

VERTICAL MULTI-STAGE RANGE

DL



DL VERTICAL

Multi-Stage Pump



Applications

Used for water supply: water filter and transport in water works, boosting of main pipeline, boosting in high-rise building.

For industrial boosting: process flow water system, cleaning system, high-pressure washing system, fire fighting system.

For industrial liquid conveying: cooling and air-condition system, feed water for boiler and condensing system, machine-associated purpose, acids and alkali.

For water treatment: ultra-filtration system, reverse osmosis system, distillation system, separator and swimming pools.

For irrigation: farmland irrigation, spray irrigation and dripping irrigation.

Operating conditions

Thin, clean, non-explosive liquid containing no solid granules or fibres.

Liquid temperature:

Normal type: -15 to +110 °C.

Motor

2-pole induction motor

Aluminium alloy motor case

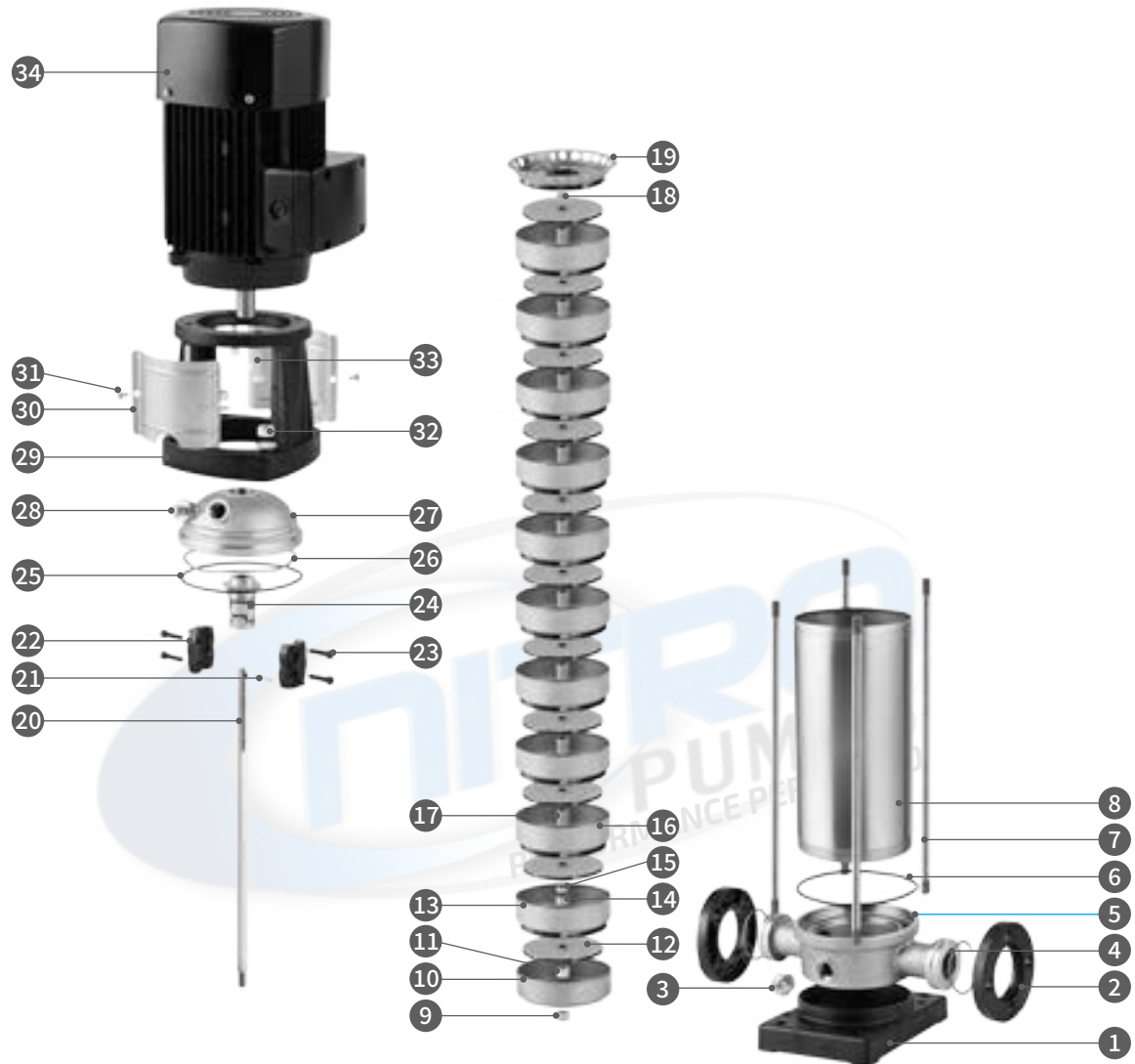
Insulation class F

Protection IP55

Continuous duty

Technical features

Performance Range Head:	up-to 250m
Flow:	1 - 90 m ³ /h
Power:	0.37 to 45 kW
Liquid Temperature Limits:	-15 to +110 °C
Working Pressure:	20-26 Bar



NO.	Description	NO.	Description	NO.	Description	NO.	Description
1	Base plate	10	Inducer	19	Top diffuser	28	Air valve
2	Flange	11	First impeller cover	20	Shaft	29	Motor bracket
3	Drainage nut	12	Impeller	21	Latch/Shaft pin	30	Coupling guard
4	Flange circlip	13	Support diffuser	22	Coupling	31	Screws
5	Inlet and outlet chamber	14	TC sleeve	23	Allen bolt	32	Hexagon nut
6	O ring	15	Impeller sleeve M	24	Mechanical seal	33	Hexagon screw
7	Stay bolt	16	Diffuser	25	O ring	34	Motor/E1/E2/E3
8	Cylinder	17	Impeller sleeve L	26	Corrugated spring		
9	Lock nut	18	Impeller sleeve S	27	Pump cover		

Model number descriptions - Nomenclature

DL32~DL90
DL 32 -50 -2

Minor diameter impeller number
Stage number x 10
Rated Flow :32 m³/h
Vertical multi-stage centrifugal pump

SYMBOLS

DL1 ~DL20
DL 12 -50

Stage number x 10
Rated Flow :12 m³/h
Vertical multi-stage centrifugal pump

Performance data

		RANGE										
		DL1	DL3	DL5	DL8	DL12	DL16	DL20	DL32	DL45	DL64	DL90
RATED FLOW	(m ³ /h)	1	3	5	8	12	16	20	32	45	64	90
FLOW LIMITATION	(m ³ /h)	0.6-2.0	1.2-4.0	3-8	5-12	7-16	8-22	10-28	16-40	25-55	30-80	50-120
MAX. OPERATING PRESSURE	(bar)	25	25	25	25	25	25	25	30	30	30	30
MOTOR POWER	(kW)	0.37 - 1.5	0.37 - 2.2	0.37 - 4	0.75 - 7.5	1.5 - 11	2.2 - 15	2.2 - 18.5	1.5 - 30	3.0 - 45	4.0 - 45	5.5 - 45
LIQUID TEMPERATURE	(°C)	-15 to +110										
MAXIMUM EFFICIENCY	(%)	48	57	62	69	63	69	70	76	78	76	75
NOMINAL DIAM. OF FLANGE		DN25 (1")	DN25 (1")	DN32 (1¼")	DN40 (1½")	DN40 (1½")	DN50 (2")	DN50 (2")	DN65 (2½")	DN80 (3")	DN80 (3")	DN100 (4")

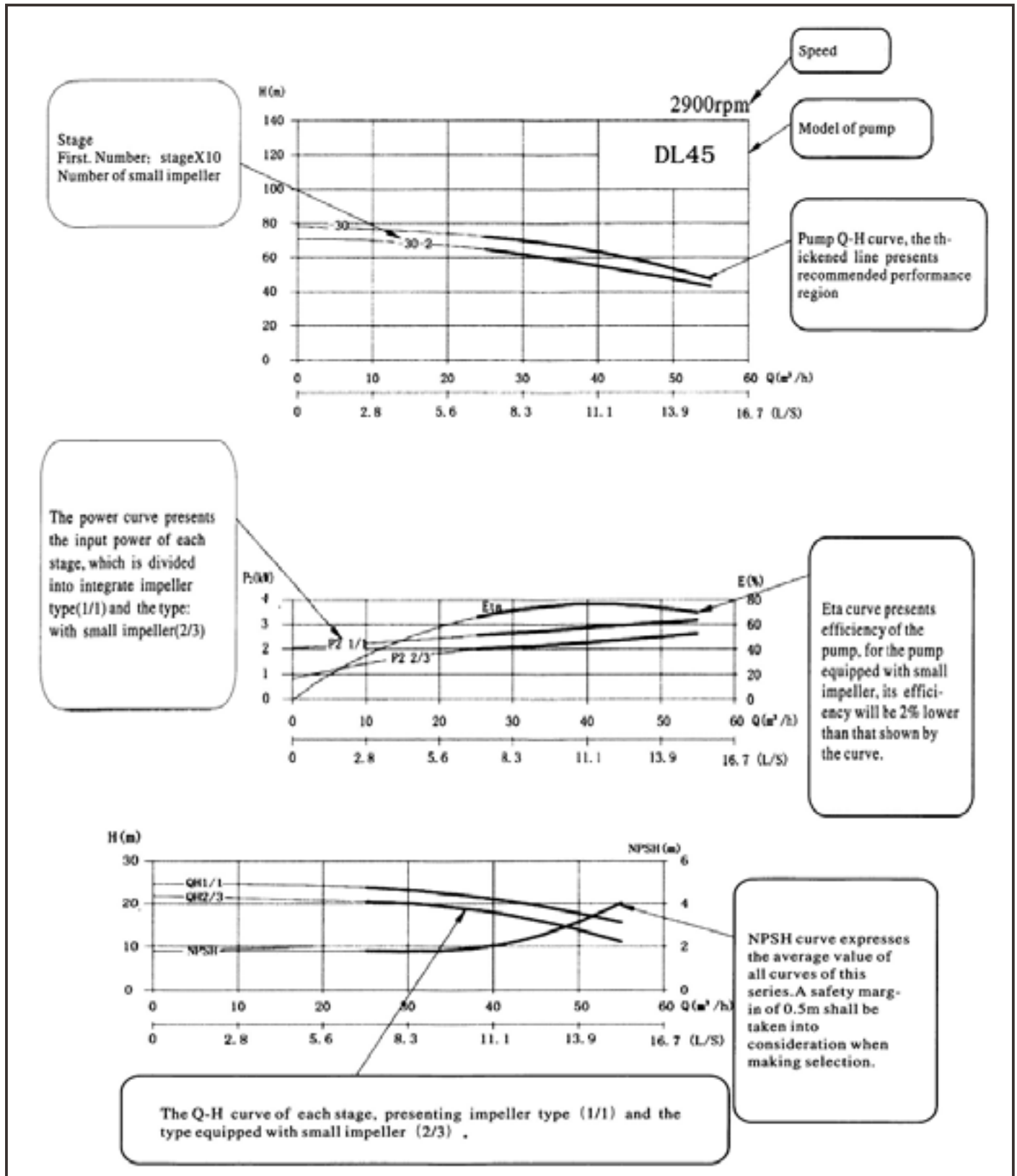
This data was obtained using a 2 pole, 50Hz standard motor at 2900rpm. Water temperature: 20°C. Performance limits are according to ISO 2548. Specification for standard class C pumps & GB3216-2005 specification for standard class 2 pumps.

To avoid overload and damage, the pump should be operated within these performance ranges.

PERFORMANCE CURVE



Descriptions - Explanations



This data was obtained at 2900rpm. Curve tolerance conforms with ISO9006. Water was air free, at 20°C, kinematic velocity of 1mm²/sec. The performance range is indicated by the thickened part on the curve. This performance range will prevent overloading and overheating.

SUCTION HEAD



Measurement

When the pump is operated under the following conditions, it is necessary to measure the suction pressure:

- High liquid temperature
- Actual capacity is clearly more than the rated capacity
- Suction head is too high
- Suction pipe is too long
- Bad suction conditions

If the pump suction pressure is lower than the steam pressure of the transported liquid, vapour may occur. To avoid this ensure that there is minimum pressure at the pump's suction end.

Maximum Suction Head can be calculated as follows:

$$H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$$

P_b Atmospheric pressure (bar). In a closed system, this represents system pressure.

NPSH Net Positive Suction Head (m). Refer to performance curve.

H_f Loss of suction pump (m)

H_v Vapour Pressure (m)

H_s Safety allowance (min. = 0.5m head)

If H is a positive value, the pump can be operated with the maximum suction head.

If H is a negative value, a minimum suction pressure (of positive "H"m head) is required.

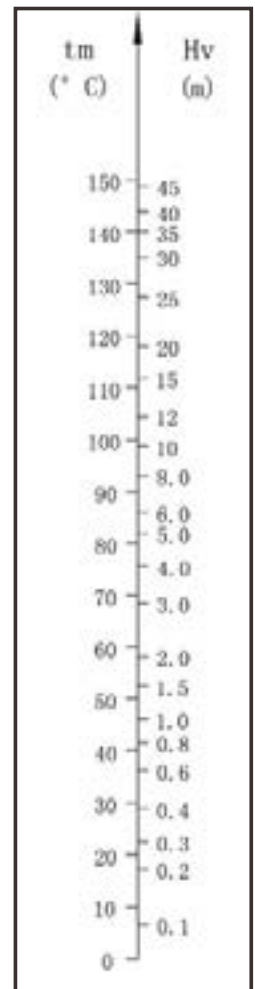
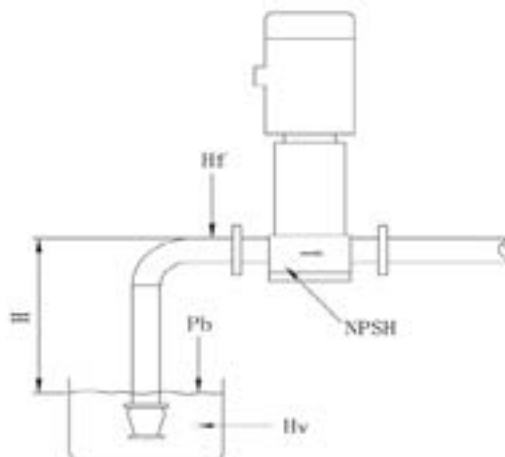
An example where fresh water is being transported:

- P_b : 1bar
- Pump model: DL3, 50Hz
- Flow: $Q=2m^3/h$
- NPSH: 1.5m (see pump's curve)
- H_f : 3m
- Liquid temperature: $80^\circ C$
- H_v : 4.8 (see figure alongside)

$$H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$$

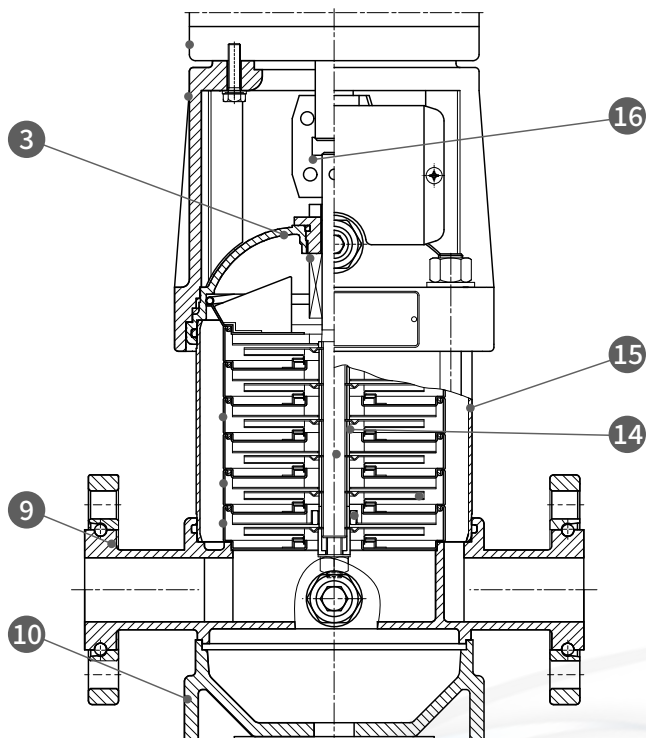
$$H = 1 \times 10.2 - 1.5 - 3 - 4.8 - 0.5 = 0.4m$$

This means that the pump can be operated at a maximum suction head of 0.4m.



SPARE PARTS

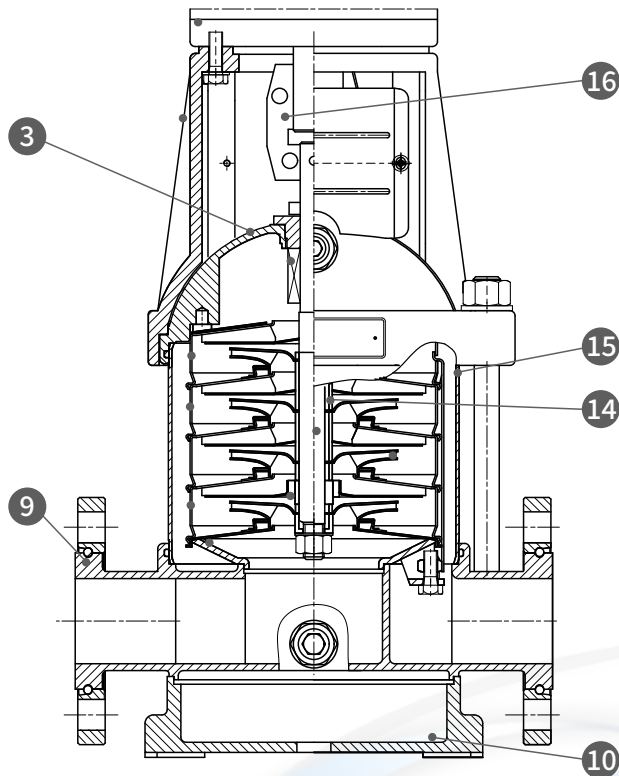
DL1-5



NO.	Name	Material	AISI/ASTM
14	Impeller sleeve	Stainless steel	AISI304
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel	
3	Seal base	Stainless steel	AISI304
9	Inlet and outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM25B

SPARE PARTS

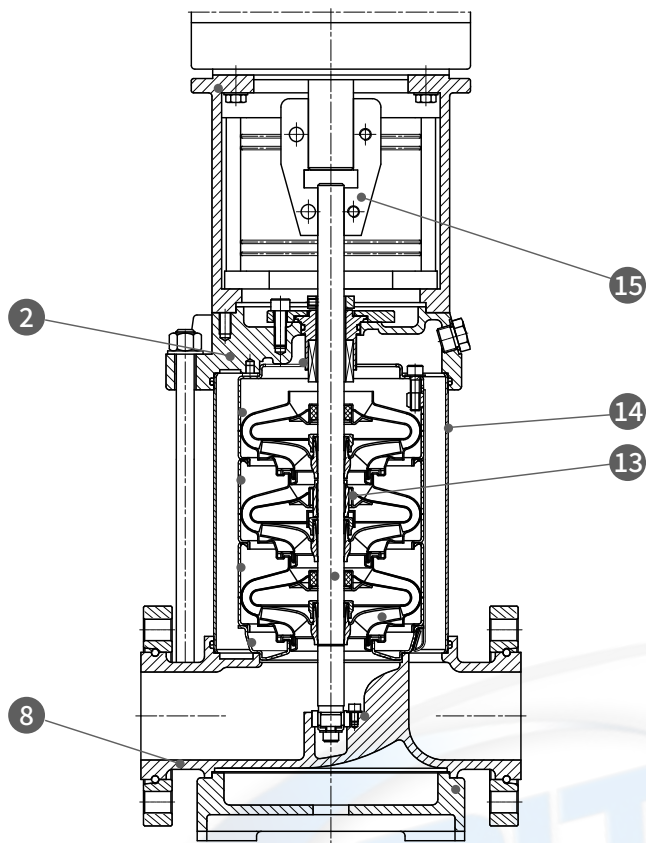
DL8-20



NO.	Name	Material	AISI/ASTM
14	Impeller sleeve	Stainless steel	AISI304
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel	
3	Seal base	Stainless steel	AISI304
9	Inlet and outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM25B

SPARE PARTS

DL32-90

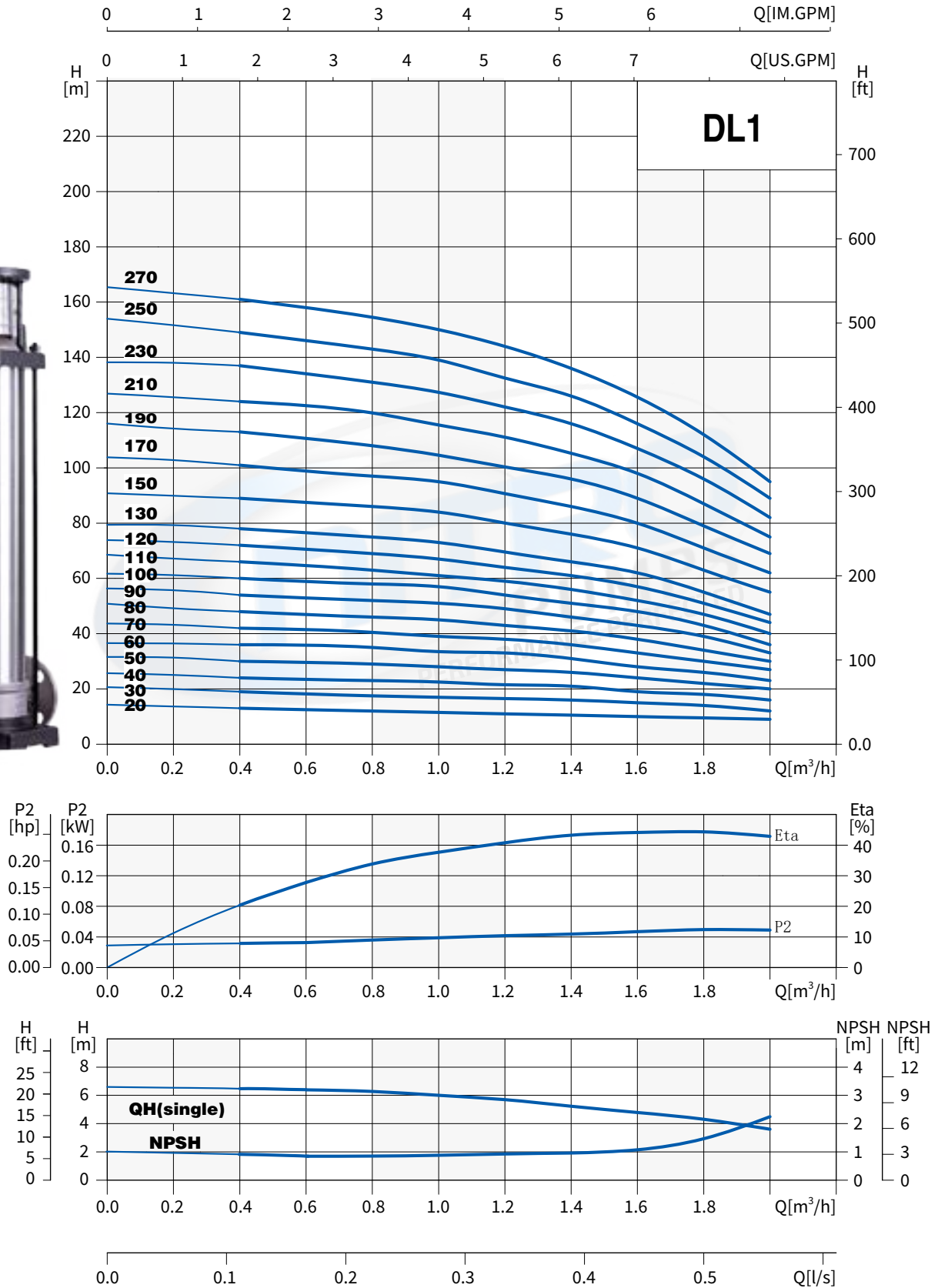


NO.	Name	Material	AISI/ASTM
13	Intermediate bearing	Tungsten carbide	
14	Cylinder	Stainless steel	AISI304
15	Coupling	Carbon steel	
Rubber parts		NBR	
2	Pump head	Stainless steel	AISI304
8	Inlet and outlet chamber	Stainless steel	AISI304

PERFORMANCE CURVES



DL1



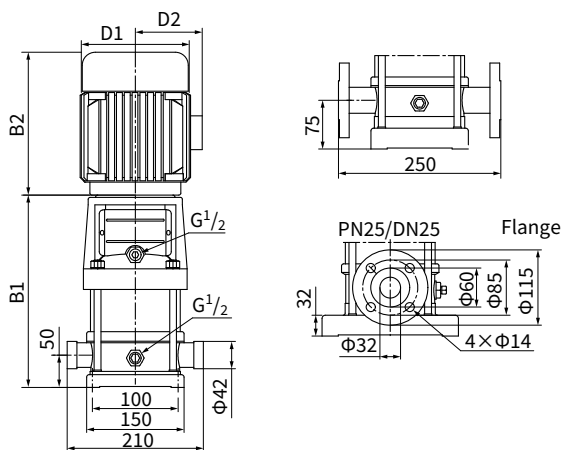
PERFORMANCE TABLE

DL1



Model	Driving motor		Q (m ³ /h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
	kW	HP										
DL1-20	0.37	0.5	H (m)	13	12.5	12	11.5	11	10.5	10	9.5	9
DL1-30	0.37	0.5		19	18	17.5	17	16.5	16	15	14	12
DL1-40	0.37	0.5		24	23.5	23	22.5	21.5	21	19	18	16
DL1-50	0.37	0.5		30	29.6	29	28	27	26	24	22	20
DL1-60	0.37	0.5		36	35.5	35	33.5	33	31	28	26	23
DL1-70	0.37	0.5		42	41	40.5	39	38	36	33	30	27
DL1-80	0.55	0.75		48	47	46	45	43	41	38	34	30
DL1-90	0.55	0.75		54	53	52	51	49	46	43	39	33
DL1-100	0.55	0.75		60	59	58	57	54	51	48	43	36
DL1-110	0.55	0.75		66	65	63	61	59	56	52	47	40
DL1-120	0.75	1		72	71	69	67	64	61	57	51	44
DL1-130	0.75	1		78	77	75	73	69	66	62	55	47
DL1-150	0.75	1		89	88	86	84	79	76	71	63	55
DL1-170	1.1	1.5		101	99	97	95	89	86	80	71	62
DL1-190	1.1	1.5		113	110	108	106	99	96	89	79	69
DL1-210	1.1	1.5		124	122	120	117	110	106	98	87	75
DL1-230	1.1	1.5		137	133	131	128	121	116	107	96	82
DL1-250	1.5	2		149	145	143	139	131	126	116	104	89
DL1-270	1.5	2		161	157	155	150	141	136	125	112	95

Installation Sketch



Size & Weight

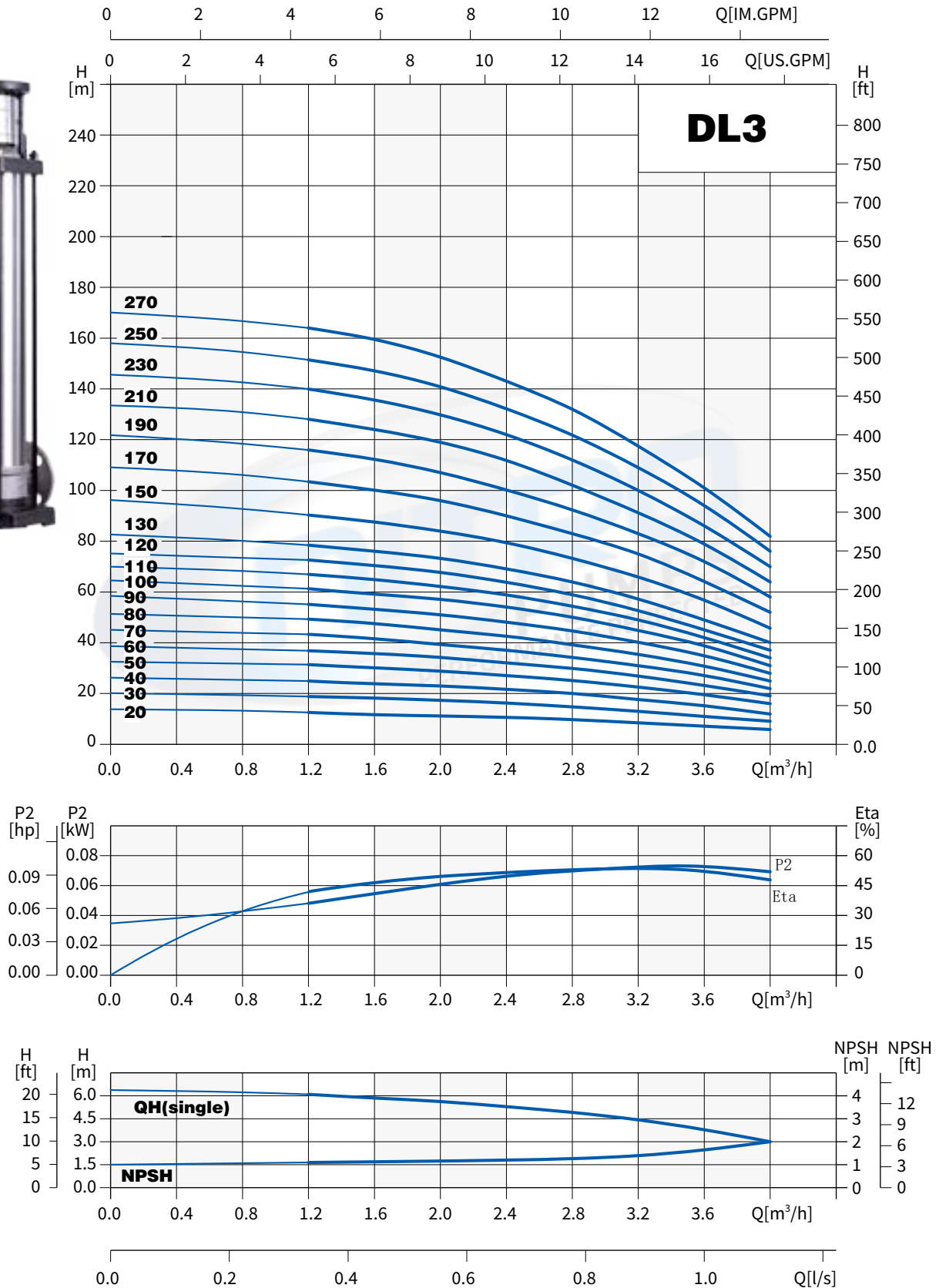
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL1-20	258	210	468	148	117	20
DL1-30	276	210	486	148	117	20
DL1-40	294	210	504	148	117	21
DL1-50	312	210	522	148	117	21
DL1-60	330	210	540	148	117	22
DL1-70	348	210	558	148	117	23
DL1-80	366	210	576	148	117	24
DL1-90	384	210	594	148	117	25
DL1-100	402	210	612	148	117	26
DL1-110	420	210	630	148	117	26
DL1-120	448	245	693	170	142	29
DL1-130	466	245	711	170	142	30
DL1-150	502	245	747	170	142	31
DL1-170	538	245	783	170	142	33
DL1-190	574	245	819	170	142	34
DL1-210	610	245	855	170	142	35
DL1-230	646	245	891	170	142	36
DL1-250	692	290	982	190	155	42
DL1-270	728	290	1018	190	155	43

The overall dimensions of the single-phase motor and explosion-proof motor are different. Please contact us for details.

PERFORMANCE CURVES



DL3



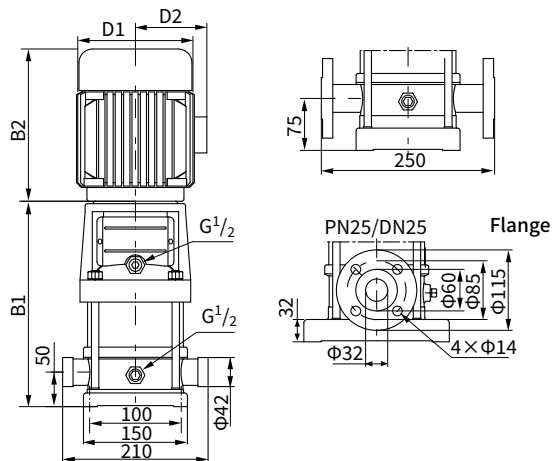
PERFORMANCE TABLE

DL3



Model	Driving motor		Q (m ³ /h)	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
	kW	HP										
DL3-20	0.37	0.5	H (m)	12.5	11.5	11	10.5	10	9	8	7	6
DL3-30	0.37	0.5		19	18.5	17.5	16.5	15	14	13	11	9
DL3-40	0.37	0.5		25	24	23	21.5	20	19	18	15	12
DL3-50	0.37	0.5		31	30	29	27	25	23	22	19	16
DL3-60	0.55	0.75		36	35	34	32	30	28	27	23	19
DL3-70	0.55	0.75		43	41	39	37	34	32	31	27	22
DL3-80	0.75	1		49	47	45	43	39	37	35	31	25
DL3-90	0.75	1		55	53	51	48	45	42	40	35	28
DL3-100	0.75	1		61	59	57	54	50	47	45	39	31
DL3-110	1.1	1.5		67	64	61	58	54	51	49	42	34
DL3-120	1.1	1.5		73	70	67	63	58	55	52	45	37
DL3-130	1.1	1.5		78	76	73	69	64	60	57	49	40
DL3-150	1.1	1.5		90	88	84	79	73	69	66	57	46
DL3-170	1.5	2		103	100	96	90	83	79	75	64	52
DL3-190	1.5	2		115	112	107	100	92	88	83	72	58
DL3-210	2.2	3		128	124	119	112	102	98	91	79	64
DL3-230	2.2	3		140	135	130	122	112	107	100	86	70
DL3-250	2.2	3		151	147	141	131	122	116	109	94	76
DL3-270	2.2	3		164	159	152	143	132	124	117	101	82

Installation Sketch



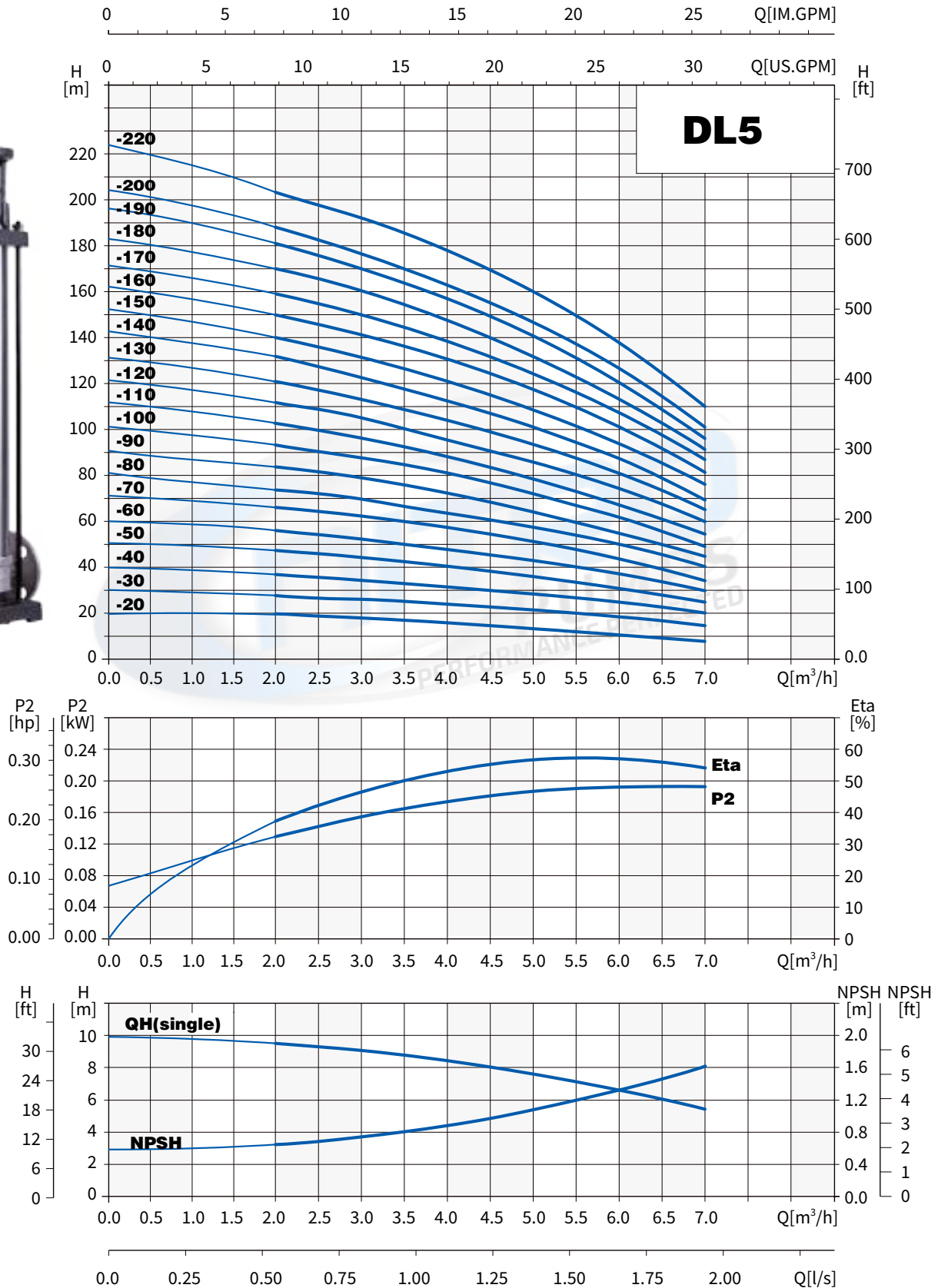
Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL3-20	258	210	468	148	117	20
DL3-30	276	210	486	148	117	20
DL3-40	294	210	504	148	117	21
DL3-50	312	210	522	148	117	21
DL3-60	330	210	540	148	117	23
DL3-70	348	210	558	148	117	24
DL3-80	376	245	621	170	142	27
DL3-90	394	245	639	170	142	28
DL3-100	412	245	657	170	142	28
DL3-110	430	245	675	170	142	29
DL3-120	448	245	693	170	142	30
DL3-130	466	245	711	170	142	31
DL3-150	502	245	747	170	142	32
DL3-170	548	290	838	190	155	38
DL3-190	584	290	874	190	155	39
DL3-210	620	290	910	190	155	42
DL3-230	656	290	946	190	155	43
DL3-250	692	290	982	190	155	44
DL3-270	728	290	1018	190	155	45

The overall dimensions of the single-phase motor and explosion-proof motor are different. Please contact us for details.

PERFORMANCE CURVES

DL5



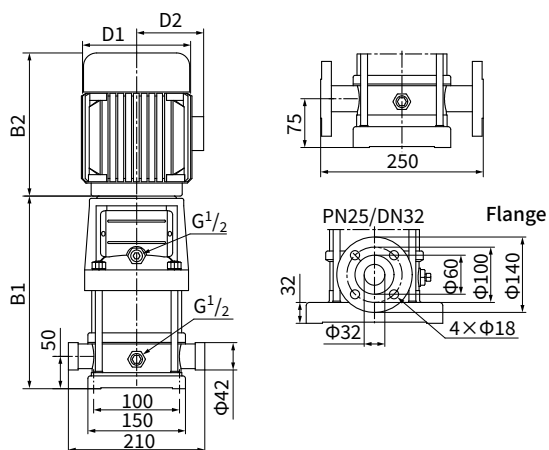
PERFORMANCE TABLE

DL5



Model	Driving motor		Q (m ³ /h)	1.5	2.0	3.0	4.0	5.0	6.0	7.0
	kW	HP								
DL5-20	0.37	0.5	H (m)	19	18	17	15	13	10	8
DL5-30	0.55	0.75		28	27	26	24	20	18	13
DL5-40	0.75	1		38	36	34	32	27	24	19
DL5-50	1.1	1.5		47	45	43	40	34	31	23
DL5-60	1.1	1.5		56	54	52	48	41	37	28
DL5-70	1.5	2		66	63	61	56	48	43	33
DL5-80	1.5	2		74	72	70	64	55	50	38
DL5-90	2.2	3		85	84	79	72	64	55	45
DL5-100	2.2	3		96	90	87	81	71	62	48
DL5-110	2.2	3		105	102	96	88	78	67	54
DL5-120	2.2	3		114	108	104	95	85	75	58
DL5-130	3.0	4		124	121	113	104	93	81	65
DL5-140	3.0	4		136	126	122	112	101	89	68
DL5-150	3.0	4		143	140	131	121	108	94	76
DL5-160	3.0	4		152	144	140	129	115	101	78
DL5-180	4.0	5.5		173	170	160	147	131	113	91
DL5-200	4.0	5.5		193	188	176	163	146	126	101
DL5-220	4.0	5.5		211	200	192	178	160	138	108

Installation Sketch



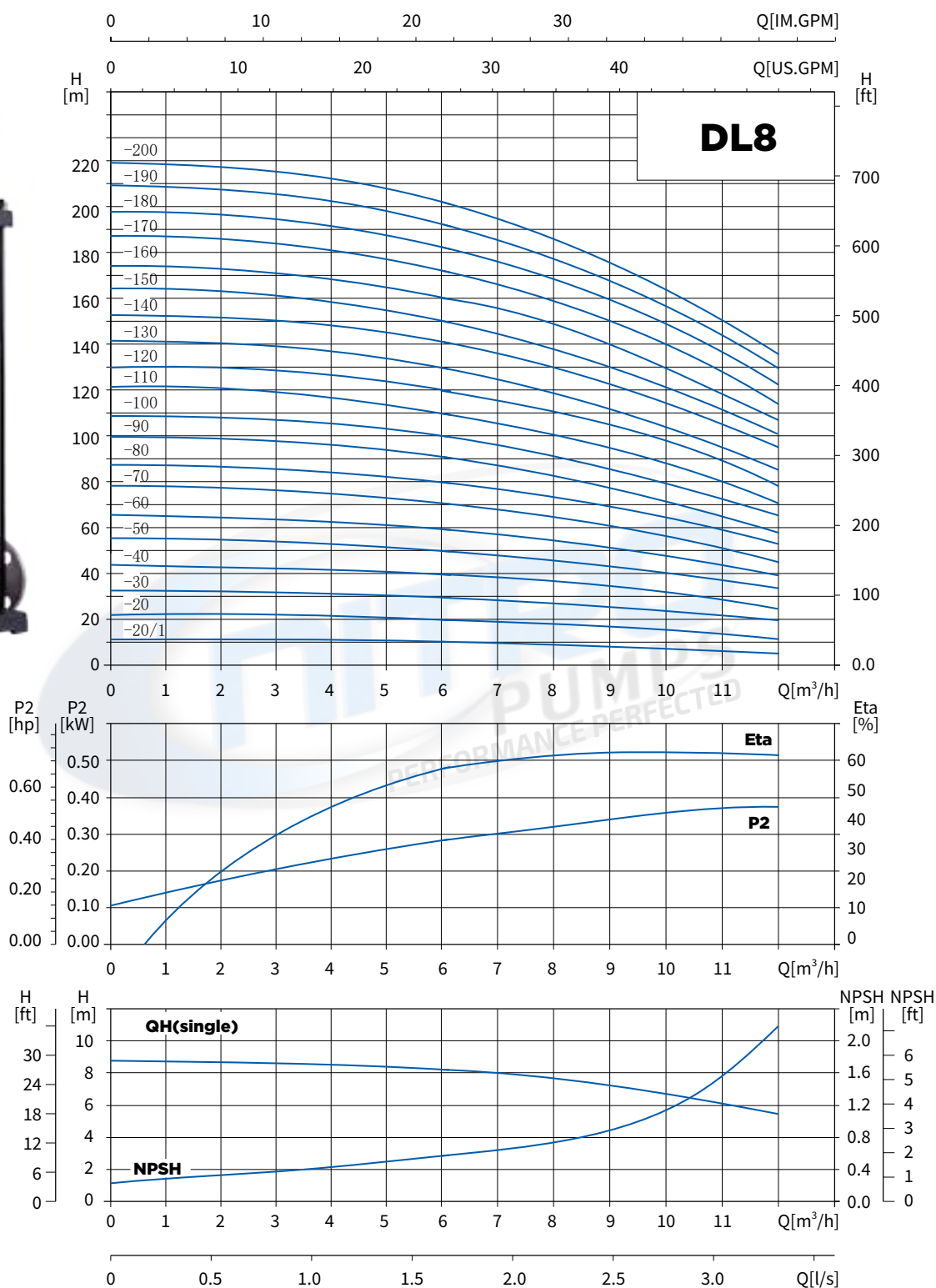
Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL5-20	276	210	486	148	117	21
DL5-30	303	210	513	148	117	22
DL5-40	340	245	585	170	142	25
DL5-50	367	245	612	170	142	27
DL5-60	394	245	639	170	142	27
DL5-70	431	290	721	190	155	33
DL5-80	458	290	748	190	155	33
DL5-90	485	290	775	190	155	37
DL5-100	512	290	802	190	155	37
DL5-110	539	290	829	190	155	38
DL5-120	566	290	856	190	155	38
DL5-130	603	315	918	197	165	45
DL5-140	630	315	945	197	165	46
DL5-150	657	315	972	197	165	47
DL5-160	684	315	999	197	165	48
DL5-180	711	335	1046	230	188	56
DL5-190	765	335	1100	230	188	57
DL5-200	792	335	1127	230	188	58
DL5-220	846	335	1181	230	188	59

The overall dimensions of the single-phase motor and explosion-proof motor are different. Please contact us for details.

PERFORMANCE CURVES

DL8



PERFORMANCE TABLE

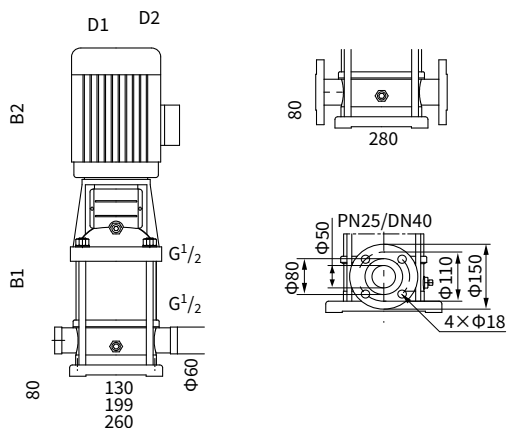
DL8



Model	Driving motor		Q (m³/h)	5	6	7	8	9	10	11	12
	kW	HP									
DL 8-20/1	0.75	1	H (m)	10	9.5	9.3	9	8.5	8	7	6
DL 8-20	0.75	1		20	19.5	19	18	17	16	14	13
DL 8-30	1.1	1.5		30	29.5	28.5	27	25	24	21	19
DL 8-40	1.5	2		41	39.5	38	36	34	32	28	26
DL 8-50	2.2	3		52	50	48	45	42	40	36	32
DL 8-60	2.2	3		62	60	57	54	51	48	43	39
DL 8-80	3.0	4		83	80	77	73	69	65	58	52
DL 8-100	4.0	5.5		104	100	97	92	87	81	73	65
DL 8-110	4.0	5.5		113	110	107	102	96	89	80	73
DL 8-120	4.0	5.5		124	120	116	111	104	92	87	78
DL 8-130	5.5	7.5		134	130.5	126	121	113	105	95	86
DL 8-140	5.5	7.5		145	141	136	130	122	113	102	92
DL 8-150	5.5	7.5		154.5	150	145.5	140	131	121.5	110	99
DL 8-160	5.5	7.5		166	161	156	148	139	130	118	106
DL 8-170	7.5	10		175	170	165	158	148	138	124	112
DL 8-180	7.5	10		187	182	175	167	157	146	134	120
DL 8-190	7.5	10		196	191	184	177	165	154	139	126
DL 8-200	7.5	10		208	202	195	186	175	163	150	135

Installation Sketch

Size & Weight

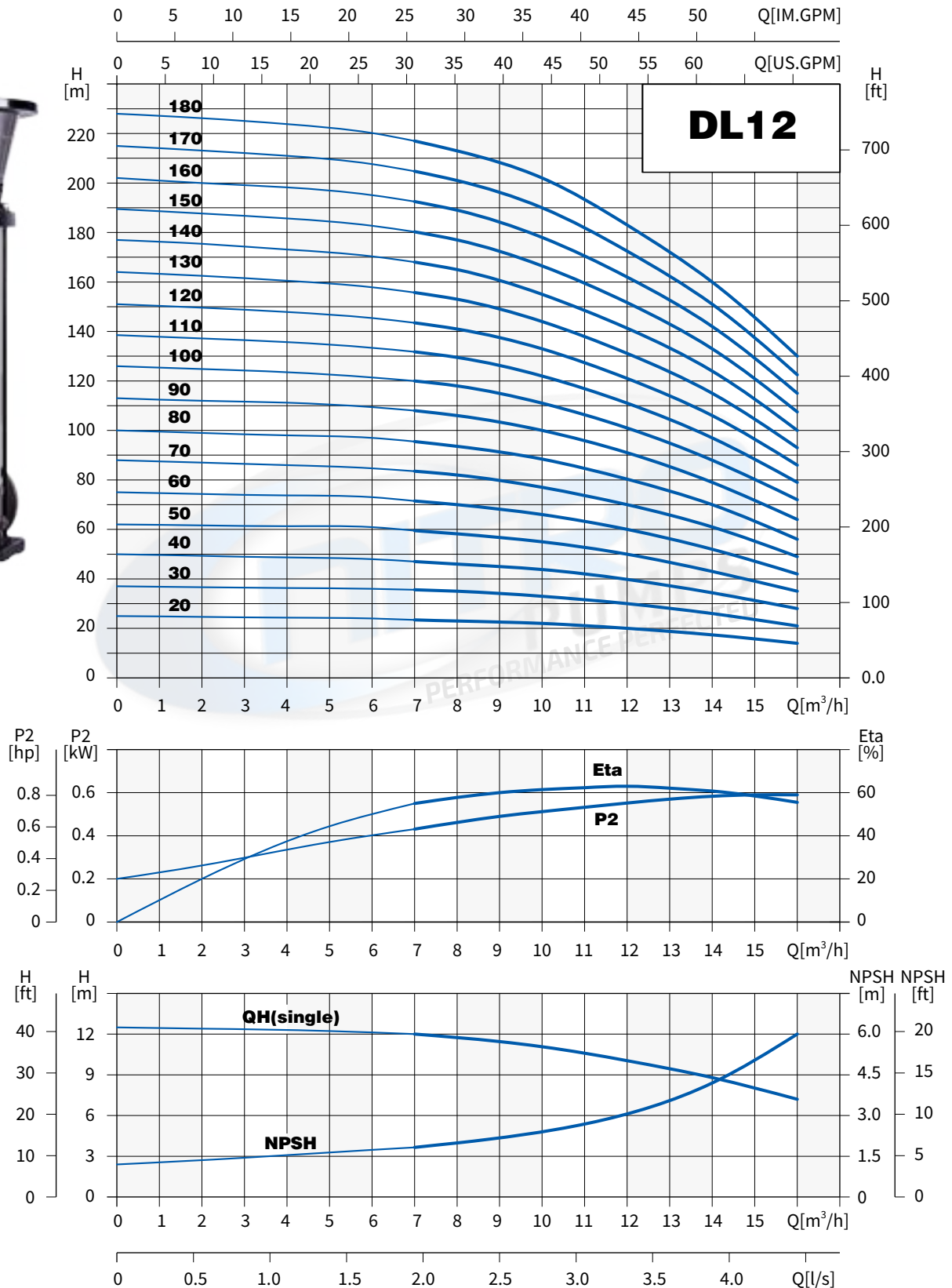


Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL 8-20/1	347	245	592	170	142	32
DL 8-20	347	245	592	170	142	32
DL 8-30	377	245	622	170	142	34
DL 8-40	417	290	707	190	155	40
DL 8-50	447	290	737	190	155	44
DL 8-60	477	290	767	190	155	45
DL 8-80	547	315	862	197	165	53
DL 8-100	607	335	942	230	188	64
DL 8-120	667	335	1002	230	188	66
DL 8-140	747	430	1177	260	208	81
DL 8-160	807	430	1237	260	208	84
DL 8-180	867	430	1297	260	208	93
DL 8-200	927	430	1357	260	208	94

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

PERFORMANCE CURVES

DL12



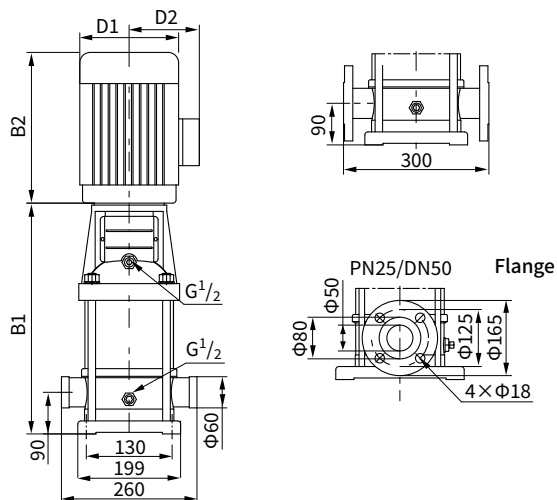
PERFORMANCE TABLE

DL12



Model	Driving motor		Q (m ³ /h)	7	8	9	10	11	12	13	14	15	16
	kW	HP											
DL12-20	1.5	2		23.5	23	22.5	22	21	20	18.5	17	15.5	14
DL12-30	2.2	3		35.5	35	34	33	31.5	30	28	26	23.5	21
DL12-40	3	4		47	46	45	44	42	40	37	34	31	28
DL12-50	3	4		59.5	58	56.5	55	52.5	50	46.5	43	39	35
DL12-60	4	5.5		71.5	70	68	66	63	60	56	52	47	42
DL12-70	5.5	7.5		83.5	82	79.5	77	73.5	70	65.5	61	55	49
DL12-80	5.5	7.5	H (m)	95.5	94	91	88	84	80	75	70	63	56
DL12-90	5.5	7.5		108	106	103	100	95.5	91	85	79	71.5	64
DL12-100	7.5	10		120	118	114.5	111	106	101	94.5	88	80	72
DL12-120	7.5	10		143.5	141	137	133	127	121	113.5	106	96	86
DL12-140	11	15		168	165	160	155	148	141	132.5	124	112	100
DL12-160	11	15		192.5	189	183.5	178	170	162	152	142	128.5	115
DL12-180	11	15		217	213	207.5	202	192.5	183	171.5	160	145	130

Installation Sketch



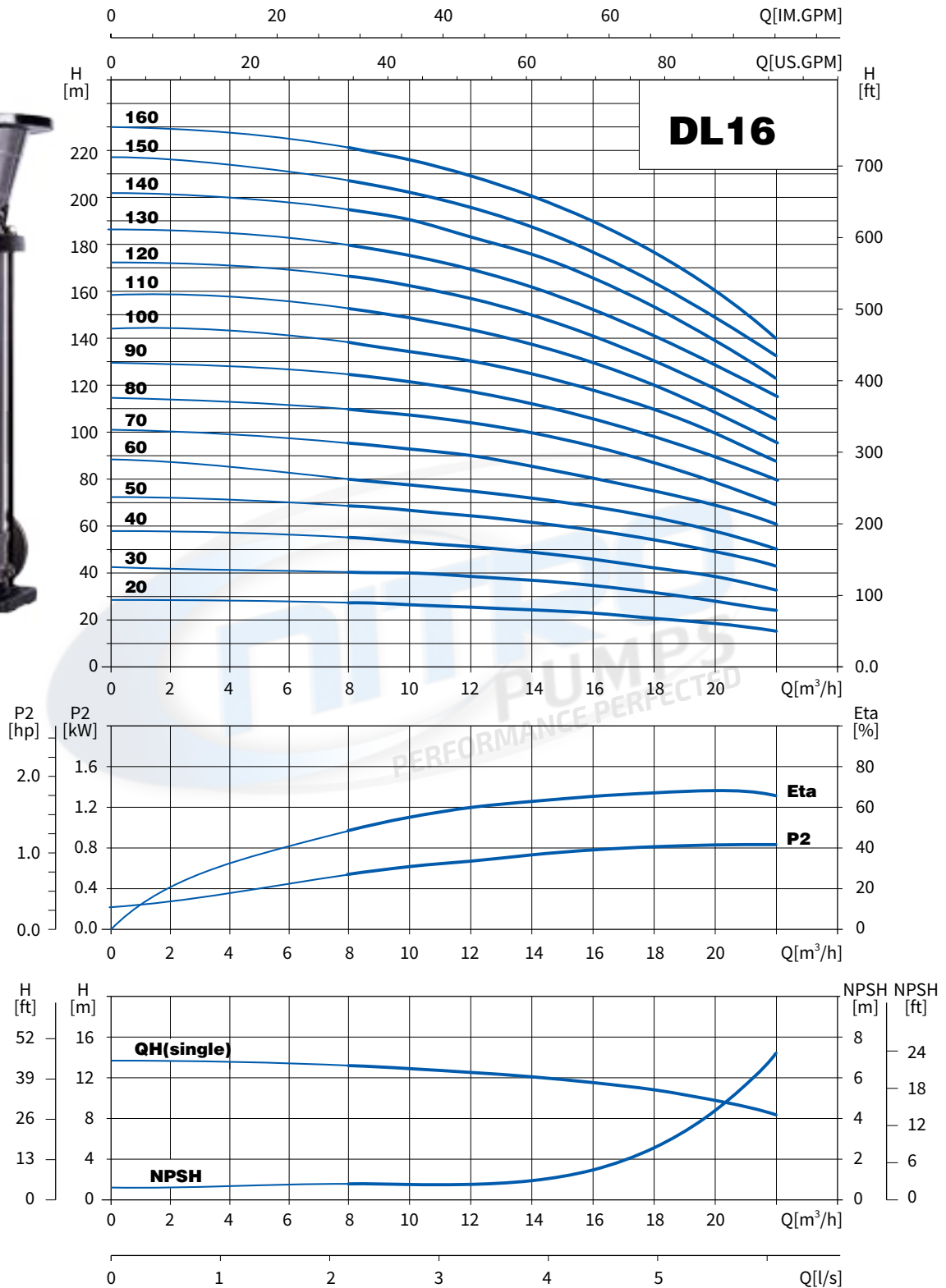
Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL12-20	367	290	657	190	155	39
DL12-30	397	290	687	190	155	43
DL12-40	437	315	752	197	165	51
DL12-50	467	315	782	197	165	53
DL12-60	497	335	832	230	188	61
DL12-70	547	430	977	260	208	73
DL12-80	577	430	1007	260	208	74
DL12-90	607	430	1037	260	208	76
DL12-100	637	430	1067	260	208	83
DL12-120	697	430	1127	260	208	87
DL12-140	845	490	1335	330	255	157
DL12-160	905	490	1395	330	255	161
DL12-180	965	490	1455	330	255	164

The overall dimensions of the single-phase motor and explosion-proof motor are different. Please contact us for details.

PERFORMANCE CURVES

DL16



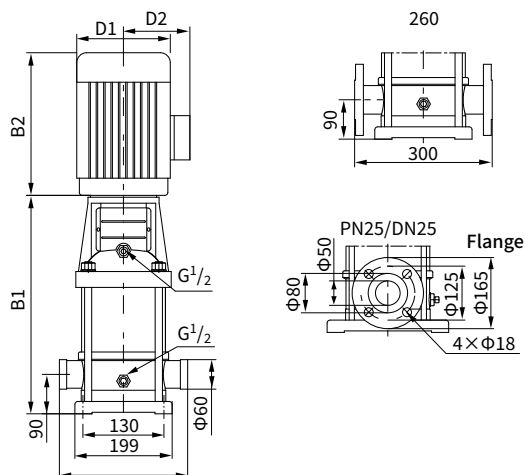
PERFORMANCE TABLE

DL16



Model	Driving motor		Q (m ³ /h)	8	10	12	14	16	18	20	22
	kW	HP									
DL16-20	2.2	3		27	26	25	24	22	21	19	16
DL16-30	3.0	4		41	40	38	37	34	32	29	25
DL16-40	4.0	5.5		54	53	52	49	46	43	38	34
DL16-50	4.0	5.5		68	67	65	62	58	54	48	43
DL16-60	5.5	7.5		82	80	78	74	70	64	58	52
DL16-70	5.5	7.5	H (m)	96	95	91	87	82	76	68	61
DL16-80	7.5	10		110	108	104	99	94	86	77	70
DL16-90	7.5	10		123	119	116	111	104	98	89	78
DL16-100	11	15		138	136	131	125	118	109	97	87
DL16-110	11	15		150	147	143	136	129	121	110	97
DL16-120	11	15		166	162	157	150	141	130	116	105
DL16-130	11	15		176	173	168	160	151	141	129	113
DL16-140	11	15		194	190	184	175	166	152	136	122
DL16-150	11	20		204	199	192	184	173	161	147	131
DL16-160	15	20		222	217	210	200	189	174	156	140

Installation Sketch



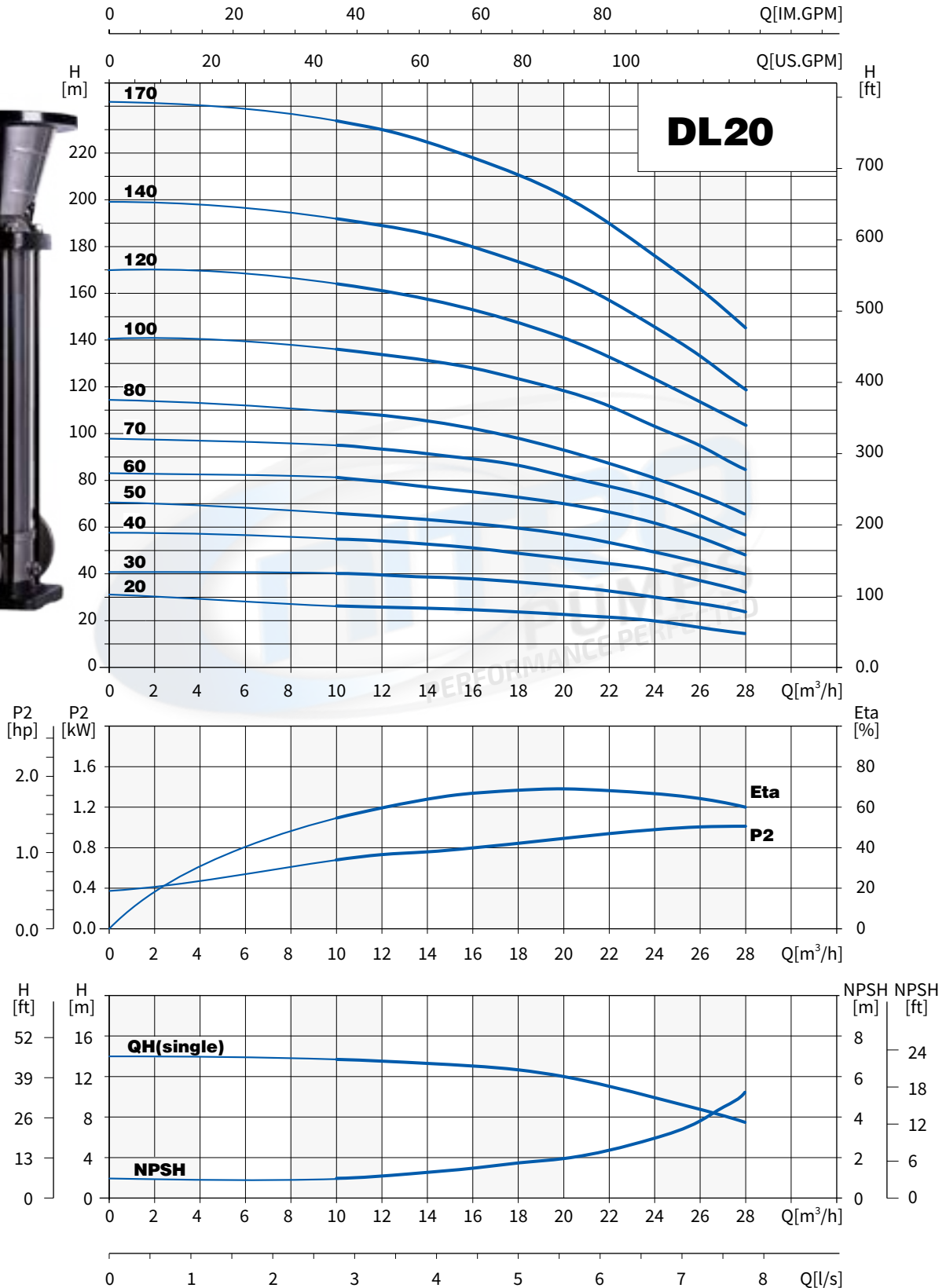
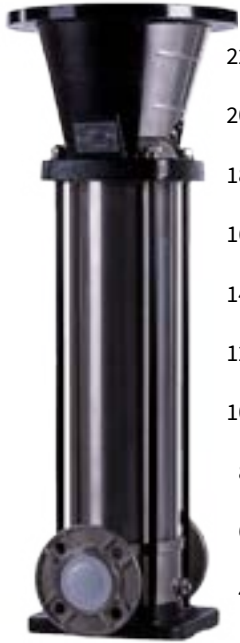
Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL16-20	397	290	687	190	155	42
DL16-30	452	315	767	197	165	50
DL16-40	497	335	832	230	188	59
DL16-50	562	430	992	260	208	76
DL16-60	607	430	1037	260	208	77
DL16-70	652	430	1082	260	208	84
DL16-80	697	430	1127	260	208	86
DL16-100	875	490	1365	330	255	158
DL16-120	965	490	1455	330	255	161
DL16-140	1055	490	1545	330	255	174
DL16-160	1145	490	1635	330	255	178

The overall dimensions of the single-phase motor and explosion-proof motor are different. Please contact us for details.

PERFORMANCE CURVES

DL20



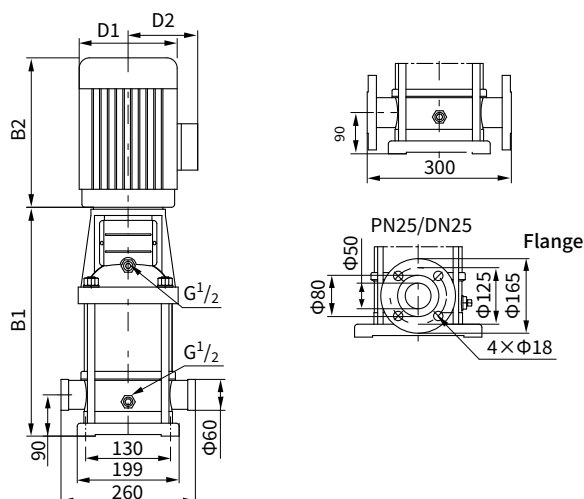
PERFORMANCE TABLE

DL20



Model	Driving motor		Q (m ³ /h)	10	12	14	16	18	20	22	24	26	28
	kW	HP											
DL20-20	2.2	3	H (m)	27	26.5	26	25	24	23	22	20	18	15
DL20-30	4.0	5.5		40	39.5	39	38	37	35	33	30	27	24
DL20-40	5.5	7.5		54	53	52	51	49	47	44	41	37	33
DL20-50	5.5	7.5		67	66	64	62	60	58	55	50	45	40
DL20-60	7.5	10		81	79	77	75	73	70	66	61	55	49
DL20-70	7.5	10		95	93	91	89	86	82	77	71	65	58
DL20-80	11	15		109	107	105	102	99	94	89	82	75	67
DL20-100	11	15		136	134	131	128	124	118	111	103	95	85
DL20-120	15	20		164	162	158	154	149	142	133	124	114	102
DL20-140	15	20		192	189	185	180	174	166	156	145	133	119
DL20-170	18.5	25		234	230	225	219	212	202	190	177	162	145

Installation Sketch



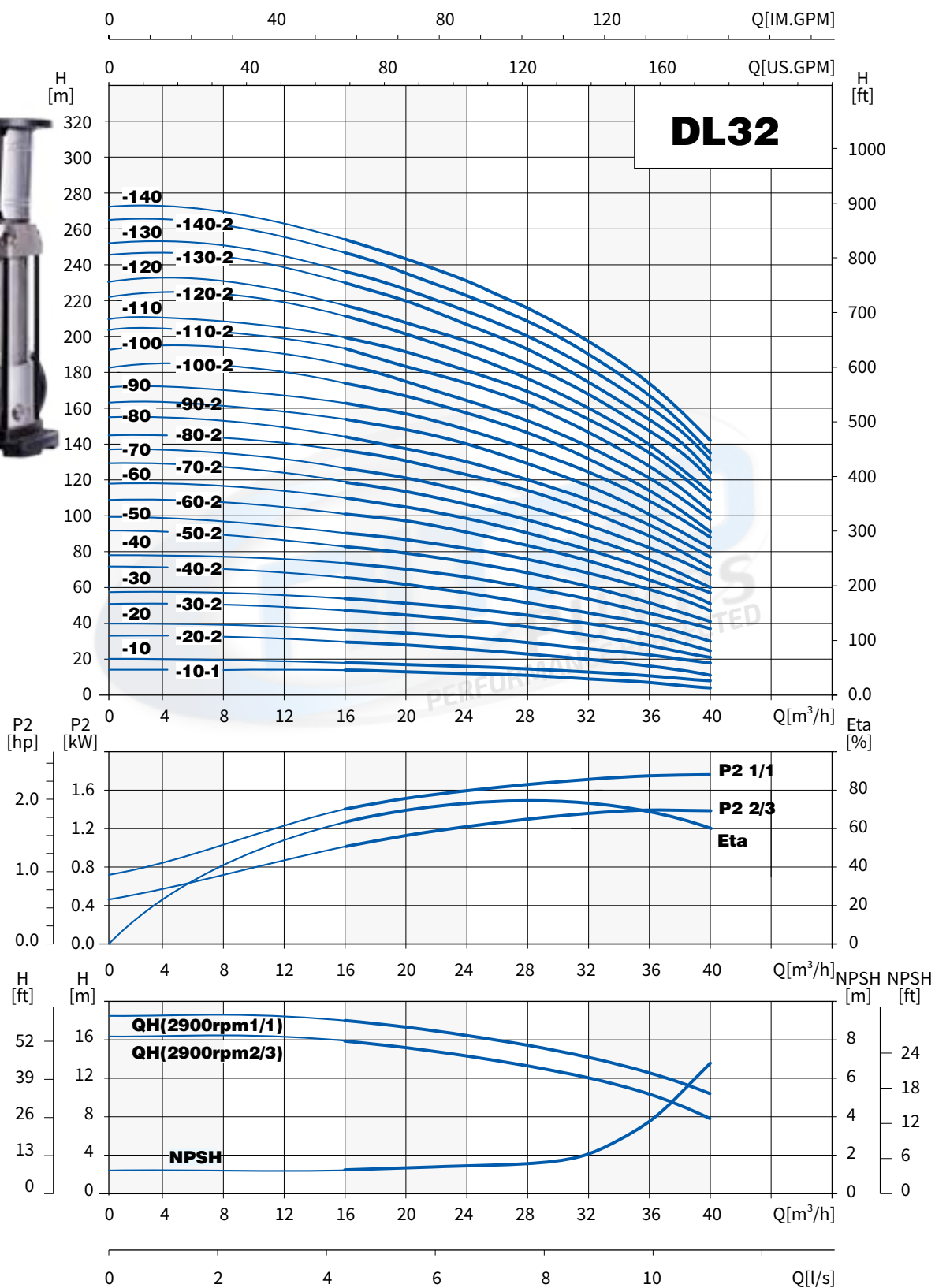
Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL20-20	397	290	687	190	155	42
DL20-30	452	335	787	230	188	58
DL20-40	517	430	947	260	208	74
DL20-50	562	430	992	260	208	76
DL20-60	607	430	1037	260	208	82
DL20-70	652	430	1082	260	208	84
DL20-80	785	490	1275	330	255	153
DL20-100	875	490	1365	330	255	157
DL20-120	965	490	1455	330	255	170
DL20-140	1055	490	1545	330	255	172
DL20-170	1190	550	1740	330	255	195

The overall dimensions of the single-phase motor and explosion-proof motor are different. Please contact us for details.

PERFORMANCE CURVES

DL32



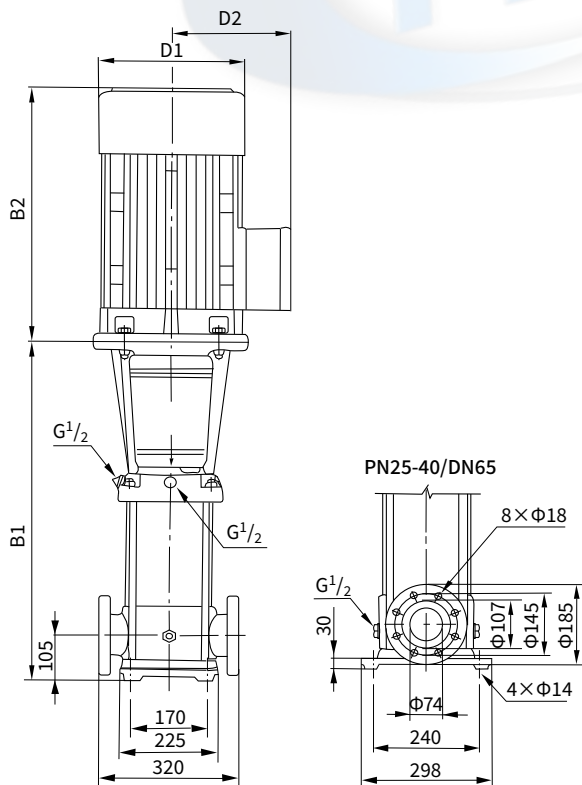
PERFORMANCE TABLE

DL32



Model	Driving motor		Q	16	20	24	28	32	36	40	Model	Driving motor		Q	16	20	24	28	32	36	40
	kW	HP	(m³/h)									kW	HP	(m³/h)							
DL32-10-1	1.5	2		14	13	12	11	9	7	4	DL32-90-2	18.5	25		154	148	140	129	117	102	82
DL32-10	2.2	3		18	17	15	14	13	11	8	DL32-90	18.5	25		162	156	147	136	124	109	88
DL32-20-2	3.0	4		29	28	26	23	20	16	11	DL32-100-2	18.5	25		175	166	157	146	131	115	91
DL32-20	4.0	5.5		36	34	32	29	27	23	18	DL32-100	18.5	25		182	173	164	152	138	122	98
DL32-30-2	5.5	7.5		47	44	41	38	33	28	21	DL32-110-2	22	30		193	184	173	164	146	128	102
DL32-30	5.5	7.5		54	51	48	44	40	35	27	DL32-110	22	30		200	191	180	168	153	135	109
DL32-40-2	7.5	10		65	62	58	53	46	40	30	DL32-120-2	22	30		211	201	189	178	160	140	113
DL32-40	7.5	10		72	69	65	59	53	47	37	DL32-120	22	30		218	208	196	184	167	147	120
DL32-50-2	11	15	H	83	79	74	68	60	52	41	DL32-130-2	30	40	H	230	218	206	193	174	153	124
DL32-50	11	15	(m)	90	86	81	74	67	59	47	DL32-130	30	40	(m)	237	225	213	200	181	160	131
DL32-60-2	11	15		101	97	90	83	74	65	51	DL32-140-2	30	40		247	235	222	210	189	165	135
DL32-60	11	15		108	104	97	90	81	72	57	DL32-140	30	40		255	242	229	216	196	172	142
DL32-70-2	15	20		119	114	107	98	88	78	60											
DL32-70	15	20		126	121	113	105	95	85	67											
DL32-80-2	15	20		136	131	123	114	102	90	71											
DL32-80	15	20		144	138	130	120	109	97	77											

Installation Sketch



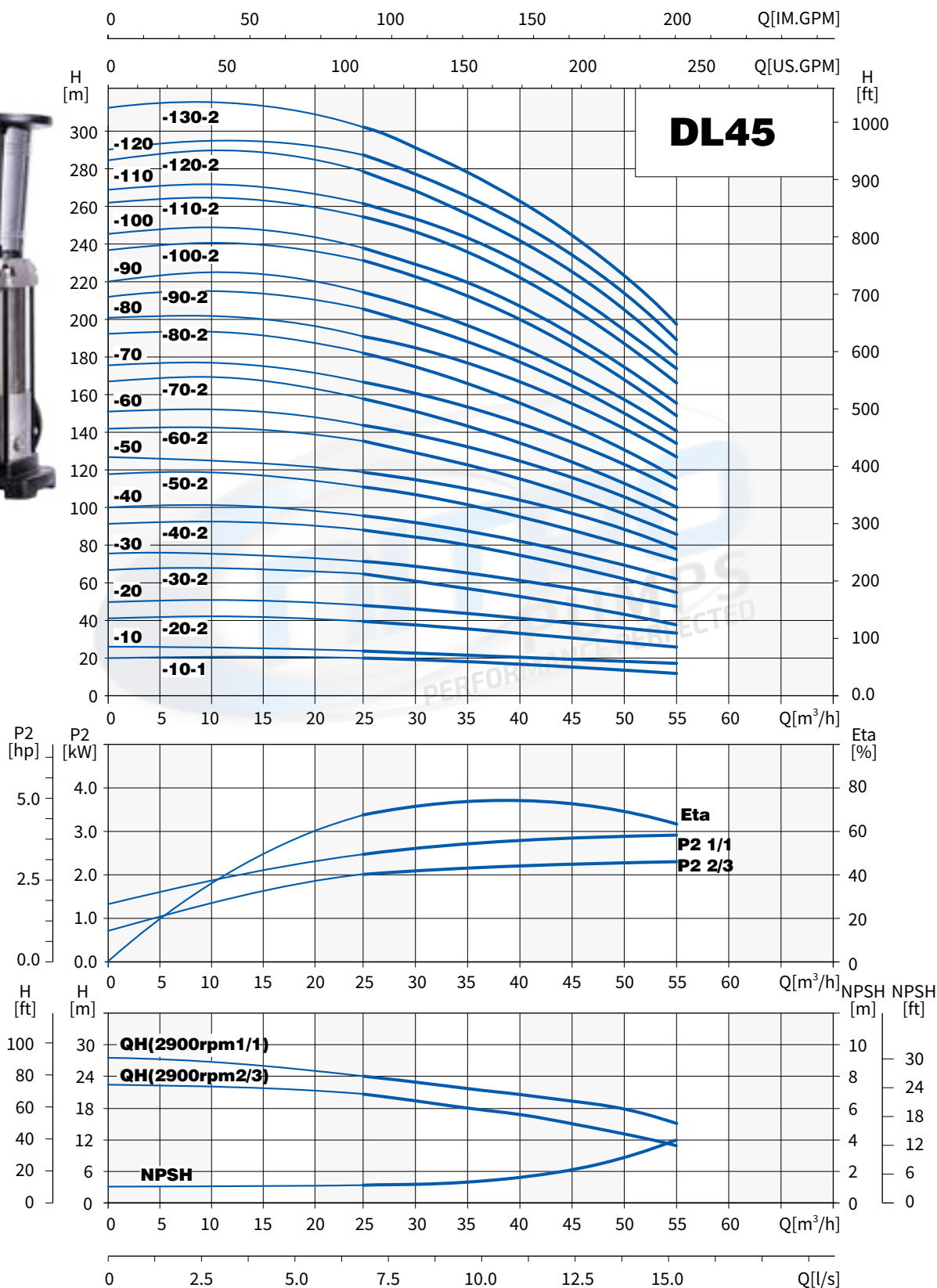
Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL32-10-1/DL2-10	505	290	795	190	155	64/68
DL32-20-2/DL2-20	575	315/335	890/910	197/230	165/180	77/85
DL32-30-2/DL2-30	645	430	1075	260	208	100
DL32-40-2/DL2-40	715	430	1145	260	208	109
DL32-50-2/DL2-50	890	490	1380	330	255	181
DL32-60-2/DL2-60	960	490	1450	330	255	185
DL32-70-2/DL2-70	1030	490	1520	330	255	199
DL32-80-2/DL2-80	1100	490	1590	330	255	203
DL32-90-2/DL2-90	1170	550	1720	330	255	222
DL32-100-2/DL2-100	1240	550	1790	330	255	227
DL32-110-2/DL2-110	1310	590	1900	360	285	272
DL32-120-2/DL2-120	1380	590	1970	360	285	276
DL32-130-2/DL2-130	1450	660	2110	400	310	337
DL32-140-2/DL2-140	1520	660	2180	400	310	341

The overall dimensions of the single-phase motor and explosion-proof motor are different. Please contact us for details.

PERFORMANCE CURVES

DL45



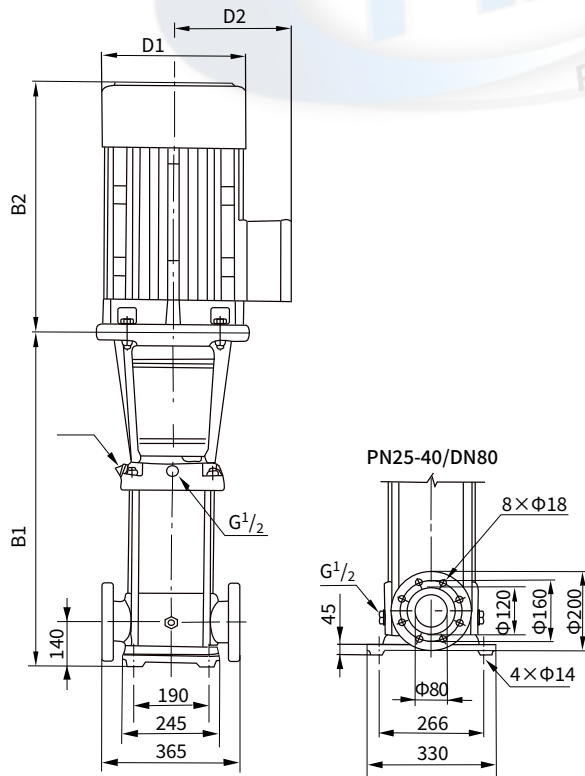
PERFORMANCE TABLE

DL45



Model	Driving motor		Q (m ³ /h)	25	30	35	40	42	45	50	55
	kW	HP									
DL45-10-1	3.0	4	H (m)	20	19	18	17	16	15	13	11
DL45-10	4.0	5.5		24	23	22	21	20	19	18	16
DL45-20-2	5.5	7.5		40	38	36	33	32	30	27	23
DL45-20	7.5	10		48	46	44	42	41	39	35	31
DL45-30-2	11	15		63	61	58	54	52	50	44	38
DL45-30	11	15		71	69	66	63	61	58	53	47
DL45-40-2	15	20		87	84	80	75	73	69	62	54
DL45-40	15	20		95	92	88	84	81	78	71	62
DL45-50-2	18.5	25		111	107	102	96	93	88	80	69
DL45-50	18.5	25		119	115	110	105	101	97	88	78
DL45-60-2	22	30		135	130	124	117	113	108	97	85
DL45-60	22	30		143	138	132	125	122	116	106	93
DL45-70-2	30	40		158	152	146	138	134	127	115	100
DL45-70	30	40		166	161	154	146	142	135	124	109
DL45-80-2	30	40		182	175	168	159	154	146	133	116
DL45-80	30	40		190	184	176	167	162	154	141	124
DL45-90-2	30	40		205	198	190	180	174	166	150	132
DL45-90	37	50		214	207	198	188	183	174	159	140
DL45-10-2	37	50		230	221	212	200	194	185	168	147
DL45-100	37	50		238	230	220	209	203	193	177	155
DL45-110-2	45	60		255	246	236	223	217	206	188	165
DL45-110	45	60		263	255	244	232	225	214	196	173
DL45-120-2	45	60		280	270	259	245	238	226	206	181
DL45-120	45	60		289	280	268	255	247	236	216	190
DL45-130-2	45	60		305	294	282	267	259	247	225	198

Installation Sketch



Size & Weight

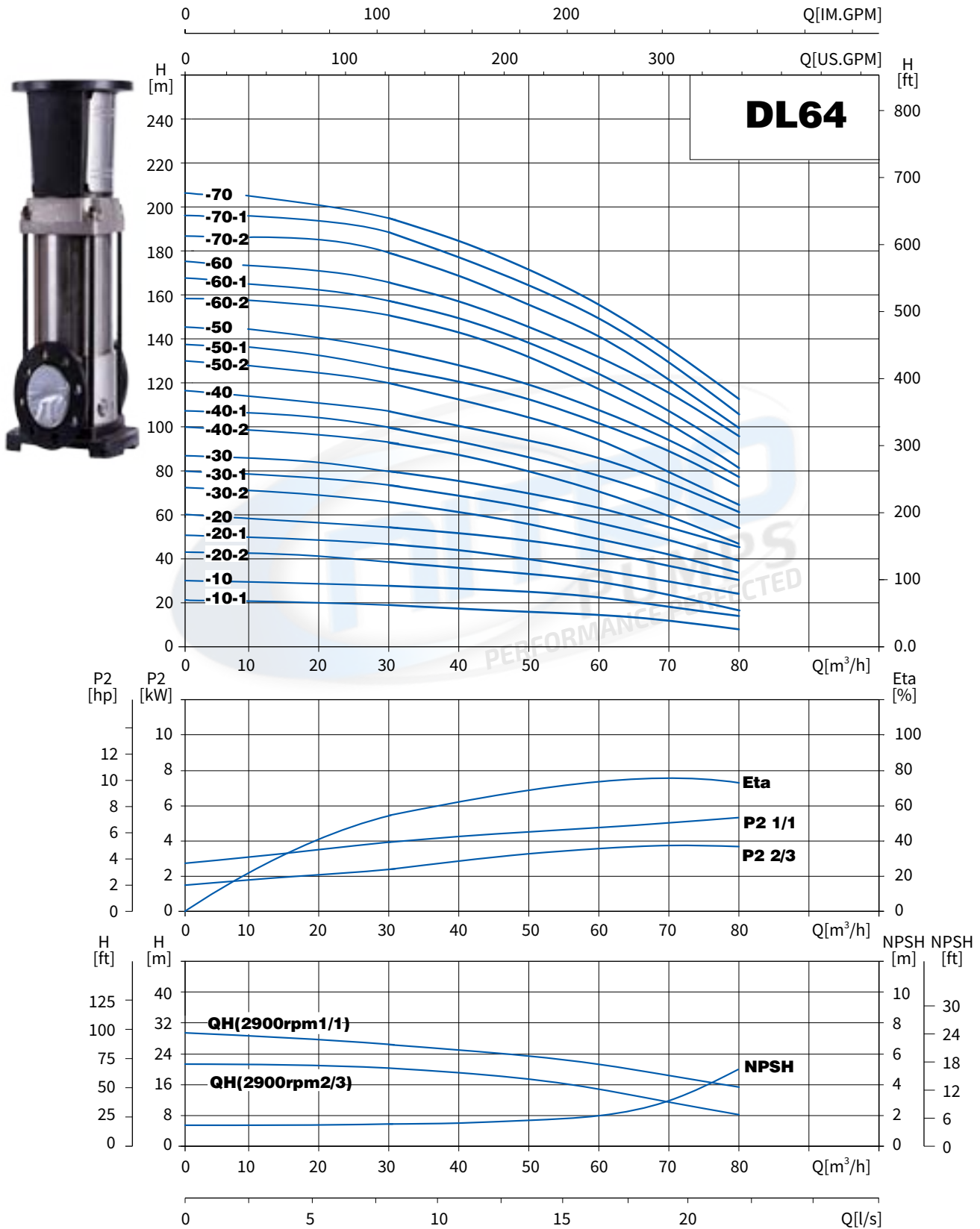
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL45-10-1	561	315/335	876/896	197/230	165/188	83/90
DL45-10						
DL45-20-2	641	430	1071	260	208	105/110
DL45-20						
DL45-30-2	826	490	1316	330	255	183
DL45-30						
DL45-40-2	906	490	1396	330	255	197
DL45-400						
DL45-50-2	986	550	1536	330	255	221
DL45-50						
DL45-60-2	1066	590	1656	360	285	261
DL45-60						
DL45-70-2	1146	660	1806	400	310	320
DL45-70						
DL45-80-2	1226	660	1886	400	310	324
DL45-80						
DL45-90-2	1306	660	1966	400	310	328/352
DL45-90						
DL45-100-2	1386	660	2046	400	310	355
DL45-100						
DL45-110-2	1466	700	2166	450	345	426
DL45-110						
DL45-120-2	1546	700	2246	450	345	432
DL45-120						
DL45-130-2	1626	700	2326	450	345	438

The overall dimensions of explosion-proof motor is different. Please contact us for details.

PERFORMANCE CURVES



DL64



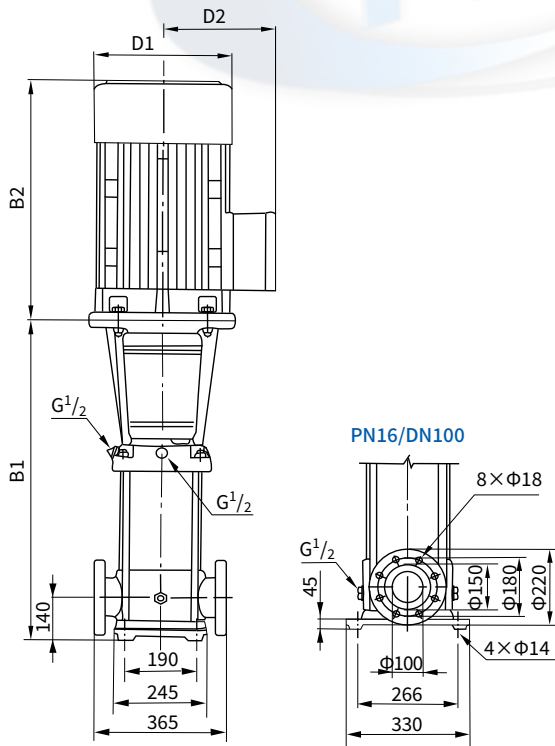
PERFORMANCE TABLE

DL64



Model	Driving motor		Q (m³/h)	30	40	50	60	65	70	80
	kW	HP								
DL 64-10-1	4.0	5.5	H (m)	19	18	16	14	13	11	8
DL 64-10	5.5	7.5		27	25	23	21	20	18	15
DL 64-20-2	7.5	10		39	36	33	29	26	23	17
DL 64-20-1	11	15		46	44	40	36	33	30	24
DL 64-20	11	15		53	51	47	43	40	37	30
DL 64-30-2	15	20		66	62	56	50	46	41	32
DL 64-30-1	15	20		73	69	63	57	53	48	39
DL 64-30	18.5	25		80	76	70	64	60	55	46
DL 64-40-2	18.5	25		92	87	80	71	66	60	47
DL 64-40-1	22	30		100	94	87	78	73	67	54
DL 64-40	22	30		107	101	94	85	80	74	61
DL 64-50-2	30	40		121	114	105	95	88	80	64
DL 64-50-1	30	40		128	121	112	102	95	87	71
DL 64-50	30	40		136	129	119	109	102	94	78
DL 64-60-2	30	40		150	142	131	118	110	101	81
DL 64-60-1	37	50		157	149	138	125	117	108	88
DL 64-60	37	50		164	156	145	132	124	115	95
DL 64-70-2	37	50		179	169	156	141	132	121	99
DL 64-70-1	37	50		186	176	163	148	139	128	106
DL 64-70	45	60		193	183	170	155	146	135	112

Installation Sketch



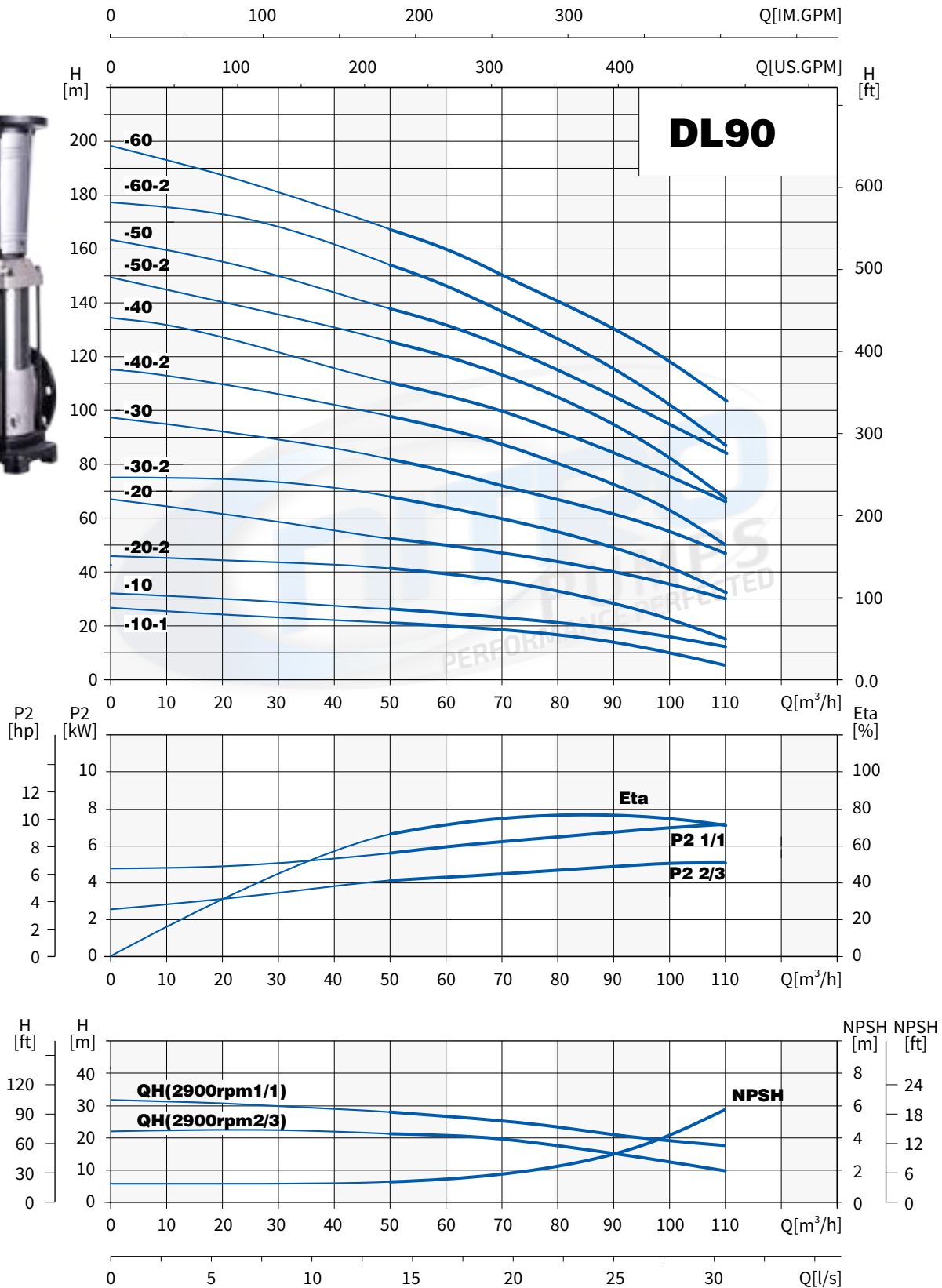
Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL 64-10-1	561	335	896	230	188	93
DL 64-10	561	430	991	260	208	105
DL 64-20-2	644	430	1074	260	208	110
DL 64-20-1	754	490	1244	330	255	182
DL 64-20	754	490	1244	330	255	182
DL 64-30-2	836	490	1326	330	255	196
DL 64-30-1	836	490	1326	330	255	197
DL 64-30	836	550	1386	330	255	221
DL 64-40-2	919	550	1469	330	255	225
DL 64-40-1	919	590	1509	360	285	258
DL 64-40	919	590	1509	360	285	258
DL 64-50-2	1001	660	1661	400	310	319
DL 64-50-1	1001	660	1661	400	310	319
DL 64-50	1001	660	1661	400	310	320
DL 64-60-2	1084	660	1744	400	310	325
DL 64-60-1	1084	660	1744	400	310	349
DL 64-60	1084	660	1744	400	310	349
DL 64-70-2	1166	660	1826	400	310	353
DL 64-70-1	1166	660	1826	400	310	353
DL 64-70	1166	700	1866	460	340	420

The overall dimensions of explosion-proof motor is different.

PERFORMANCE CURVES

DL90



PERFORMANCE TABLE

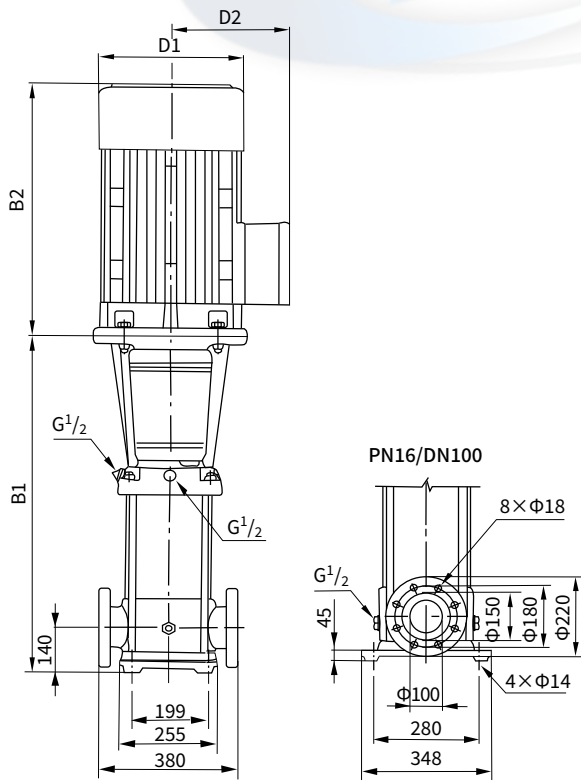
DL90



Model	Driving motor		Q (m ³ /h)	50	60	70	80	85	90	100	110
	kW	HP									
DL90-10-1	5.5	7.5	H (m)	22	19	17	16	14	13	10	6
DL90-10	7.5	10		25	24	22	21	20	19	16	12
DL90-20-2	11	15		41	39	36	32	30	28	22	15
DL90-20	15	20		53	50	47	44	41	40	36	30
DL90-30-2	18.5	25		68	65	60	55	52	49	41	32
DL90-30	22	30		81	77	72	67	64	62	55	48
DL90-40-2	30	40		98	93	87	80	75	72	62	50
DL90-40	30	40		110	105	100	92	86	84	76	66
DL90-50-2	37	50		126	120	113	104	98	93	81	68
DL90-50	37	50		139	131	124	115	110	106	94	83
DL90-60-2	45	60		155	148	139	129	122	117	102	86
DL90-60	45	60		168	160	150	141	134	130	117	103

Installation Sketch

Size & Weight



Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
DL90-10-1	571	430	1001	260	208	105
DL90-10	571	430	1001	260	208	110
DL90-20-2	773	490	1263	330	255	181
DL90-20	773	490	1263	330	255	192
DL90-30-2	865	550	1415	330	255	215
DL90-30	865	590	1455	360	285	252
DL90-40-2	957	660	1617	400	310	312
DL90-40	957	660	1617	400	310	312
DL90-50-2	1049	660	1709	400	310	336
DL90-50	1049	660	1709	400	310	336
DL90-60-2	1141	700	1841	460	340	407
DL90-60	1141	700	1841	460	340	407

The overall dimensions of explosion-proof motor is different. Please contact us for details.

DL SINGLE PHASE

Flanged motor



Applications

These motors are suitable for the occasion requiring low starting torque and long-term continuous working, such as home electric appliances, pumps, fans, and recording meters, etc.

Features

Running dual capacitors

Frame Size: 71-90

Rated Power Range: 2 pole 0.37kW -2.2kW

House Material: Aluminium (plastic terminal box)

Rated Voltage: 220V $\pm$ 5%, 50Hz

Protection Class: IP54/IP55

Insulation Class: Class B/F



Performance data

FRAME SIZE	POWER (kW)	RATED SPEED (rpm)	CURRENT FULL LOAD 400V I _{FL} - 400V	CURRENT STARTING ÷ CURRENT FULL LOAD	EFFICIENCY %	POWER FACTOR	RATED TORQUE (Nm)	LOCKED ROTOR TORQUE ÷ TORQUE FULL LOAD	TORQUE BREAKDOWN ÷ TORQUE FULL LOAD	STARTING CAPACITOR 250V
71	0.37	2750	2.73	3.7	67	0.92	3.99	0.35	1.7	12
71	0.55	2760	3.88	3.9	70	0.92	5.94	0.35	1.7	16
80	0.75	2780	5.15	3.9	72	0.92	7.83	0.33	1.7	30
80	1.1	2790	7.02	4.3	75	0.95	11.48	0.33	1.7	35
90S	1.5	2800	9.44	4.8	76	0.95	15.57	0.30	1.7	40
90L	2.2	2800	13.7	4.8	77	0.95	22.47	0.30	1.7	40

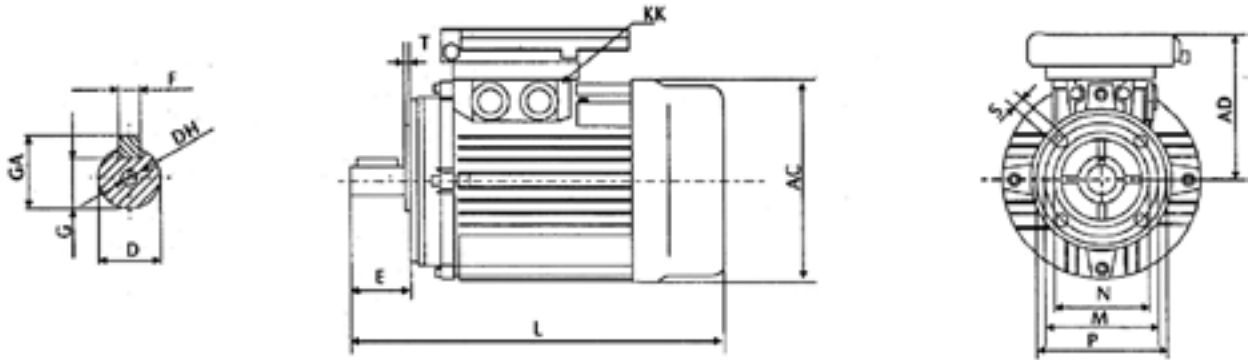
Pumps up to 4kW require B14 flange and pumps from 5.5kW require B3/B5 flange.

OUTLINE AND INSTALLATION

Dimensions

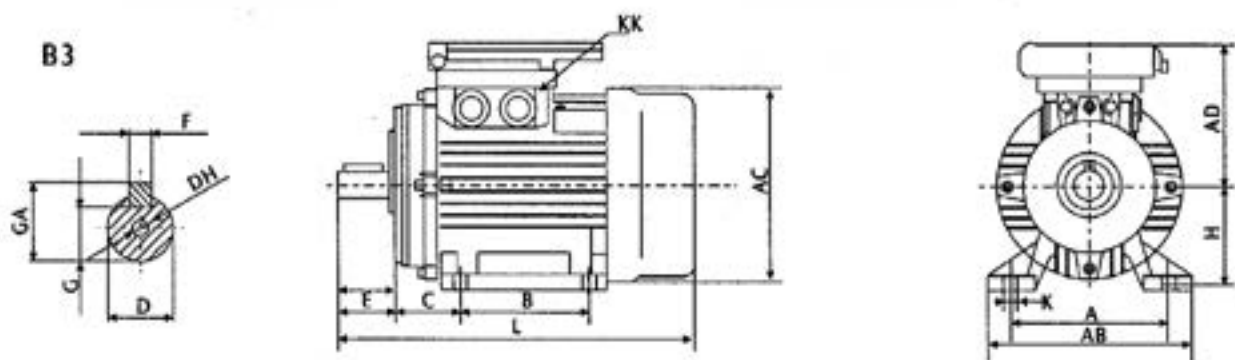


FLANGE SPECIFICATION: B14



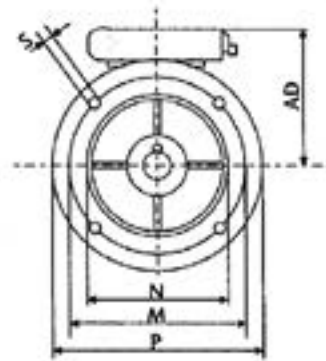
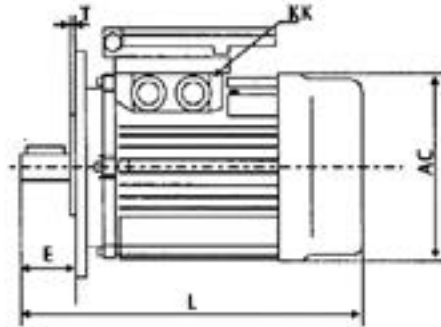
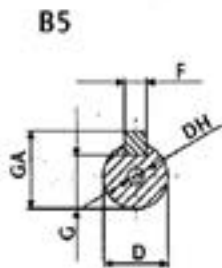
FRAME SIZE	A	AB	AC	AD	B	C	D	DH	E	F	G	H	R	K	KK	L	M	N	P	S	T	GA
71	112	136	138	110	90	45	14	M5X12	30	5	11	71	0+-1.0	7	2-M18X1.5	251	85	70	105	M6	3.5	16
80	125	154	157	152	100	50	19	M6X16	40	6	15.5	80	0+-1.5	10	2-M20X1.5	286	100	80	120	M6	3.5	21.5
90S	140	174	175	158	100	56	24	M8X19	50	8	20	90	0+-1.5	10	2-M20X1.5	335	115	95	140	M8	3.5	27
90L	140	174	175	158	125	56	24	M8X19	50	8	20	90	0+-1.5	10	2-M20X1.5	350	115	95	140	M8	3.5	27

FLANGE SPECIFICATION: B3



FRAME SIZE	A	AB	AC	AD	B	C	D	DH	E	F	G	H	K	KK	L	M	N	P	S	T	GA
71	112	136	138	110	90	45	14	M5X12	30	5	11	71	7	2-M18X1.5	251	130	110	160	9	3.5	16
80	125	154	157	152	100	50	19	M6X16	40	6	15.5	80	10	2-M20X1.5	286	165	130	200	12	3.5	21.5
90S	140	174	175	158	100	56	24	M8X19	50	8	20	90	10	2-M20X1.5	335	165	130	200	12	3.5	27
90L	140	174	175	158	125	56	24	M8X19	50	8	20	90	10	2-M20X1.5	350	165	130	200	12	3.5	27

FLANGE SPECIFICATION: B5



FRAME SIZE	A	AB	AC	AD	B	C	D	DH	E	F	G	H	K	KK	L	M	N	P	S	T	GA
71	112	136	138	110	90	45	14	M5X12	30	5	11	71	7	2-M18X1.5	251	130	110	160	9	3.5	16
80	125	154	157	152	100	50	19	M6X16	40	6	15.5	80	10	2-M20X1.5	286	165	130	200	12	3.5	21.5
90S	140	174	175	158	100	56	24	M8X19	50	8	20	90	10	2-M20X1.5	335	165	130	200	12	3.5	27
90L	140	174	175	158	125	56	24	M8X19	50	8	20	90	10	2-M20X1.5	350	165	130	200	12	3.5	27

PERFORMANCE PERFECT

DL THREE PHASE FLANGED

Motor Cast Iron



Features

- Frame Size Range: H80~H355
- Housing Material: Frame, flange and bracket, grey cast iron, conduit box-steel
- Standard Mounting Construction: IEC60034-7 Protect
- Enclosed Class: IP55 (IEC60034-5)
- Cooling Method: IC411 (IEC60034-6)

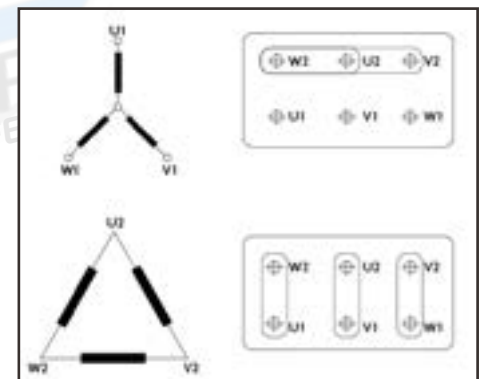
The special winding design can work for multi-voltages (50Hz or 60Hz)
Can withstand 1.5 times of the rated current for 2 minutes (IEC60034-1)
Anti-condensation heater is available.
PTC or Pt100 thermistor are available to protect the winding and bearing.



Standard 3-phase motors can be connected using the star of delta method.

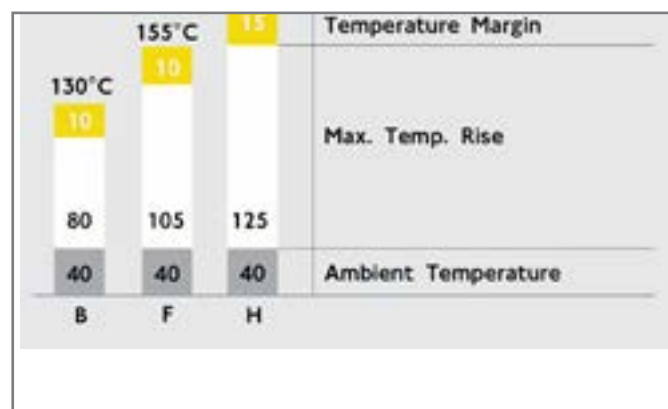
Star connection is achieved by wiring W2, U2, V2 to each other; and U1, V1, W1 leads to voltage supply.

Delta connection is achieved by wiring the end of a phase to the head of another.



Insulation classification

The motors have insulation class F while the temperature rise is for class B ensuring a longer service life. Class H insulation motors can be manufactured at the customer's request. Under specified measuring conditions in accordance with IEC 60034-1 standard, insulation class F for an electric motor means that at the ambient temperature of 40°C the temperature rise of its windings may be maximum 105K with the additional temperature margin of 10K.



Degree of protection

According to IEC 60034-5 standard, electric motors are provided with IP code which determines the degree of protection ensured by the housing against access to dangerous parts, introducing foreign matter and/or water.

Our motors comply with IP55 protection class as standard.

THE FIRST CHARACTERISTIC NUMERAL: PROTECTION FORM INTRODUCTION OF SOLID FOREIGN MATTER		THE SECOND CHARACTERISTIC NUMERAL: PROTECTION AGAINST PENETRATION OF WATER AND ITS HARMFUL EFFECTS	
0	Non-protected machine	0	Non-protected machine
1	Machine protected against solid objects greater than 50mm	1	Machine protected against dripping water
2	Machine protected against solid objects greater than 12mm	2	Machine protected against dripping water when tilted up to 15°
3	Machine protected against solid objects greater than 2.5mm	3	Machine protected against spraying water
4	Machine protected against solid objects greater than 1mm	4	Machine protected against splashing water
5	Dust protected machine	5	Machine protected against water jets
6	Dust-tight machine	6	Machine protected against heavy seas

Number of starts per hour

The number of starts per hour is dependant on the inertia of the driven load and the load torque demand. A guide to generally acceptable starts per hour would be as per table.

STARTS PER HOUR	
FRAME SIZE	2 POLE
80	20
90	16
100	16
112	16
132	10
160	10
180	8
200	6
225	5

Bearings

FRAME SIZE	DRIVING END	NON DRIVING END
	2 POLE	2 POLE
80	6205 2Z/C3	6205 2Z/C3
90	6206 2Z/C3	6206 2Z/C3
100	6206 2Z/C3	6206 2Z/C3
112	6207 2Z/C3	6207 2Z/C3
132	6208 2Z/C3	6208 2Z/C3
160	6209 2Z/C3	6209 2Z/C3
180	6211/C3	6211/C3
200	6212/C3	6212/C3
225	6212/C3	6212/C3

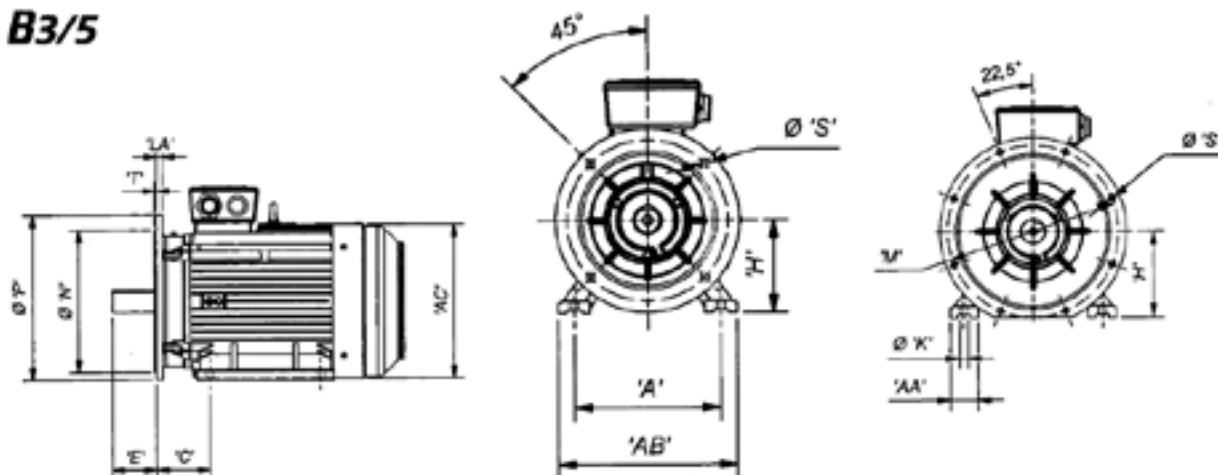
PERFORMANCE DATA



FRAME SIZE	POWER (kW)	RATED SPEED (rpm)	CURRENT FULL LOAD 380V	CURRENT FULL LOAD 400V	CURRENT FULL LOAD 415V	EFFICIENCY %	POWER FACTOR	RATED TORQUE (Nm)	TORQUE STARTING ÷ TORQUE FULL LOAD	TORQUE MAXIMUM ÷ TORQUE FULL LOAD	NOISE LEVEL LW db(A)	NET WEIGHT kg
80	0.75	2840	1.8	1.7	1.67	75.5	0.83	2.5	2.3	2.6	67	14
80	1.1	2840	2.6	2.5	2.4	76.2	0.84	3.7	2.3	2.6	67	15
90S	1.5	2850	3.4	3.2	3.1	79.5	0.85	5	2.5	2.9	72	20
90L	2.2	2850	4.8	4.6	4.4	81.7	0.85	7.4	2.7	2.9	72	24
100L	3	2880	6.3	6	5.8	83.1	0.87	10	2.7	2.9	76	30
112M	4	2880	8.2	7.8	7.6	84.2	0.88	13.3	2.6	2.9	77	38
112M	5.5	2880	11.1	10.5	10.2	85.7	0.88	13.3	2.7	3.2	78	43
132S	5.5	2900	11.1	10.5	10.2	85.9	0.88	18.1	2.3	2.6	80	57
132S	7.5	2900	16.9	14.2	13.5	87.2	0.88	24.5	2.5	2.8	80	61
160M	11	2930	21.1	20.1	19.4	88.7	0.89	35.8	2.6	2.9	86	101
160M	15	2930	28.6	27.2	26.2	89.5	0.89	48.8	2.6	2.9	86	111
160L	18.5	2930	34.6	32.9	31.8	90.2	0.90	60.4	2.5	2.8	86	126
180M	22	2940	41	38.9	37.6	90.6	0.90	71.4	2.6	2.8	89	176
200L	30	2950	55.4	52.6	50.7	91.5	0.90	97.2	2.5	2.7	92	226
200L	37	2950	67.9	64.5	62.2	92.0	0.90	119.8	2.4	2.6	92	245
225M	45	2970	82.1	78	75.3	82.5	0.90	144.8	2.4	2.6	92	280

FLANGE SPECIFICATION: B3B5

B3/5



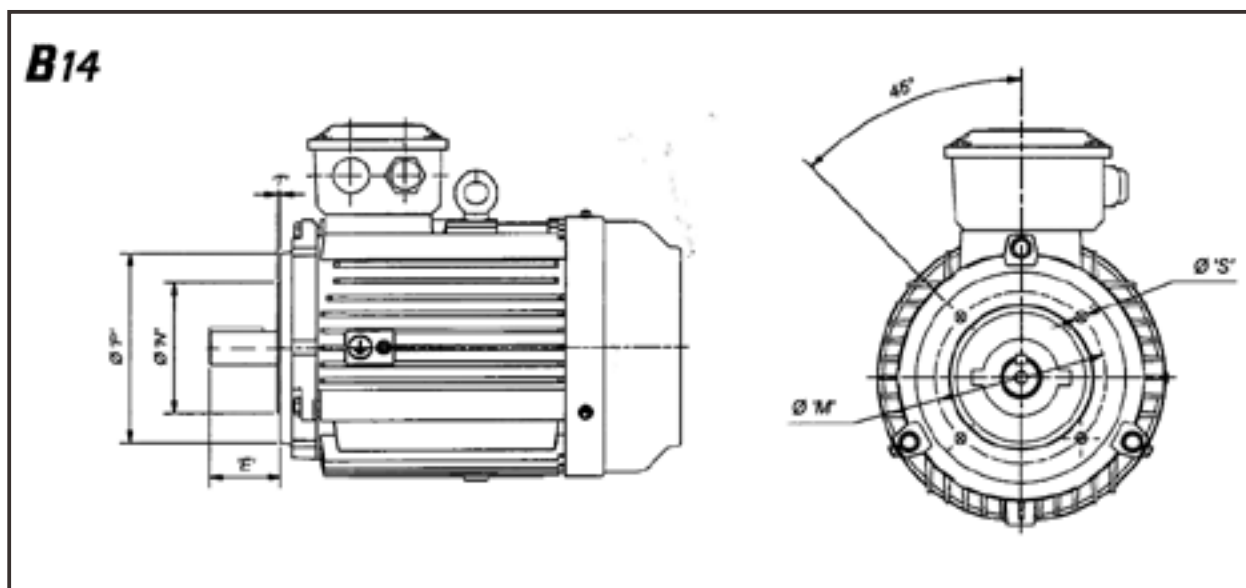
FRAME SIZE	A	AA	AB	AC	C	E	H	ΦK	LA	ΦM	ΦN	ΦP	T	ΦS	NO OF HOLES
80	125	34	156	175	50	40	80	10	12	165	130	200	3.5	12	4
90S	140	36	176	190	56	50	90	10	12	165	130	200	3.5	12	4
90L	140	36	176	190	56	50	90	10	12	165	130	200	3.5	12	4
100L	160	40	198	215	63	60	100	12	14	215	180	250	4	15	4
112M	190	45	226	236	70	60	112	12	14	215	180	250	4	15	4
132S	216	52	260	275	89	80	132	12	14	265	230	300	4	15	4
160M	254	65	314	330	108	110	160	14.5	16	300	250	350	5	19	4
160L	254	65	314	330	108	110	160	14.5	16	300	250	350	5	19	4
180M	279	70	345	380	121	110	180	14.5	16	300	250	350	5	19	4
200L	318	70	388	420	133	110	200	18.5	18	350	300	400	5	19	4
225M	356	75	431	465	149	110	225	18.5	20	400	350	450	5	19	8

OUTLINE AND INSTALLATION

Dimensions



FLANGE SPECIFICATION: B14



FRAME SIZE	E	ΦM	ΦN	ΦP	T	S	NO OF HOLES
80	40	100	80	120	3	M6	4
90S	50	115	95	140	3	M8	4
90L	50	115	95	140	3	M8	4
100L	60	130	110	160	3.5	M8	4
112M	60	130	110	160	3.5	M8	4
132S	80	165	130	200	3.5	M10	4
160M	110	215	180	248	4	M12	4
160L	110	215	180	248	4	M12	4

DL THREE PHASE FLANGED

Motor Aluminium



Features

Three-phase removable feet standard efficiency aluminium induction motors. Position of the terminal box can be changed according to the user's requirements. Efficiency indicator reaches IE1 standard.

Characteristics for all standard 3-phase aluminium induction motors are as follows:

1. IP55 protection, class F insulation, B temperature rise and S1 duty.
2. Rated voltage 400V or 525V, rated frequency 50Hz.
3. Y-connection for motors up to 3kW and Δ - connection for 4kW and above.
4. Cooling method is Ic411.

Operating conditions

Ambient temperature: -200C to 400C.

Altitude: <1000m



PERFORMANCE DATA



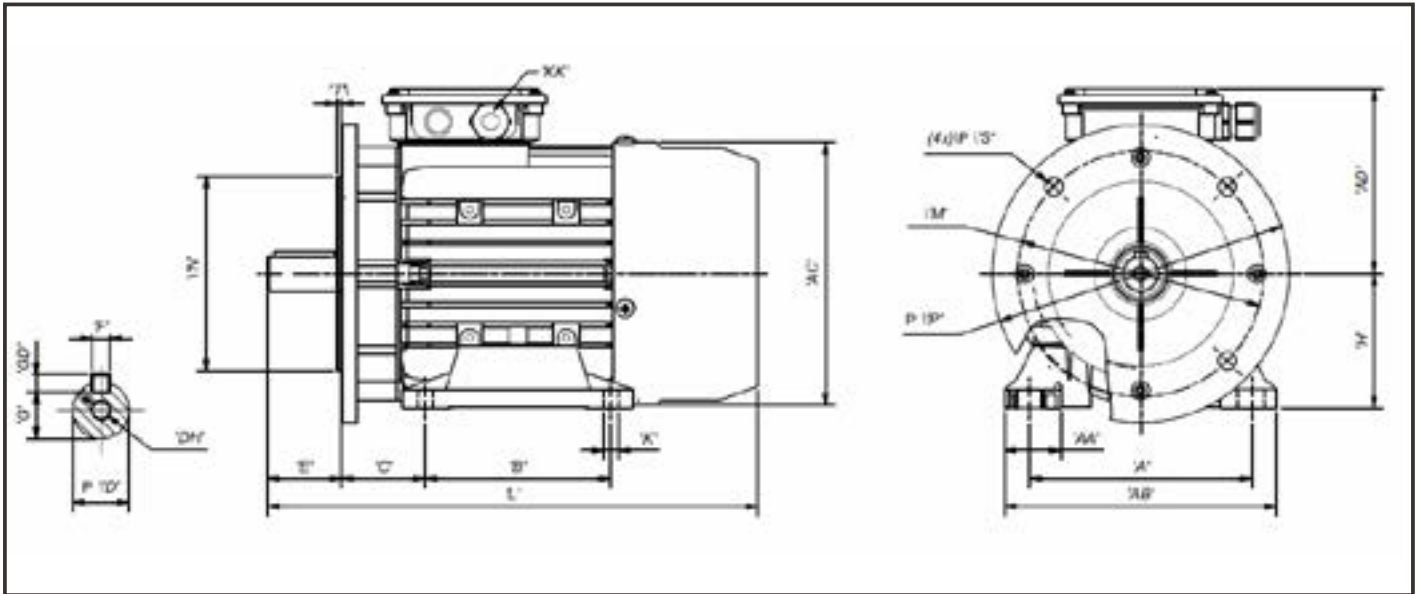
FRAME SIZE	POWER (kW)	RATED SPEED (rpm)	CURRENT FULL LOAD I_n (A)	FULL LOAD POWER FACTOR $\cos\phi$	EFFICIENCY $\eta\%$ OF % FULL LOAD			LOCKED ROTOR ÷ CURRENT I_s/I_n	LOCKED ROTOR ÷ TORQUE M_s/M_n	BREAKDOWN ÷ TORQUE M_k/M_n	RATED TORQUE Nm	MOMENT OF INERTIA $J(K\text{-}gm^2)$	NETT WEIGHT kg
					100	75	50						
71	0.37	2760	0.94	0.81	70.0	70.9	68.9	6.1	2.2	2.2	1.28	0.0005	6.2
71	0.55	2820	1.33	0.82	73.0	73.9	71.9	6.1	2.2	2.3	1.86	0.00063	6.3
80	0.75	2845	1.76	0.83	74.0	74.2	71.4	6.1	2.4	2.5	2.52	0.0008	8.3
80	1.1	2840	2.49	0.84	76.0	76.8	75.3	7.0	2.5	2.5	3.7	0.0010	9.0
90S	1.5	2840	3.30	0.84	78.0	78.7	76.7	7.0	2.7	2.8	5.04	0.0012	12.5
90L	2.2	2840	4.67	0.85	80.0	80.8	79.5	7.0	2.5	2.8	7.4	0.0014	14.0
100L	3	2870	6.07	0.87	82.0	82.1	80.3	7.5	2.2	2.5	9.98	0.0029	20.5
112M	4	2880	7.81	0.88	84.0	84.8	84.1	7.5	2.3	2.3	13.26	0.0050	26.0
132S	5.5	2910	10.6	0.88	85.0	85.0	83.5	7.5	2.2	2.5	18.11	0.0104	40.0
132S	7.5	2905	14.3	0.88	86.3	86.6	85.6	7.5	2.2	2.4	24.66	0.0121	44.0

OUTLINE AND INSTALLATION



Dimensions

FLANGE SPECIFICATION: B5



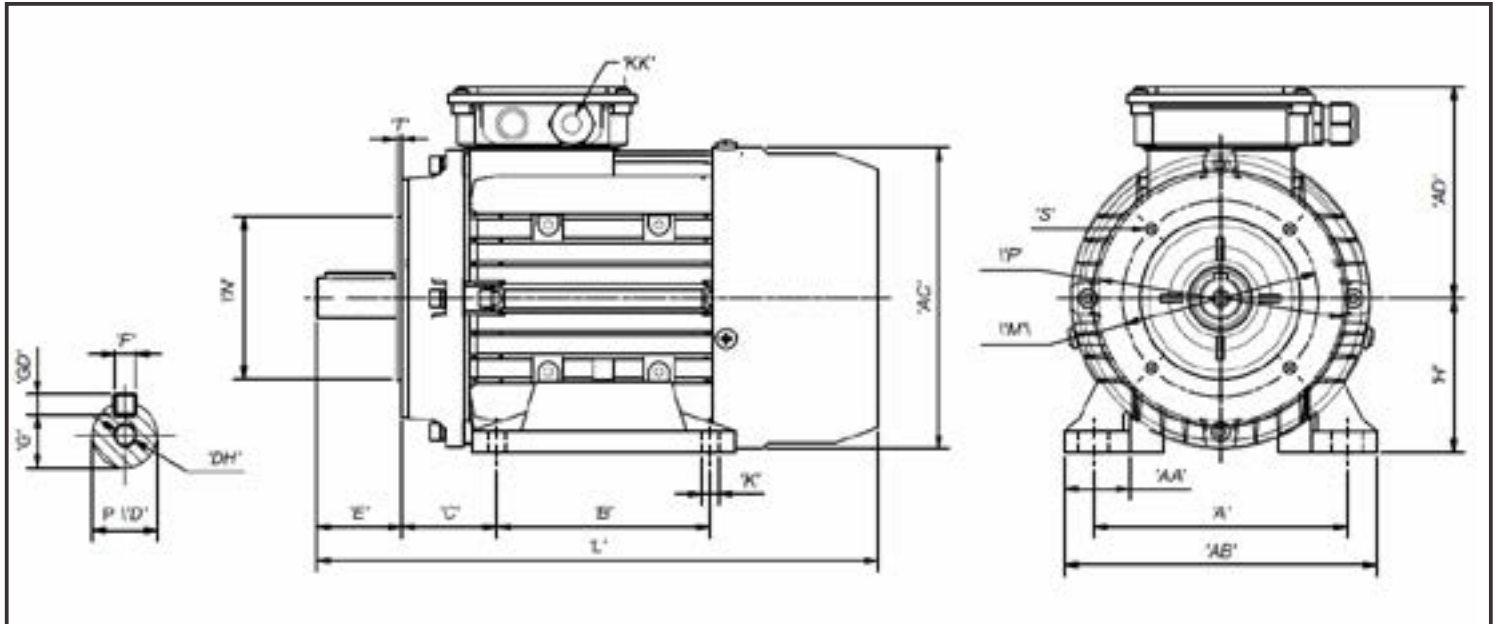
FRAME SIZE	kW	MOUNTING DIMENSIONS (mm)															kg
		AC	AD	D	DH	E	F	G	GD	KK	L	M	N	P(max)	S(min)	T	
71	0.37	138	109	14	M5x12	30	5	16	5	M20x1.5	245	130	110	160	10	3.5	6.2
71	0.55	138	109	14	M5x12	30	5	16	5	M20x1.5	245	130	110	160	10	3.5	6.3
80	0.75	157	112	19	M6x16	40	6	21.5	6	M20x1.5	275	160	130	200	12	3.5	8.3
80	1.1	157	112	19	M6x16	40	6	21.5	6	M20x1.5	275	160	130	200	12	3.5	9.0
90S	1.5	175	123	24	M8x19	50	8	27	7	M20x1.5	315	165	130	200	12	3.5	12.5
90L	2.2	175	123	24	M8x19	50	8	27	7	M20x1.5	330	165	130	200	12	3.5	14.0
100L	3.0	196	139	28	M10x22	60	8	31	7	M20x1.5	370	215	180	250	15	4	20.5
112M	4.0	220	156	28	M10x22	60	8	31	7	M25x1.5	395	215	180	250	15	4	26.0
132S	5.5	260	185	38	M12x28	80	10	41	8	M25x1.5	472	265	230	300	15	4	40.0
132S	7.5	260	185	38	M12x28	80	10	41	8	M25x1.5	472	265	230	300	15	4	44.0

OUTLINE AND INSTALLATION

Dimensions



FLANGE SPECIFICATION: B14



FRAME SIZE	kW	MOUNTING DIMENSIONS (mm)															kg
		AC	AD	D	DH	E	F	G	GD	KK	L	M	N	P(max)	S(min)	T	
71	0.37	138	109	14	M5x12	30	5	16	5	M20x1.5	245	85	70	105	M6	2.5	6.2
71	0.55	138	109	14	M5x12	30	5	16	5	M20x1.5	245	85	70	105	M6	2.5	6.3
80	0.75	157	112	19	M6x16	40	6	21.5	6	M20x1.5	275	100	80	120	M6	3	8.3
80	1.1	157	112	19	M6x16	40	6	21.5	6	M20x1.5	275	100	80	120	M6	3	9.0
90S	1.5	175	123	24	M8x19	50	8	27	7	M20x1.5	315	115	95	140	M8	3	12.5
90L	2.2	175	123	24	M8x19	50	8	27	7	M20x1.5	330	115	95	140	M8	3	14.0
100L	3.0	196	139	28	M10x22	60	8	31	7	M20x1.5	370	130	110	160	M8	3.5	20.5
112M	4.0	220	156	28	M10x22	60	8	31	7	M25x1.5	395	130	110	160	M8	3.5	26.0
132S	5.5	260	185	38	M12x28	80	10	41	8	M25x1.5	472	165	130	200	M10	3.5	40.0
132S	7.5	260	185	38	M12x28	80	10	41	8	M25x1.5	472	165	130	200	M10	3.5	44.0