# ULTRA S

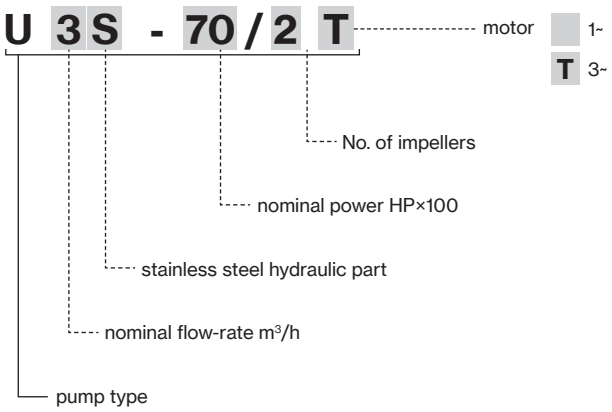
## Multistage Horizontal

Stainless steel multistage horizontal pumps.
Pumping of clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, heating and air conditioning, washing system.

| Construction features | |
|---|---|
| **Pump body, mechanical seal housing** | stainless steel AISI 304 |
| **Motor bracket** | aluminum |
| **Impellers, diffusers** | stainless steel AISI 304 |
| **Mechanical seal** | ceramic-graphite-EPDM ≤ 4 impellers<br>graphite-silicon carbide-EPDM ≥ 5 impellers |
| **Motor shaft** | stainless steel AISI 303 |
| **Liquid temperature** | -15 ÷ +110 °C |
| **Operating pressure** | max 8,5 bar |

| Motor | |
|---|---|
| **2 poles induction motor** | 3~ 220/380V - 60Hz<br>1~ 220V - 60Hz<br>(with thermal protection up to 1,85 kW) |
| **Insulation class** | F |
| **Protection degree** | IPX4 |








ULTRA 3S



ULTRA 5S



ULTRA 7S



ULTRA 9S



ULTRA 18S



# ULTRA S

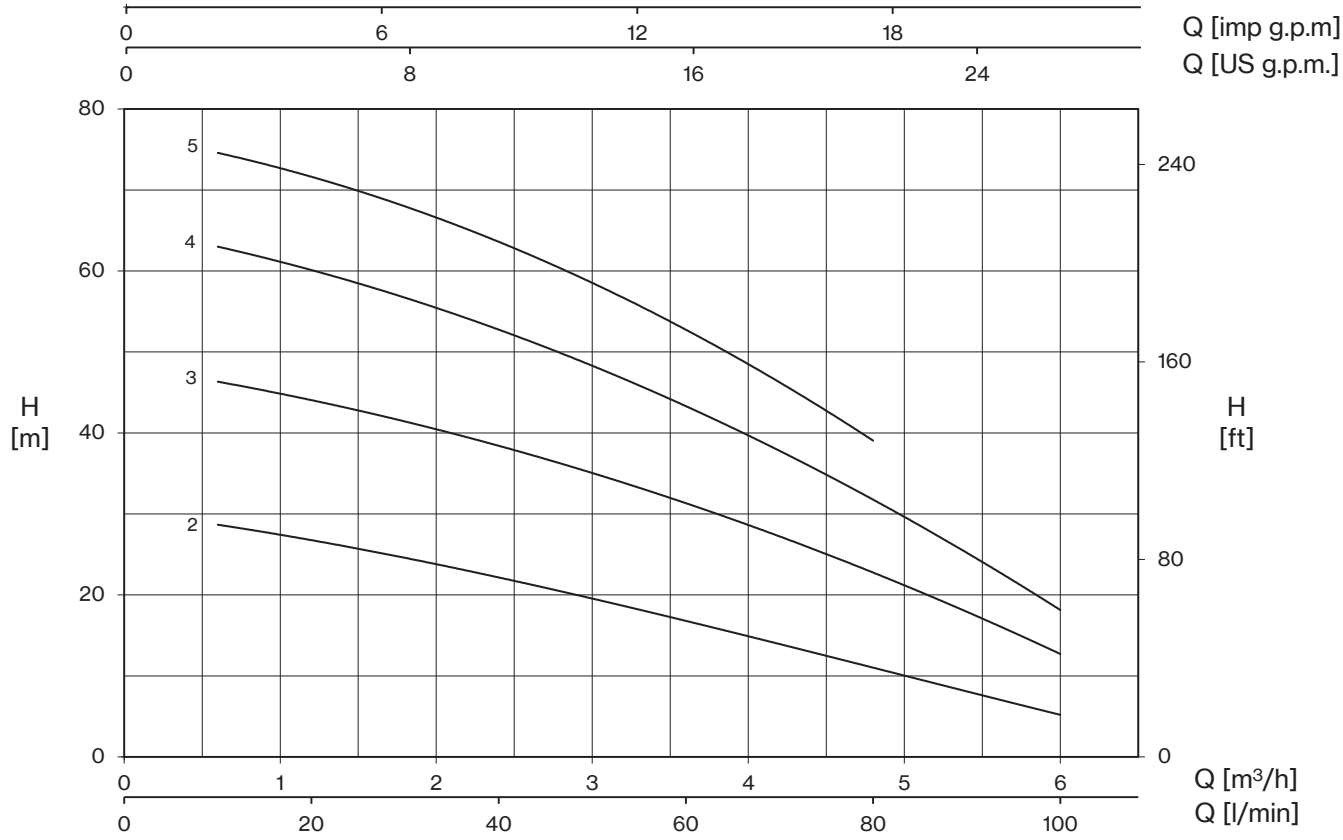
| TYPE - 60 Hz | | P2 | | P1 | | CURRENT | | Q (m³/h - l/min) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1~ | 3~ | | | 1~ | 3~ | 1~ 220V | 3~ 380V | 0 | 0,6 | 1,2 | 2,4 | 3,6 | 4,8 | 6 |
| | | | | | | | | 0 | 10 | 20 | 40 | 60 | 80 | 100 |
| | | HP | kW | kW | | A | | H (m) | | | | | | |
| **U 3S-70/2** | **U 3S-70/2T** | 0,7 | 0,51 | 0,65 | 0,57 | 3,0 | 1,0 | 30,3 | 28,7 | 26,7 | 22,2 | 16,8 | 11,0 | 5,2 |
| **U 3S-80/3** | **U 3S-80/3T** | 0,8 | 0,6 | 0,95 | 0,86 | 4,6 | 1,6 | 47,0 | 46,3 | 44,1 | 38,4 | 31,3 | 22,8 | 12,7 |
| **U 3S-120/4** | **U 3S-120/4T** | 1,2 | 0,9 | 1,27 | 1,21 | 6,0 | 2,5 | 64,6 | 62,9 | 60,3 | 52,7 | 43,2 | 31,9 | 18,1 |
| **U 3S-150/5** | **U 3S-150/5T** | 1,8 | 1,3 | 1,6 | 1,6 | 7,7 | 3,4 | 76,9 | 74,8 | 71,5 | 63,4 | 52,8 | 38,8 | |

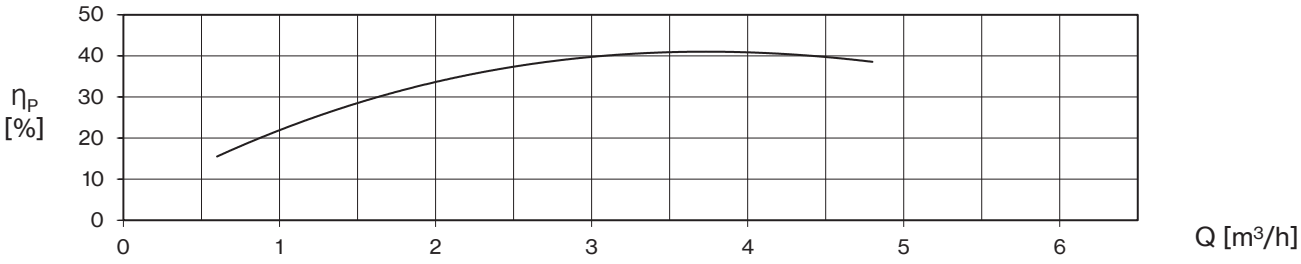
| TYPE - 60 Hz | | P2 | | P1 | | CURRENT | | Q (m³/h - l/min) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1~ | 3~ | | | 1~ | 3~ | 1~ 220V | 3~ 380V | 0 | 1,8 | 2,4 | 3,6 | 4,8 | 6 | 7,2 | 8,4 | 9 |
| | | | | | | | | 0 | 30 | 40 | 60 | 80 | 100 | 120 | 140 | 150 |
| | | HP | kW | kW | | A | | H (m) | | | | | | | | |
| **U 5S-90/2** | **U 5S-90/2T** | 0,9 | 0,66 | 0,95 | 0,92 | 4,4 | 1,7 | 32,6 | 30,4 | 29,3 | 26,9 | 24,1 | 20,7 | 17,0 | 12,1 | 8,5 |
| **U 5S-120/3** | **U 5S-120/3T** | 1,2 | 0,9 | 1,37 | 1,30 | 6,4 | 2,6 | 49,4 | 46,1 | 44,6 | 41,4 | 37,4 | 32,8 | 27,3 | 20,5 | 12,8 |
| **U 5S-180/4** | **U 5S-180/4T** | 1,8 | 1,3 | 1,9 | 1,8 | 8,9 | 3,6 | 64,3 | 61,1 | 60,0 | 57,0 | 53,1 | 48,3 | 42,4 | 34,2 | 28,6 |
| **U 5S-250/5** | **U 5S-250/5T** | 2,5 | 1,84 | 2,4 | 2,2 | 11,1 | 4,3 | 80,2 | 76,4 | 74,9 | 71,2 | 66,5 | 60,5 | 52,4 | 41,9 | 35,7 |

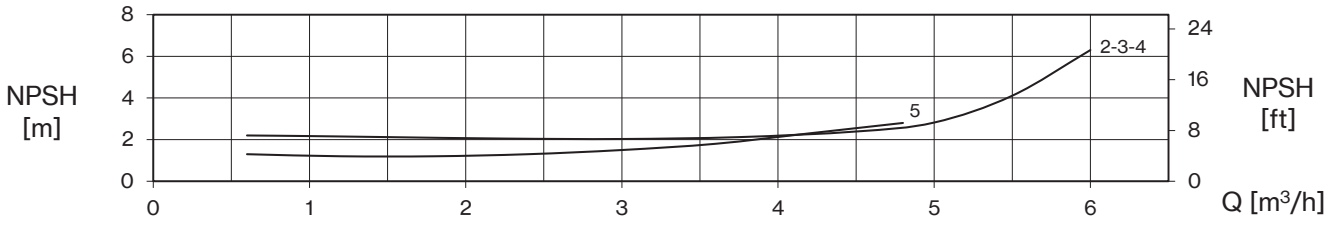
| TYPE - 60 Hz | | P2 | | P1 | | CURRENT | | Q (m³/h - l/min) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1~ | 3~ | | | 1~ | 3~ | 1~ 220V | 3~ 380V | 0 | 2,4 | 3,6 | 4,8 | 6 | 7,2 | 8,4 | 9,6 | 10,8 | 11,4 |
| | | | | | | | | 0 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 190 |
| | | HP | kW | kW | | A | | H (m) | | | | | | | | | |
| **U 7S-120/2** | **U 7S-120/2T** | 1,2 | 0,9 | 1,46 | 1,39 | 6,9 | 2,7 | 34,2 | 32,8 | 32,0 | 30,5 | 28,3 | 25,8 | 23,0 | 19,8 | 16,0 | 13,7 |
| **U 7S-200/3** | **U 7S-200/3T** | 2,5 | 1,84 | 2,3 | 2,1 | 10,8 | 4,1 | 51,7 | | 50,7 | 49,5 | 47,5 | 44,7 | 41,2 | 36,9 | 31,6 | |
| **U 7S-300/4** | **U 7S-300/4T** | 3 | 2,2 | 3,0 | 2,8 | 15,1 | 5,3 | 67,3 | | 66,1 | 64,4 | 61,7 | 58,3 | 54,2 | 48,7 | 41,2 | |
| **-** | **U 7S-400/5T** | 4 | 3 | - | 3,5 | - | 6,8 | 85,1 | | 84,3 | 82,3 | 79,1 | 75,2 | 69,9 | 62,9 | 54,3 | |

| TYPE - 60 Hz | | P2 | | P1 | | CURRENT | | Q (m³/h - l/min) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1~ | 3~ | | | 1~ | 3~ | 1~ 220V | 3~ 380V | 0 | 4,2 | 6 | 8,4 | 9,6 | 11,4 | 12 | 13,2 | 14,4 | 15,6 |
| | | | | | | | | 0 | 70 | 100 | 140 | 160 | 190 | 200 | 220 | 240 | 260 |
| | | HP | kW | kW | | A | | H (m) | | | | | | | | | |
| **U 9S-180/2** | **U 9S-180/2T** | 1,8 | 1,3 | 1,7 | 1,6 | 8,1 | 3,4 | 34,0 | 31,6 | 30,5 | 28,2 | 26,8 | 24,3 | 23,3 | 21,2 | 18,8 | 16,2 |
| **U 9S-200/3** | **U 9S-200/3T** | 2,5 | 1,84 | 2,5 | 2,3 | 11,5 | 4,4 | 50,5 | 47,0 | 45,2 | 41,8 | 39,7 | 35,8 | 34,3 | 30,9 | 27,0 | 22,7 |
| **U 9S-350/4** | **U 9S-350/4T** | 3,5 | 2,57 | 3,3 | 3,2 | 16,1 | 6,0 | 66,5 | 62,6 | 60,7 | 56,7 | 54,3 | 49,7 | 47,9 | 43,5 | 37,8 | 31,5 |
| **-** | **U 9S-400/5T** | 4 | 3 | - | 3,8 | - | 7,2 | 83,6 | 78,9 | 76,4 | 71,3 | 68,2 | 62,5 | 60,0 | 54,1 | 47,0 | 39,1 |

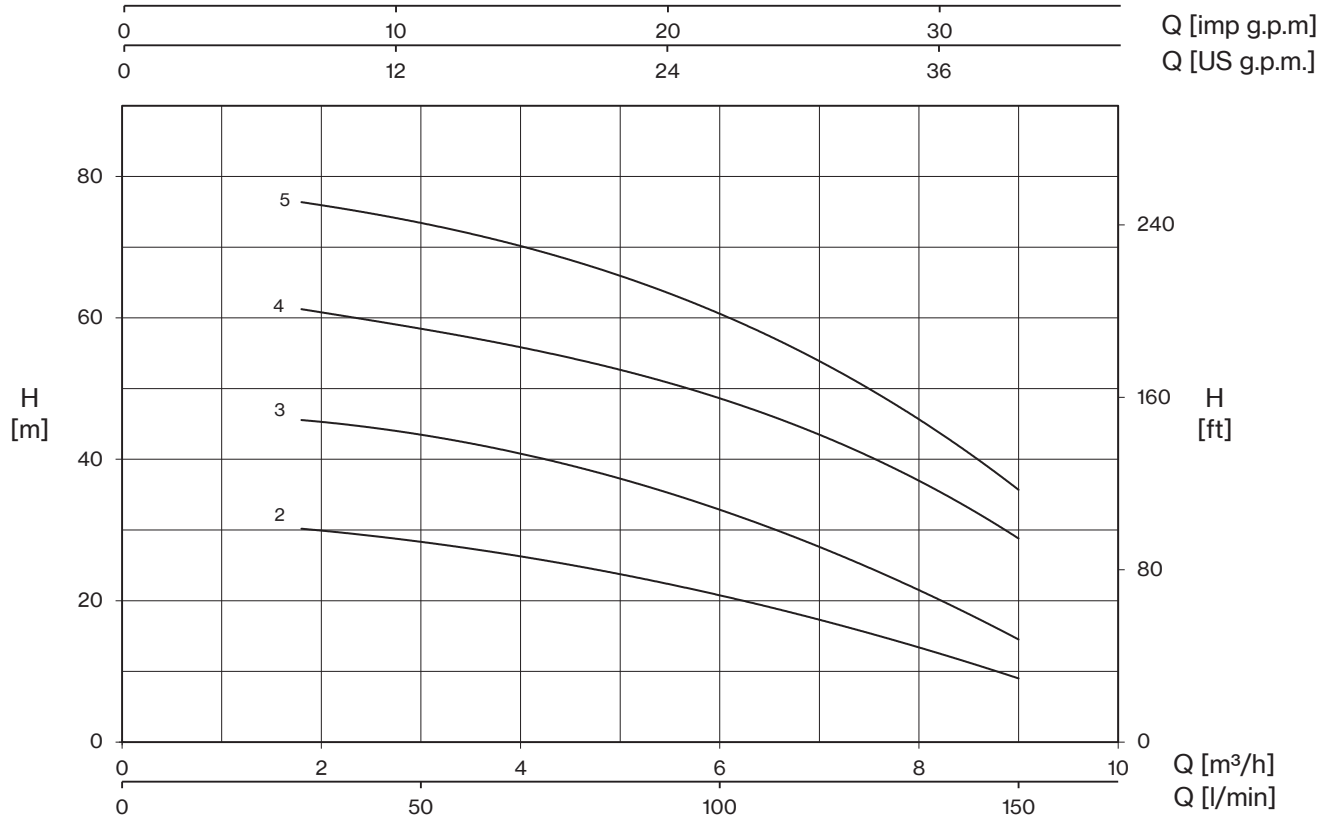
| TYPE - 60 Hz | P2 | | P1 | CURRENT | Q (m³/h - l/min) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3~ | | | | 3~ 380V | 0 | 7,2 | 9,6 | 12 | 14,4 | 16,8 | 20,4 | 22,8 | 25,2 |
| | | | | | 0 | 120 | 160 | 200 | 240 | 280 | 340 | 380 | 420 |
| | HP | kW | kW | A | H (m) | | | | | | | | |
| **U 18S-250/2T** | 3 | 2,2 | 2,6 | 5,1 | 34,3 | 32,1 | 30,8 | 29,2 | 26,9 | 24,8 | 22,1 | 20,0 | 17,2 |
| **U 18S-400/3T** | 4,5 | 3,37 | 4,0 | 7,4 | 50,2 | 47,8 | 46,1 | 44,1 | 42,0 | 39,6 | 35,9 | 32,6 | 28,1 |

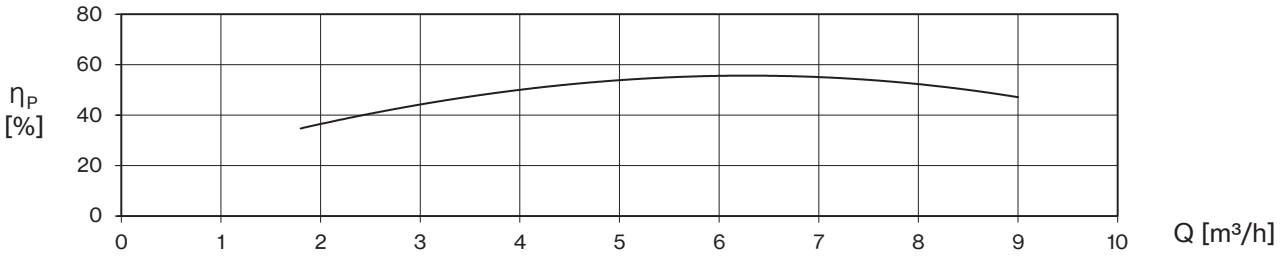

Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
5
4
3
2

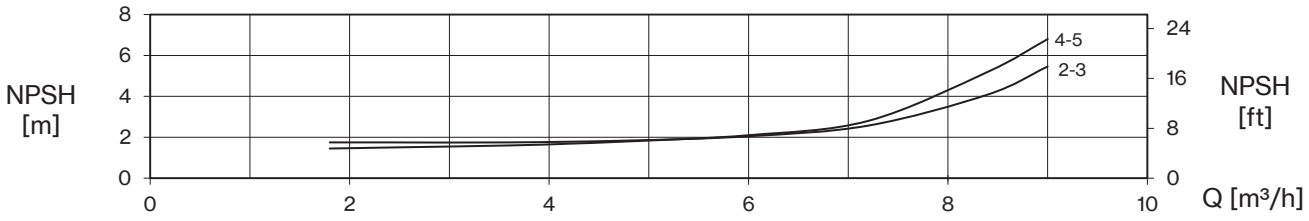

ηP [%]
Q [m³/h]

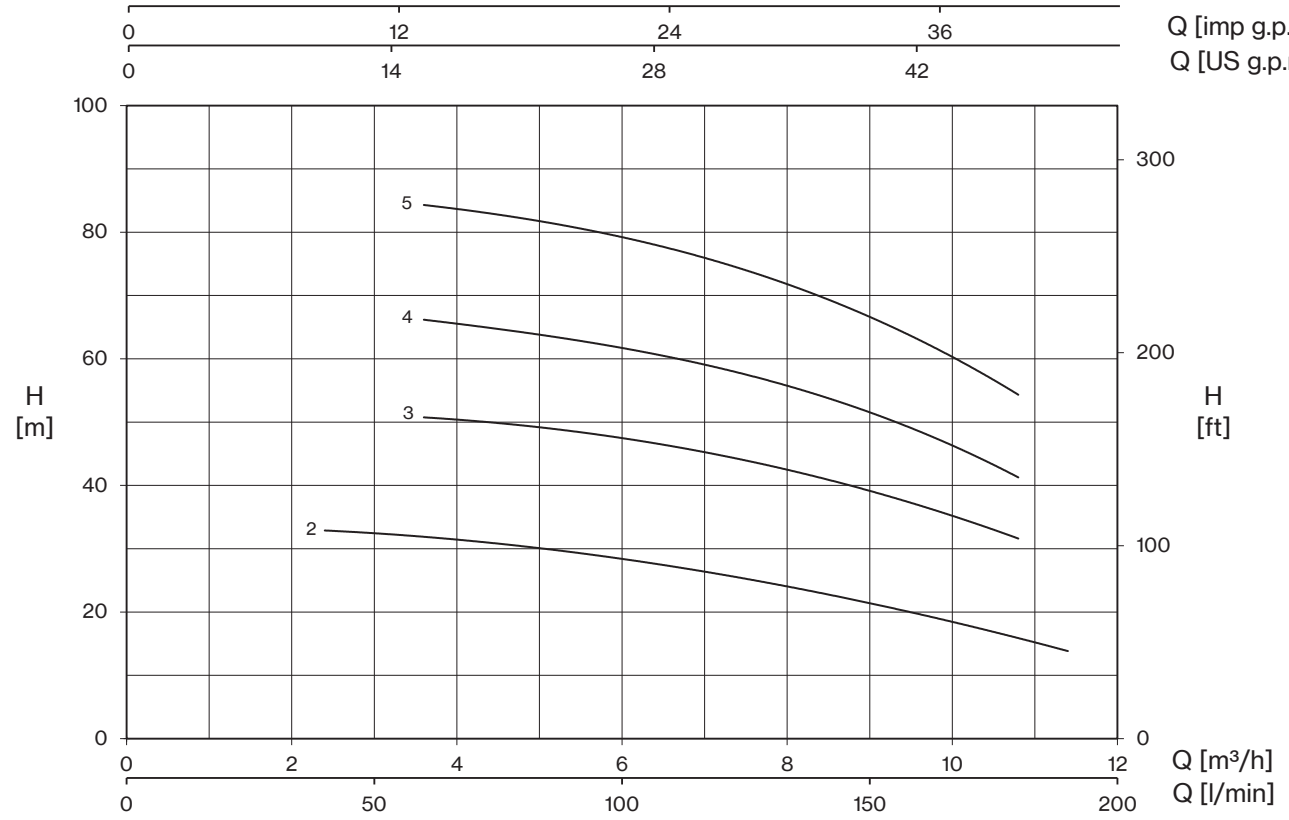

NPSH [m]
NPSH [ft]
Q [m³/h]
2-3-4
5

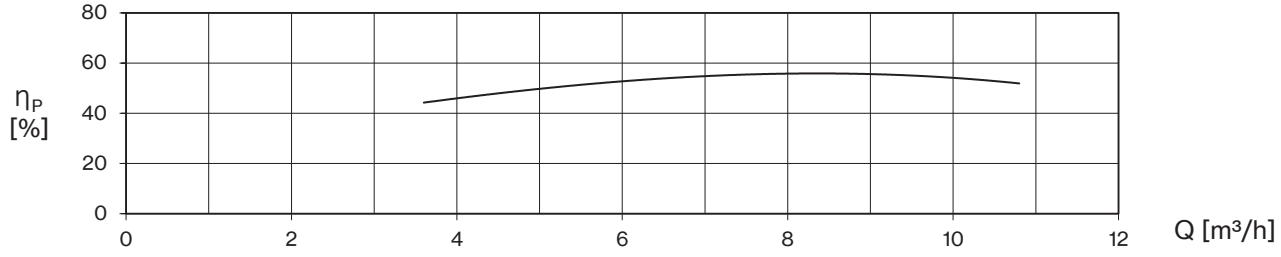
# ULTRA 5S

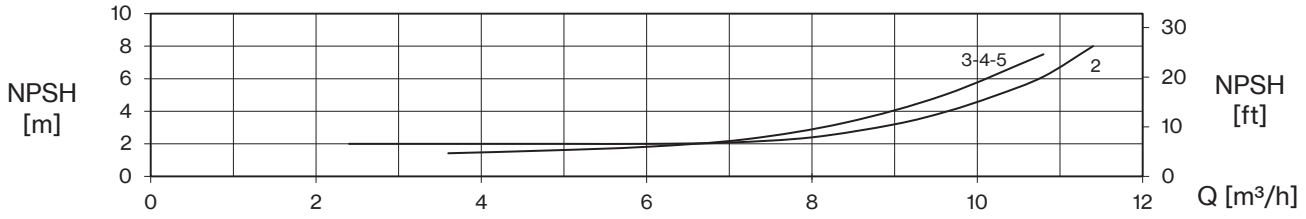

Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
5
4
3
2


ηP [%]
Q [m³/h]

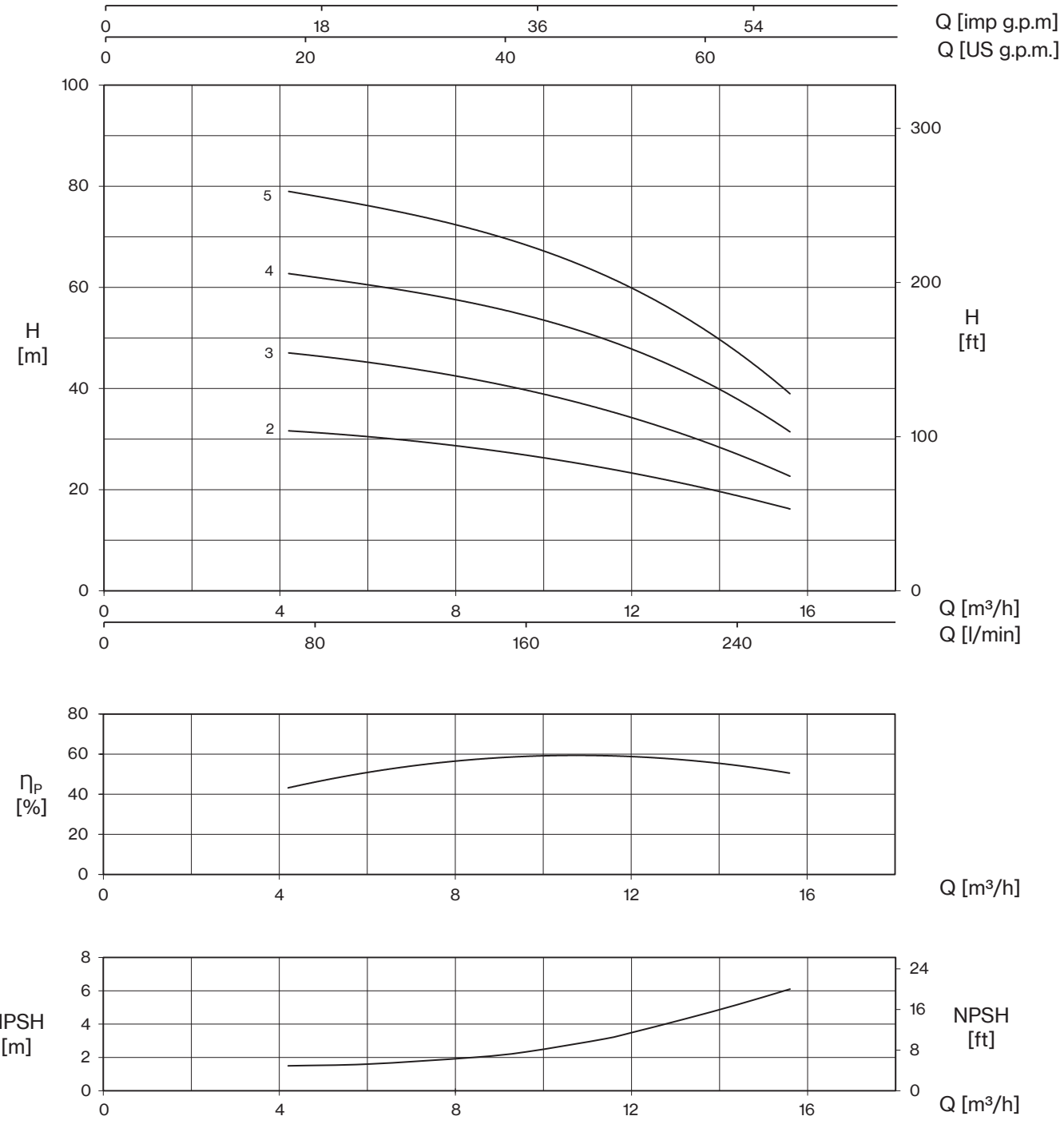

NPSH [m]
NPSH [ft]
Q [m³/h]
4-5
2-3

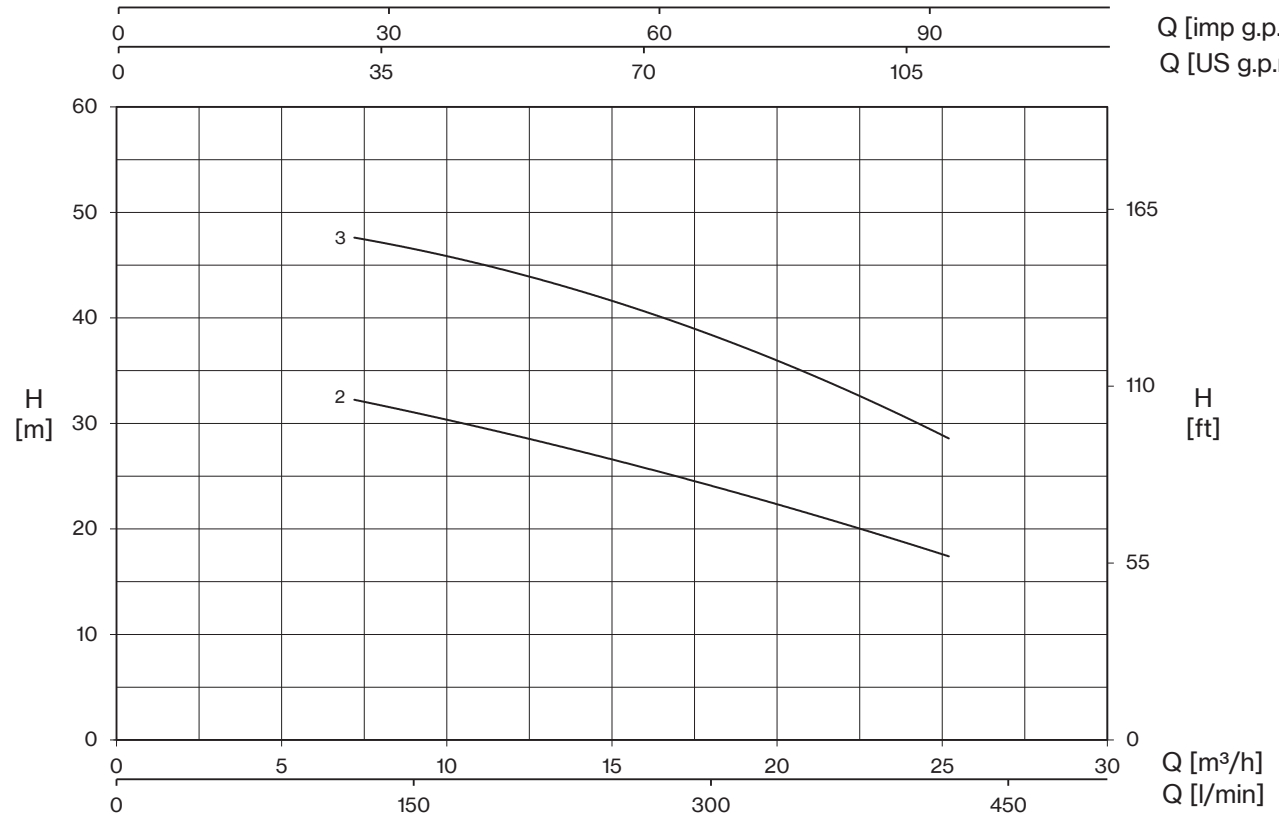

Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
5
4
3
2

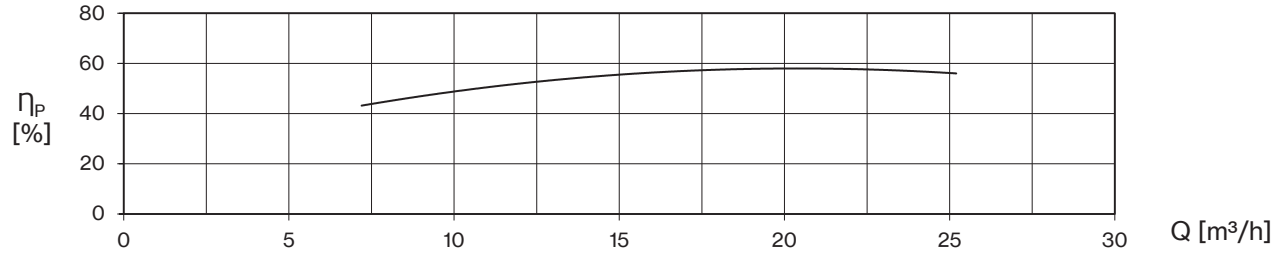

ηP [%]
Q [m³/h]

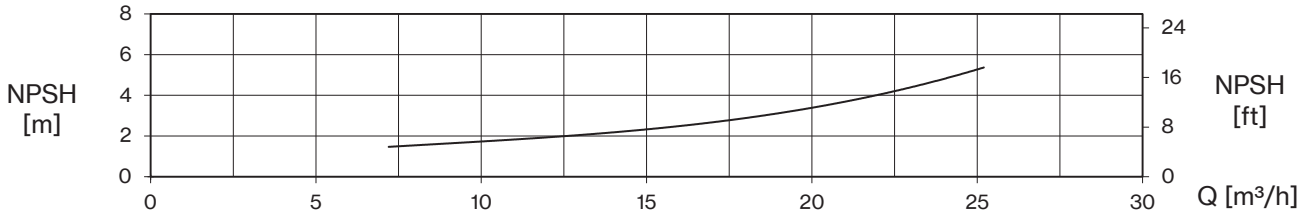

NPSH [m]
NPSH [ft]
Q [m³/h]
3-4-5
2

# ULTRA 9S


Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
5
4
3
2
ηP [%]
Q [m³/h]
NPSH [m]
NPSH [ft]
Q [m³/h]


0
30
60
90
Q [imp g.p.m]
0
35
70
105
Q [US g.p.m.]
60
50
40
30
20
10
0
H
[m]
3
2
165
110
55
0
H
[ft]
0
5
10
15
20
25
30
Q [m³/h]
0
150
300
450
Q [l/min]

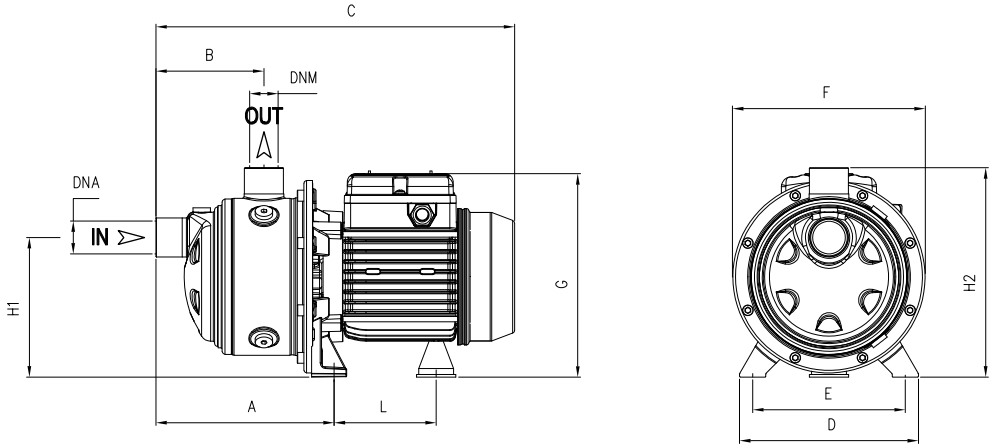

80
60
40
20
0
ηP
[%]
0
5
10
15
20
25
30
Q [m³/h]


8
6
4
2
0
NPSH
[m]
24
16
8
0
NPSH
[ft]
0
5
10
15
20
25
30
Q [m³/h]

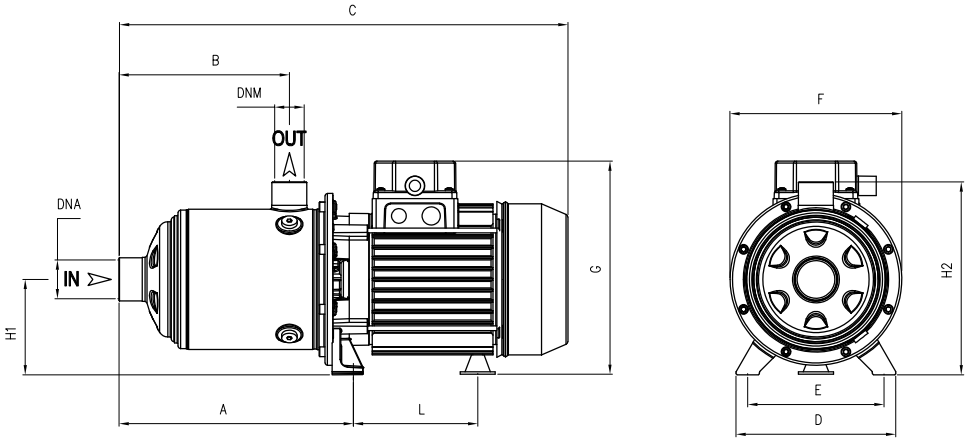
# ULTRA S

| 1~ 110V - 60Hz | |
|---|---|
| TYPE | I (A) |
| **U 3S-70/2** | 6,0 |
| **U 3S-80/3** | 9,2 |
| **U 3S-120/4** | 12 |
| **U 5S-90/2** | 8,8 |
| **U 5S-120/3** | 12,8 |
| **U 7S-120/2** | 13,8 |

| LOTS | | | | |
|---|---|---|---|---|
| TYPE | TRUCK | | CONTAINER | |
| | PALLET (cm) | N° pumps | PALLET (cm) | N° pumps |
| **U 3S-70/2** | 80×120×150 | 84 | 80×120×175 | 96 |
| **U 3S-80/3-120/4** | 85×110×160 | 70 | 85×110×185 | 80 |
| **U 3S-150/5** | 90×110×150 | 54 | 90×110×170 | 63 |
| **U 5S-90/2** | 80×120×150 | 84 | 80×120×175 | 96 |
| **U 5S-120/3** | 85×110×160 | 70 | 85×110×185 | 80 |
| **U 5S-180/4-250/5** | 90×110×150 | 54 | 90×110×170 | 63 |
| **U 7S-120/2** | 85×110×160 | 70 | 85×110×185 | 80 |
| **U 7S-200/3-300/4T** | 90×110×150 | 54 | 90×110×170 | 63 |
| **U 7S-300/4-400/5T** | 80×120×145 | 35 | 80×120×170 | 42 |
| **U 9S-180/2-200/3** | 90×110×150 | 54 | 90×110×170 | 63 |
| **U 9S-350/4-400/5T** | 80×120×145 | 35 | 80×120×170 | 42 |
| **U 18S-250/2T-400/3T** | 90×110×150 | 54 | 90×110×170 | 63 |




| TYPE | | DIMENSIONS (mm) | | | | | | | | | | | | Kg | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1~ | 3~ | A | B | C | D | E | F | G | L | H1 | H2 | DNA | DNM | 1~ | 3~ |
| **U 3S-70/2** | **U 3S-70/2T** | 166,8 | 103 | 333 | 164 | 140 | 178 | 190 | 93,7 | 128 | 192 | 1" G | 1" G | 7,5 | 7,5 |
| **U 3S-80/3** | **U 3S-80/3T** | 166,8 | 103 | 356 | 164 | 140 | 178 | 203 | 104,7 | 128 | 192 | | | 10 | 10 |
| **U 3S-120/4** | **U 3S-120/4T** | 190,8 | 127 | 380 | 164 | 140 | 178 | 203 | 104,7 | 128 | 192 | | | 12 | 12 |
| **U 3S-150/5** | **U 3S-150/5T** | 214,8 | 151 | 465 | 164 | 140 | 201 | 211 | 128,2 | 134 | 198 | | | 18,5 | 18,5 |
| **U 5S-90/2** | **U 5S-90/2T** | 166,8 | 103 | 333 | 164 | 140 | 178 | 190 | 93,7 | 128 | 192 | | | 8,5 | 8,5 |
| **U 5S-120/3** | **U 5S-120/3T** | 166,8 | 103 | 356 | 164 | 140 | 178 | 203 | 104,7 | 128 | 192 | | | 11,5 | 11,5 |
| **U 5S-180/4** | **U 5S-180/4T** | 190,8 | 127 | 441 | 164 | 140 | 201 | 211 | 128,2 | 134 | 198 | | | 17 | 18 |
| **U 5S-250/5** | **U 5S-250/5T** | 214,8 | 151 | 465 | 164 | 140 | 201 | 211 | 128,2 | 134 | 198 | | | 18,5 | 17,5 |




| TYPE | | DIMENSIONS (mm) | | | | | | | | | | | | Kg | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1~ | 3~ | A | B | C | D | E | F | G | L | H1 | H2 | DNA | DNM | 1~ | 3~ |
| **U 7S-120/2** | **U 7S-120/2T** | 166,8 | 103 | 356 | 164 | 140 | 178 | 203 | 104,7 | 92 | 192 | 1" ¼ G | 1" G | 11 | 11 |
| **U 7S-200/3** | **U 7S-200/3T** | 166,8 | 103 | 417 | 164 | 140 | 201 | 211 | 128,2 | 98 | 198 | | | 16,5 | 16,5 |
| **U 7S-300/4** | **U 7S-300/4T** | 190,8 | 127 | 495<br>T 441 | 164 | 140 | 201 | 229<br>T 211 | 148,2<br>T 128,2 | 103<br>T 98 | 203<br>T 198 | | | 25 | 18 |
| **-** | **U 7S-400/5T** | 214,8 | 151 | 519 | 164 | 140 | 201 | 229 | 148,2 | 103 | 203 | | | - | 25,5 |
| **U 9S-180/2** | **U 9S-180/2T** | 185,8 | 118 | 436 | 164 | 140 | 201 | 211 | 128,2 | 98 | 198 | 1" ½ G | 1" ¼ G | 16,5 | 17 |
| **U 9S-200/3** | **U 9S-200/3T** | 185,8 | 118 | 436 | 164 | 140 | 201 | 211 | 128,2 | 98 | 198 | | | 17 | 17 |
| **U 9S-350/4** | **U 9S-350/4T** | 215,8 | 148 | 520 | 164 | 140 | 201 | 229 | 148,2 | 103 | 203 | | | 25 | 22 |
| **-** | **U 9S-400/5T** | 245,8 | 178 | 550 | 164 | 140 | 201 | 229 | 148,2 | 103 | 203 | | | - | 26 |
| **-** | **U 18S-250/2T** | 201 | 141 | 462 | 164 | 140 | 201 | 211 | 128,2 | 98 | 198 | 2" G | 1" ½ G | - | 17 |
| **-** | **U 18S-400/3T** | 238,5 | 141 | 516 | 164 | 140 | 201 | 229 | 148,2 | 103 | 203 | | | - | 25 |

# ULTRA (S) Serie-Mechanical seal and bearings

| MECHANICAL SEAL | PUMP MODEL | SHAFT Ø | | STANDARD MATERIAL | OPTIONAL |
|---|---|---|---|---|---|
|  | U3-70/2, U3-80/3, U3-120/4, U5-90/2, U5-120/3, U5-180/4, U7-120/2, U7-200/3, U7-300/4, U9-180/2, U9-200/3, U9-350/4, U18-250/2, U18-400/3 | 14mm / S | ***Rotating face***<br>***Stationary face***<br>***Elastomer*** | Graphite<br>Ceramic<br>EPDM | SiC<br>SiC<br>EPDM |
| | U3-150/5, U5-250/5, U7-400/5, U9-400/5 | 14mm | ***Rotating face***<br>***Stationary face***<br>***Elastomer*** | Graphite<br>SiC<br>EPDM | SiC<br>SiC<br>EPDM |

| BEARINGS | PUMP MODEL | TYPE | |
|---|---|---|---|
|  | U3-70/2, U 5-90/2 | 6201-ZZ | 6202-ZZ |
| | U3-80/3, U3-120/4, U5-120/3, U 7-120/2 | 6202-ZZ | 6302-ZZ C3 |
| | U3-150/5, U 5-180/4, U5-250/5, U7-200/3, 3~ U7-300/4, U 9-180/2, U9-200/3, U18-250/2 | 6203-ZZ | 6304-ZZ C3 |
| | 1~ U7-300/4, U7-400/5, U9-350/4, U9-400/5, U18-400/3 | 6203-ZZ | 6305-ZZ C3 |