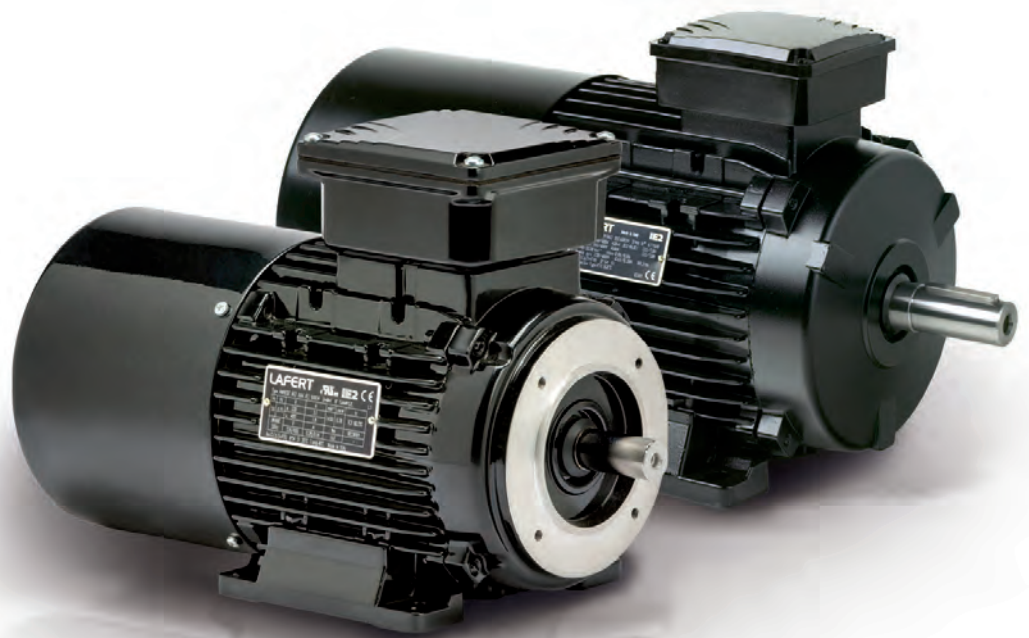


BRAKE MOTORS

HIGH TORQUE - DC BRAKE (AMBY SERIES)
HIGH TORQUE - AC BRAKE (AMBZ SERIES)
LOW TORQUE - DC BRAKE (AMS SERIES)





The Lafert range of Brake Motors has the flexibility to combine all options of both **three-phase (IE1, IE2 or IE3 efficiency level or two-speed) and single-phase** motors. DC and AC brakes are available as is the extensive Lafert experience of customisation. With a wealth of alternative components to choose from, Lafert can manufacture Brake Motors for many special executions (for hostile, marine, off-shore environments, as well as those prone to corrosion, especially in the sector of wind turbines for the nacelle rotation).

STANDARD FEATURES

| | AMBY SERIES | AMBZ SERIES | AMS SERIES |
|----------------------------|---|--|---|
| Frame size | - 63 to 160 | - 63 to 160 | - 63 to 160 |
| Power | - 0.12 to 22kW | - 0.12 to 22kW | - 0.12 to 22kW |
| Poles | - 2, 4, 6, 8 (two speed on request) | - 2, 4, 6, 8 (two speed on request) | - 2, 4, 6, 8 (two speed on request) |
| Insulation class | - F | - F | - F |
| Degree of protection | - IP54 - IP55 (on request) | - IP54 - IP55 (on request) | - IP54 - IP55 (on request) |
| Efficiency level | - IE1, IE2 or IE3 | - IE1, IE2 or IE3 | - IE1, IE2 or IE3 |
| Braking torque | - 1.8 to 250Nm; $M_b \geq 1,5M_n$ | - 1.8 to 250Nm; $M_b \geq 1,5M_n$ | - 3 to 30Nm; $M_b \leq M_n$ |
| Brake | - DC Spring-applied electromagnetic fail safe brake with step-adjustable braking torque | - AC Spring-applied electromagnetic fail safe brake with step-adjustable braking torque | - DC Spring-applied electromagnetic fail safe brake with fixed braking torque |
| Braking surface | - Double braking surface, fitted with asbestos free friction materials | - Double braking surface, fitted with asbestos free friction materials | - Single braking surface, manufactured with asbestos free friction materials |
| Power supply | - With rectifier (via the terminal board): 230V 50/60Hz, others on request | - Brake power supply: 230/400V 50Hz on dedicated terminal board | - With rectifier (via the terminal board): 230V 50/60Hz, others on request |
| Special executions Options | <ul style="list-style-type: none"> - cURus and cURus Energy certification available on request - Other power supply with rectifier (via the terminal board) - Rectifiers for fast braking and release - Micro-switch for brake status/air gap monitoring - Anti-sticking executions - Executions for yaw applications on wind turbines (even Off shore) - Executions with brake parts in stainless steel - Silenced execution for theatres - Shaft ends (both LC and LOC) in stainless steel - Wide range of special execution (encoder, axial forced-ventilation, brake hand release lever, flywheel,...) - Wide range of surface painting/ finish to meet every environmental conditions | <ul style="list-style-type: none"> - cURus and cURus Energy certification available on request - Other brake supply values - Micro-switch for brake status/air gap monitoring - Anti-sticking executions - Executions for yaw applications on wind turbines (even Off shore) - Executions with brake parts in stainless steel - Shaft ends (both LC and LOC) in stainless steel - Wide range of special execution (encoder, axial forced-ventilation, brake hand release lever, flywheel,...) - Wide range of surface painting, finish to meet every environmental conditions | <ul style="list-style-type: none"> - cURus and cURus Energy certification available on request - CCC certification available on request - Other power supply with rectifier (via the terminal board) - Rectifiers for fast braking and release - Execution with increased torque (+50% of catalogue value) - Shaft ends (both LC and LOC) in stainless steel - Wide range of special execution (encoder, axial forced-ventilation, brake hand release lever, ...) - Wide range of surface painting/ finish to meet every environmental conditions |
| Target applications | <ul style="list-style-type: none"> Automation Lifting Gear motors Wind turbines (yaw application) Transfer machines Packing machineries Food & Beverage | <ul style="list-style-type: none"> Lifting Gear motors Wind turbines (yaw application) Ceramic industry Food & Beverage | <ul style="list-style-type: none"> Automation Woodworking machineries Cutting machineries Machineries for the construction sector (bending machines) Food & Beverage |

STANDARD EFFICIENCY BRAKE MOTORS - IE1

EFFICIENCY LEVEL ACCORDING TO IEC 60034-30-1:2014
EFFICIENCY TESTING METHOD IEC 60034-2-1;2014

IE code not applicable to motors 2, 4, 6 poles with PN < 0.75 kW. Efficiency testing method: IEC 60034-2;1996

FOR MAINS VOLTAGE
400 V - 50 HZ

IE1

| Type | kW | HP | min ⁻¹ | M _N Nm | IE1 η | | | cos φ | I _N | | I _A /I _N | M _A /M _N | M _K /M _N | |
|----------------------------------|----|------|-------------------|----------------------|------------|------|------|---------------|----------------|----------|--------------------------------|--------------------------------|--------------------------------|-----|
| | | | | | 50% | 75% | 100% | | 400V | 380-420V | | | | |
| 1500 min ⁻¹ (4 poles) | | | | | | | | | | | | | | |
| AM... 63Z AA | 4 | 0.12 | 0.16 | 1350 | 0.8 | 46.0 | 50.0 | 57.0 | 0.65 | 0.50 | 0.55 | 2.4 | 2.0 | 2.0 |
| AM... 63Z BA | 4 | 0.18 | 0.25 | 1330 | 1.3 | 47.0 | 50.0 | 58.0 | 0.70 | 0.65 | 0.70 | 2.3 | 1.9 | 1.9 |
| AM... 63Z CA | 4* | 0.25 | 0.33 | 1360 | 1.8 | 49.0 | 52.5 | 58.0 | 0.74 | 0.85 | 0.90 | 2.7 | 2.2 | 2.1 |
| AM... 71Z AA | 4 | 0.25 | 0.33 | 1340 | 1.8 | 55.0 | 59.0 | 64.0 | 0.66 | 0.90 | 1.00 | 3.2 | 1.9 | 2.0 |
| AM... 71Z BA | 4 | 0.37 | 0.5 | 1370 | 2.6 | 60.0 | 63.0 | 67.0 | 0.67 | 1.20 | 1.25 | 3.3 | 2.2 | 2.2 |
| AM... 71Z CA | 4* | 0.55 | 0.75 | 1380 | 3.8 | 61.0 | 64.0 | 69.0 | 0.68 | 1.70 | 1.80 | 3.6 | 2.4 | 2.4 |
| AM... 80Z AA | 4 | 0.55 | 0.75 | 1400 | 3.8 | 67.0 | 69.0 | 70.0 | 0.72 | 1.6 | 1.7 | 3.6 | 2.6 | 2.6 |
| AM... 80Z BA | 4 | 0.75 | 1 | 1410 | 5.1 | 68.7 | 70.8 | 72.4 | 0.72 | 2.1 | 2.2 | 4.4 | 2.8 | 2.8 |
| AM... 80Z CA | 4* | 1.1 | 1.5 | 1385 | 7.6 | 73.4 | 75.7 | 75.2 | 0.77 | 2.8 | 2.9 | 4.4 | 2.5 | 2.6 |
| AM... 90S AA | 4 | 1.1 | 1.5 | 1400 | 7.5 | 75.8 | 76.0 | 75.4 | 0.78 | 2.7 | 2.9 | 5.2 | 2.5 | 2.8 |
| AM... 90L BA | 4 | 1.5 | 2 | 1400 | 10.2 | 77.6 | 77.8 | 77.5 | 0.78 | 3.6 | 3.7 | 5.7 | 2.8 | 3.0 |
| AM... 90L CA | 4* | 1.8 | 2.5 | 1380 | 12.5 | 76.3 | 76.5 | 75.9 | 0.81 | 4.2 | 4.3 | 5.5 | 2.7 | 2.9 |
| AM... 90L DA | 4* | 2.2 | 3 | 1400 | 15.0 | 78.3 | 78.5 | 77.9 | 0.77 | 5.3 | 5.5 | 4.8 | 2.9 | 3.2 |
| AM... 100L AA | 4 | 2.2 | 3 | 1435 | 14.6 | 76.5 | 79.1 | 79.9 | 0.74 | 5.4 | 5.6 | 5.3 | 2.5 | 2.7 |
| AM... 100L BA | 4 | 3 | 4 | 1425 | 20.1 | 82.0 | 83.0 | 81.6 | 0.78 | 6.8 | 6.9 | 4.6 | 2.4 | 2.5 |
| AM... 100L CA | 4* | 4 | 5.5 | 1400 | 27.3 | 80.8 | 81.8 | 80.4 | 0.78 | 9.2 | 9.3 | 6.0 | 2.6 | 2.9 |
| AM... 112M AA | 4 | 4.0 | 5.5 | 1430 | 26.7 | 83.2 | 83.9 | 83.1 | 0.82 | 8.5 | 8.8 | 6.3 | 2.2 | 2.8 |
| AM... 112M BA | 4* | 5.5 | 7.5 | 1430 | 36.7 | 84.1 | 84.8 | 84.0 | 0.83 | 11.4 | 11.7 | 6.5 | 2.2 | 2.9 |
| AM... 132S ZA | 4 | 5.5 | 7.5 | 1430 | 36.7 | 87.2 | 87.1 | 86.1 | 0.82 | 11.3 | 11.7 | 5.8 | 3.0 | 3.0 |
| AM... 132M ZA | 4 | 7.5 | 10 | 1440 | 49.7 | 87.3 | 87.2 | 86.2 | 0.83 | 15.3 | 15.5 | 6.8 | 3.1 | 3.1 |
| AM... 132M RA | 4* | 9.2 | 12.5 | 1440 | 61.0 | 86.5 | 87.5 | 87.3 | 0.86 | 17.7 | 17.9 | 8.0 | 3.5 | 3.5 |
| AM... 132M TA | 4* | 11 | 15 | 1440 | 72.9 | 83.5 | 83.9 | 84.5 | 0.87 | 21.5 | 22.0 | 8.3 | 3.1 | 3.3 |
| AM... 160M XA | 4 | 11 | 15 | 1460 | 71.9 | 88.5 | 89.3 | 88.7 | 0.80 | 22.4 | 22.7 | 7.5 | 2.5 | 3.1 |
| AM... 160L XA | 4 | 15 | 20 | 1460 | 98.1 | 89.4 | 90.2 | 89.6 | 0.84 | 28.8 | 29.6 | 7.0 | 2.5 | 3.3 |
| AM ... 160L ZA | 4* | 18.5 | 25 | 1460 | 121.8 | 89.9 | 90.7 | 90.1 | 0.84 | 35.4 | 36.0 | 7.6 | 2.5 | 3.3 |
| AM ... 160L RA | 4* | 22 | 30 | 1460 | 143.9 | 90.4 | 91.2 | 90.6 | 0.86 | 41.0 | 42.0 | 7.8 | 2.4 | 3.2 |

HIGH EFFICIENCY BRAKE MOTORS – IE2

EFFICIENCY LEVEL ACCORDING TO IEC 60034-30-1:2014
EFFICIENCY TESTING METHOD IEC 60034-2-1;2014

FOR MAINS VOLTAGE
400 V - 50 HZ

IE2

| Type | kW | HP | min ⁻¹ | M _N Nm | IE2 η | | | cos φ | I _N 400V | I _A /I _N | M _A /M _N | M _K /M _N | |
|----------------------------------|----|------|-------------------|----------------------|------------|------|------|---------------|------------------------|--------------------------------|--------------------------------|--------------------------------|-----|
| | | | | | 50% | 75% | 100% | | | | | | |
| 1500 min ⁻¹ (4 poles) | | | | | | | | | | | | | |
| AMHE ... 80Z AA | 4 | 0.75 | 1 | 1430 | 5.0 | 79.2 | 80.3 | 80.2 | 0.76 | 1.8 | 5.5 | 2.8 | 3.0 |
| AMHE ... 90S AA | 4 | 1.1 | 1.5 | 1430 | 7.3 | 81.4 | 82.7 | 82.5 | 0.77 | 2.5 | 6.1 | 4.0 | 4.1 |
| AMHE ... 90L BA | 4 | 1.5 | 2 | 1430 | 10.0 | 82.0 | 83.5 | 83.0 | 0.77 | 3.4 | 6.4 | 3.9 | 4.0 |
| AMHE ... 100L AA | 4 | 2.2 | 3 | 1450 | 14.5 | 84.0 | 85.3 | 85.1 | 0.74 | 5.1 | 6.0 | 3.2 | 3.4 |
| AMHE ... 100L BA | 4 | 3 | 4 | 1440 | 19.9 | 85.3 | 86.6 | 86.4 | 0.77 | 6.5 | 6.3 | 3.4 | 3.6 |
| AMHE ... 112M AA | 4 | 4 | 5.5 | 1450 | 26.3 | 86.0 | 87.3 | 87.1 | 0.78 | 8.5 | 6.1 | 3.1 | 3.3 |
| AMHE ... 132S RA | 4 | 5.5 | 7.5 | 1450 | 36.2 | 87.5 | 88.3 | 88.1 | 0.84 | 10.8 | 7.4 | 3.0 | 3.3 |
| AMHE ... 132M TA | 4 | 7.5 | 10 | 1450 | 49.4 | 88.5 | 89.4 | 89.2 | 0.85 | 14.4 | 7.4 | 3.0 | 3.3 |
| AMHE ... 160M ZA | 4 | 11 | 15 | 1460 | 71.9 | 89.4 | 90.3 | 90.1 | 0.82 | 22.0 | 6.9 | 2.3 | 2.9 |
| AMHE ... 160L ZA | 4 | 15 | 20 | 1460 | 98.1 | 90.6 | 91.2 | 91.0 | 0.84 | 29.0 | 7.4 | 2.5 | 3.1 |

* Higher output (progressive motor)

For maximum friction work per stop consult us

Motors @ 460 V - 60 Hz available on request

STANDARD EFFICIENCY BRAKE MOTORS – IE1

AMBY SERIES – HIGH TORQUE - DC BRAKE
 AMBZ SERIES – HIGH TORQUE - AC BRAKE
 AMS SERIES – LOW TORQUE - DC BRAKE

IE1

| Type | AMBY | | | | AMBZ | | | | AMS | | | | |
|----------------------------------|-----------------------------------|--------------------|------------------------------|-------|-----------------------------------|--------------------|------------------------------|-------|-----------------------------------|----------------|------------------------------|------|------|
| | J | M _{b max} | z _L ¹⁾ | kg | J | M _{b max} | z _L ¹⁾ | kg | J | M _b | z _L ¹⁾ | kg | |
| | 10 ⁻³ kgm ² | Nm | c/h | | 10 ⁻³ kgm ² | Nm | c/h | | 10 ⁻³ kgm ² | Nm | c/h | | |
| 1500 min ⁻¹ (4 poles) | | | | | | | | | | | | | |
| AM... 63Z AA | 4 | 0.31 | 3.5 | 13200 | 5.4 | 0.31 | 3.5 | 15000 | 5.2 | 0.54 | 3 | 7500 | 4.8 |
| AM... 63Z BA | 4 | 0.35 | 3.5 | 12500 | 6.2 | 0.35 | 3.5 | 14000 | 6.0 | 0.59 | 3 | 7500 | 5.6 |
| AM... 63Z CA | 4* | 0.38 | 3.5 | 11800 | 6.3 | 0.38 | 3.5 | 13200 | 6.1 | 0.61 | 3 | 6700 | 5.7 |
| AM... 71Z AA | 4 | 0.70 | 3.5(7.5) ²⁾ | 7500 | 8.1 | 0.70 | 3.5(7.5) ²⁾ | 8500 | 7.9 | 1.13 | 4 | 5000 | 7.5 |
| AM... 71Z BA | 4 | 0.87 | 7.5 | 7250 | 9.1 | 0.87 | 7.5 | 8150 | 8.8 | 1.26 | 4 | 4850 | 7.8 |
| AM... 71Z CA | 4* | 1.11 | 7.5 | 6900 | 10.4 | 1.11 | 7.5 | 7800 | 10.1 | 1.50 | 4 | 4500 | 9.1 |
| AM... 80Z AA | 4 | 1.49 | 7.5(15) ²⁾ | 6700 | 12.4 | 1.49 | 7.5(15) ²⁾ | 6700 | 12.1 | 2.37 | 7 | 4250 | 11.0 |
| AM... 80Z BA | 4 | 1.93 | 15 | 6300 | 14.4 | 1.93 | 15 | 6300 | 14.3 | 2.77 | 7 | 4000 | 12.1 |
| AM... 80Z CA | 4* | 2.33 | 15 | 6000 | 15.7 | 2.33 | 15 | 6000 | 15.6 | 3.16 | 7 | 3750 | 13.4 |
| AM... 90S AA | 4 | 2.36 | 15(40) ²⁾ | 5000 | 18.0 | 2.36 | 15(40) ²⁾ | 5650 | 17.9 | 3.28 | 7 | 3550 | 15.5 |
| AM... 90L BA | 4 | 3.12 | 40 | 4750 | 21.1 | 3.12 | 40 | 5350 | 21.8 | 3.85 | 7 | 3350 | 16.3 |
| AM... 90L CA | 4* | 3.69 | 40 | 4550 | 22.3 | 3.69 | 40 | 5150 | 23.0 | 4.43 | 7 | 3250 | 17.5 |
| AM... 90L DA | 4* | 3.98 | 40 | 4300 | 24.8 | 3.98 | 40 | 4850 | 25.5 | 4.71 | 7 | 3150 | 20.0 |
| AM... 100L AA | 4 | 4.83 | 40(75) ²⁾ | 4500 | 28.1 | 4.83 | 40(75) ²⁾ | 5050 | 28.8 | 7.4 | 13 | 2500 | 23.8 |
| AM... 100L BA | 4 | 6.08 | 40(75) ²⁾ | 4250 | 31.1 | 6.08 | 40(75) ²⁾ | 4800 | 31.8 | 8.7 | 13 | 2350 | 26.8 |
| AM... 100L CA | 4* | 7.24 | 75 | 4000 | 37.0 | 7.24 | 75 | 4500 | 38.4 | 9.3 | 13 | 2200 | 29.3 |
| AM... 112M AA | 4 | 11.60 | 75 | 2500 | 42.4 | 11.60 | 75 | 2800 | 43.8 | 13.7 | 13 | 1500 | 34.2 |
| AM... 112M BA | 4* | 14.42 | 75 | 2240 | 46.9 | 14.42 | 75 | 2500 | 48.3 | 16.5 | 13 | 1320 | 38.7 |
| AM... 132S ZA | 4 | 22.02 | 75(150) ²⁾ | 2000 | 60 | 22.02 | 75(150) ²⁾ | 2250 | 61 | 25.9 | 30 | 1180 | 51 |
| AM... 132M ZA | 4 | 28.70 | 75(150) ²⁾ | 1800 | 69 | 28.70 | 75(150) ²⁾ | 2000 | 70 | 32.6 | 30 | 1000 | 60 |
| AM... 132M RA | 4* | 33.41 | 150 | 1500 | 87 | 33.41 | 150 | 1690 | 89 | 35.9 | 30 | 800 | 74 |
| AM... 132M TA | 4* | 33.41 | 150 | 1500 | 87 | 33.41 | 150 | 1690 | 89 | 35.9 | 30 | 800 | 74 |
| AM... 160M XA | 4 | 69 | 150(250) ²⁾ | 670 | 115 | 69 | 150(250) ²⁾ | 750 | 118 | 71 | 30 | 560 | 98 |
| AM... 160L XA | 4 | 90 | 150(250) ²⁾ | 600 | 133 | 90 | 150(250) ²⁾ | 675 | 136 | 92 | 30 | 500 | 117 |
| AM... 160L ZA | 4* | 108 | 250 | 580 | 157 | 108 | 250 | 650 | 156 | 105 | 30 | 480 | 126 |
| AM... 160L RA | 4* | 120 | 250 | 550 | 168 | 120 | 250 | 600 | 168 | - 3) | - 3) | - 3) | - 3) |

HIGH EFFICIENCY BRAKE MOTORS – IE2

AMHEBY SERIES – HIGH TORQUE - DC BRAKE
 AMHEBZ SERIES – HIGH TORQUE - AC BRAKE
 AMHES SERIES – LOW TORQUE - DC BRAKE

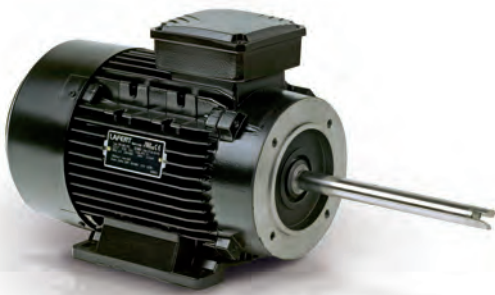
IE2

| Type | AMHEBY | | | | AMHEBZ | | | | AMHES | | | | |
|----------------------------------|-----------------------------------|--------------------|------------------------------|------|-----------------------------------|--------------------|------------------------------|------|-----------------------------------|----------------|------------------------------|------|------|
| | J | M _{b max} | z _L ¹⁾ | kg | J | M _{b max} | z _L ¹⁾ | kg | J | M _b | z _L ¹⁾ | kg | |
| | 10 ⁻³ kgm ² | Nm | c/h | | 10 ⁻³ kgm ² | Nm | c/h | | 10 ⁻³ kgm ² | Nm | c/h | | |
| 1500 min ⁻¹ (4 poles) | | | | | | | | | | | | | |
| AMHE ... 80Z AA | 4 | 2.6 | 15 | 5800 | 15.7 | 2.6 | 15 | 5800 | 15.7 | 3.5 | 7 | 3500 | 14.3 |
| AMHE ... 90S AA | 4 | 2.9 | 15(40) ²⁾ | 4650 | 20.5 | 2.9 | 15(40) ²⁾ | 5250 | 20.4 | 3.8 | 7 | 3250 | 17.5 |
| AMHE ... 90L BA | 4 | 3.7 | 40 | 4150 | 24.8 | 3.7 | 40 | 4700 | 25.5 | 4.4 | 7 | 3000 | 20.0 |
| AMHE ... 100L AA | 4 | 5.7 | 40(75) ²⁾ | 4250 | 31.1 | 5.7 | 40(75) ²⁾ | 4800 | 31.8 | 8.3 | 13 | 2350 | 26.8 |
| AMHE ... 100L BA | 4 | 7.2 | 40(75) ²⁾ | 4050 | 33.6 | 7.24 | 40(75) ²⁾ | 4550 | 34.3 | 9.3 | 13 | 2000 | 29.3 |
| AMHE ... 112M AA | 4 | 13.0 | 75 | 2370 | 44.7 | 13.0 | 75 | 2650 | 46.1 | 15.1 | 13 | 1410 | 36.5 |
| AMHE ... 132S RA | 4 | 25.4 | 75(150) ²⁾ | 1800 | 69 | 25.4 | 75(150) ²⁾ | 2000 | 70 | 29.2 | 30 | 1000 | 60 |
| AMHE ... 132M TA | 4 | 33.4 | 75(150) ²⁾ | 1500 | 87 | 33.4 | 75(150) ²⁾ | 1690 | 89 | 35.9 | 30 | 800 | 74 |
| AMHE ... 160M ZA | 4 | 90 | 150(250) ²⁾ | 600 | 133 | 90 | 150(250) ²⁾ | 675 | 136 | 92 | 30 | 500 | 117 |
| AMHE ... 160L ZA | 4 | 102 | 150(250) ²⁾ | 585 | 143 | 102 | 150(250) ²⁾ | 655 | 145 | 105 | 30 | 480 | 126 |

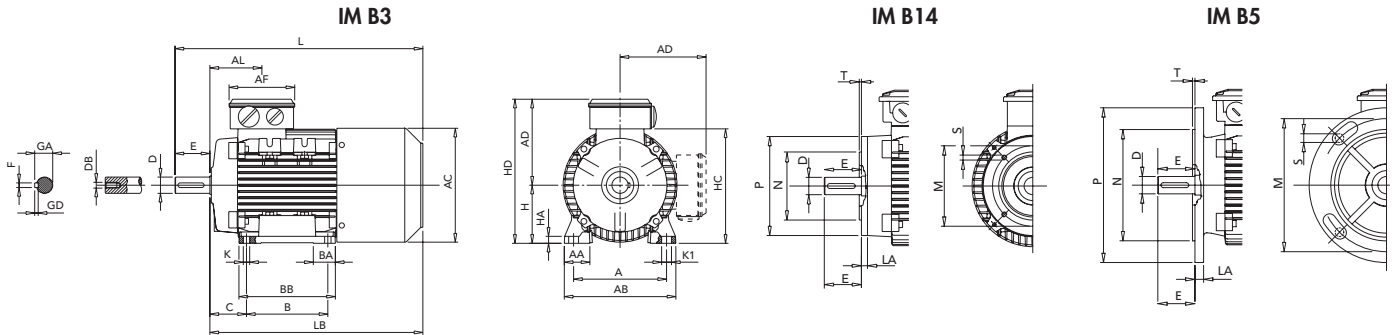
* Higher output (progressive motor)

1) Max. Number of no-load starts/hour with cyclic duration factor 50%

2) On request



BRAKE MOTORS FRAME SIZE 63-160 IM B3, IM B5, IM B14 AMBY - AMBZ - AMS SERIES



| IEC | H | A | B | C | K ¹⁾ | AB | BB | AD ²⁾ | HD ²⁾ | AC | HC | HA | K1 | L | L* | LB | LB* | AL | AF | BA | AA | D | E | F | GD | GA | DB ³⁾ |
|--------------------|-----|-----|-----|-----|-----------------|-----|-----|------------------|------------------|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-------|----|----|-----|----|----|------|------------------|
| 63 | 63 | 100 | 80 | 40 | 7 | 120 | 100 | 96 | 159 | 124 | 120 | 8 | 11 | 267 | 226 | 244 | 203 | 63 | 92 | 29 | 30 | 11 | 23 | 4 | 4 | 12.5 | M4 |
| 71 | 71 | 112 | 90 | 45 | 8 | 135 | 108 | 110 | 181 | 138 | 142 | 8 | 11 | 300 | 255 | 270 | 225 | 69 | 92 | 28 | 31 | 14 | 30 | 5 | 5 | 16 | M5 |
| 80 | 80 | 125 | 100 | 50 | 10 | 153 | 125 | 129 | 208 | 156 | 161 | 9.5 | 14 | 350 | 294 | 310 | 254 | 79 | 116 | 29 | 35 | 19 | 40 | 6 | 6 | 21.5 | M6 |
| 90S | 90 | 140 | 100 | 56 | 10 | 170 | 150 | 137 | 227 | 178 | 180 | 11 | 15 | 403 | 340 | 353 | 290 | 85 | 116 | 28/53 | 37 | 24 | 50 | 8 | 7 | 27 | M8 |
| 90L | 90 | 140 | 125 | 56 | 10 | 170 | 150 | 137 | 227 | 178 | 180 | 11 | 15 | 403 | 340 | 353 | 290 | 85 | 116 | 28/53 | 37 | 24 | 50 | 8 | 7 | 27 | M8 |
| 100 | 100 | 160 | 140 | 63 | 11 | 192 | 166 | 144 | 244 | 192 | 197 | 12 | 17 | 465 | 379 | 405 | 319 | 91 | 116 | 38 | 44 | 28 | 60 | 8 | 7 | 31 | M10 |
| 112 | 112 | 190 | 140 | 70 | 12.5 | 220 | 175 | 160 | 272 | 222 | 225 | 15 | 19 | 487 | 396 | 427 | 336 | 92 | 116 | 46 | 48 | 28 | 60 | 8 | 7 | 31 | M10 |
| 132S | 132 | 216 | 140 | 89 | 12 | 256 | 180 | 194 | 326 | 259 | 261 | 17 | 20 | 592 | 480 | 512 | 400 | 100 | 133 | 45 | 59 | 38 | 80 | 10 | 8 | 41 | M12 |
| 132M | 132 | 216 | 178 | 89 | 12 | 256 | 218 | 194 | 326 | 259 | 261 | 17 | 20 | 612 | 500 | 532 | 420 | 120 | 133 | 45 | 59 | 38 | 80 | 10 | 8 | 41 | M12 |
| 160M | 160 | 254 | 210 | 108 | 14 | 320 | 270 | 237 | 397 | 316 | 317 | 23 | 18 | 721 | 614 | 611 | 504 | 146 | 150 | 65 | 76 | 42 | 110 | 12 | 8 | 45 | M16 |
| 160L | 160 | 254 | 254 | 108 | 14 | 320 | 310 | 237 | 397 | 316 | 317 | 23 | 18 | 763 | 658 | 653 | 548 | 168 | 150 | 65 | 76 | 42 | 110 | 12 | 8 | 45 | M16 |
| 160L ⁴⁾ | 160 | 254 | 254 | 108 | 14 | 320 | 310 | 237 | 397 | 316 | 317 | 23 | 18 | 790 | - | 680 | - | 168 | 150 | 65 | 76 | 42 | 110 | 12 | 8 | 45 | M16 |

1) Clearance hole for screw

2) Maximum dimension

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

4) Only for LR A4 AMBY - AMBZ series

L*LB* Only for AMS series

| IEC | SMALL FLANGE B14 | | | | | | LARGE FLANGE B14 | | | | | | FLANGE B5 | | | | | |
|-----|------------------|-----|----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|-----------|-----|-----|-----|----|-----------------|
| | P | N | LA | M | T | S | P | N | LA | M | T | S | M | N | P | T | LA | S ¹⁾ |
| 63 | 90 | 60 | 8 | 75 | 2.5 | M5 | 120 | 80 | 8 | 100 | 2.5 | M6 | 115 | 95 | 140 | 3 | 8 | M8 |
| 71 | 105 | 70 | 8 | 85 | 2.5 | M6 | 140 | 95 | 8 | 115 | 3 | M8 | 130 | 110 | 160 | 3.5 | 10 | M8 |
| 80 | 120 | 80 | 9 | 100 | 3 | M6 | 160 | 110 | 8.5 | 130 | 3.5 | M8 | 165 | 130 | 200 | 3.5 | 10 | M10 |
| 90 | 140 | 95 | 9 | 115 | 3 | M8 | 160 | 110 | 9 | 130 | 3.5 | M8 | 165 | 130 | 200 | 3.5 | 12 | M10 |
| 100 | 160 | 110 | 10 | 130 | 3.5 | M8 | 200 | 130 | 12 | 165 | 3.5 | M10 | 215 | 180 | 250 | 4 | 14 | M12 |
| 112 | 160 | 110 | 10 | 130 | 3.5 | M8 | 200 | 130 | 12 | 165 | 3.5 | M10 | 215 | 180 | 250 | 4 | 14 | M12 |
| 132 | 200 | 130 | 30 | 165 | 3.5 | M10 | 250 | 180 | 12 | 215 | 4 | M12 | 265 | 230 | 300 | 4 | 14 | M12 |
| 160 | 250 | 180 | 12 | 215 | 4 | M12 | 300 | 230 | 12 | 265 | 5 | M16 | 300 | 250 | 350 | 5 | 15 | M16 |

1) Clearance hole for screw. Hole as standard for 132 to 160 frame size

Lafert S.p.A.

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