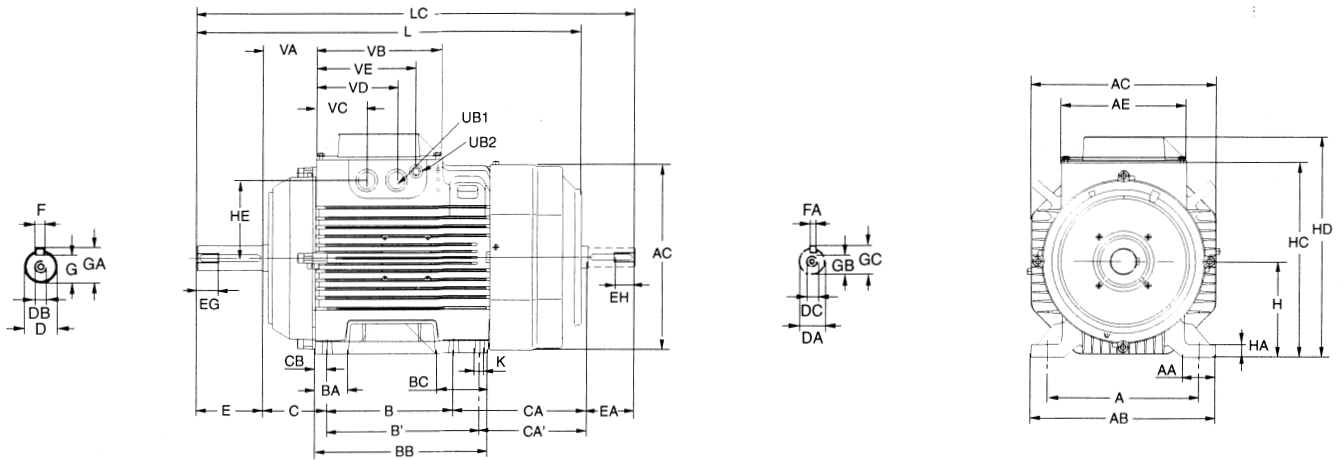


M2AA 160-180

Basic and high output design

Foot-mounted motor IM 1001, IM 1002, IM B 3



IM 1001, IM 1002, IM B 3

| Type | M2AA | A ¹⁾ | AA | AB | AC | AE | B ¹⁾⁷⁾ | B' ¹⁾⁷⁾ | BA | BB | BC | C ¹⁾ | CA ¹⁾ | CA' ¹⁾ | CB | D ¹⁾ | DA ¹⁾ | DB | DC | E | EA | EG | EH | F ¹⁾ |
|-------------------|------|-----------------|------|-----|-----|-----|-------------------|--------------------|----|-------|----|-----------------|------------------|-------------------|----|-----------------|------------------|-----|-----|-----|----|----|----|-----------------|
| 160 ³⁾ | | 254 | 56 | 310 | 310 | 210 | 210 | 254 | 55 | 287.5 | 86 | 108 | 185.5 | 141.5 | 20 | 42 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 12 |
| 160 ⁴⁾ | | 254 | 56 | 310 | 310 | 210 | 210 | 254 | 55 | 287.5 | 86 | 108 | 226.5 | 182.5 | 20 | 42 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 12 |
| 180 ⁵⁾ | | 279 | 65.5 | 340 | 360 | 210 | 241 | 279 | 58 | 316 | 88 | 121 | 218 | 180 | 25 | 48 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 14 |
| 180 ⁶⁾ | | 279 | 65.5 | 340 | 360 | 210 | 241 | 279 | 58 | 316 | 88 | 121 | 238 | 200 | 25 | 48 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 14 |

| Type | M2AA | FA ¹⁾ | G | GA | GB | GC | H ¹⁾ | HA | HC | HD | HE | K | L | LC | UB ²⁾ | UB ²⁾ | VA | VB | VC | VD | VE |
|-------------------|------|------------------|------|------|----|----|-----------------|----|-----|-----|-----|----|-------|-------|------------------|------------------|------|-----|------|-------|-------|
| 160 ³⁾ | | 10 | 37 | 45 | 27 | 35 | 160 | 20 | 325 | 370 | 130 | 15 | 602.5 | 693.5 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 89 | 210 | 84.5 | 134.5 | 167.5 |
| 160 ⁴⁾ | | 10 | 37 | 45 | 27 | 35 | 160 | 20 | 325 | 370 | 130 | 15 | 643.5 | 734.5 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 89 | 210 | 84.5 | 134.5 | 167.5 |
| 180 ⁵⁾ | | 10 | 42.5 | 51.5 | 27 | 35 | 180 | 20 | 360 | 405 | 145 | 15 | 680 | 770 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 77.5 | 210 | 84.5 | 134.5 | 167.5 |
| 180 ⁶⁾ | | 10 | 42.5 | 51.5 | 27 | 35 | 180 | 20 | 360 | 405 | 145 | 15 | 700.5 | 790 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 77.5 | 210 | 84.5 | 134.5 | 167.5 |

¹⁾ Tolerances

| | |
|-------|----------|
| A, B | ISO js14 |
| C, CA | +0 -2 |
| D, DA | ISO k6 |
| F, FA | ISO h9 |
| H | +0 -0.5 |

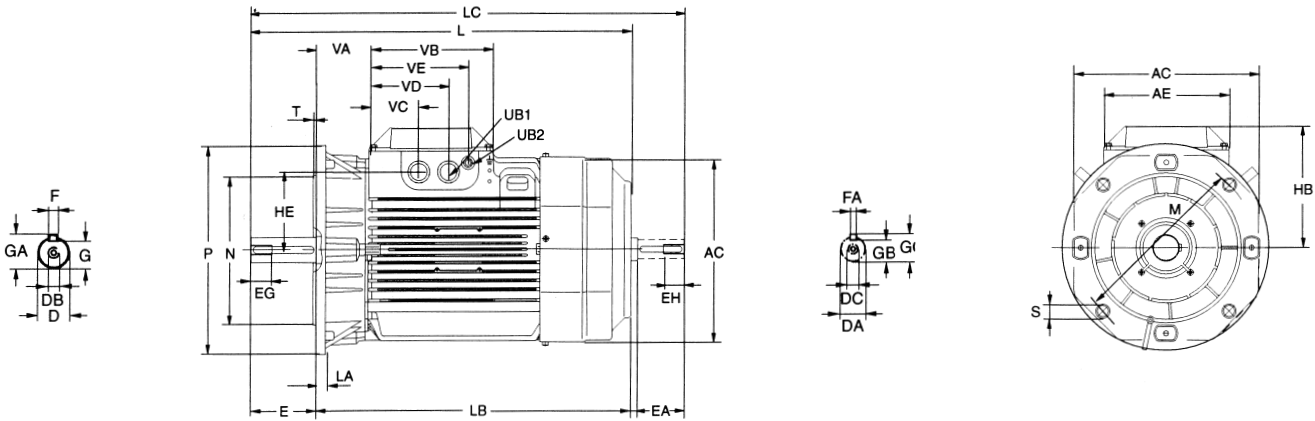
²⁾ Knockout openings.

| |
|--|
| ³⁾ M-2, MA-2, M-4, M-6, M-8, MA-8, L-2, L-4, L-6, MA-2/4, M-2/4, L-2/4, M-4/6, M-4/8, LB-2 and LB-4 |
| ⁴⁾ L-8, L-4/6, L-4/8, LB-6 and LB-8 |
| ⁵⁾ M-2, M-4, L-4, L-6, L-8, M-2/4, M-4/6, M-4/8 and LB-2 |
| ⁶⁾ L-2/4, L-4/6, L-4/8, LB-4, LB-6 and LB-8 |
| ⁷⁾ 160 M: B' not acc. to IEC 160 L: B not acc. to IEC 180 M: B' not acc. to IEC 180 L: B not acc. to IEC |

M2AA 160-180

Basic and high output design

Flange-mounted motor IM 3001, IM 3002, IM B 5



IM 3001, IM 3002, IM B 5

| Type M2AA | AC | AE | D ¹⁾ | DA ¹⁾ | DB | DC | E ²⁾ | EA | EG | EH | F ¹⁾ | FA ¹⁾ | G | GA | GB | GC | HB | HE |
|-------------------|-----|-----|-----------------|------------------|-----|-----|-----------------|----|----|----|-----------------|------------------|------|------|----|----|-----|-----|
| 160 ³⁾ | 310 | 210 | 42 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 12 | 10 | 37 | 45 | 27 | 35 | 210 | 130 |
| 160 ⁴⁾ | 310 | 210 | 42 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 12 | 10 | 37 | 45 | 27 | 35 | 210 | 130 |
| 180 ⁵⁾ | 360 | 210 | 48 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 14 | 10 | 42.5 | 51.5 | 27 | 35 | 225 | 145 |
| 180 ⁶⁾ | 360 | 210 | 48 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 14 | 10 | 42.5 | 51.5 | 27 | 35 | 225 | 145 |

| Type M2AA | L | LA | LB | LC | M | N ¹⁾ | P | S | T | UB1 ²⁾ | UB2 ²⁾ | VA | VB | VC | VD | VE |
|-------------------|-------|----|-------|-------|-----|-----------------|-----|----|---|-------------------|-------------------|------|-----|------|-------|-------|
| 160 ³⁾ | 602.5 | 16 | 492.5 | 693.5 | 300 | 250 | 350 | 19 | 5 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 89 | 210 | 84.5 | 134.5 | 167.5 |
| 160 ⁴⁾ | 643.5 | 16 | 533.5 | 734.5 | 300 | 250 | 350 | 19 | 5 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 89 | 210 | 84.5 | 134.5 | 167.5 |
| 180 ⁵⁾ | 680 | 21 | 570 | 770 | 300 | 250 | 350 | 19 | 5 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 77.5 | 210 | 84.5 | 134.5 | 167.5 |
| 180 ⁶⁾ | 700.5 | 21 | 590.5 | 790 | 300 | 250 | 350 | 19 | 5 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 77.5 | 210 | 84.5 | 134.5 | 167.5 |

¹⁾ Tolerances

D, DA ISO k6
F, FA ISO h9
N ISO j6

²⁾ Knockout openings.

³⁾ M-2, MA-2, M-4, M-6, M-8, MA-8, L-2, L-4, L-6, MA-2/4, M-2/4, L-2/4, M-4/6, M-4/8, LB-2 and LB-4

⁴⁾ L-8, L-4/6, L-4/8, LB-6 and LB-8

⁵⁾ M-2, M-4, L-4, L-6, L-8, M-2/4, M-4/6, M-4/8 and LB-2

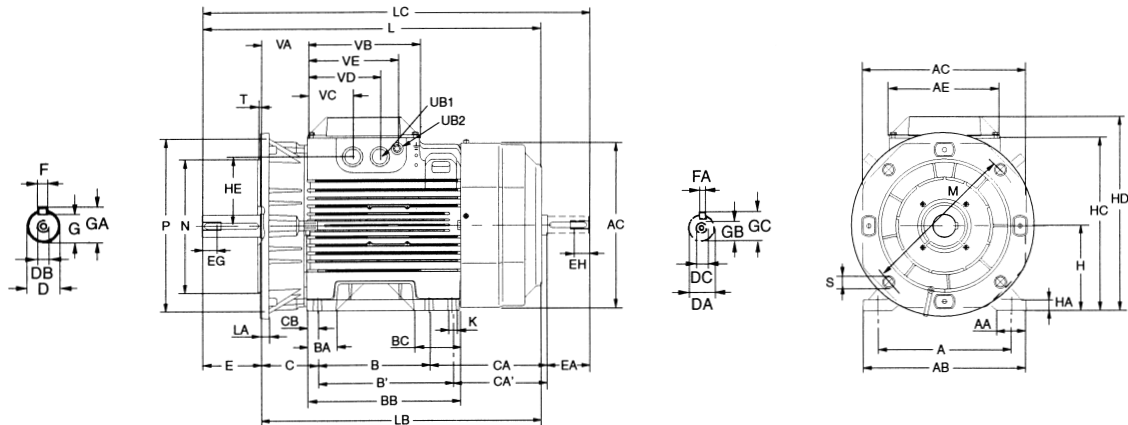
⁶⁾ L-2/4, L-4/6, L-4/8, LB-4, LB-6 and LB-8

⁷⁾ Shoulder of shaft extension and contact surface of flange are in the same plane.

M2AA 160-180

Basic design and high-output design

Foot- and flange-mounted motor IM 2001, IM 2002, IM B 35



IM 2001, IM 2002, IM B 35

| Type | M2AA | A ¹⁾ | AA | AB | AC | AE | B ¹⁾⁸⁾ | B' ¹⁾⁸⁾ | BA | BB | BC | C ¹⁾ | CA ¹⁾ | CA' ¹⁾ | CB | D ¹⁾ | DA ¹⁾ | DB | DC | E ⁷⁾ | EA | EG | EH | F ¹⁾ |
|-------------------|------|-----------------|------|-----|-----|-----|-------------------|--------------------|----|-------|----|-----------------|------------------|-------------------|----|-----------------|------------------|-----|-----|-----------------|----|----|----|-----------------|
| 160 ³⁾ | | 254 | 56 | 310 | 310 | 210 | 210 | 254 | 55 | 287.5 | 86 | 108 | 185.5 | 141.5 | 20 | 42 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 12 |
| 160 ⁴⁾ | | 254 | 56 | 310 | 310 | 210 | 210 | 254 | 55 | 287.5 | 86 | 108 | 226.5 | 182.5 | 20 | 42 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 12 |
| 180 ⁵⁾ | | 279 | 65.5 | 340 | 360 | 210 | 241 | 279 | 58 | 316 | 88 | 121 | 218 | 180 | 25 | 48 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 14 |
| 180 ⁶⁾ | | 279 | 65.5 | 340 | 360 | 210 | 241 | 279 | 58 | 316 | 88 | 121 | 238 | 200 | 25 | 48 | 32 | M16 | M12 | 110 | 80 | 36 | 28 | 14 |

| Type | M2AA | FA ¹⁾ | G | GA | GB | GC | H ¹⁾ | HA | HB | HC | HD | HE | K | L | LA | LB | LC | M | N ¹⁾ | P | S |
|-------------------|------|------------------|------|------|----|----|-----------------|----|-----|-----|-----|-----|----|-------|----|-------|-------|-----|-----------------|-----|----|
| 160 ³⁾ | | 10 | 37 | 45 | 27 | 35 | 160 | 20 | 210 | 325 | 370 | 130 | 15 | 602.5 | 16 | 492.5 | 693.5 | 300 | 250 | 350 | 19 |
| 160 ⁴⁾ | | 10 | 37 | 45 | 27 | 35 | 160 | 20 | 210 | 325 | 370 | 130 | 15 | 643.5 | 16 | 533.5 | 734.5 | 300 | 250 | 350 | 19 |
| 180 ⁵⁾ | | 10 | 42.5 | 51.5 | 27 | 35 | 180 | 20 | 225 | 360 | 405 | 145 | 15 | 680 | 21 | 570 | 770 | 300 | 250 | 350 | 19 |
| 180 ⁶⁾ | | 10 | 42.5 | 51.5 | 27 | 35 | 180 | 20 | 225 | 360 | 405 | 145 | 15 | 700.5 | 21 | 590.5 | 790 | 300 | 250 | 350 | 19 |

| Type | M2AA | T | UB ²⁾ | UB ²⁾ | VA | VB | VC | VD | VE |
|-------------------|------|---|------------------|------------------|------|-----|------|-------|-------|
| 160 ³⁾ | | 5 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 89 | 210 | 84.5 | 134.5 | 167.5 |
| 160 ⁴⁾ | | 5 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 89 | 210 | 84.5 | 134.5 | 167.5 |
| 180 ⁵⁾ | | 5 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 77.5 | 210 | 84.5 | 134.5 | 167.5 |
| 180 ⁶⁾ | | 5 | Pr 37, Pg 29 | Pr 15.4, Pg 9 | 77.5 | 210 | 84.5 | 134.5 | 167.5 |

¹⁾ Tolerances

| | |
|-------|----------|
| A, B | ISO js14 |
| C, CA | +0 -2 |
| D, DA | ISO k6 |
| F, FA | ISO h9 |
| H | +0 -0.5 |
| N | ISO j6 |

²⁾ Knockout openings.

- ³⁾ M-2, MA-2, M-4, M-6, M-8, MA-8, L-2, L-4, L-6, MA-2/4, M-2/4, L-2/4, M-4/6, M-4/8, LB-2 and LB-4
- ⁴⁾ L-8, L-4/6, L-4/8, LB-6 and LB-8
- ⁵⁾ M-2, M-4, L-4, L-6, L-8, M-2/4, M-4/6, M-4/8 and LB-2
- ⁶⁾ L-2/4, L-4/6, L-4/8, LB-4, LB-6 and LB-8
- ⁷⁾ Shoulder of shaft extension and contact surface of flange are in the same plan.
- ⁸⁾ 160 M: B' not acc. to IEC
 160 L: B not acc. to IEC
 180 M: B' not acc. to IEC
 180 L: B not acc. to IEC