

# **ADE SERIES**

## **3" Deep Well Submersible Pump**



**Franklin Electric**

[franklinwatersea.com](http://franklinwatersea.com)

## APPLICATIONS

- Water supply from tank, reservoir, and well
- Residential for various purposes
- Domestic water supply

## FEATURES

- Excellent resistance against corrosion with fully stainless steel casing; and cast stainless steel pump discharge outlet and bracket
- Greater tolerance against sand through sophisticated hydraulic design and the use of engineered thermoplastic material for impeller that has superior wear resistance properties.
- Protection against water hammering with built-in check valve.
- Specially designed motor winding to operate within wide range of voltage supply.
- Control box protect motor against overload.

## SPECIFICATION

- Flow: up to 5.4m<sup>3</sup>/hr
- Head up to 150m at 50Hz
- Motor input voltage range: 170V to 230V, Single Phase
- Motor type: Rewindable Oil-filled motor

## Available on Request

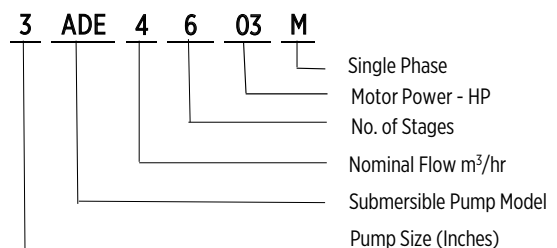
- Customized lead length
- 3 Phase motor
- Different pump discharge sizes

## MATERIAL OF CONSTRUCTION

| Components        | Materials            |
|-------------------|----------------------|
| <b>PUMP</b>       |                      |
| Discharge Head    | Cast Stainless Steel |
| Motor Bracket     | Cast Stainless Steel |
| Check Valve       | Plastic              |
| Pump Shell        | Stainless Steel      |
| Cable Guard       | Stainless Steel      |
| Pump Shaft        | Stainless Steel      |
| Impeller          | Thermoplastic        |
| Diffuser          | Thermoplastic        |
| Strainer          | Stainless Steel      |
| <b>MOTOR</b>      |                      |
| Motor Outer Shell | Stainless Steel      |

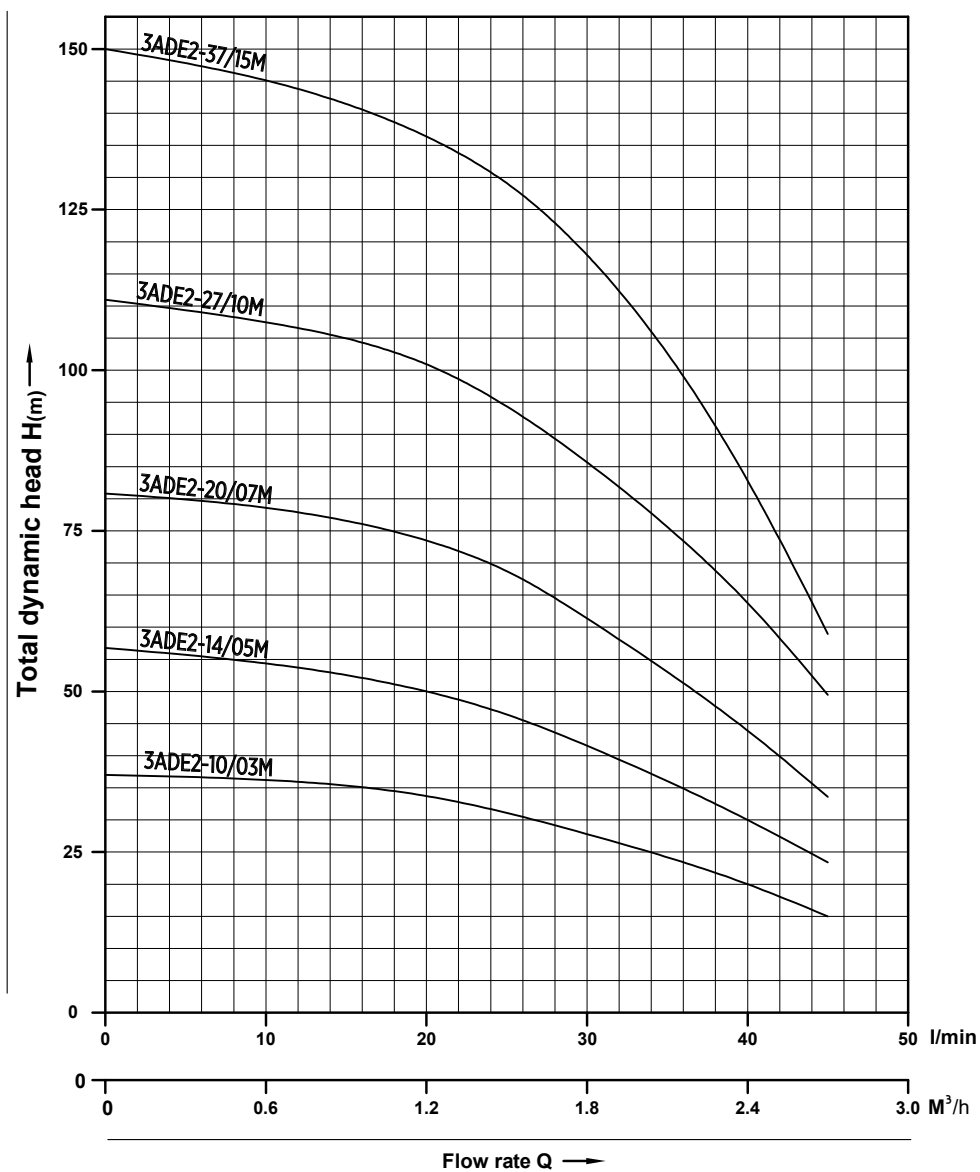
## PRODUCT IDENTIFICATION

3ADE4-6/03M



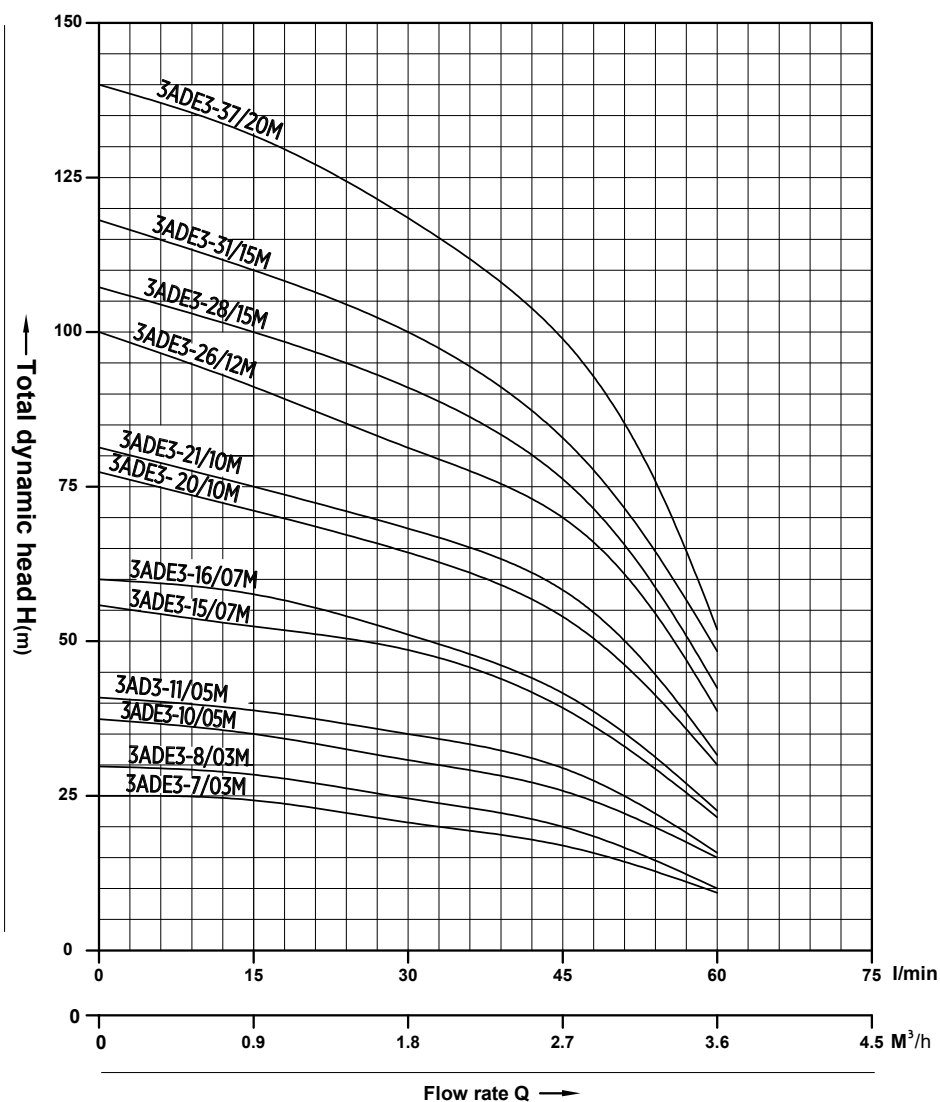


## PERFORMANCE CURVE 50Hz



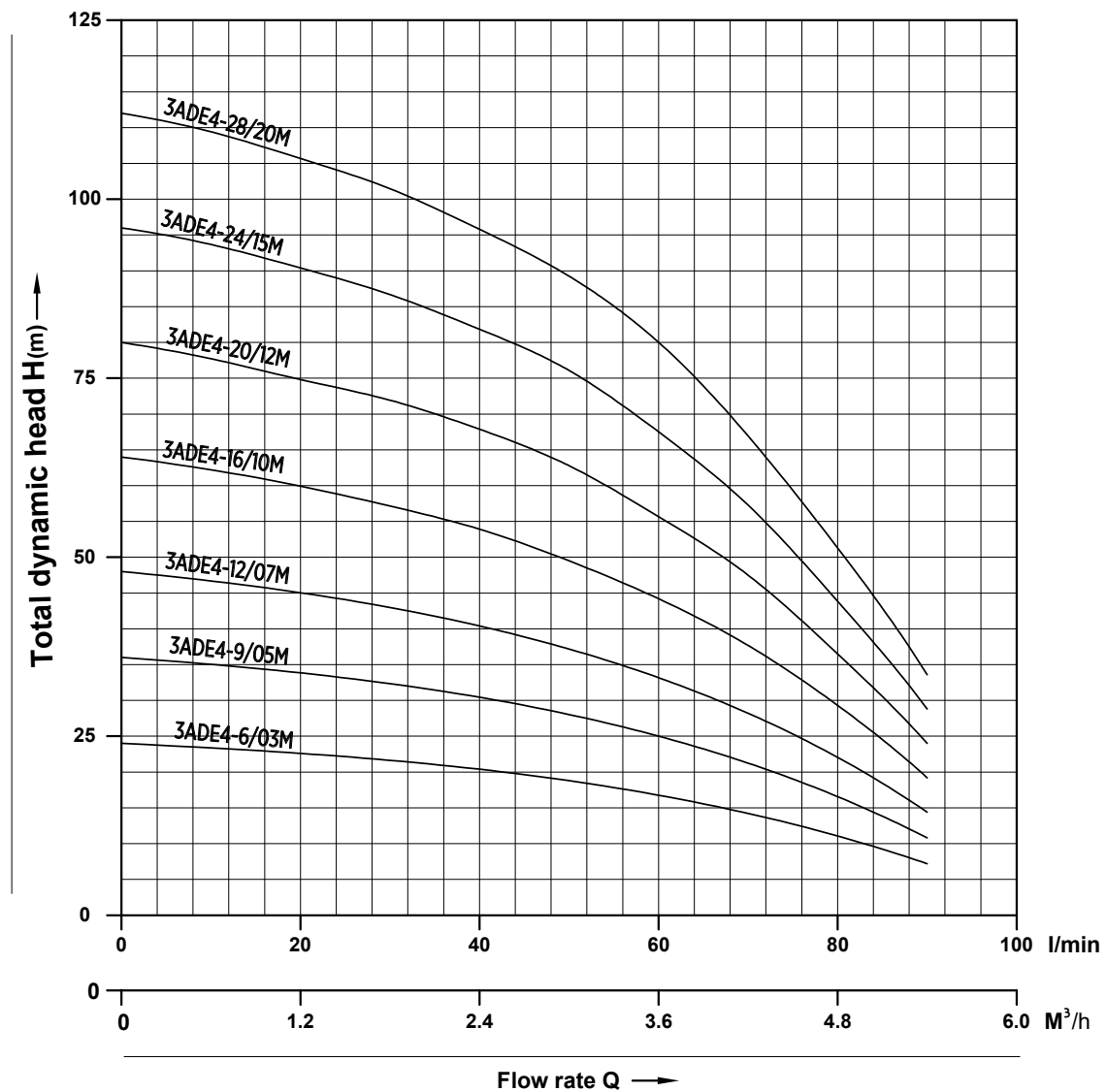
| Model        | Motor Power |      | DELIVERY $N \approx 2850r/min$ |       |     |     |     |     |     |     |     |     |     |     |
|--------------|-------------|------|--------------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | kW          | HP   | Q                              | m³/h  | 0   | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 |
|              |             |      |                                | l/min | 0   | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  |
| 3ADE2-10/03M | 0.25        | 0.33 | H (m)                          |       | 38  | 37  | 36  | 35  | 35  | 31  | 28  | 24  | 20  | 15  |
| 3ADE2-14/05M | 0.37        | 0.5  |                                |       | 57  | 56  | 54  | 53  | 50  | 47  | 42  | 37  | 30  | 23  |
| 3ADE2-20/07M | 0.55        | 0.75 |                                |       | 81  | 80  | 78  | 75  | 74  | 68  | 61  | 53  | 43  | 34  |
| 3ADE2-27/10M | 0.75        | 1    |                                |       | 111 | 109 | 107 | 104 | 103 | 95  | 85  | 75  | 64  | 49  |
| 3ADE2-37/15M | 1.1         | 1.5  |                                |       | 150 | 147 | 144 | 141 | 136 | 129 | 117 | 101 | 83  | 59  |

## PERFORMANCE CURVE 50Hz



| Model        | Motor Power |      | DELIVERY   N≈2850r/min |       |     |     |     |     |     |     |     |     |     |     |    |     |     |
|--------------|-------------|------|------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
|              | kW          | HP   | Q                      | m³/h  | 0   | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3  | 3.3 | 3.6 |
|              |             |      |                        | l/min | 0   | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50 | 55  | 60  |
| 3ADE3-7/03M  | 0.25        | 0.33 | H(m)                   | 25    | 25  | 24  | 24  | 23  | 22  | 21  | 19  | 18  | 17  | 14  | 12 | 9   |     |
| 3ADE3-8/03M  | 0.25        | 0.33 |                        | 29    | 29  | 28  | 27  | 26  | 25  | 24  | 22  | 21  | 20  | 17  | 14 | 10  |     |
| 3ADE3-10/05M | 0.37        | 0.5  |                        | 37    | 36  | 35  | 35  | 34  | 33  | 31  | 31  | 29  | 26  | 22  | 19 | 15  |     |
| 3ADE3-11/05M | 0.37        | 0.5  |                        | 41    | 40  | 39  | 38  | 37  | 36  | 35  | 34  | 32  | 29  | 24  | 21 | 16  |     |
| 3ADE3-15/07M | 0.55        | 0.75 |                        | 56    | 55  | 54  | 53  | 52  | 50  | 48  | 46  | 44  | 39  | 36  | 30 | 22  |     |
| 3ADE3-16/07M | 0.55        | 0.75 |                        | 60    | 59  | 58  | 57  | 55  | 53  | 51  | 49  | 47  | 42  | 38  | 32 | 23  |     |
| 3ADE3-20/10M | 0.75        | 1    |                        | 77    | 75  | 73  | 71  | 70  | 67  | 64  | 62  | 60  | 54  | 48  | 41 | 30  |     |
| 3ADE3-21/10M | 0.75        | 1    |                        | 81    | 79  | 77  | 75  | 73  | 70  | 67  | 65  | 63  | 57  | 50  | 43 | 31  |     |
| 3ADE3-26/12M | 0.92        | 1.25 |                        | 100   | 97  | 95  | 92  | 90  | 86  | 82  | 80  | 78  | 70  | 61  | 53 | 38  |     |
| 3ADE3-28/15M | 1.1         | 1.5  |                        | 107   | 105 | 102 | 100 | 95  | 93  | 91  | 89  | 84  | 76  | 63  | 56 | 43  |     |
| 3ADE3-31/15M | 1.1         | 1.5  |                        | 118   | 115 | 112 | 110 | 105 | 103 | 100 | 98  | 93  | 83  | 69  | 62 | 47  |     |
| 3ADE3-37/20M | 1.5         | 2    |                        | 140   | 138 | 136 | 132 | 127 | 123 | 118 | 113 | 110 | 99  | 88  | 75 | 52  |     |

## PERFORMANCE CURVE 50Hz



| Model        | Motor Power |      | DELIVERY N≈2850r/min |       |     |     |     |     |     |    |     |     |     |     |
|--------------|-------------|------|----------------------|-------|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
|              | kW          | HP   | Q                    | m³/h  | 0   | 0.6 | 1.2 | 1.8 | 2.4 | 3  | 3.6 | 4.2 | 4.8 | 5.4 |
|              |             |      |                      | l/min | 0   | 10  | 20  | 30  | 40  | 50 | 60  | 70  | 80  | 90  |
| 3ADE4-6/03M  | 0.25        | 0.33 | H(m)                 |       | 24  | 24  | 23  | 23  | 22  | 20 | 18  | 15  | 11  | 7   |
| 3ADE4-9/05M  | 0.37        | 0.5  |                      |       | 36  | 35  | 34  | 34  | 32  | 30 | 26  | 22  | 17  | 8   |
| 3ADE4-12/07M | 0.55        | 0.75 |                      |       | 48  | 47  | 46  | 46  | 44  | 41 | 36  | 30  | 23  | 13  |
| 3ADE4-16/10M | 0.75        | 1    |                      |       | 64  | 63  | 62  | 61  | 59  | 55 | 49  | 41  | 32  | 18  |
| 3ADE4-20/12M | 0.92        | 1.25 |                      |       | 80  | 79  | 78  | 76  | 73  | 68 | 61  | 51  | 40  | 23  |
| 3ADE4-24/15M | 1.1         | 1.5  |                      |       | 96  | 94  | 93  | 91  | 86  | 80 | 71  | 60  | 46  | 29  |
| 3ADE4-28/20M | 1.5         | 2    |                      |       | 112 | 111 | 110 | 107 | 103 | 96 | 85  | 74  | 55  | 34  |

## WEIGHT & DIMENSION

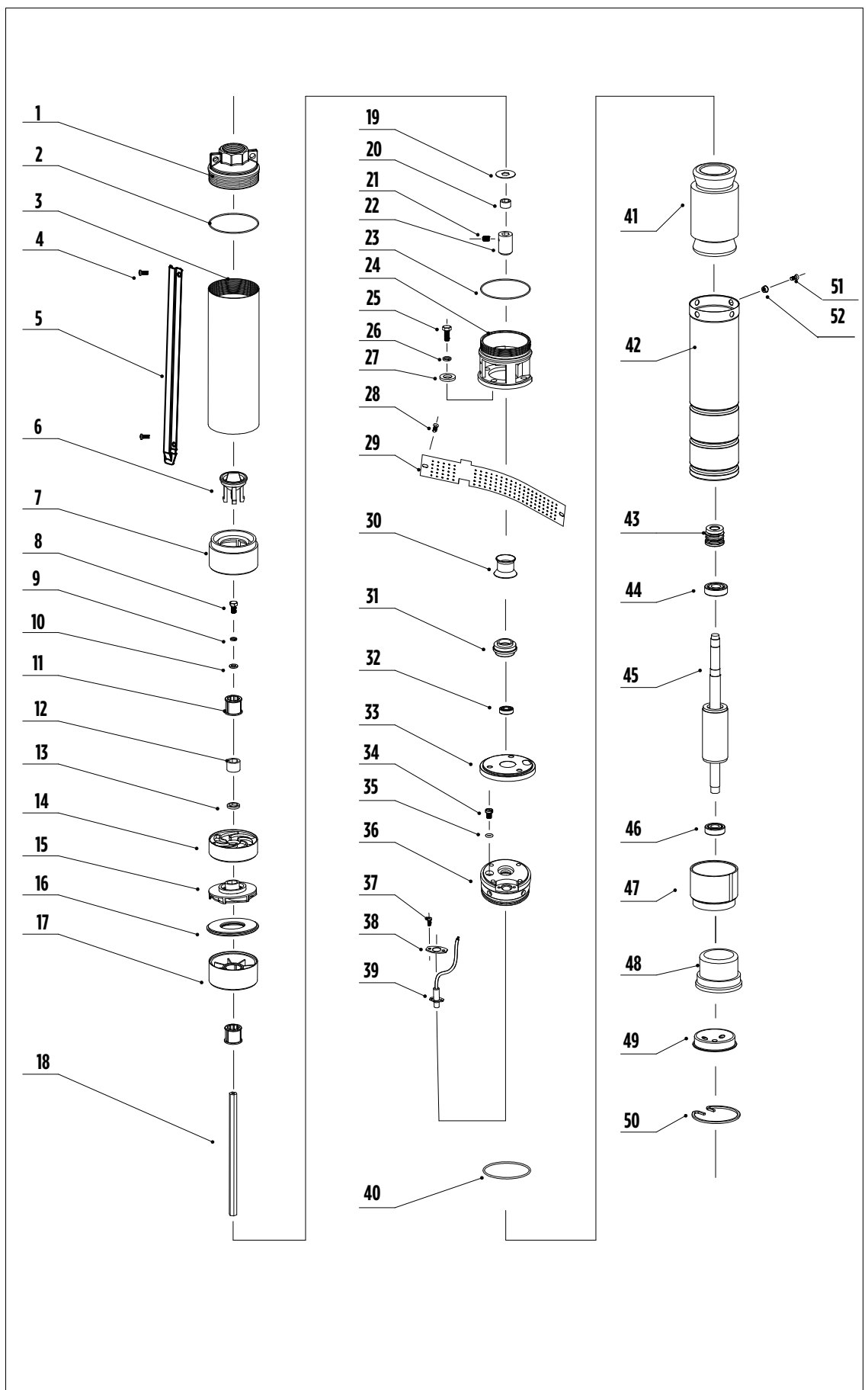
| Part Number | Model        | kW   | HP   | Disch. | Pumpset         |             |
|-------------|--------------|------|------|--------|-----------------|-------------|
|             |              |      |      |        | Dimension (cm)  | Weight (kg) |
| 9830350210M | 3ADE2-10/03M | 0.25 | 0.33 | 1 1/4" | 78 x 11 x 11.5  | 8.3         |
| 9830350214M | 3ADE2-14/05M | 0.37 | 0.5  | 1 1/4" | 94 x 11 x 11.5  | 10          |
| 9830350220M | 3ADE2-20/07M | 0.55 | 0.75 | 1 1/4" | 113 x 11 x 11.5 | 10.96       |
| 9830350227M | 3ADE2-27/10M | 0.75 | 1    | 1 1/4" | 137 x 11 x 11.5 | 13.72       |
| 9830350237M | 3ADE2-37/15M | 1.1  | 1.5  | 1 1/4" | 171 x 11 x 11.5 | 17.22       |

| Part Number | Model        | kW   | HP   | Disch. | Pumpset         |             |
|-------------|--------------|------|------|--------|-----------------|-------------|
|             |              |      |      |        | Dimension (cm)  | Weight (kg) |
| 9830350307M | 3ADE3-7/03M  | 0.25 | 0.33 | 1 1/4" | 74 x 11 x 11.5  | 7.9         |
| 9830350308M | 3ADE3-8/03M  | 0.25 | 0.33 | 1 1/4" | 77 x 11 x 11.5  | 8.1         |
| 9830350310M | 3ADE3-10/05M | 0.37 | 0.5  | 1 1/4" | 85 x 11 x 11.5  | 9           |
| 9830350311M | 3ADE3-11/05M | 0.37 | 0.5  | 1 1/4" | 87 x 11 x 11.5  | 9.2         |
| 9830350315M | 3ADE3-15/07M | 0.55 | 0.75 | 1 1/4" | 105 x 11 x 11.5 | 11.3        |
| 9830350316M | 3ADE3-16/07M | 0.55 | 0.75 | 1 1/4" | 107 x 11 x 11.5 | 11.4        |
| 9830350320M | 3ADE3-20/10M | 0.75 | 1    | 1 1/4" | 124 x 11 x 11.5 | 13.55       |
| 9830350321M | 3ADE3-21/10M | 0.75 | 1    | 1 1/4" | 127 x 11 x 11.5 | 13.7        |
| 9830350326M | 3ADE3-26/12M | 0.92 | 1.25 | 1 1/4" | 135 x 11 x 11.5 | 14.9        |
| 9830350328M | 3ADE3-28/15M | 1.1  | 1.5  | 1 1/4" | 156 x 11 x 11.5 | 16.85       |
| 9830350331M | 3ADE3-31/15M | 1.1  | 1.5  | 1 1/4" | 164 x 11 x 11.5 | 17.2        |
| 9830350337M | 3ADE3-37/20M | 1.5  | 2    | 1 1/4" | 188 x 11 x 11.5 | 19.6        |

| Part Number | Model        | kW   | HP   | Disch. | Pumpset         |             |
|-------------|--------------|------|------|--------|-----------------|-------------|
|             |              |      |      |        | Dimension (cm)  | Weight (kg) |
| 9830350406M | 3ADE4-6/03M  | 0.25 | 0.33 | 1 1/4" | 74 x 11 x 11.5  | 7.68        |
| 9830350409M | 3ADE4-9/05M  | 0.37 | 0.5  | 1 1/4" | 86 x 11 x 11.5  | 9.18        |
| 9830350412M | 3ADE4-12/07M | 0.55 | 0.75 | 1 1/4" | 102 x 11 x 11.5 | 11.16       |
| 9830350416M | 3ADE4-16/10M | 0.75 | 1    | 1 1/4" | 120 x 11 x 11.5 | 13.32       |
| 9830350420M | 3ADE4-20/12M | 0.92 | 1.25 | 1 1/4" | 134 x 11 x 11.5 | 14.62       |
| 9830350424M | 3ADE4-24/15M | 1.1  | 1.5  | 1 1/4" | 154 x 11 x 11.5 | 16.66       |
| 9830350428M | 3ADE4-28/20M | 1.5  | 2    | 1 1/4" | 172 x 11 x 11.5 | 18.9        |

## PARTS LIST

| No. | Description              |
|-----|--------------------------|
| 1   | Discharge Head           |
| 2   | "O" Ring                 |
| 3   | Pump Sleeve/ Casing      |
| 4   | Screw                    |
| 5   | Cable Guard              |
| 6   | Check Valve              |
| 7   | Valve Seat               |
| 8   | Screw                    |
| 9   | Spring Washer            |
| 10  | Shim                     |
| 11  | Shaft Sleeve             |
| 12  | Plastic Shaft Sleeve     |
| 13  | Polyurethane Gasket      |
| 14  | Diffuser                 |
| 15  | Impeller                 |
| 16  | Diffuser Cover           |
| 17  | Intermediate Support     |
| 18  | Pump Shaft               |
| 19  | Shim                     |
| 20  | HexGasket                |
| 21  | Hex Socket Screws        |
| 22  | Coupling                 |
| 23  | "O" ring                 |
| 24  | Motor Adapter            |
| 25  | Stud                     |
| 26  | Spring Washer            |
| 27  | Shim                     |
| 28  | Screw                    |
| 29  | Strainer                 |
| 30  | Sand Slinger             |
| 31  | Sand Proof Seat          |
| 32  | Anti-sand Ceramic Washer |
| 33  | Oil Chamber Cover        |
| 34  | Crew                     |
| 35  | "O" Ring                 |
| 36  | Top End Bell             |
| 37  | screw                    |
| 38  | Pressing Plate           |
| 39  | Lead                     |
| 40  | "O" Ring                 |
| 41  | Stator                   |
| 42  | Motor Outer Shell        |
| 43  | Mechanical Seal          |
| 44  | Deep Groove Ball Bearing |
| 45  | Rotor                    |
| 46  | Deep Groove Ball Bearing |
| 47  | Bearing Seat             |
| 48  | Rubber Diaphragm         |
| 49  | End Cover                |
| 50  | Retaining Ring           |
| 51  | Screw                    |
| 52  | Locking Ring             |





COVERCO is a long recognized Italian manufacturer of high quality submersible motors with more than 50 years of experience in the industry. FRANKLIN ELECTRIC acquired COVERCO in year 2002, further strengthening COVERCO R&D capability, production capacity, sales and service networks, delivering expanded product portfolio around the globe.

**Franklin Electric (SEA) Pte Ltd**  
ASEAN | Bangladesh | Pakistan | Sri Lanka

17 Changi Business Park Central 1 | #06-05 Honeywell Building | Singapore 486073  
Phone: +65 6789 6865 | Fax: +65 6789 0155 | Email: [fesea@fele.com](mailto:fesea@fele.com)



[franklinwatersea.com](http://franklinwatersea.com)



051.1 ed 5/2025