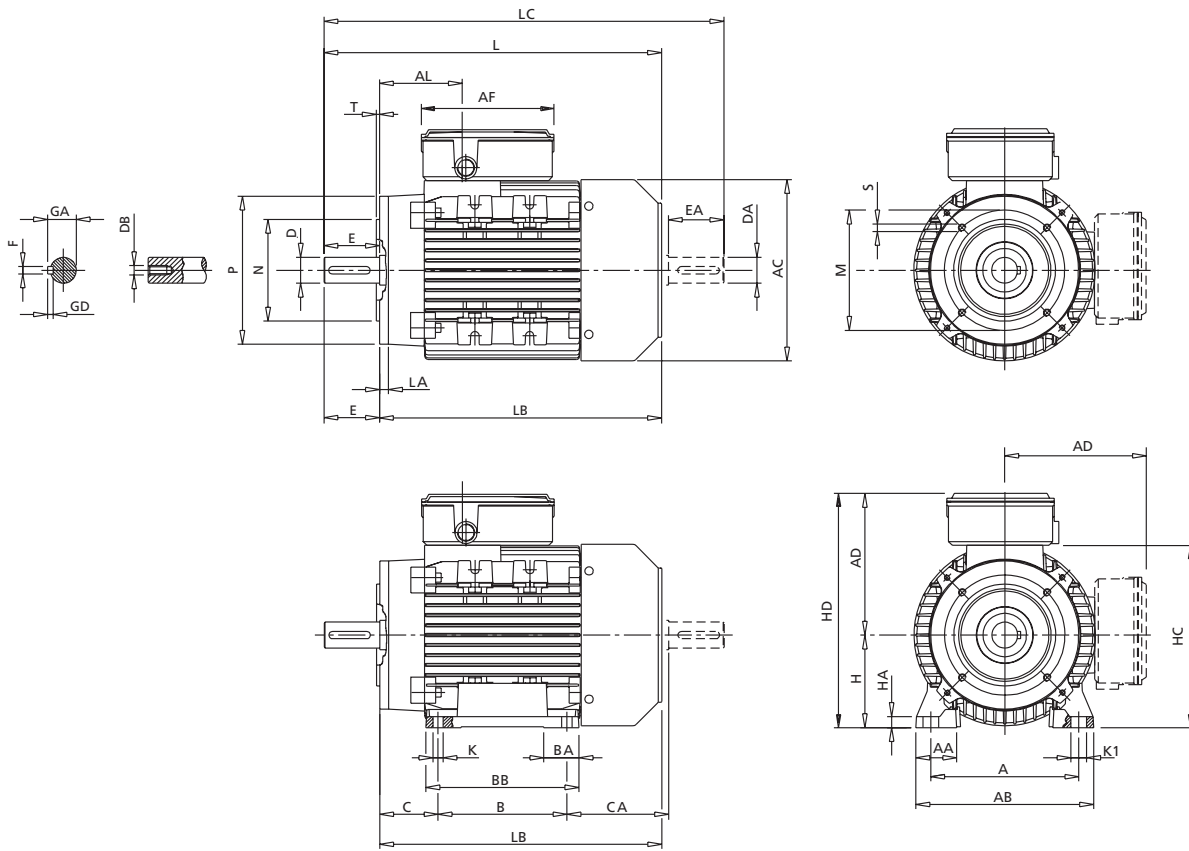
[s]



IEC DIN	M e ₁	N b ₁	P a ₁	T f ₁	LA c ₁	S s ₁	H h	A b	B a	C w ₁	K ¹⁾ s	CA	BB	AA	AB	BA
56	100	80	120	2.5	5.5	7	56	90	71	36	6	65	90	22	109	22
63	115	95	140	3	10	9.5	63	100	80	40	7	72	105	26	126	26
71	130	110	160	3.5	10	9.5	71	112	90	45	7	86	109	30	144	22
80	165	130	200	3.5	10	11.5	80	125	100	50	8	89	125	34.5	153	28.5
90S	165	130	200	3.5	12	11.5	90	140	100	56	10	113	150	37	170	28/53
90L	165	130	200	3.5	12	11.5	90	140	125	56	10	88	150	37	170	28/53
100L	215	180	250	4	14	14	100	160	140	63	11	110	166	44	192	44

IEC DIN	AD ²⁾ g4	HD ²⁾ p	AC g	HA c	K1	L k	LB	LC k ₁	AL	AF	D/DA d/d ₁	E/EA l/l ₁	F/FA u/u ₁	GD	GA/GC t/t ₁	DB ³⁾ d ₁ /d ₂
56	115	171	104	8	9	190	170	210	68	148	9 j6	20	3	3	10.2	M3
63	120	183	122	8	11	213	190	239	66	148	11 j6	23	4	4	12.5	M4
71	129	200	142	9	11	245	215	275	73	148	14 j6	30	5	5	16	M5
80	150	230	160	9.5	14	272	232	319	79	170	19 j6	40	6	6	21.5	M6
90S	160	250	180	11	15	317	267	372	85	170	24 j6	50	8	7	27	M8
90L	160	250	180	11	15	317	267	372	85	170	24 j6	50	8	7	27	M8
100L	166	266	196	12	17	366	306	433	89.5	170	28 j6	60	8	7	31	M10

- 1) Clearance hole for screw
- 2) Maximum dimension
- 3) Centering holes in shaft extensions to DIN 332 part 2



IEC DIN	Small flange						Large flange													
	P a ₁	N b ₁	LA c ₁	M e ₁	T f ₁	S s ₁	P a ₁	N b ₁	LA c ₁	M e ₁	T f ₁	S s ₁	L k	LB	LC k ₁	AL	AF	D/DA d/d ₁	E/EA l/l ₁	F/FA u/u ₁
56Z AA, BA	80	50		65	2.5	M5	105	70	8	85	2.5	M6	190	170	211	62	148	9j6	20	3
63Z AA, BA, CA	90	60		75	2.5	M5	120	80	8	100	2.5	M6	213	190	239	63	148	11j6	23	4
71Z AA, BA, CA	105	70		85	2.5	M6	140	95	8	115	2.5	M8	245	215	281	69	148	14j6	30	5
80Z AA, BA	120	80	8	100	3	M6	160	110	8.5	130	3.5	M8	272	232	319	79	173	19j6	40	6
90S AA, BA	140	95	10	115	3	M8	160	110	9	130	3.5	M8	317	267	372	85	173	24j6	50	8
90L BA, CA, DA	140	95	10	115	3	M8	160	110	9	130	3.5	M8	317	267	372	85	173	24j6	50	8
100L AA, BA, CA	160	110	10	130	3.5	M8	200	130	12	165	3.5	M10	366	306	433	89.5	173	28j6	60	8

IEC DIN	GD	GA/GC t/t ₁	DB ³⁾ d ₆ /d ₇	H	A h	B b	C a	K ¹⁾ w ₁	AB s	BB f	AA e	BA	CA	AD ²⁾	HD ²⁾ g _a	AC m ₁	HC g	HA	K1 c
56Z AA, BA	3	10.2	M3	56	90	71	36	6	109	90	22	22	65	115	171	110	114	8	12
63Z AA, BA, CA	4	12.5	M4	63	100	80	40	7	126	105	26	26	72	120	183	124	127	10	12
71Z AA, BA, CA	5	16	M5	71	112	90	45	7	144	109	30	22	86	129	200	137	143	12	17
80Z AA, BA	6	21.5	M6	80	125	100	50	8	153	125	34.5	28.5	89	150	230	160	162	9.5	14
90S AA, BA	7	27	M8	90	140	100	56	8	170	150	37	37/53	113	160	250	180	181	11	15
90L BA, CA, DA	7	27	M8	90	140	125	56	8	170	150	37	37/53	88	160	250	180	181	11	15
100L AA, BA, CA	7	31	M10	100	160	140	63	10	192	166	44	38	110	166	266	196	198	12	17

1) Clearance hole for screw

2) Maximum dimension

3) Centering holes in shaft extensions to DIN 332 part 2