

12" Submersible Electric Pumps

Z12 Series



MARKET SECTORS

AGRICULTURE, INDUSTRY, MUNICIPAL.

APPLICATIONS

- Water supply from deep wells.
- Pressure boosting and water distribution
- Supply of surge tanks and reservoirs.
- Firefighting and washing systems.
- Water table level control.
- Irrigation.
- Mines.

SPECIFICATIONS

- **Delivery:** up to 520 m³/h.
- **Head:** up to 452 m.
- Maximum pump overall diameter (2 cable covers included): 302 mm for all versions.
- Maximum electric pump immersion depth: 350 m.
- Maximum permissible quantity of suspended sand: 100 g/m³.
- Standard delivery outlet: 8" NPT (according to API) for all versions.
- Construction materials available:
 - AISI304 stainless steel (Z12)
 - AISI316 stainless steel (ZN12)
 - **DUPLEX stainless steel (ZR12)**
 - **SUPER DUPLEX stainless steel (ZX12).**
- Horizontal installation possible. Minimum recommended inclination 3°. Motor on the lowest position.

CONSTRUCTION FEATURES

- Electric pumps sturdy and lightweight, easy maintenance and resistant to corrosion in aggressive and non-aggressive environments.
 - Impellers and diffusers made of stainless steel.
 - Delivery casing made of stainless steel.
 - Non-return valve made of stainless steel, with integrated spring.
 - Suction support made of stainless steel.
 - Shaft made of stainless steel.
- For available material versions refer to the tables on next pages.
- Coupling and flange mounting according to NEMA standard for 6" and 8" motor, with key connection for 10" and 12" motor.

MOTORS

L8W, L10W and L12W rewindable three-phase motors with water filled winding.

- Three-phase version:
 - L8W: 30 to 93 kW 380-415 V, 50Hz.
 - L10W: 93 to 150 kW 380-415 V, 50Hz.
 - L12W: 185 to 300 kW 380-415 V, 50Hz.
- Maximum supply voltage variations: 400 V $\pm$ 10% (all sizes)
- Maximum number of starts per hour: 10 (L8W) 8 (L10W) 4 (L12W).

- Horizontal operation: L8W, L10W and L12W on request for all versions.

- Maximum temperature of water in contact with motor: 30°C (all sizes).

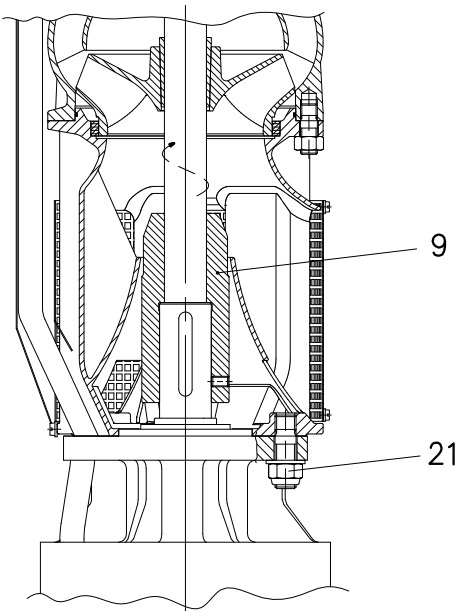
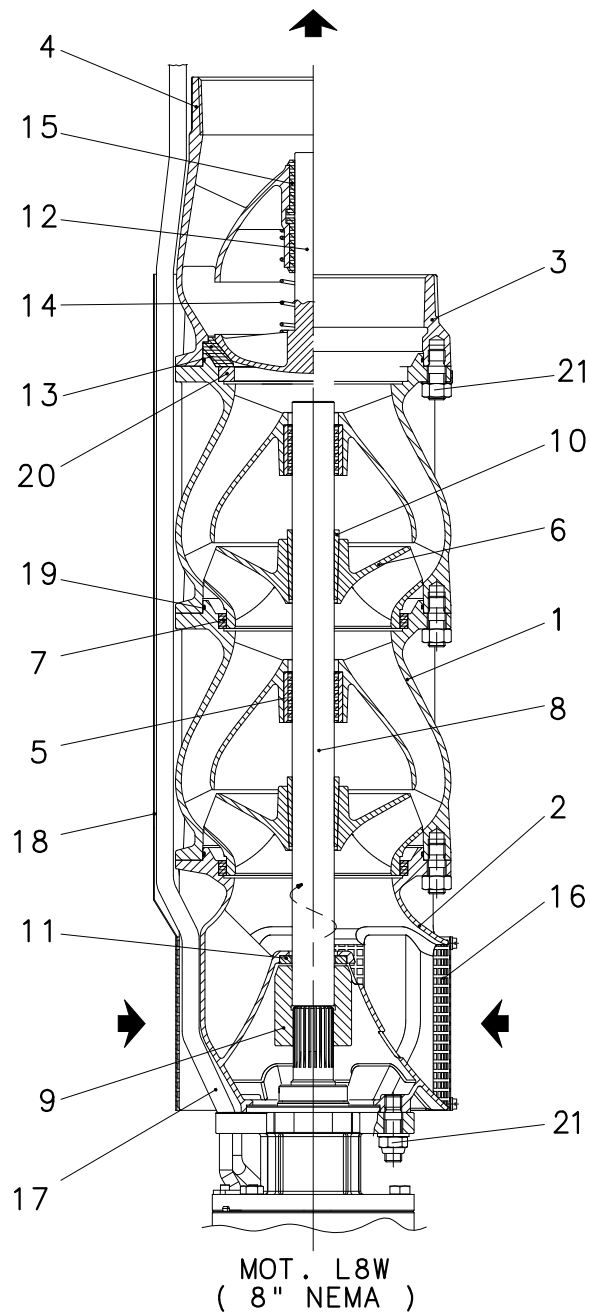
OPTIONAL FEATURES

Customized impeller diameters.

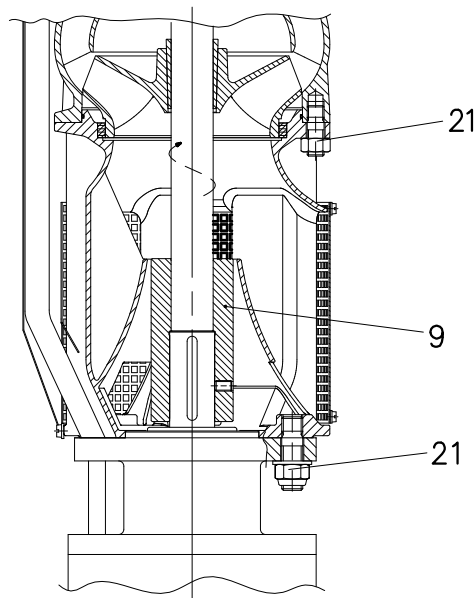
ACCESSORIES

Coupling flanges, control panels, drop cables, cable joints, cooling shrouds, temperature sensor PT 100 / PTC.

Z12 SERIES
PUMP CROSS SECTION AND LIST OF COMPONENTS



MOT. L12W



MOT. L10W

03821_B_DS

Z12 SERIES

TABLE OF MATERIALS

REF. N°	COMPONENT	MATERIAL	DESIGNATION	
			EUROPE	USA
1	Diffuser	Acciaio inox	EN 10213-GX5CrNi19-10 (1.4308)	A744-CF 8
2	Lower support / Suction Casing	Stainless steel	EN 10213-GX5CrNi19-10 (1.4308)	A744-CF 8
3	Delivery head	Stainless steel	EN 10213-GX5CrNi19-10 (1.4308)	A744-CF 8
4	Valve Casing	Acciaio inox	EN 10213-GX5CrNi19-10 (1.4308)	A744-CF 8
5	Bearing bush	EPDM + Lubricant		
6	Impeller	Stainless steel	EN 10213-GX5CrNi19-11 (1.4308)	A744-CF 8
7	Wear ring	Tecnopolymer POM-C		
8	Pump shaft	Stainless steel	EN 10088-1-X17CrNi16-2 (1.4057)	AISI 431
9	Coupling	Stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803
10	Taperlock	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803
11	Thrust Bearing	PTFE + 25% carbon		
12	Valve	Stainless steel	EN 10213-GX5CrNi19-10 (1.4308)	A744-CF 8
13	Valve seal	NBR 90		
14	Valve spring	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
15	Wing valve			
16	Suction strainer	Stainless steel	DIN 17440-X6CrNiMoTi17-12-2 (1.4517)	AISI 316Ti
17	Motor cable			
18	Cable protection	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
19	Diffuser O-Ring	NBR 70		
20	Intermediate ring			
21	Screw, stud, nut	Stainless steel	ISO 3506-1/2 A4-70	AISI 316

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ZN12 SERIES

TABLE OF MATERIALS

REF. N°	COMPONENT	MATERIAL	DESIGNATION	
			EUROPE	USA
1	Diffuser	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
2	Lower support / Suction Casing	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
3	Delivery head	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
4	Valve Casing	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
5	Bearing bush	EPDM 70		
6	Impeller	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
7	Wear ring	Technopolymer POM-C		
8	Pump shaft	Duplex Stainless Steel	EN 10088-X2CrNiMoN 22 5 3 (1.4462)	ASTM - F51
9	Coupling	Duplex Stainless Steel	EN 10088-X2CrNiMoN 22 5 3 (1.4462)	ASTM - F51
10	Taperlock	Duplex Stainless Steel	EN 10088-X2CrNiMoN 22 5 3 (1.4462)	ASTM - F51
11	Thrust Bearing	Guarniflon G412		
12	Valve	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
13	Valve seal	EPDM 90		
14	Valve spring	Stainless steel	EN 10088-X5CrNiMo 17 12 2 (1.4401)	AISI 316
15	Wing valve			
16	Suction strainer	Stainless steel	EN 10088-X6CrNiMoTi 17 12 2 (1.4571)	ASTM - 316Ti
17	Motor cable			
18	Cable protection	Stainless steel	EN 10088-X6CrNiMoTi 17 12 2 (1.4571)	ASTM - 316Ti
19	Diffuser O-Ring	EPDM 70		
20	Intermediate ring			
21	Screw, stud, nut	Stainless steel	ISO 3506-1/2 A4-70	AISI 316

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ZR12 SERIES

TABLE OF MATERIALS

REF. N°	COMPONENT	MATERIAL	DESIGNATION	
			EUROPE	USA
1	Diffuser	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
2	Lower support / Suction Casing	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
3	Delivery head	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
4	Valve Casing	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
5	Bearing bush	EPDM + Lubricant		
6	Impeller	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
7	Wear ring	Tecnopolimery POM-C		
8	Pump shaft	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803
9	Coupling	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803
10	Taperlock	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803
11	Thrust Bearing	PTFE + 25% carbon		
12	Valve	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
13	Valve seal	NBR 90		
14	Valve spring	Hastelloy C4	DIN17744-NiMo16Cr16Ti (2.4610)	N06455
15	Wing valve			
16	Suction strainer	Stainless steel	EN 10088-1X1NiCrMoCu25-20-5 (1.4539)	AISI 904L
17	Motor cable			
18	Cable protection	Stainless steel	EN 10088-1X1NiCrMoCu25-20-5 (1.4539)	AISI 904L
19	Diffuser O-Ring	NBR 70		
20	Intermediate ring			
21	Screw, stud, nut	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803

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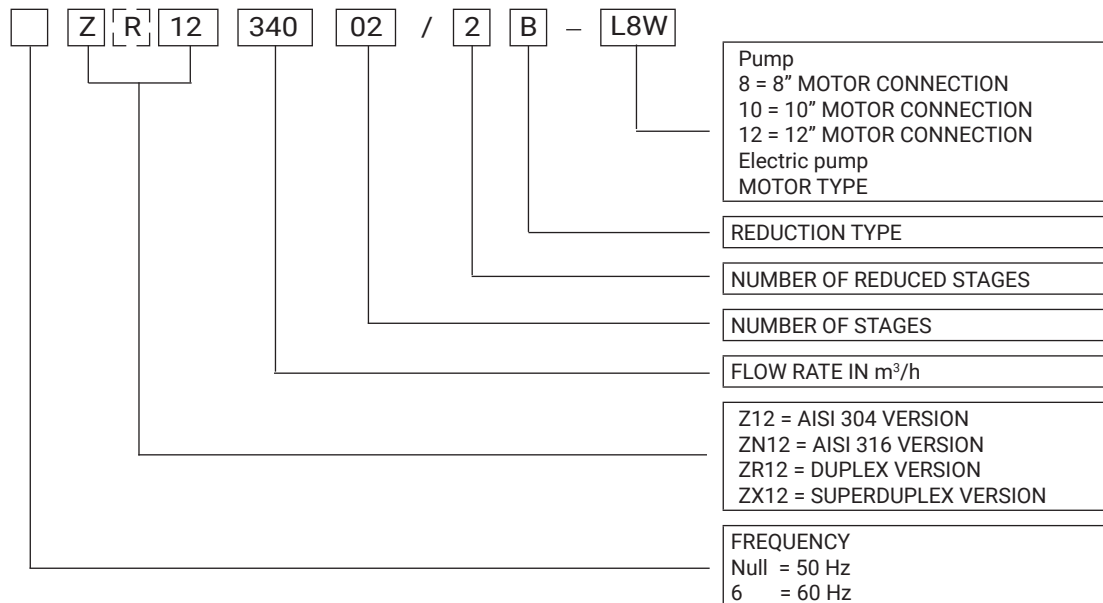
ZX12 SERIES

TABLE OF MATERIALS

REF. N°	COMPONENT	MATERIAL	DESIGNATION	
			EUROPE	USA
1	Diffuser	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
2	Lower support / Suction Casing	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
3	Delivery head	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
4	Valve Casing	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
5	Bearing bush	EPDM 70		
6	Impeller	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
7	Wear ring	Technopolymer POM-C		
8	Pump shaft	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53
9	Coupling	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53
10	Taperlock	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53
11	Thrust Bearing	Guarniflon G412		
12	Valve	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
13	Valve seal	EPDM 90		
14	Valve spring	Hastelloy C4	DIN17744-NiMo16Cr16Ti (2.4610)	N06455
15	Wing valve			
16	Suction strainer	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53
17	Motor cable			
18	Cable protection	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53
19	Diffuser O-Ring	EPDM 70		
20	Intermediate ring			
21	Screw, stud, nut	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53

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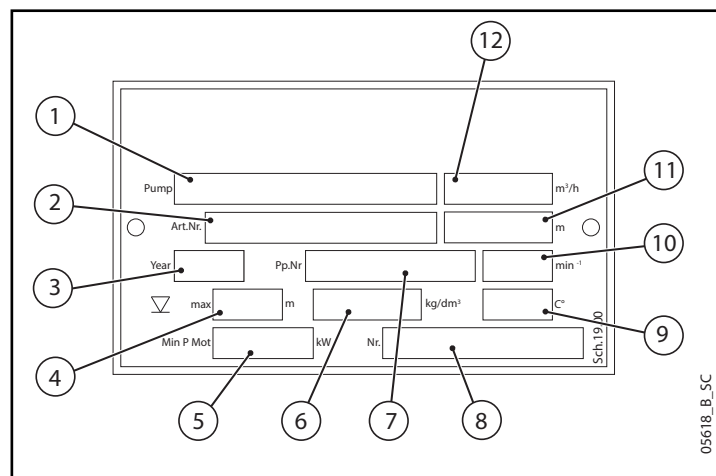
Z12 SERIES IDENTIFICATION CODES



EXAMPLE : ZR12 340 02/2B - L8W

12" electric pump, 50 Hz, made of DUPLEX, flow rate 340 m³/h, 2 stages including 2 reduced ones, coupled to an 8" L8W motor.

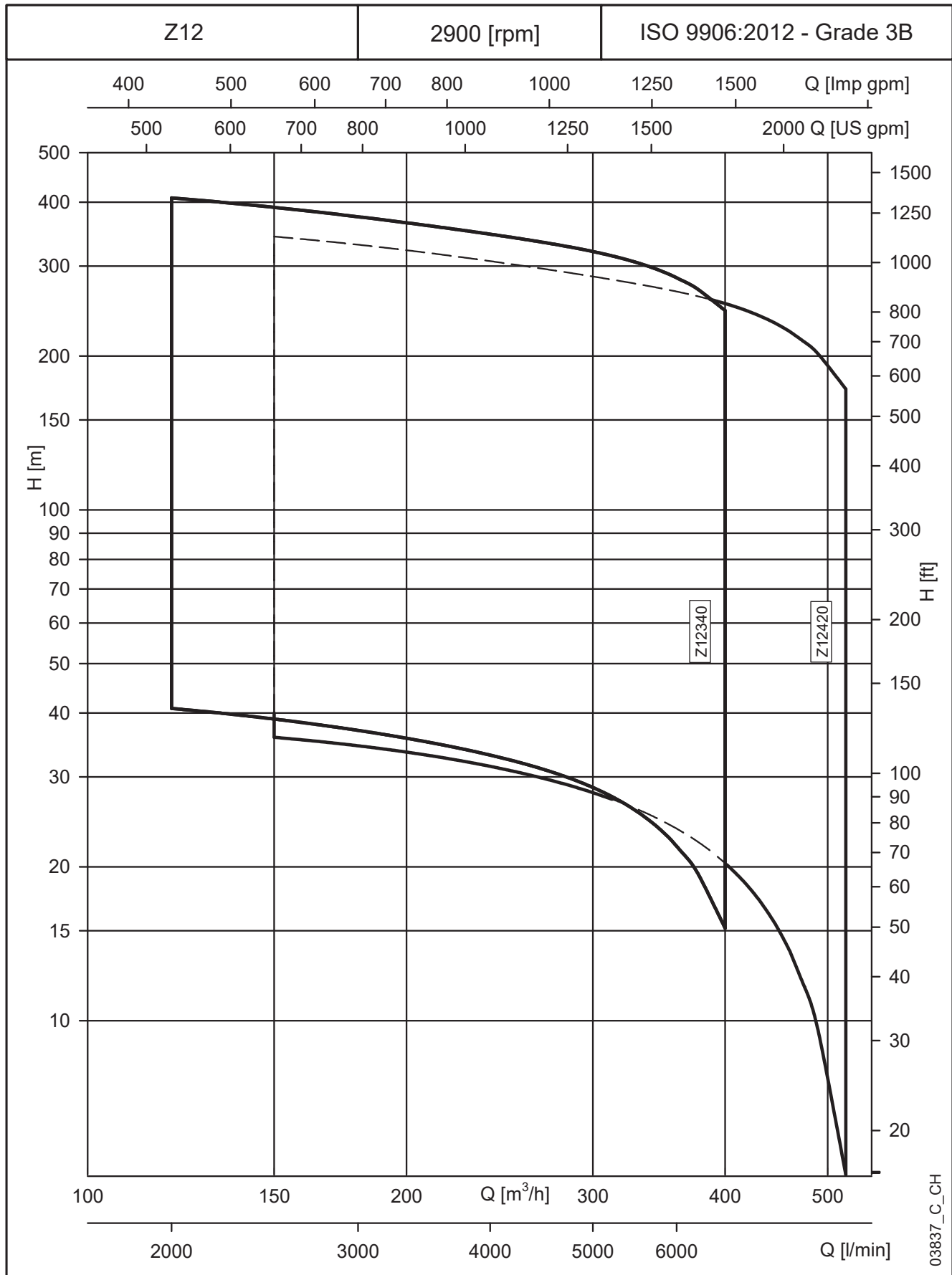
RATING PLATE



LEGEND

- 1 - Pump type
- 2 - Article code of the pump
- 3 - Year of production
- 4 - Max. immersion depth
- 5 - Min. required motor power
- 6 - Density of medium
- 7 - Data set entry for additional identification
- 8 - Serial number
- 9 - Max. water temperature
- 10 - Speed
- 11 - Head
- 12 - Nominal flow

Z12 SERIES HYDRAULIC PERFORMANCE RANGE



Z12340: 1 TO 2 STAGES OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY						
		l/min 0	2000,0	2933,3	3866,7	4800,0	5733,3	6666,7
		m³/h 0	120	176	232	288	344	400
	H = TOTAL HEAD METRES COLUMN OF WATER							
Z12340 01/1B	30	45,4	40,8	37,3	33,6	29,6	24,1	15,2
Z12340 01/1A	37	49,9	44,7	41,1	37,8	34,3	29,6	21,6
Z12340 01	45	55,4	49,9	46,0	42,7	39,7	36,0	29,4
Z12340 02/2C	52	82,6	75,0	67,6	59,6	50,6	38,5	19,8
Z12340 02/2B	60	90,2	81,1	73,9	66,7	58,7	47,6	29,6
Z12340 02/2A	75	100,5	90,1	82,9	76,2	69,3	59,9	44,0
Z12340 02	93	110,7	99,7	92,0	85,4	79,5	72,0	58,9

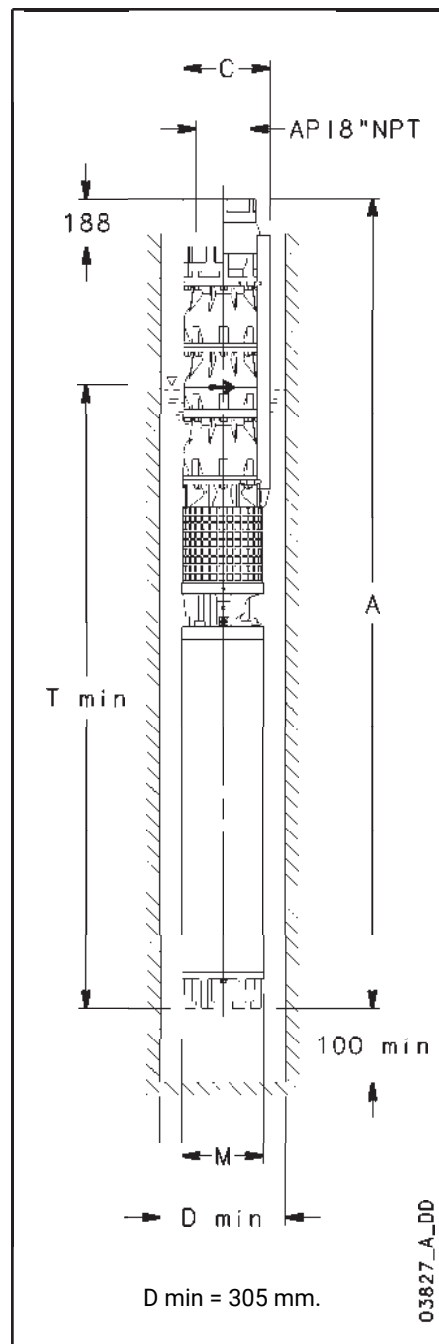
Pump performance at 2900 rpm

z12340-2p50-1-en_b_th

DIMENSIONS AND WEIGHTS

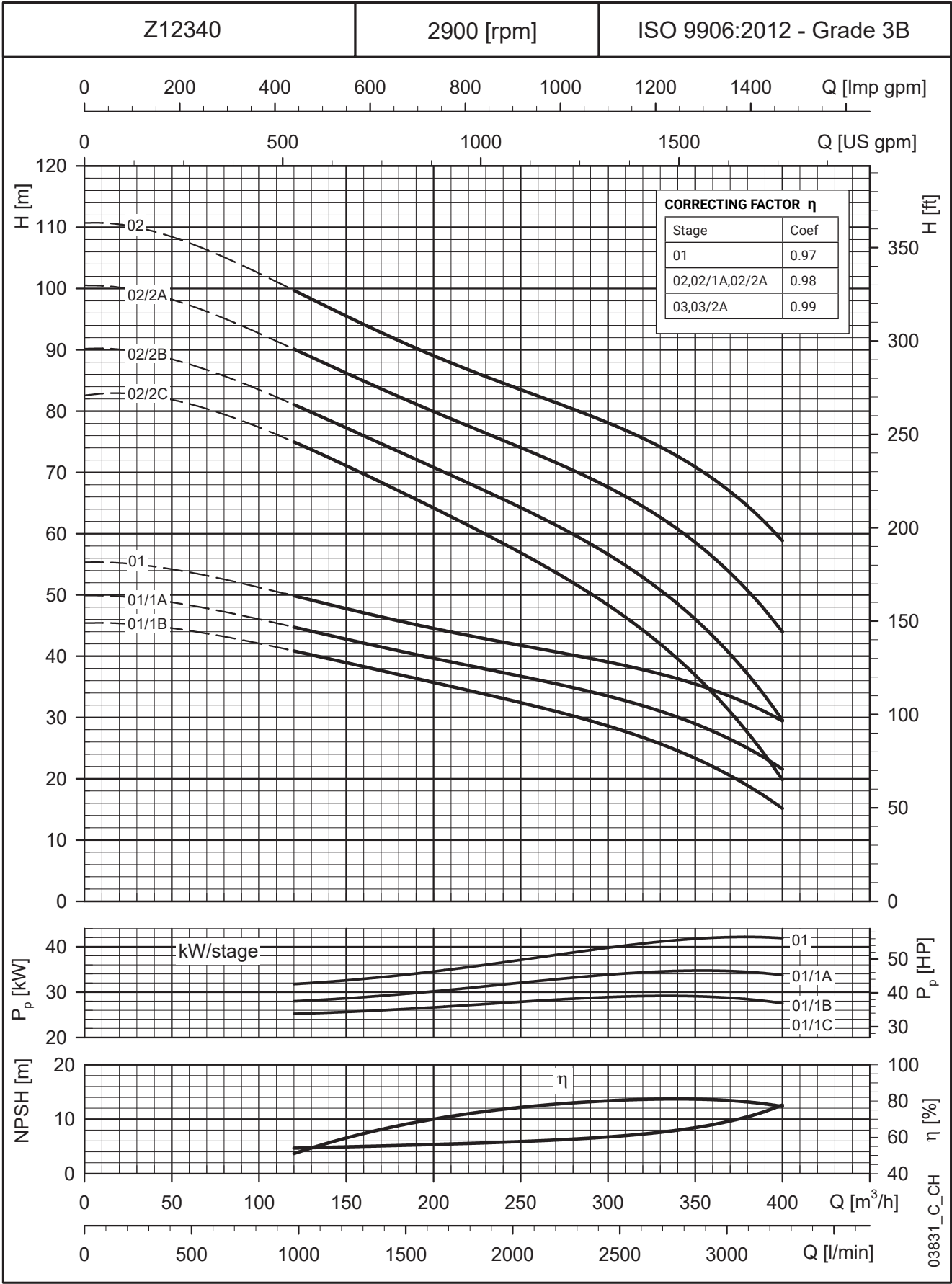
ELECTRIC PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
		A (4)	C (1)	M	T (2)	
	kW					kg (3)
Z12340 01/1B-L8W	30	1775	290	192	3875	217
Z12340 01/1A-L8W	37	1855	290	192	4355	234
Z12340 01-L8W	45	1935	290	192	4035	252
Z12340 02/2C-L8W	52	2200	290	192	4115	300
Z12340 02/2B-L8W	60	2280	290	192	4195	317
Z12340 02/2A-L8W	75	2440	290	192	4355	352
Z12340 02-L8W	93	2640	290	192	4555	390

z12340-2p50-1-en_c_td



- (1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 285 mm with L8W motor.
- (2) T min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
- (3) Without cables.
- (4) For pumps without non-return valve, reduce dimension A by 188 mm and reduce weight by 16,7 kg.

**Z12340: 1 TO 2 STAGES
OPERATING CHARACTERISTICS**



These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

Z12340: 3 TO 4 STAGES OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY						
		l/min 0	2000,0	2933,3	3866,7	4800,0	5733,3	6666,7
		m³/h 0	120	176	232	288	344	400
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z12340 03/2C	110	136,6	123,5	112,3	101,1	89,1	73,3	48,2
Z12340 03/3A	110	152,9	137,2	126,3	116,1	105,8	91,9	68,4
Z12340 03/1A	130	163,1	146,9	135,4	125,4	116,2	104,2	83,0
Z12340 03	150	168,9	152,4	140,7	130,7	121,7	110,6	91,4
Z12340 04/2B	150	204,3	184,1	169,1	155,2	141,2	122,9	92,3
Z12340 04/2A	185	214,1	192,7	177,5	164,1	151,5	134,8	105,8
Z12340 04	185	224,5	202,4	186,9	173,6	161,6	146,7	121,1

Pump performance at 2900 rpm

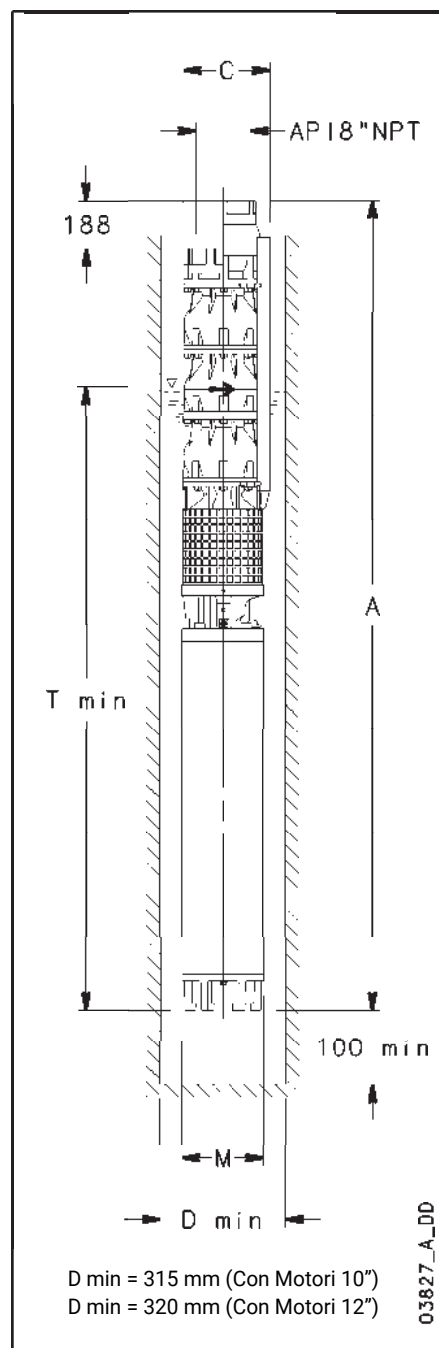
z12340-2p50-2-en_b_th

DIMENSIONS AND WEIGHTS

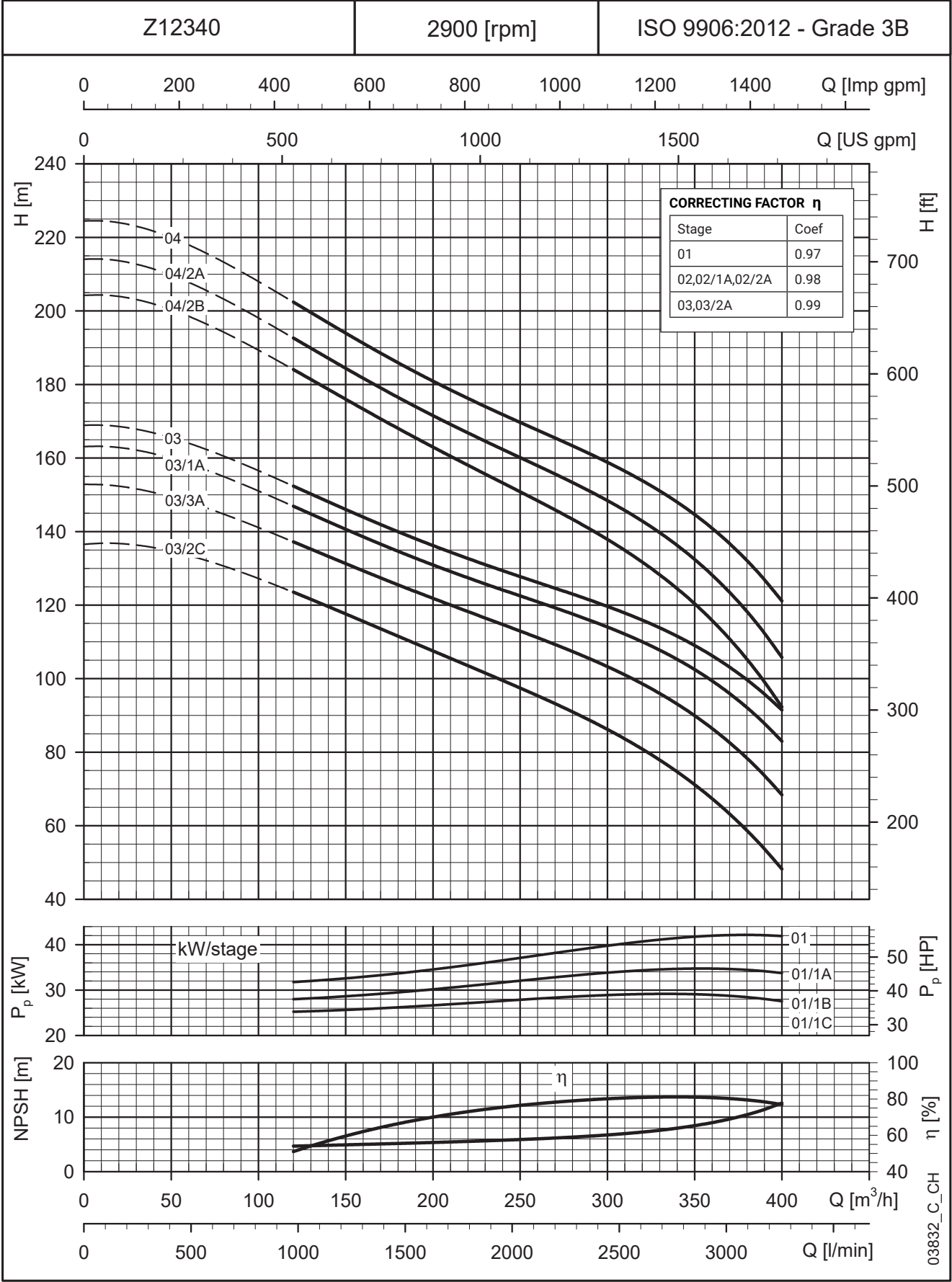
ELECTRIC PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)				WEIGHT kg (3)
		A (4)	C (1)	M	T (2)	
Z12340 03/2C-L10W	110	2984	302	236	4602	531
Z12340 03/3A-L10W	110	2984	302	236	4602	531
Z12340 03/1A-L10W	130	3134	302	236	4752	578
Z12340 03-L10W	150	3264	302	236	4882	617
Z12340 04/2B-L10W	150	3499	302	236	4882	644
Z12340 04/2A-L12W	185	3256	306	276	4639	710
Z12340 04-L12W	185	3256	306	276	4639	710

z12340-2p50-2-en_b_td

- (1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 293 mm with L10W motor.
C = 300 mm with L12W motor.
- (2) T min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
- (3) Without cables.
- (4) For pumps without non-return valve, reduce dimension A by 188 mm and reduce weight by 16,7 kg.



Z12340: 3 TO 4 STAGES
OPERATING CHARACTERISTICS



These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

Z12340: 5 TO 8 STAGES OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY						
		l/min 0	2000,0	2933,3	3866,7	4800,0	5733,3	6666,7
		m³/h 0	120	176	232	288	344	400
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z12340 05/2B	220	262,1	236,4	217,5	200,2	183,3	161,3	124,5
Z12340 05/2A	220	272,0	245,1	225,9	209,2	193,5	173,3	138,0
Z12340 05	220	282,5	254,9	235,5	218,7	203,6	185,1	153,5
Z12340 06/2B	260	318,6	287,4	264,6	243,9	224,0	198,4	155,1
Z12340 06/2A	260	328,5	296,0	272,9	252,9	234,3	210,4	168,5
Z12340 06	260	339,0	305,9	282,6	262,4	244,4	222,2	184,1
Z12340 07/3A	300	378,5	340,8	314,2	290,7	268,8	240,2	190,2
Z12340 07	300	395,5	356,9	329,7	306,1	285,1	259,2	214,8
Z12340 08/3A	350	436,3	393,1	362,4	335,6	310,7	278,5	222,2
Z12340 08	350	452,0	407,9	376,8	349,9	325,8	296,2	245,5

Pump performance at 2900 rpm

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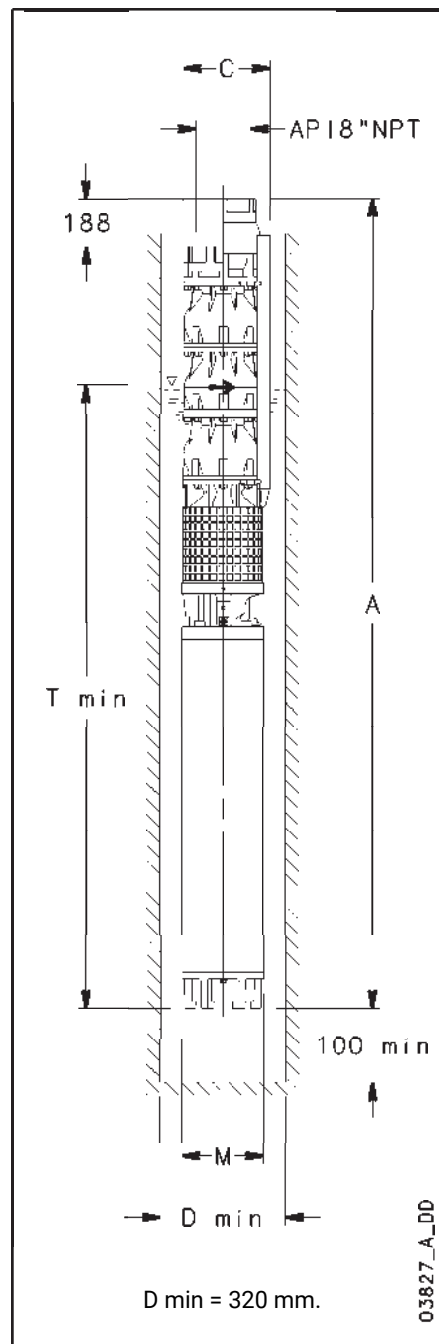
DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
		A (4)	C (1)	M	T (2)	
	kW					kg (3)
Z12340 05/2B-L12W	220	3641	306	276	4789	801
Z12340 05/2A-L12W	220	3641	306	276	4789	801
Z12340 05-L12W	220	3641	306	276	4789	801
Z12340 06/2B-L12W	260	4026	306	276	4939	893
Z12340 06/2A-L12W	260	4026	306	276	4939	893
Z12340 06-L12W	260	4026	306	276	4939	893
Z12340 07/3A-L12W	300	4411	306	276	5089	985
Z12340 07-L12W	300	4411	306	276	5089	985
Z12340 08/3A-**	350	-	-	-	-	-
Z12340 08-**	350	-	-	-	-	-

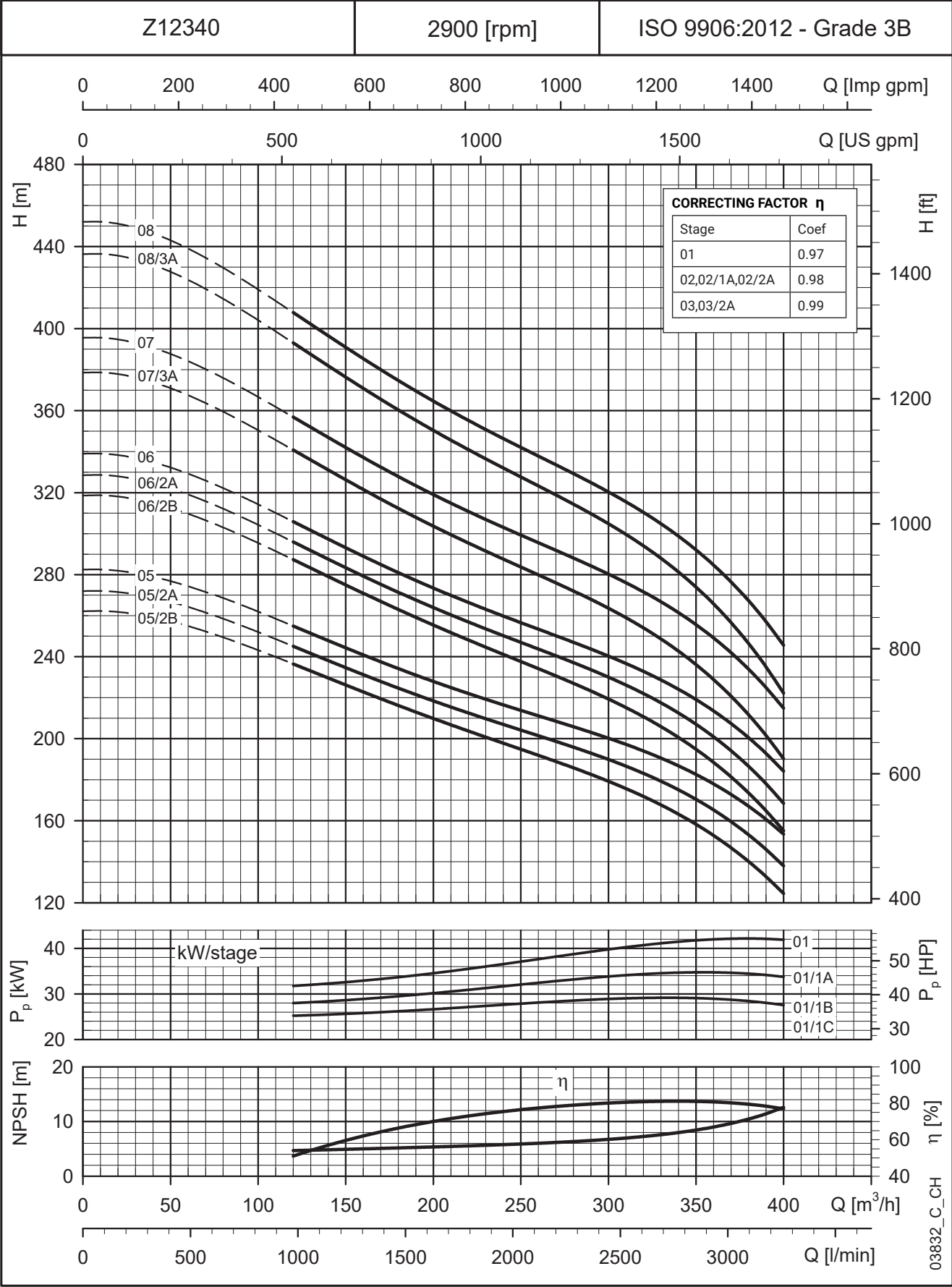
** For power above 350 kW please contact our sales network.

z12340-2p50-3-en_b_td

- (1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 300 mm with L12W motor.
- (2) T min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
- (3) Without cables.
- (4) For pumps without non-return valve, reduce dimension A by 188 mm and reduce weight by 16,7 kg.



Z12340: 5 TO 8 STAGES
OPERATING CHARACTERISTICS



These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

Z12420: 1 TO 2 STAGES OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY						
		l/min 0	2500,0	3733,3	4966,7	6200,0	7433,3	8666,7
		m³/h 0	150	224	298	372	446	520
	H = TOTAL HEAD METRES COLUMN OF WATER							
Z12420 01/1C	30	38,8	35,9	32,3	28,1	22,8	15,5	4,4
Z12420 01/1B	37	44,0	40,1	36,4	32,6	28,3	22,1	11,9
Z12420 01/1A	45	49,3	44,8	40,8	37,1	33,5	28,4	18,9
Z12420 01	52	52,1	47,5	43,3	39,7	36,4	31,7	22,8
Z12420 02/2C	60	77,0	71,2	64,1	55,6	45,1	30,4	8,1
Z12420 02/2B	75	88,7	80,8	73,4	65,7	57,1	44,9	24,5
Z12420 02/2A	93	99,3	90,2	82,2	74,9	67,6	57,4	38,6
Z12420 02	110	106,4	97,2	88,7	81,3	74,7	65,6	48,4

Pump performance at 2900 rpm

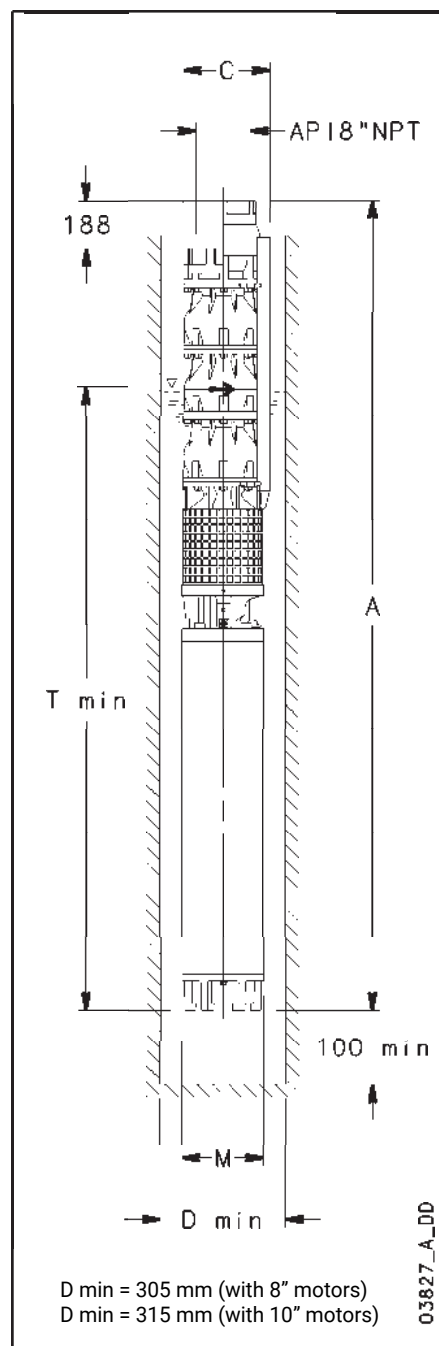
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DIMENSIONS AND WEIGHTS

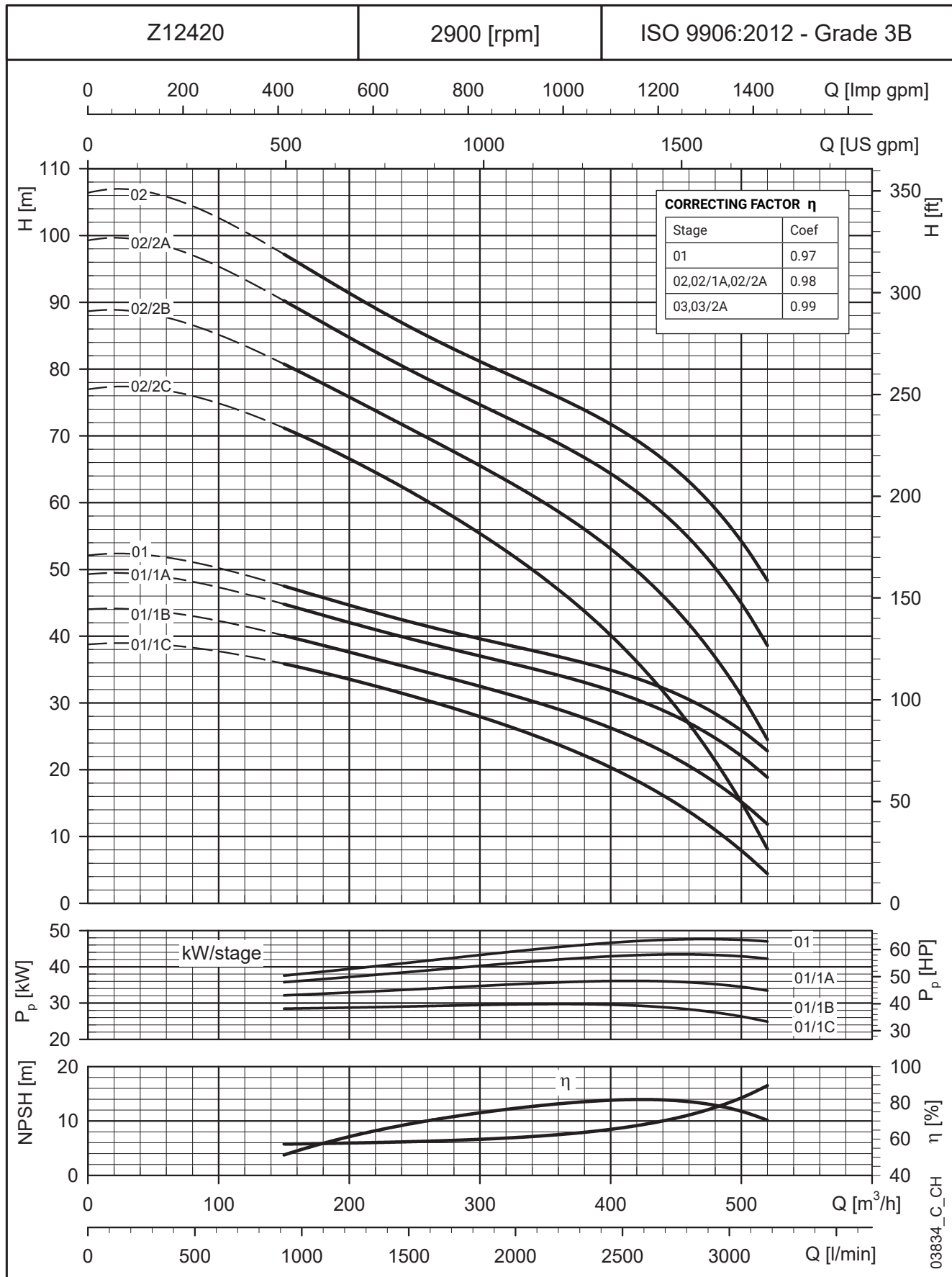
ELECTRIC PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
		A (4)	C (1)	M	T (2)	
	kW					kg (3)
Z12420 01/1C-L8W	30	1775	290	192	3875	217
Z12420 01/1B-L8W	37	1855	290	192	3955	234
Z12420 01/1A-L8W	45	1935	290	192	4035	252
Z12420 01-L8W	52	1965	290	192	4115	272
Z12420 02/2C-L8W	60	2280	290	192	4195	317
Z12420 02/2B-L8W	75	2440	290	192	4355	352
Z12420 02/2A-L8W	93	2640	290	192	4555	390
Z12420 02-L10W	110	2749	302	236	4602	504

z12420-2p50-1-en_c_td

- (1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 285 mm with L8W motor.
C = 293 mm with L10W motor.
- (2) T min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
- (3) Without cables.
- (4) For pumps without non-return valve, reduce dimension A by 188 mm and reduce weight by 16,7 kg.



Z12420: 1 TO 2 STAGES OPERATING CHARACTERISTICS



These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

Z12420: 3 TO 4 STAGES OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY						
		l/min 0	2500,0	3733,3	4966,7	6200,0	7433,3	8666,7
		m ³ /h 0	150	224	298	372	446	520
H = TOTAL HEAD METRES COLUMN OF WATER								
Z12420 03/2C	110	131,9	121,4	110,2	97,8	83,7	64,9	36,4
Z12420 03/2B	130	143,1	130,6	119,0	107,6	95,5	78,8	50,8
Z12420 03/3A	150	151,0	137,4	125,2	114,1	103,3	88,1	60,5
Z12420 03	150	159,6	145,8	133,0	122,0	112,0	98,4	72,5
Z12420 04/3B	185	188,1	171,6	156,3	141,0	124,6	101,9	63,8
Z12420 04/3A	185	204,2	186,0	169,5	154,8	140,6	120,9	84,6
Z12420 04	220	215,1	196,6	179,4	164,6	151,2	133,2	99,4

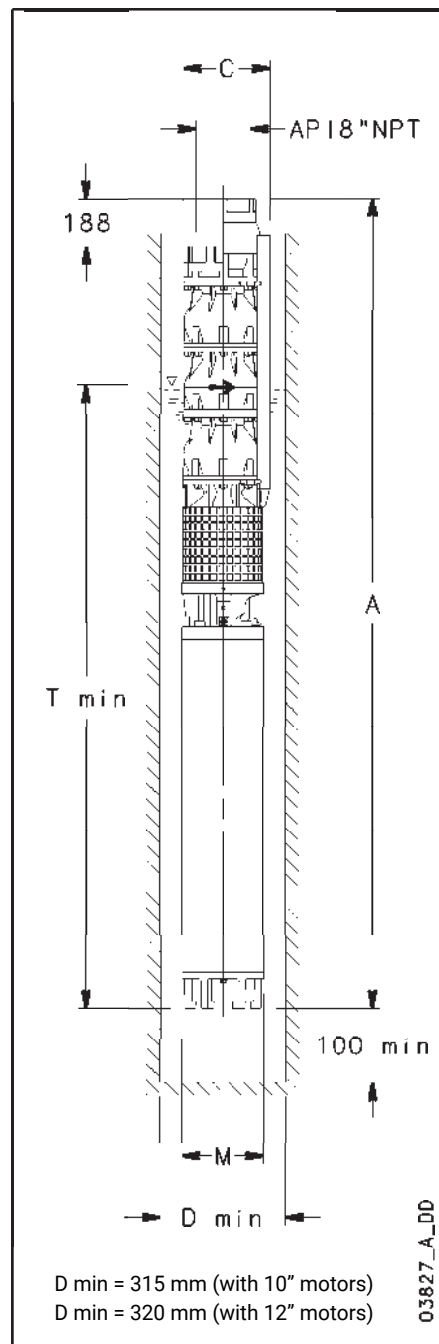
Pump performance at 2900 rpm

z12420-2p50-2-en_b_th

DIMENSIONS AND WEIGHTS

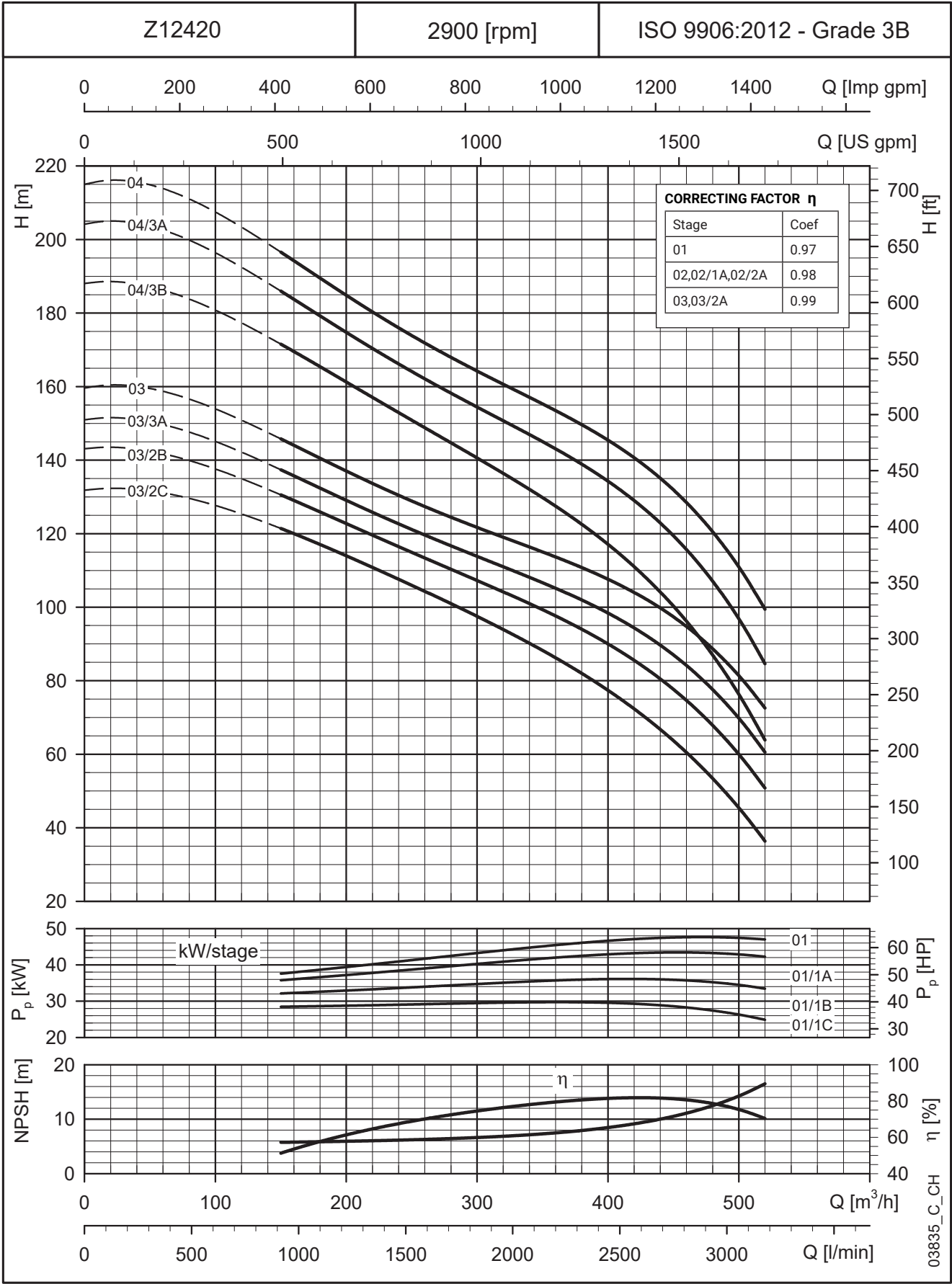
ELECTRIC PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
		A (4)	C (1)	M	T (2)	
	kW					kg (3)
Z12420 03/2C-L10W	110	2984	302	236	4602	531
Z12420 03/2B-L10W	130	3134	302	236	4752	577
Z12420 03/3A-L10W	150	3264	302	236	4882	617
Z12420 03-L10W	150	3264	302	236	4882	617
Z12420 04/3B-L12W	185	3256	306	276	4639	710
Z12420 04/3A-L12W	185	3256	306	276	4639	710
Z12420 04-L12W	220	3406	306	276	4789	774

z12420-2p50-2-en_b_td



- (1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 293 mm with L10W motor.
C = 300 mm with L12W motor.
- (2) T min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
- (3) Without cables.
- (4) For pumps without non-return valve, reduce dimension A by 188 mm and reduce weight by 16,7 kg.

**Z12420: 3 TO 4 STAGES
OPERATING CHARACTERISTICS**



These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

Z12420: 5 TO 7 STAGES OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY						
		l/min 0	2500,0	3733,3	4966,7	6200,0	7433,3	8666,7
		m ³ /h 0	150	224	298	372	446	520
H = TOTAL HEAD METRES COLUMN OF WATER								
Z12420 05/2B	260	251,3	229,5	209,5	190,5	171,5	145,9	102,2
Z12420 05	260	267,9	244,8	223,4	204,9	188,2	165,7	123,2
Z12420 06/2B	300	304,9	278,5	254,3	231,6	209,0	178,9	127,3
Z12420 06	300	320,4	292,7	267,1	245,0	224,9	197,8	146,4
Z12420 07/2B	350	358,5	327,4	299,0	272,6	246,6	212,0	152,4
Z12420 07	350	375,1	342,7	312,8	286,9	263,5	232,0	172,4

Pump performance at 2900 rpm

z12420-2p50-3-en_b_th

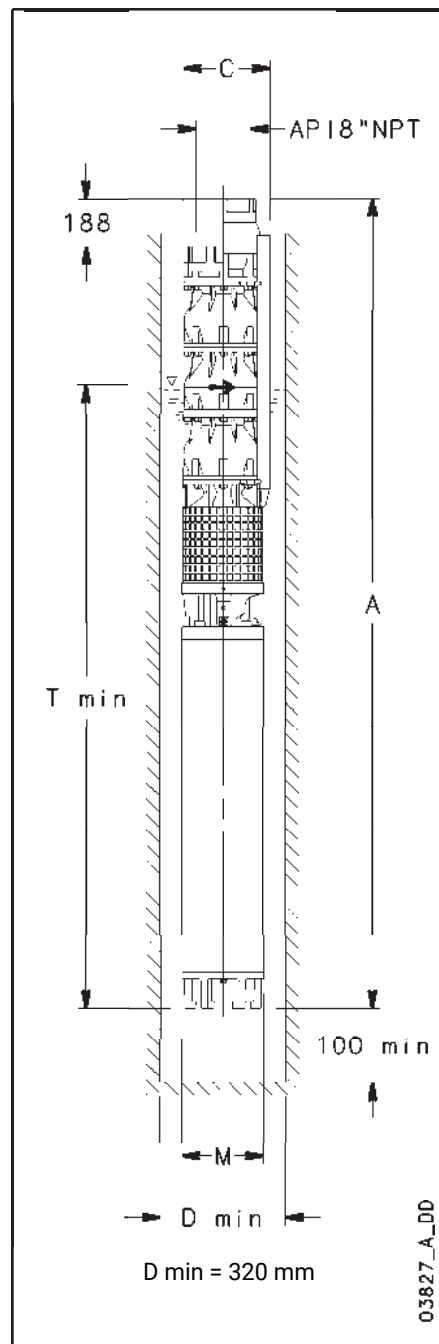
DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
		A (4)	C (1)	M	T (2)	
	kW					kg (3)
Z12420 05/2B-L12W	260	3791	306	276	4939	865
Z12420 05-L12W	260	3791	306	276	4939	865
Z12420 06/2B-L12W	300	4176	306	276	5089	958
Z12420 06-L12W	300	4176	306	276	5089	958
Z12420 07/2B-**	350	-	-	-	-	-
Z12420 07-**	350	-	-	-	-	-

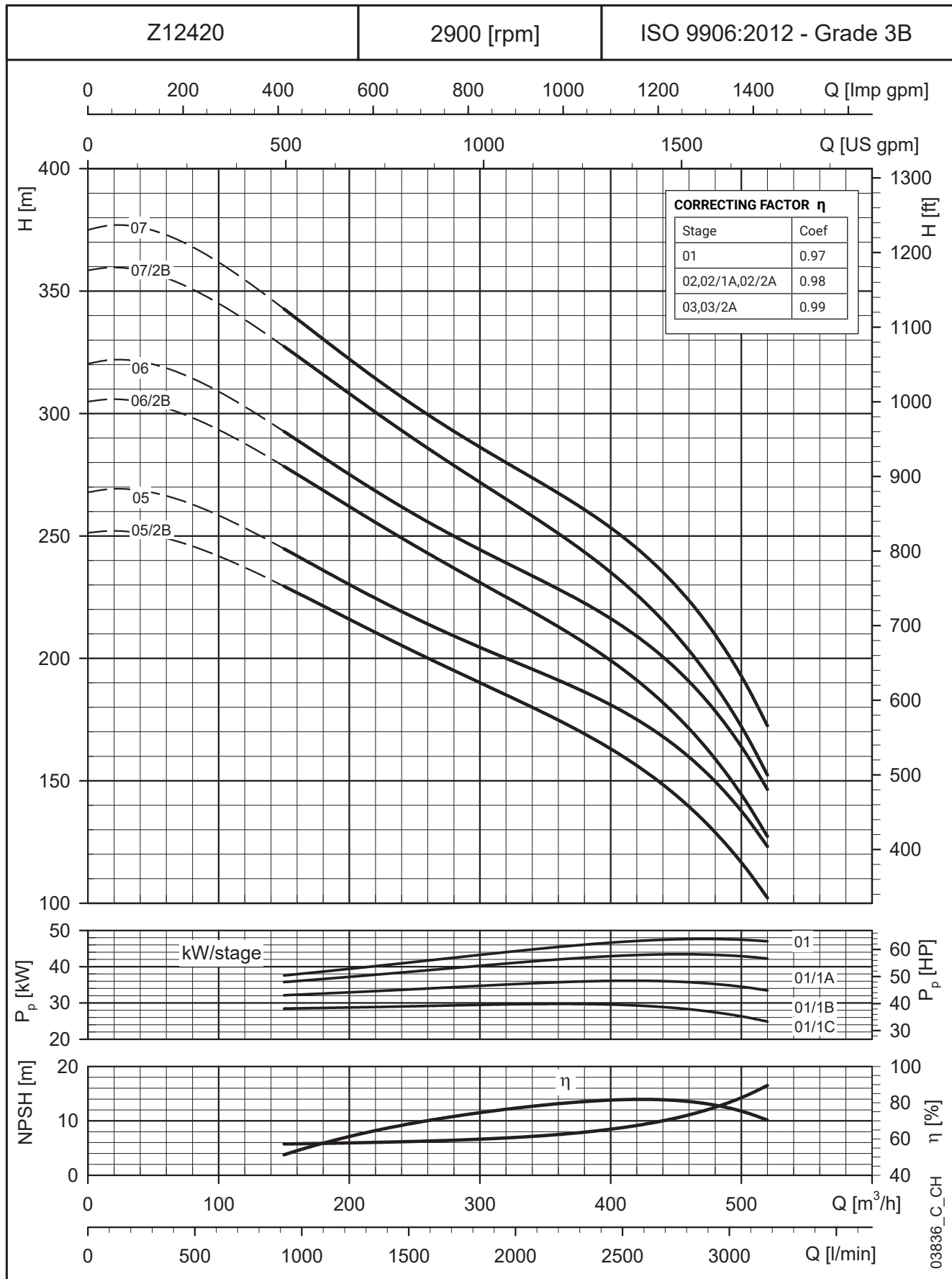
** For power above 350 kW please contact our sales network.

z12420-2p50-3-en_b_td

- (1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 300 mm with L12W motor.
- (2) T min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
- (3) Without cables.
- (4) For pumps without non-return valve, reduce dimension A by 188 mm and reduce weight by 16,7 kg.



Z12420: 5 TO 7 STAGES OPERATING CHARACTERISTICS



These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

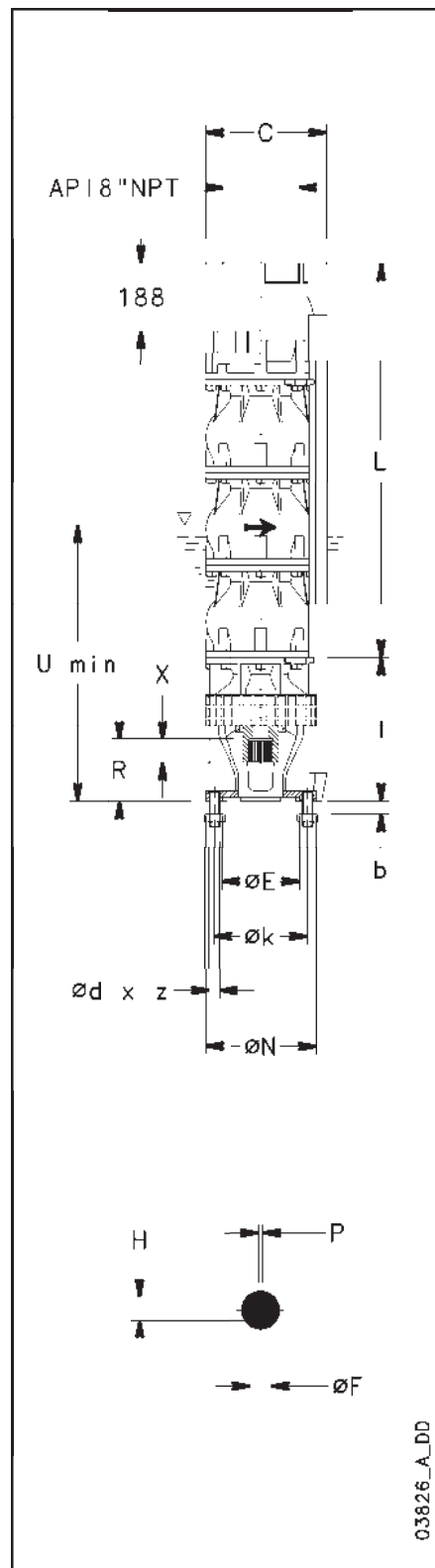
Z12340 SERIES PUMP DIMENSIONS AND WEIGHTS

PUMP TYPE	MAX POWER ABSORBED BY PUMP kW	DIMENSIONS (mm)			WEIGHT kg ⁽³⁾	Ø MIN. WELL mm
		L ⁽⁴⁾	C ⁽¹⁾	U ⁽²⁾		
Z12340 01/1B-8	29,2	510	290	2900	72	305
Z12340 01/1A-8	34,9	510	290	2900	72	305
Z12340 01-8	42,6	510	290	2900	72	305
Z12340 02/2C-8	50,5	745	290	2900	99,3	305
Z12340 02/2B-8	57,2	745	290	2900	99,3	305
Z12340 02/2A-8	70,5	745	290	2900	99,3	305
Z12340 02-8	84,2	745	290	2900	99,3	305
Z12340 03/2C-10	94,6	980	302	2900	129,4	315
Z12340 03/3A-10	109,1	980	302	2900	129,4	315
Z12340 03/1A-10	124,5	980	302	2900	129,4	315
Z12340 03-10	132,4	980	302	2900	129,4	315
Z12340 04/2B-10	147,4	1215	302	2900	156,7	315
Z12340 04/2A-12	159,6	1215	302	2900	157,5	320
Z12340 04-12	173,8	1215	302	2900	157,5	320
Z12340 05/2B-12	193,3	1450	302	2900	184,8	320
Z12340 05/2A-12	205,2	1450	302	2900	184,8	320
Z12340 05-12	219,5	1450	302	2900	184,8	320
Z12340 06/2B-12	235,2	1685	302	2900	212,1	320
Z12340 06/2A-12	246,5	1685	302	2900	212,1	320
Z12340 06-12	260,7	1685	302	2900	212,1	320
Z12340 07/3A-12	280,0	1920	302	2900	239,4	320
Z12340 07-12	301,0	1920	302	2900	239,4	320
Z12340 08/3A-12	333,1	2155	302	2900	266,7	320
Z12340 08-12	354,8	2155	302	2900	266,7	320

z12340p-50-en_b_td

- (1) Max pump diameter with 2 motor cables included.
(2) U min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
(3) Weight with non-return valve. For pumps without non-return valve, reduce by 16,7 kg.
(4) For pumps without non-return valve, reduce dimension L by 188 mm.

The dimensions in the table are valid for pumps up to 12" and power 300 kW. In other cases dimensions might differ.



MOTOR COUPLING

MOTOR CONNECTION	DIMENSIONS (mm)							
	N	k	d	z	b	E ^{H7}	R	I
8" (NEMA)	185	152,4	M16	4	20	127	101,45	240
10"	232	190,5	M20	4	22	127	101,45	300
12"	232	190,5	M20	4	23	127	126,85	300

COUPLING	DIMENSIONS (mm)			
	Profile of gear coupling according to NEMA			
	NUMBER OF TEETH	DIAMETRAL PITCH	PRESSURE ANGLE	X
8" (NEMA)	23	16/32	30°	38

COUPLING	DIMENSIONS (mm)			
	F	H	P	X
10"	42.85 ^{h6}	47,6	9,5	86
12"	49.212 ^{h6}	54,5	12,7	95

z12-mtcn-50-en_a_td

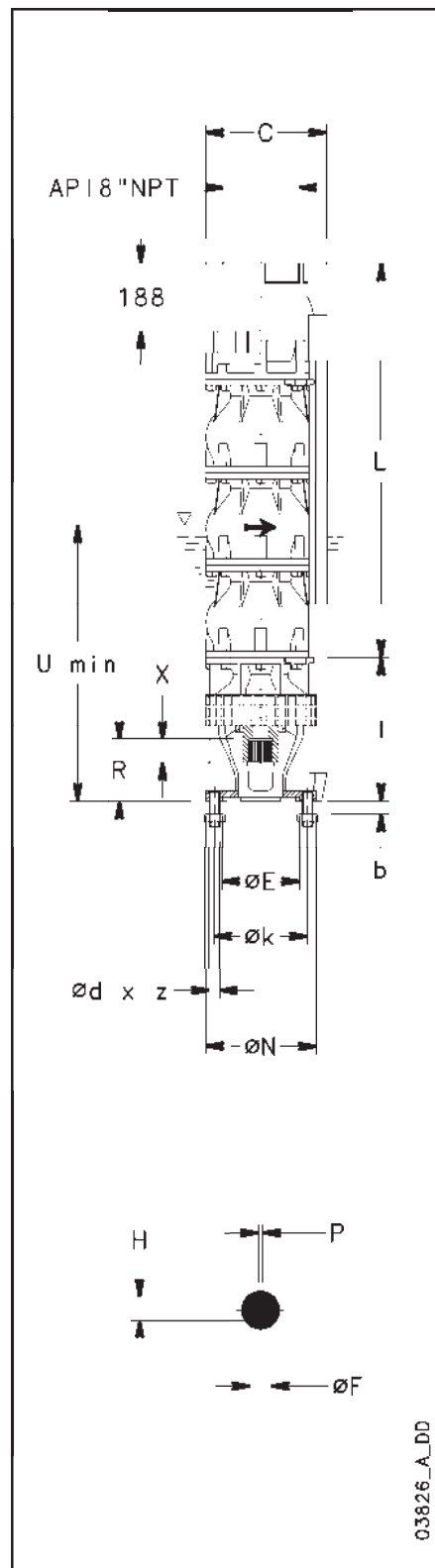
Z12420 SERIES PUMP DIMENSIONS AND WEIGHTS

PUMP TYPE	MAX POWER ABSORBED BY PUMP kW	DIMENSIONS (mm)			WEIGHT kg ⁽³⁾	Ø MIN. WELL mm
		L ⁽⁴⁾	C ⁽¹⁾	U ⁽²⁾		
Z12420 01/1C-8	29,7	510	290	2900	72	305
Z12420 01/1B-8	35,4	510	290	2900	72	305
Z12420 01/1A-8	43,1	510	290	2900	72	305
Z12420 01-8	47,0	510	290	2900	72	305
Z12420 02/2C-8	58,2	745	290	2900	99,3	305
Z12420 02/2B-8	71,5	745	290	2900	99,3	305
Z12420 02/2A-8	86,2	745	290	2900	99,3	305
Z12420 02-10	98,5	745	302	2900	102,1	315
Z12420 03/2C-10	109,6	980	302	2900	129,4	315
Z12420 03/2B-10	122,8	980	302	2900	129,4	315
Z12420 03/3A-10	134,1	980	302	2900	129,4	315
Z12420 03-10	147,8	980	302	2900	129,4	315
Z12420 04/3B-12	161,3	1215	302	2900	157,5	320
Z12420 04/3A-12	184,3	1215	302	2900	157,5	320
Z12420 04-12	200,1	1215	302	2900	157,5	320
Z12420 05/2B-12	223,1	1450	302	2900	184,8	320
Z12420 05-12	247,6	1450	302	2900	184,8	320
Z12420 06/2B-12	269,8	1685	302	2900	212,1	320
Z12420 06-12	291,0	1685	302	2900	212,1	320
Z12420 07/2B-12	325,4	1920	302	2900	239,4	320
Z12420 07-12	350,2	1920	302	2900	239,4	320

z12420p-50-en_b_td

- (1) Max pump diameter with 2 motor cables included.
(2) U min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
(3) Weight with non-return valve. For pumps without non-return valve, reduce by 16,7 kg.
(4) For pumps without non-return valve, reduce dimension L by 188 mm.

The dimensions in the table are valid for pumps up to 12" and power 300 kW. In other cases dimensions might differ.



MOTOR COUPLING

MOTOR CONNECTION	DIMENSIONS (mm)							
	N	k	d	z	b	E ^{H7}	R	I
8" (NEMA)	185	152,4	M16	4	20	127	101,45	240
10"	232	190,5	M20	4	22	127	101,45	300
12"	232	190,5	M20	4	23	127	126,85	300
COUPLING	DIMENSIONS (mm)				Profile of gear coupling according to NEMA			
	NUMBER OF TEETH	DIAMETRAL PITCH	PRESSURE ANGLE	X				
8" (NEMA)	23	16/32	30°	38				
COUPLING	DIMENSIONS (mm)							
	F	H	P	X				
10"	42.85 ^{h6}	47,6	9,5	86				
12"	49.212 ^{h6}	54,5	12,7	95				

z12-mtcn-50-en_a_td