

Totally enclosed squirrel cage three phase motors, aluminium frame
IP 55 IC 411 two-speed motors
Insulation class F
Temperature rise class F

400 V 50 Hz¹⁾

| Output kW | Motor type M2AA | Product code 3GAA | Speed r/min | Efficiency % | Power factor cos φ | Current | | Torque | | | Moment of inertia J=1/4 GD ² kgm ² | Weight kg |
|--|-----------------|-------------------|-------------|--------------|--------------------|------------------|--------------------------------|-------------------|--------------------------------|----------------------------------|--|-----------|
| | | | | | | I _N A | I _s /I _N | T _N Nm | T _s /T _N | T _{max} /T _N | | |
| 1500/750 r/min = 4/8 poles Highest output at both speeds, two separate windings | | | | | | | | | | | | |
| 0.22/0.11 | 80 A | 088 219-● | 1420/700 | 61/45 | 0.80/0.58 | 0.7/0.65 | 3.4/2.2 | 1.5/1.5 | 1.2/1.4 | 2.0/2.2 | 0.0017 | 8.5 |
| 0.33/0.16 | 80 B | 088 220-● | 1420/690 | 63/49 | 0.83/0.60 | 0.95/0.80 | 3.2/2.3 | 2.2/2.2 | 1.2/1.3 | 1.9/2.0 | 0.0021 | 9.5 |
| 0.5/0.25 | 90 S | 098 219-● | 1440/690 | 64/51 | 0.78/0.65 | 1.5/1.1 | 3.6/2.3 | 3.3/3.4 | 1.3/1.2 | 2.2/1.9 | 0.0032 | 13 |
| 0.7/0.33 | 90 L | 098 220-● | 1440/690 | 69/57 | 0.80/0.61 | 1.9/1.4 | 4.2/2.4 | 4.6/4.6 | 1.3/1.2 | 2.2/1.9 | 0.0043 | 16 |
| 1.0/0.5 | 100 LA | 108 217-● | 1440/700 | 71/61 | 0.86/0.63 | 2.4/1.95 | 4.2/2.5 | 6.6/6.8 | 1.2/1.1 | 2.0/1.9 | 0.0069 | 20 |
| 1.4/0.7 | 100 LB | 108 218-● | 1440/700 | 73/62 | 0.87/0.62 | 3.2/2.7 | 4.3/2.6 | 9.3/9.5 | 1.2/1.1 | 2.0/1.9 | 0.0082 | 23 |
| 1.8/0.9 | 112 M | 118 203-● | 1470/715 | 77.0/65.0 | 0.76/0.66 | 4.4/3.0 | 6.5/4.0 | 11.7/12.0 | 1.2/1.6 | 2.2/2.4 | 0.018 | 32 |
| 2.5/1.3 | 132 S | 138 225-● | 1470/730 | 80.0/69.0 | 0.79/0.58 | 5.7/4.7 | 6.7/4.4 | 16.2/17.0 | 1.6/1.4 | 2.6/2.7 | 0.038 | 48 |
| 3.3/1.7 | 132 M | 138 226-● | 1470/725 | 81.0/71.0 | 0.83/0.67 | 7.1/5.2 | 8.0/4.8 | 21.4/22.4 | 1.8/1.8 | 2.7/2.2 | 0.048 | 59 |
| 5.5/2.7 | 160 M | 168 363-● | 1465/730 | 85.0/71.0 | 0.83/0.57 | 11.5/9.6 | 6.8/4.0 | 36/35 | 2.1/2.0 | 2.6/2.3 | 0.089 | 92 |
| 9/4.5 | 160 L | 168 364-● | 1465/730 | 86.5/73.5 | 0.83/0.56 | 18/16 | 7.0/4.1 | 59/59 | 2.1/2.1 | 2.7/2.5 | 0.119 | 117 |
| 14/7 | 180 L | 188 356-● | 1475/735 | 88.0/76.0 | 0.83/0.56 | 28/24 | 7.7/4.2 | 91/91 | 2.6/2.3 | 2.9/2.3 | 0.225 | 159 |
| 18.5/9.4 | 200 MLA | 208 207-● | 1475/730 | 89.5/82.5 | 0.85/0.65 | 35/26 | 7.3/4.3 | 120/123 | 2.2/1.9 | 2.5/1.8 | 0.28 | 180 |
| 22/11 | 200 MLB | 208 208-● | 1480/735 | 90.5/83.0 | 0.84/0.60 | 42/32 | 8.4/4.7 | 142/143 | 2.6/2.4 | 2.9/2.2 | 0.34 | 205 |
| 28/14 | 225 SMB | 228 205-● | 1480/735 | 90.0/85.5 | 0.85/0.61 | 53/39 | 7.7/4.9 | 181/182 | 2.1/2.4 | 2.7/2.2 | 0.41 | 230 |
| 34/17 | 225 SMC | 228 206-● | 1480/735 | 92.0/87.0 | 0.86/0.66 | 63/43 | 7.9/4.8 | 219/221 | 2.2/2.2 | 2.7/2.0 | 0.49 | 265 |
| 50/25 | 250 SMB | 258 203-● | 1480/740 | 92.5/88.0 | 0.87/0.60 | 90/68 | 8.6/6.0 | 323/323 | 2.6/3.5 | 3.0/2.9 | 0.89 | 335 |

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|---|---------|-----------|----------|-----------|-----------|-----------|---------|-----------|---------|---------|--------|-----|
| 1500/750 r/min = 4/8 poles Highest output at both speeds, Dahlander-connection | | | | | | | | | | | | |
| 0.22/0.12 | 71 B | 078 114-● | 1410/680 | 61/36 | 0.73/0.62 | 0.75/0.80 | 3.4/1.8 | 1.4/1.6 | 1.6/1.5 | 1.9/1.9 | 0.0009 | 6.5 |
| 0.4/0.2 | 80 A | 088 113-● | 1410/700 | 63/45 | 0.78/0.60 | 1.2/1.1 | 3.1/2.1 | 2.7/2.7 | 1.3/1.4 | 1.9/2.0 | 0.0017 | 8.5 |
| 0.6/0.28 | 80 B | 088 114-● | 1410/700 | 67/50 | 0.78/0.56 | 1.7/1.5 | 3.5/2.2 | 4.0/3.8 | 1.5/1.7 | 2.0/2.2 | 0.0021 | 9.5 |
| 0.7/0.37 | 90 S | 098 113-● | 1420/700 | 72/50 | 0.80/0.57 | 1.8/1.9 | 4.4/2.3 | 4.7/5.1 | 1.6/1.6 | 2.3/2.2 | 0.0032 | 13 |
| 1.1/0.55 | 90 L | 098 114-● | 1420/700 | 73/55 | 0.84/0.58 | 2.6/2.6 | 4.1/2.3 | 7.4/7.5 | 1.4/1.5 | 2.0/2.1 | 0.0043 | 16 |
| 1.5/0.75 | 100 LA | 108 112-● | 1440/710 | 76/62 | 0.85/0.57 | 3.4/3.2 | 4.6/2.8 | 10.0/10.0 | 1.4/1.5 | 2.2/2.2 | 0.0069 | 20 |
| 2.0/0.95 | 100 LB | 108 113-● | 1440/710 | 78/64 | 0.86/0.55 | 4.4/4.0 | 4.8/2.9 | 13.0/12.0 | 1.4/1.6 | 2.2/2.3 | 0.0082 | 23 |
| 2.5/1.5 | 112 M | 118 103-● | 1410/705 | 78.0/67.0 | 0.90/0.66 | 5.1/4.9 | 5.5/4.1 | 16.9/20.3 | 1.4/1.5 | 2.1/2.4 | 0.018 | 32 |
| 3.8/1.9 | 132 S | 138 125-● | 1450/730 | 82.0/70.0 | 0.86/0.52 | 7.7/7.6 | 5.6/3.7 | 25.0/24.9 | 1.4/1.3 | 2.1/2.7 | 0.038 | 48 |
| 5/2.5 | 132 M | 138 126-● | 1455/730 | 85.0/73.0 | 0.88/0.52 | 9.6/9.6 | 6.9/4.8 | 32.8/32.7 | 1.7/2.0 | 2.4/2.8 | 0.048 | 59 |
| 8/4.5 | 160 M | 168 309-● | 1440/730 | 84.5/79.5 | 0.86/0.60 | 16/13.5 | 4.5/3.4 | 53/59 | 1.3/1.4 | 1.8/1.9 | 0.089 | 92 |
| 12/7 | 160 L | 168 310-● | 1445/730 | 86.5/81.0 | 0.87/0.59 | 23/21 | 5.0/3.5 | 79/92 | 1.5/1.4 | 1.9/1.9 | 0.119 | 117 |
| 16/8 | 180 L | 188 304-● | 1460/730 | 88.0/78.5 | 0.86/0.53 | 31/28 | 1.9/3.4 | 105/104 | 1.4/1.6 | 1.9/2.1 | 0.224 | 159 |
| 22/13 | 200 MLA | 208 107-● | 1475/735 | 87.5/86.0 | 0.81/0.69 | 45/32 | 6.5/5.9 | 142/169 | 2.0/2.5 | 2.6/2.7 | 0.36 | 165 |
| 25/15 | 200 MLB | 208 108-● | 1475/735 | 89.0/86.0 | 0.86/0.67 | 47/38 | 7.6/6.0 | 162/195 | 2.2/2.6 | 2.7/2.7 | 0.42 | 185 |
| 29/17 | 200 MLC | 208 109-● | 1475/735 | 90.0/88.0 | 0.91/0.75 | 52/38 | 7.2/6.1 | 188/221 | 2.2/2.6 | 2.4/2.4 | 0.48 | 200 |
| 35/21 | 225 SMB | 228 105-● | 1475/735 | 90.0/89.0 | 0.90/0.74 | 63/47 | 6.7/5.8 | 227/273 | 1.7/2.1 | 2.2/2.3 | 0.63 | 225 |
| 42/25 | 225 SMC | 228 106-● | 1475/735 | 91.0/89.5 | 0.91/0.75 | 74/54 | 6.8/5.9 | 272/325 | 1.8/2.1 | 2.2/2.2 | 0.74 | 250 |
| 55/33 | 250 SMB | 258 103-● | 1480/740 | 92.0/90.5 | 0.90/0.75 | 97/71 | 7.3/6.4 | 355/426 | 2.1/2.5 | 2.5/2.5 | 1.50 | 320 |

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|--|---------|-----------|---------|-----------|-----------|-------|---------|---------|---------|---------|------|-----|
| 1000/750 r/min = 6/8 poles Highest output at both speeds, two separate windings | | | | | | | | | | | | |
| 16/12 | 200 MLB | 208 219-● | 985/740 | 86.5/82.5 | 0.85/0.73 | 31/29 | 7.0/6.3 | 155/155 | 2.1/2.4 | 2.4/2.6 | 0.42 | 185 |
| 18/13.5 | 200 MLC | 208 220-● | 985/740 | 87.5/83.5 | 0.83/0.72 | 36/32 | 7.9/6.6 | 174/174 | 2.5/2.6 | 2.8/2.8 | 0.48 | 200 |
| 23/17 | 225 SMB | 228 213-● | 985/740 | 89.0/85.5 | 0.84/0.78 | 46/37 | 7.9/6.3 | 222/220 | 2.3/2.2 | 2.7/2.3 | 0.63 | 225 |
| 28/20 | 225 SMC | 228 214-● | 985/740 | 89.0/86.5 | 0.86/0.77 | 57/43 | 7.1/6.5 | 272/259 | 2.0/2.3 | 2.4/2.4 | 0.74 | 250 |
| 37/27 | 250 SMB | 258 207-● | 990/740 | 90.0/87.5 | 0.83/0.75 | 71/59 | 7.8/6.7 | 357/348 | 2.3/2.5 | 2.7/2.5 | 1.41 | 320 |

¹⁾ Sizes 63 to 100 voltage code H. Sizes 112 to 250 voltage code D.

The bullet indicates a 3-letter product code supplement for choice of mounting arrangement (page 11, pos. 12), voltage and frequency (below) and generation code (page 11, pos. 14).

Code letters for supplementing the product code

| Motor size | Code letter for voltage and frequency | | | | | | |
|------------|---------------------------------------|-----------|-------|-------------------------|-----------|-------|---|
| | A | S | B | D | H | E | X |
| 63-100 | - | 220-230 V | - | 380-400 V ¹⁾ | 400-415 V | 500 V | Other rated voltage or frequency, 690 V maximum |
| 112-132 | - | 220-230 V | - | 380-400 V | 400-415 V | 500 V | |
| 160-250 | 220 V | 230 V | 380 V | 400 V | 415 V | 500 V | |

¹⁾ Restamping from code H. Note that this results in a certain reduction of output. Rated output on request.