

Technical Data

Pump Name

MD 50-125/3.06

| | | | |
|----------|------------|---------------------------------------|-----------|
| Customer | Date | 2024-07-02 | Company |
| Contact | Item no. | | Issued by |
| Phone | Project | | Phone |
| E-mail | Project ID | Proiect redenumit 2024-07-02 22:34:28 | E-mail |

Requested data

| | | | | |
|---|---------------------------|-------------------|--------------------|-------------|
| 1 | Pump type | CENTRIFUGAL PUMPS | Fluid | Water |
| 2 | Number of pumps / Reserve | 1 / 0 | Liquid temperature | °C 20 |
| 3 | Flow m³/h | | Kin. viscosity | mm²/s 1.005 |
| 4 | Head m | | Vapour pressure | bar 0.0234 |
| 5 | Geodetic head m | | PH value | |
| 6 | Inlet pressure (pin) bar | 0 | Density | kg/m³ 998.3 |
| 7 | Available system NPSH | | Solids | Weight % 0 |
| 8 | Ambient temperature °C | 20 | | |

Pump

| | | | | |
|----|---------------------------|--------------------------------|-----------------------------------|------------------|
| 9 | Pump Name | MD 50-125/3.06 | Frequency | Hz 60 |
| 10 | Design | CENTRIFUGAL PUMPS | Installation type | STANDARD |
| 11 | Manufacturer | EBARA | Impeller Diameter | Max. mm 125 |
| 12 | Speed rpm | 3450 | | Designed mm 125 |
| 13 | No. of Stage | 1 | | Min. mm 125 |
| 14 | Connection Suction side | DIN 2532 | Flow | Operating m³/h |
| 15 | Connection Discharge side | DIN 2532 | | Max- m³/h 60 |
| 16 | Max Working Pressure bar | | | Min- m³/h 24 |
| 17 | Shut-off head bar | 2.31 | Head | Operating m |
| 18 | Total weight kg | See the table of "Dimensions". | | - (Qmax.) m 13.6 |
| 19 | Shaft power kW | | | - (Qmin.) m 21.9 |
| 20 | | | Max. Shaft Power at max. impeller | kW 3.07 |
| 21 | Required pump NPSH m | | Efficiency | % |

Materials

| | | | | |
|----|--|--|--|--|
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |

Motor

| | | | | |
|----|----------------------|-------------------------------------|------------------|-------|
| 28 | Manufacturer | EPE Standard | Insulation class | F |
| 29 | Type | TEFC_MD 50-125/3.06_380_Three Phase | Phases | 3~ |
| 30 | Specific design | - / 60 Hz / Pole pairs 1 | Frame size | |
| 31 | Rated power kW | 3 | Weight | kg |
| 32 | Number of poles | 2 | Electric voltage | V 380 |
| 33 | Speed rpm | 3450 | Electric current | A 6.1 |
| 34 | Degree of protection | IP 55 | | |
| 35 | | | | |

Remarks

Performance Curve

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Requested data

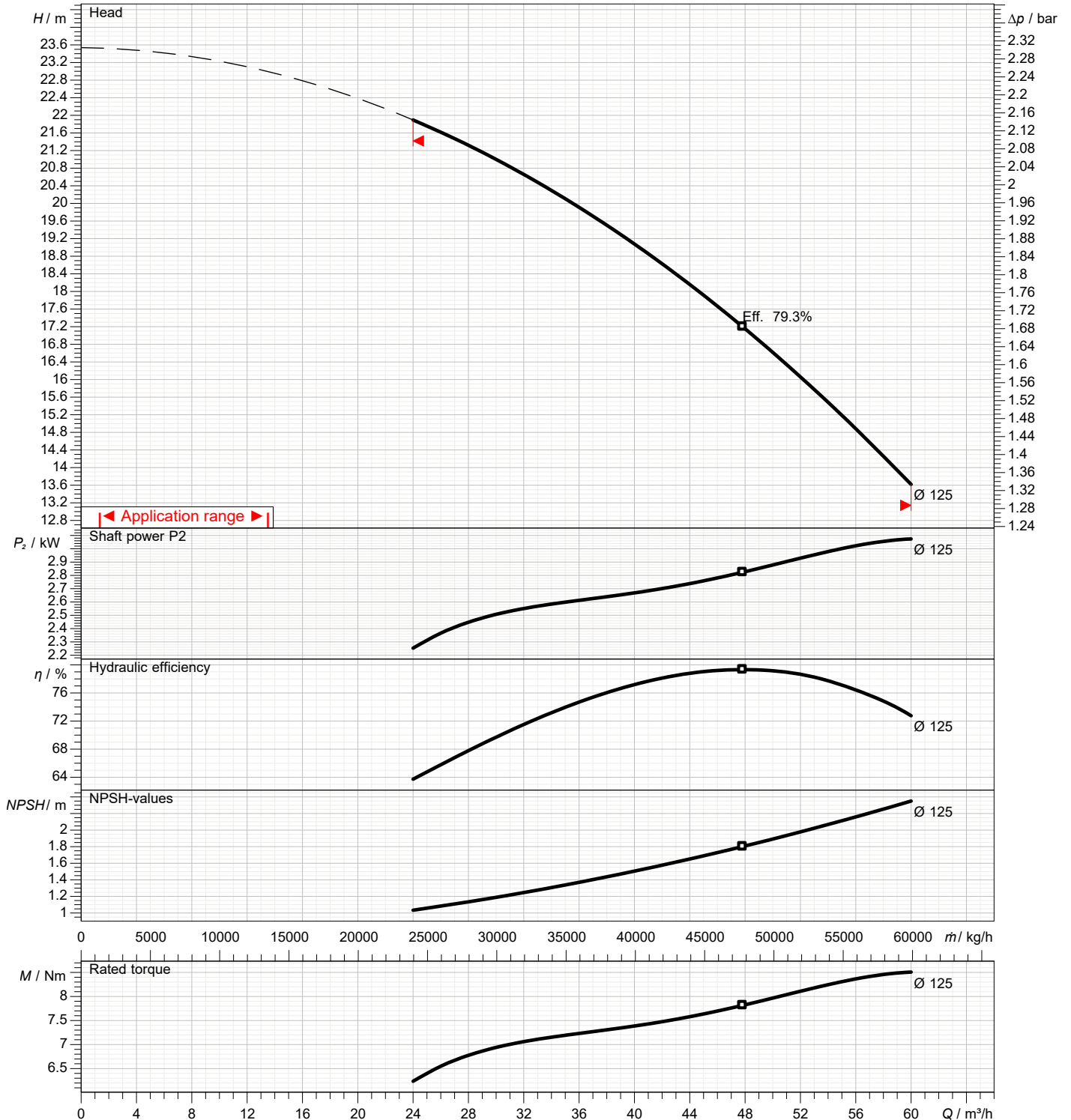
| | | | |
|---|---------------|------|--|
| 1 | Flow | m³/h | |
| 2 | Head | m | |
| 3 | Geodetic head | m | |

Pump

| | | | | | |
|----------------------------|------|-----|-----------------|-----|------|
| Operating flow | m³/h | | Frequency | Hz | 60 |
| Operating head | m | | Number of poles | | 2 |
| Impeller diameter designed | mm | 125 | Speed | rpm | 3450 |

Test standard: ISO 9906:2012 - Grade3B

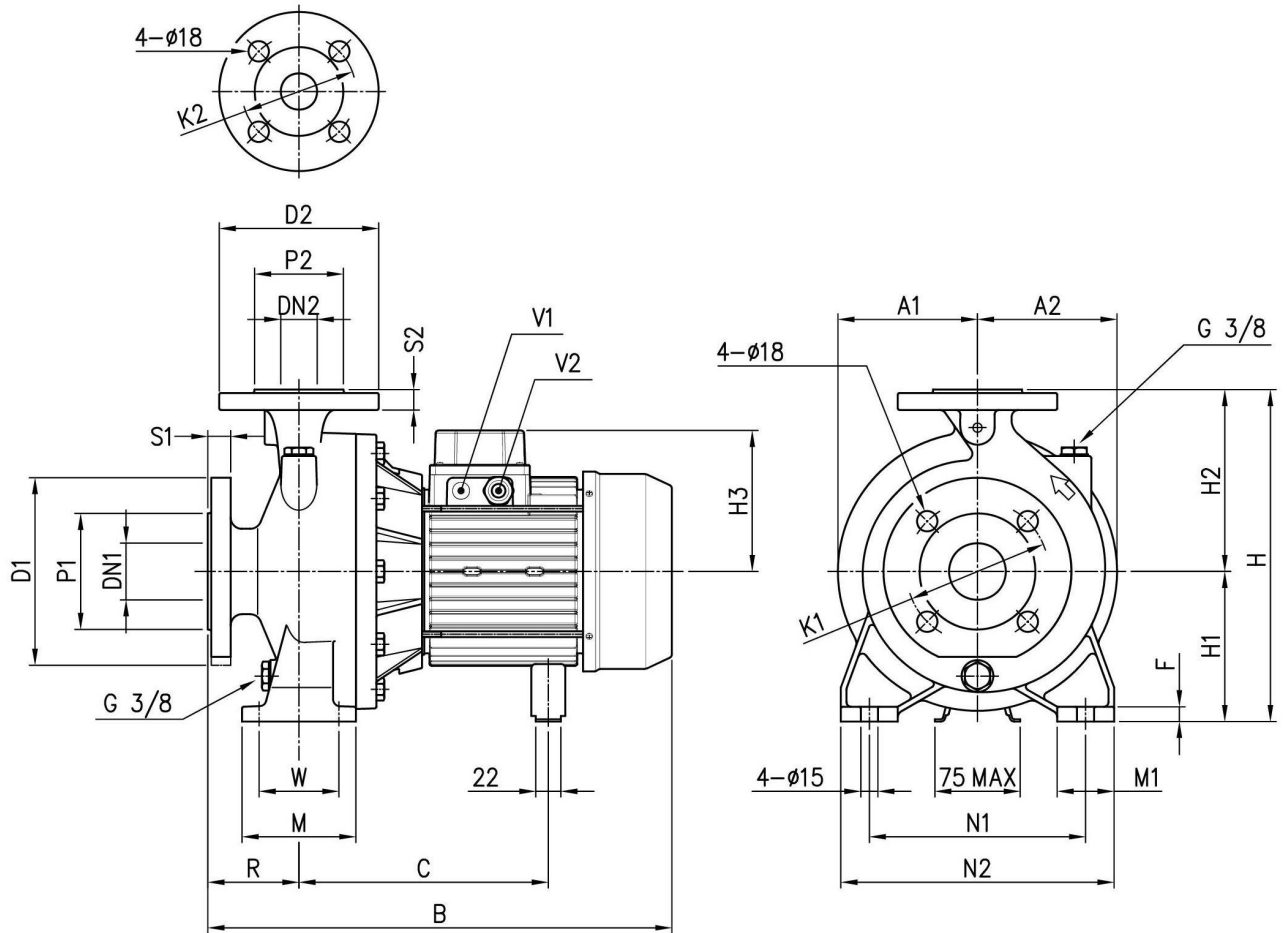
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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| Dimensions in | | mm | | |
|---------------|-----|-----|-----------|-----------|
| 1 | A1 | 104 | M | 100 |
| 2 | A2 | 124 | M1 | 50 |
| 3 | B | 491 | N1 | 190 |
| 4 | C | -11 | N2 | 240 |
| 5 | D1 | 185 | P1 | 122 |
| 6 | D2 | 165 | P2 | 102 |
| 7 | DN1 | 65 | R | 100 |
| 8 | DN2 | 50 | S1 | 20 |
| 9 | F | 13 | S2 | 20 |
| 10 | H | 292 | V2 | [PG 13].5 |
| 11 | H1 | 132 | W | 70 |
| 12 | H2 | 160 | Weight kg | 37.8 |
| 13 | H3 | 124 | | |
| 14 | K1 | 145 | | |
| 15 | K2 | 125 | | |

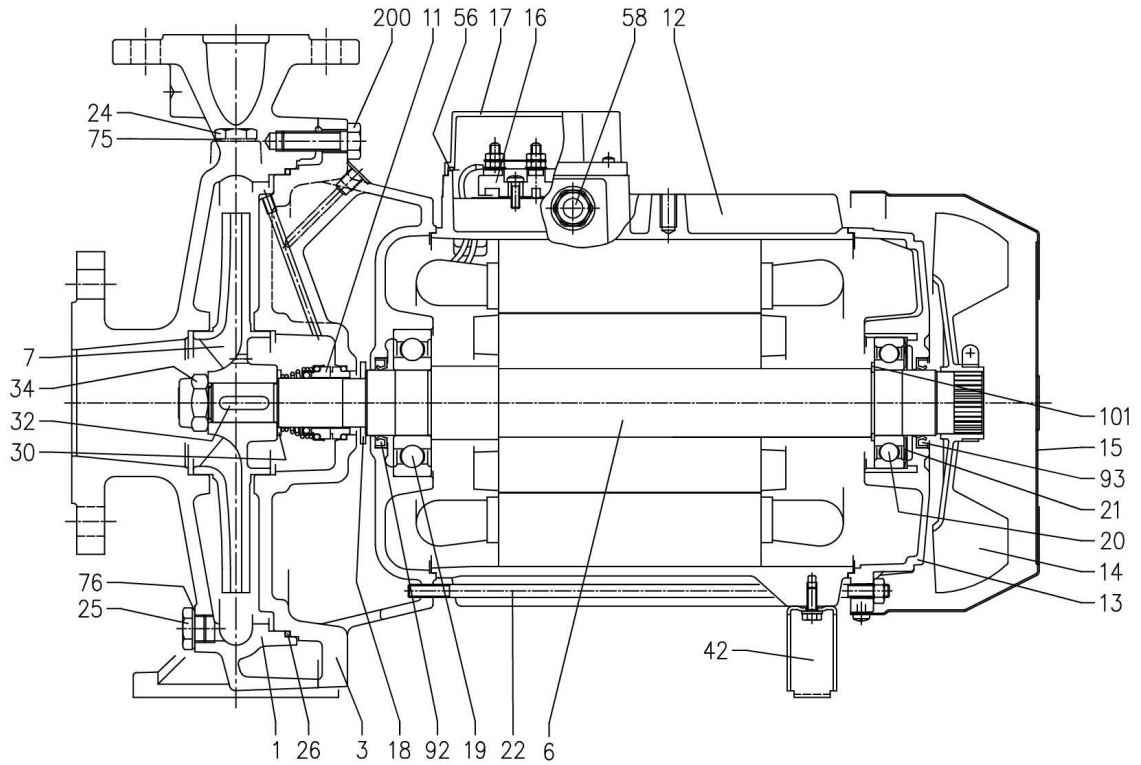
(1/2)

Construction

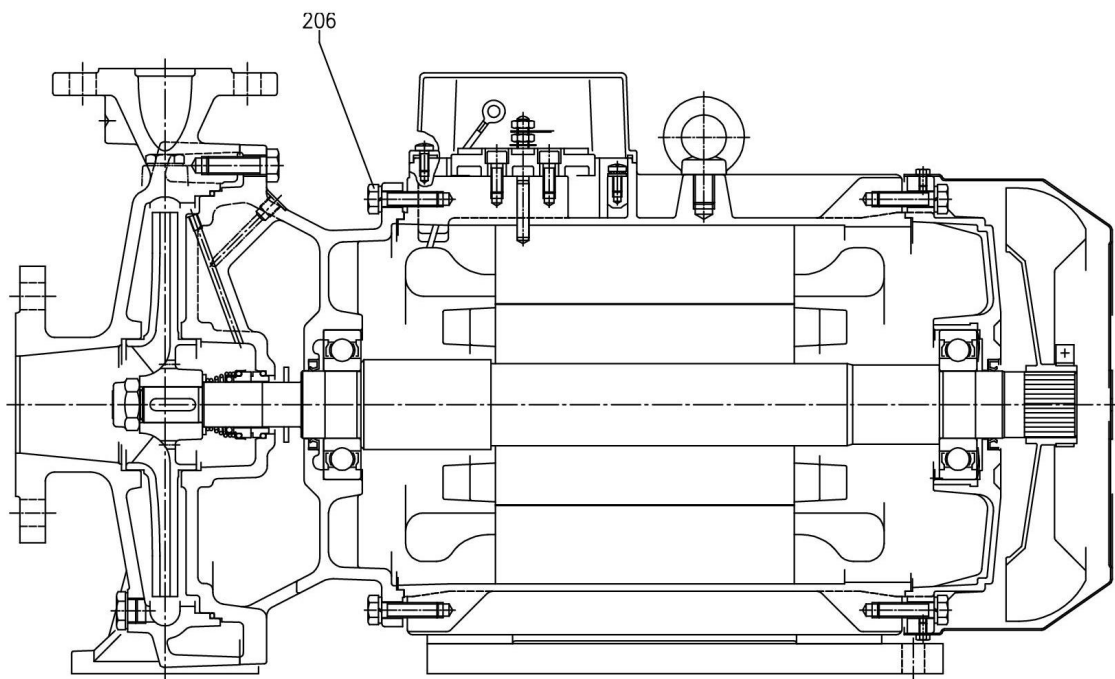
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UP TO 13 kW



15 kW AND ABOVE (NO 65-160/156)



(2/2)

Construction

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| N° | PART NAME | MATERIAL | DIMENSIONS | STANDARD | N. FOR 1 UNIT |
|-----|-----------------------------------|---|--|---|--|
| 1 | Casing | Cast iron EN-GJL-200-EN 1561 | | | 1 |
| 3 | Motor bracket | Cast iron EN-GJL-200-EN 1561 | | | 1 |
| 6 | Shaft with rotor | AISI 304 (Part in contact with liquid) | | | 1 |
| 7 | Impeller | Md xx-125, Md xx-160, Mdx-200 Md xx-250 | Cast iron EN-GJL-200-EN 1561 | | 1 |
| 11 | Mechanical seal | Carbon/Ceramic/NBR | | | 1 |
| 12 | Motor frame with stator | - | | | 1 |
| 13 | Motor cover | Aluminium | | | 1 |
| 14 | Fan | PP | | | 1 |
| 15 | Fan cover | Fe P04 Zincate | | | 1 |
| 16 | Terminal box | - | | | 1 |
| 17 | Terminal box cover | Plastic [1] - Aluminium [2] | | | 1 |
| 18 | Splash ring | Up to 7.5 kW 9.2 kW and above | NBR | 40x21.5x3 50x29.5x3 | EPE DRAWING 1 |
| 19 | Pump side ball bearing | - | | | 1 |
| 20 | Fan side ball bearing | - | | | 1 |
| 21 | Adjusting ring | Steel C70 | | | 1 |
| 22 | Tie rod | Up to 13 kW and MD 65-160/15 | Fe 42 Zincate | | EPE DRAWING 4 |
| | Screw | 15kW and above | Zn. steel 8.8 strenght class ISO 898/1 | | UNI 5739 |
| 24 | Priming plug | | Brass | | EPE DRAWING 1 |
| 25 | Drain plug | | Brass | | EPE DRAWING 1 |
| 26 | O-ring | Md xx-125 Md xx-160 Md xx-200 Md xx-250 | NBR | 147x3,53 176x3,53 220x3,53 277x3,53 | EPE DRAWING 1 |
| 30 | Spacer | | AISI 304 | 22,5x26,9x2,5 (up to 7,5kW) 30,5x40x2,5 (9,2 kW and above) | EPE DRAWING 1 |
| 32 | Key | | AISI 316 | 6x6x25 (up to 7,5kW) 8x7x30 (9,2 kW and above) | UNI 6604 1 |
| 34 | Impeller nut | | AISI 304 | M16x1,5 (up to 7,5kW) M20x1,5 (9,2 kW and above) | UNI 7474 1 |
| 42 | Foot | | Fe P04 | | EPE DRAWING 1 |
| 56 | Box gasket | | NBR | | 1 |
| 58 | Cable entry[2] | | - | | 1 |
| 75 | Washer | | Aluminium | Ø 17 - G3/8 | 1 |
| 76 | Washer | | Aluminium | Ø 17 - G3/8 | 1 |
| 85* | Kit counterflange | Flange Screw for flange Gasket | Zincate steel AISI 304 EPDM | | EPE DRAWING UNI 5737 2 8 2 |
| 92 | Lip seal | Up to 3 kW From 4 to 7,5 kW From 9,2 to 13 kW and 65-160/15 From 15 to 22 kW | - | 25x40x7 30x47x7 40x55x7 45x60x7 | DIN 3760 without spring 1 |
| 93 | Lip seal | Up to 4 kW From 5,5 to 7,5 kW From 9,2 to 13 kW and 65-160/15 From 15 to 22 kW | - | 25x40x7 30x47x7 40x55x7 45x60x7 | DIN 3760 without spring 1 |
| 101 | Snap ring (only for 9.2-11-13 kW) | | Carbon tool steels TC 80 | Ø 40 | UNI 7435 1 |
| 200 | Screw | Md xx-125 Md xx-160 Md xx-200 Md xx-250 | Zn. steel 8.8 strenght class ISO 898/1 | M8x30 M10x35 M12x40 | 8 UNI 5739 10 12 12 |
| 206 | Screw | From 15kW and above (no 65-160/15) | Zn. steel 8.8 strenght class ISO 898/1 | M10x40 | UNI 5739 4 |

[1] Only for single-phase

[2] Only for three-phase

*On request