

Volute pumps

LS2/LS/LM

TERAL



50Hz



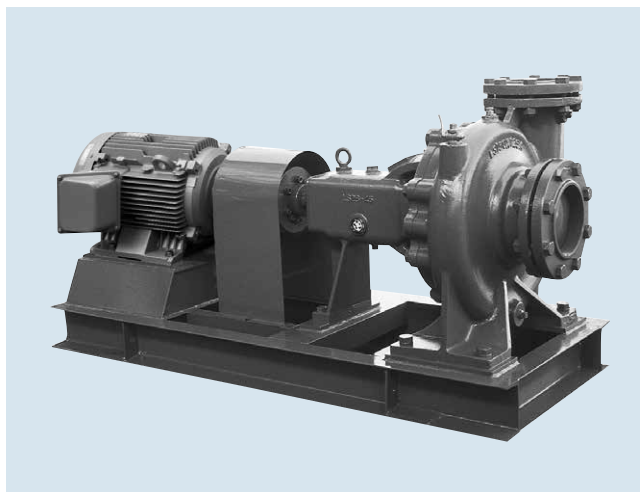
TERAL INC.

Applications

- General water supply for buildings, condominiums, etc.
- Circulation of cold/warm water
- Conveyance of industrial water, conveyance and distribution of tap water
- Irrigation and water sprinkling of paddies and fields
- Other uses

Features

- ① Energy-saving pump with a Top Runner efficiency (equivalent to IE3) motor.
- ② LS model, having a robust structure with thick casting, is 0.59MPa in allowable boost pressure.
- ③ B.P.O.(back pull-out) structure for easy disassembly and maintenance.
- ④ Durability is high enough to withstand high speed rotation through the adoption of oil bath bearing.
- ⑤ Special specification is available such as material change, external injection or mechanical seal, to be used for special purposes.
- ⑥ Operation is quiet with little runout through the adoption of AB-type coupling.



* Please note that some of the devices in the photo may differ from actual devices in coating color, etc.

Description of types

LS2 - 50 × 40 A - e

① ② ③ ④ ⑤

- ① Model LS2: 2-pole LM: 4-pole, 2-stage
LS: 4-pole
- ④ Internal code
- ⑤ Motor efficiency Top Runner efficiency (equivalent to IE3)
- ② Nominal suction diameter
- ③ Nominal discharge diameter

Standard specifications / Special specifications

— : Not available

Specifications		Standard specifications	Special specifications
Pumping liquid	Liquid quality	Fresh water	—
	Liquid temperature	0 - 90°C	0 - 90°C ^{*2}
Allowable positive pressure		LS/LS2: Refer to table of allowable positive pressure. LM: 0.29MPa	High back pressure specification 1, High back pressure specification 2
Suction method		Positive suction	Negative suction ^{*1}
Structure	Impeller	Closed	—
	Shaft seal	Gland packing	Gland packing (w/SUS304 shaft sleeve) Mechanical seal ^{*2,*3} (Ceramics vs Carbon /SiC vs Carbon) External oil feeding: In case where foreign substances are contained in the pumping liquid
	Bearing	Oil bath, open type ball bearing	—
	Gland drain	Drain hole	Cock
	Casing drain	Plug	Cock
	Coupling guard	TERAL standard	Sealed type coupling guard
Material	Impeller	CAC406	—
	Shaft	SUS403	SUS304
	Casing	LS/LS2: FC200 LS-125X100C, 200X150B · C · D, 250X200B · C: FCD450 LM: FCD450	—
	Others	—	Main section: SUS ^{*3} , All steel made ^{*3}
Motor	Efficiency	Top Runner efficiency (equivalent to IE3)	—
	Starting method	Direct-on-line start: 7.5kW or less Star-delta start: 11kW or more	—
	Type	Totally enclosed fan-cooled outdoor type 0.75kW or less Totally enclosed fan-cooled indoor type 1.5kW or more	Totally enclosed fan-cooled outdoor type: 1.5kW or more
	Power source	3-phase 200V	3-phase 400/440V
	Synchronous rotation speed	LS2: 3000min ⁻¹ , LS/LM: 1500min ⁻¹	—
Piping connection		JIS10K standard, JIS20K for LS/LM discharge flange	JIS20K standard (high back pressure specification 1, 2) ^{*3}
Lubricating oil		Turbine oil #32	—
Paint	Paint color	7.5BG5/1.5	Specified color for outer surface
	Painting type	TERAL standard painting	Salt-resistant paint Heavy-duty salt-resistant paint Japan Sewage Works Agency specification

*Please note that in case of special specifications, the assembly drawings, etc., may differ from the standard drawing.

*1 Refer to the selection chart for total suction head (at 20°C). In case of negative suction, self water feeding is applied.

*2 The available liquid temperature for the mechanical seal is 0 - 60°C. Contact us if the temperature is higher than 60°C.

*3 It is available for LS/LS2. Contact us for special specifications regarding LM.

Standard accessories

Common base	1
Priming plug (w/cock)	1
Coupling	1 set
Coupling guard	1

*Standard accessories are included in the product components.

Special accessories

Foot valve
Suction cover
Sluice valve, check valve
Companion flange (packing, bolt and nut included)
Pipe reducer
Vibration isolator
Pressure gauge, compound gauge (with cock and pipes)
Vibration isolation joint
Anchor bolt

Table of allowable positive pressure

●LS2

Specifications		Standard specification	Mechanical seal specification	High back pressure specification	
Flange standard (MPa)	Suction	10K	10K	10K	20K
	Discharge	10K	10K	20K	20K
Casing material		FC200	FC200	FCD450	FCD450
Shaft seal		Gland packing	Mechanical seal	Mechanical seal	Mechanical seal
Mechanical seal type		—	AAB10-JAA00	AAB10-JAA00	AAB10-KAX00
Mechanical seal sliding material		—	CERAMIC VS CARBON	CERAMIC VS CARBON	SIC VS CARBON
Max. allowable temperature		90°C	60°C	60°C	60°C

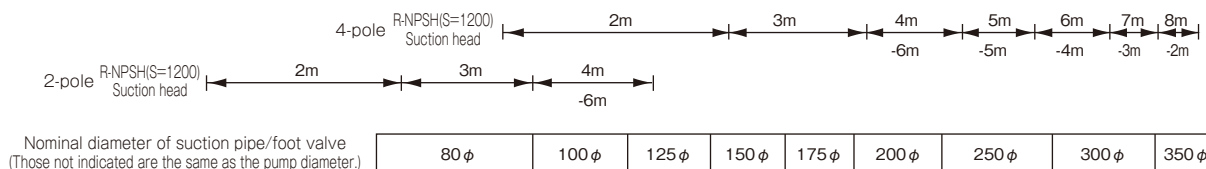
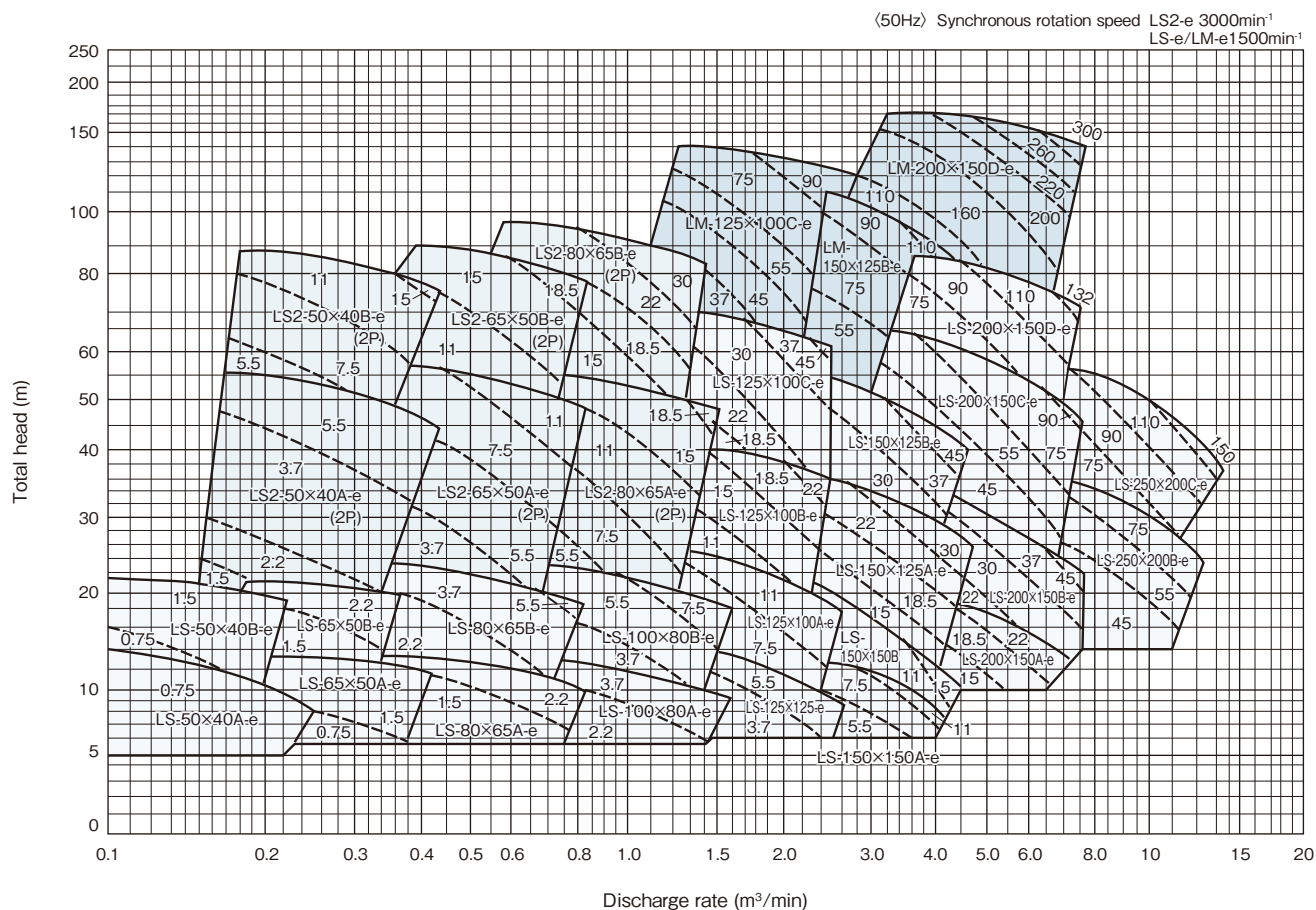
Type	Output (kW)	Allowable positive pressure (MPa)			
		Standard specification	Mechanical seal specification	High back pressure specification	
				Specification 1	Specification 2
LS2-50X40A-e	1.5	0.59	1.02	1.37	2.15
	2.2	0.59	0.97	1.37	2.10
	3.7	0.59	0.78	1.37	1.91
	5.5	0.59	0.68	1.31	1.81
LS2-50X40B-e	5.5	0.59	0.63	1.26	1.76
	7.5	0.48	0.48	1.11	1.61
	11	0.38	0.38	1.01	1.51
	15	0.38	0.38	1.01	1.51
LS2-65X50A-e	3.7	0.59	0.92	1.37	2.05
	5.5	0.59	0.83	1.37	1.96
	7.5	0.59	0.68	1.31	1.81
	11	0.59	0.68	1.31	1.81
LS2-65X50B-e	11	0.48	0.48	1.11	1.61
	15	0.38	0.38	1.01	1.51
	18.5	0.38	0.38	1.01	1.51
LS2-80X65A-e	5.5	0.59	0.97	1.37	2.10
	7.5	0.59	0.87	1.37	2.00
	11	0.59	0.78	1.37	1.91
	15	0.59	0.73	1.36	1.86
	18.5	0.59	0.73	1.36	1.86
LS2-80X65B-e	15	0.58	0.58	1.21	1.71
	18.5	0.48	0.48	1.11	1.61
	22	0.34	0.34	0.97	1.47
	30	0.34	0.34	0.97	1.47

●LS

Specifications		Standard specification	Mechanical seal specification	High back pressure specification	
Flange standard (MPa)	Suction	10K	10K	10K	20K
	Discharge	10K	10K	20K	20K
Casing material		FC200	FC200	FCD450	FCD450
Shaft seal		Gland packing	Mechanical seal	Mechanical seal	Mechanical seal
Mechanical seal type		—	AAB10-JAA00	AAB10-JAA00	AAB10-KAX00
Mechanical seal sliding material		—	CERAMIC VS CARBON	CERAMIC VS CARBON	SIC VS CARBON
Max. allowable temperature		90°C	60°C	60°C	60°C

Type	Output (kW)	Allowable positive pressure (MPa)			
		Standard specification	Mechanical seal specification	High back pressure specification	
				Specification 1	Specification 2
LS-50X40A-e	0.75	0.59	1.12	1.37	2.25
	0.75	0.59	1.12	1.37	2.25
LS-50X40B-e	1.5	0.59	1.02	1.37	2.15
	0.75	0.59	1.22	1.37	2.35
LS-65X50A-e	1.5	0.59	1.12	1.37	2.25
	1.5	0.59	1.07	1.37	2.20
LS-65X50B-e	2.2	0.59	1.02	1.37	2.15
	1.5	0.59	1.17	1.37	2.30
LS-80X65A-e	2.2	0.59	1.12	1.37	2.25
	2.2	0.59	1.07	1.37	2.20
LS-80X65B-e	3.7	0.59	1.02	1.37	2.15
	5.5	0.59	1.02	1.37	2.15
LS-100X80A-e	2.2	0.59	1.17	1.37	2.30
	3.7	0.59	1.12	1.37	2.25
LS-100X80B-e	3.7	0.59	1.12	1.37	2.25
	5.5	0.59	1.07	1.37	2.20
LS-125X125-e	7.5	0.59	1.07	1.37	2.20
	3.7	0.59	1.17	1.37	2.30
LS-125X100A-e	5.5	0.59	1.12	1.37	2.25
	7.5	0.59	1.07	1.37	2.25
LS-125X100B-e	11	0.59	1.07	1.37	2.20
	11	0.59	1.37	1.37	2.15
	11	0.59	0.97	1.37	2.10
	15	0.59	0.87	1.37	2.00
LS-125X100C-e	18.5	0.59	0.87	1.37	2.00
	22	0.59	0.87	1.37	2.00
	18.5	0.59	0.83	1.37	1.96
	22	0.59	0.68	1.31	1.81
	30	0.58	0.58	1.21	1.71
	37	0.58	0.58	1.21	1.71
LS-150X150A-e	45	0.58	0.58	1.21	1.71
	5.5	0.59	1.17	1.37	2.30
	7.5	0.59	1.12	1.37	2.25
LS-150X150B-e	11	0.59	1.12	1.37	2.25
	11	0.59	1.07	1.37	2.20
LS-150X125A-e	15	0.59	1.07	1.37	2.20
	15	0.59	1.07	1.37	2.20
	15	0.59	1.02	1.37	2.15
	18.5	0.59	0.97	1.37	2.10
LS-150X125B-e	22	0.59	0.92	1.37	2.05
	30	0.59	0.92	1.37	2.05
	30	0.59	0.78	1.37	1.91
LS-200X150A-e	37	0.59	0.73	1.36	1.86
	45	0.59	0.73	1.36	1.86
	15	0.59	1.12	1.37	2.25
LS-200X150B-e	18.5	0.59	1.07	1.37	2.20
	22	0.59	1.02	1.37	2.15
	22	0.59	1.07	1.37	2.20
LS-200X150C-e	30	0.59	0.97	1.37	2.10
	37	0.59	0.92	1.37	2.05
	45	0.59	0.92	1.37	2.05
	45	0.59	0.73	1.36	1.86
LS-200X150D-e	55	0.59	0.63	1.26	1.76
	75	0.59	0.63	1.26	1.76
	90	0.59	0.63	1.26	1.76
LS-250X200B-e	75	0.48	0.48	1.11	1.61
	90	0.43	0.43	1.06	1.56
LS-250X200C-e	45	0.59	0.97	1.37	2.10
	55	0.59	0.92	1.37	2.05
LS-250X200D-e	75	0.59	0.92	1.37	2.05
	75	0.59	0.78	1.37	1.91
LS-250X200E-e	90	0.59	0.73	1.36	1.86

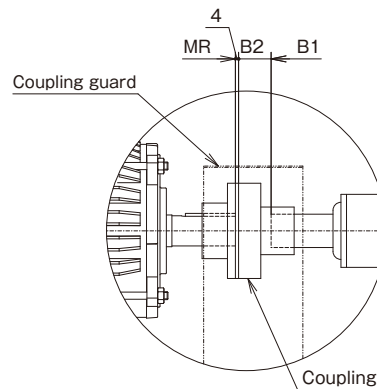
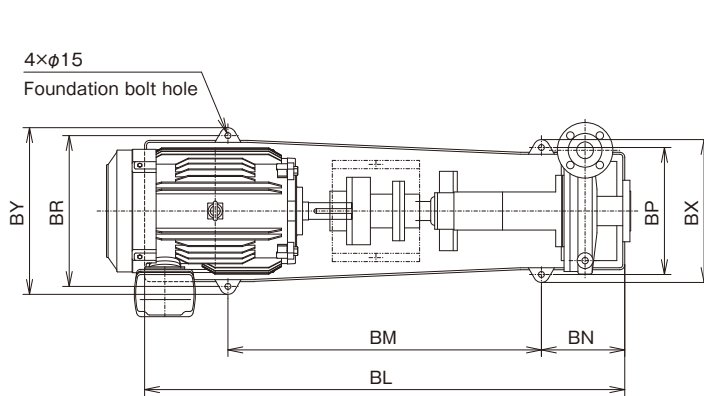
■ Selection chart



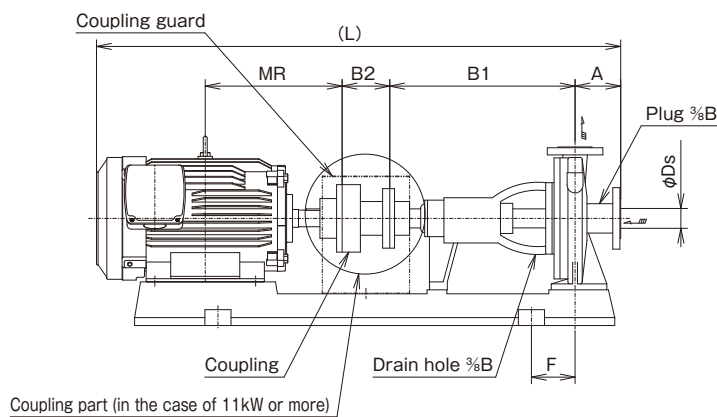
- Note) 1. Since LS-e model pumps have no limit-load characteristics, if they are operated exceeding the required water volume, horsepower may be exceeded, or cavitation may occur. Therefore, inform us of the precise water volume and head for inquiry.
2. For LS-e model pumps, the selected water volume range on each nominal diameter is larger than the JIS water volume range. Therefore, decide the water pipe diameter separately from the nominal diameter of the pump.

Assembly drawing

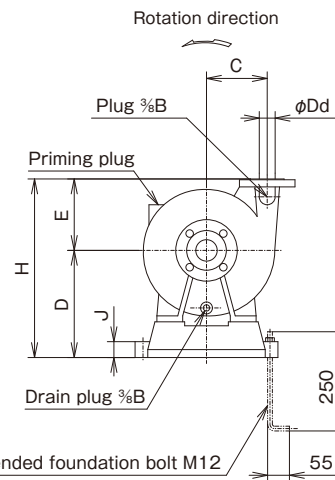
Flange dimensions: JIS 10K standard type or equivalent



Coupling part (in the case of 7.5kW or less)



Coupling part (in the case of 11kW or more)



Recommended foundation bolt M12

Note) Overall length dimensions, approximate mass and terminal box position may vary depending on the motor manufacturer.
A coupling guard is a standard accessory.

Dimensions

(Unit: mm)

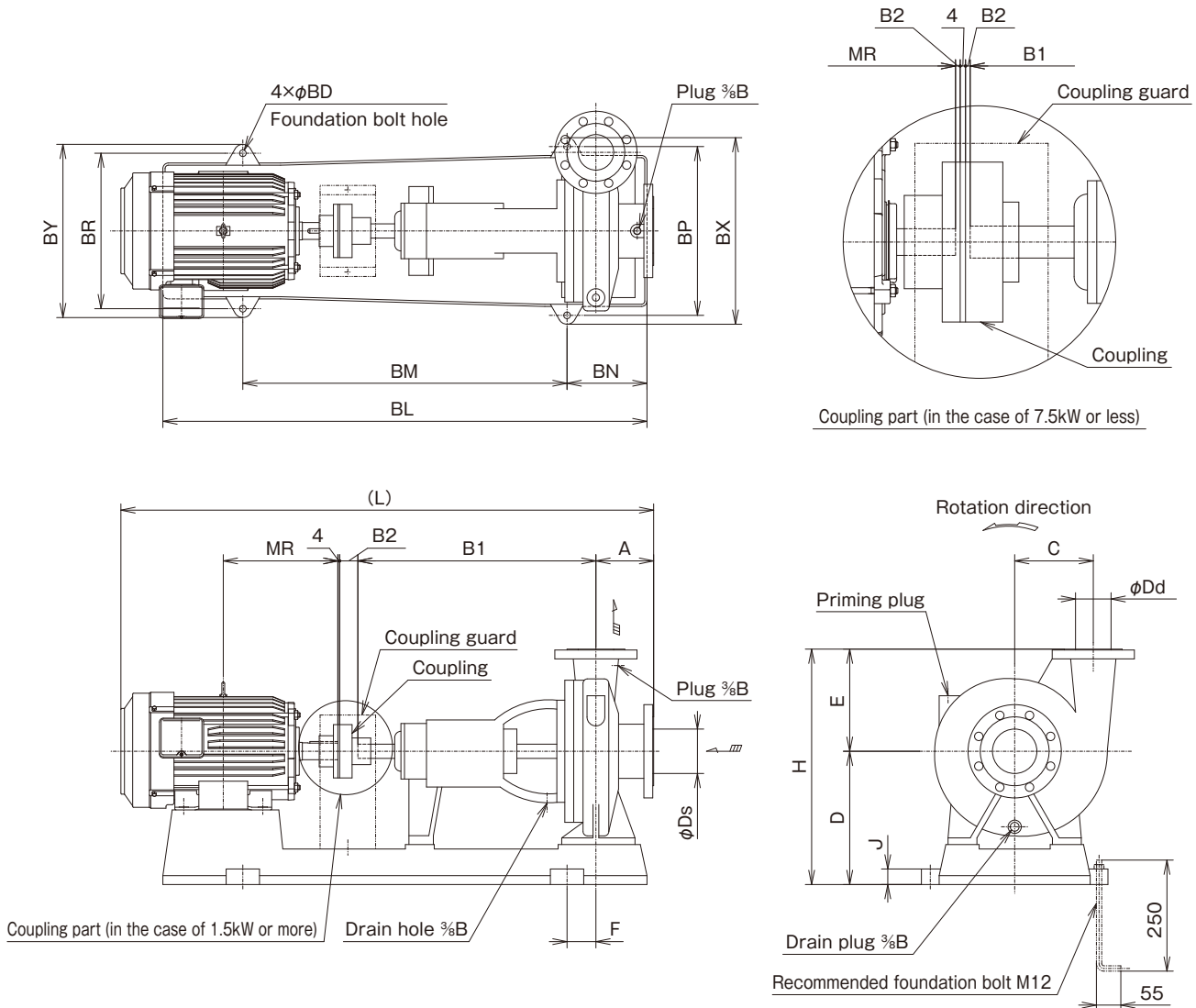
Nominal diameter		Type	Output kW	Pump/Motor										Common base								Approx. mass kg
Ds	Dd			A	B1	B2	C	D	E	F	H	L	MR	J	BL	BM	BN	BP	BR	BX	BY	
50	40	LS2-50×40A-e	1.5	115	467	7	134	270	170	20	440	905	169	40	850	610	120	320	250	360	290	99
			2.2	115	467	7	134	270	170	20	440	905	169	40	850	610	120	320	250	360	290	109
			3.7	115	467	7	134	270	170	50	440	974	200	40	900	600	150	320	320	360	360	129
			5.5	115	467	41	134	270	170	50	440	1078	239	40	1010	710	150	320	330	360	370	160
		LS2-50×40B-e	5.5	115	467	41	153	270	180	50	450	1078	239	40	1010	710	150	320	330	360	370	173
			7.5	115	467	41	153	270	180	50	450	1078	239	40	1010	710	150	320	330	360	370	175
			11	115	467	120	153	270	180	110	450	1346	323	40	1210	790	210	320	380	360	420	269
			15	115	467	120	153	270	180	110	450	1346	323	40	1210	790	210	320	380	360	420	266
65	50	LS2-65×50A-e	3.7	115	467	7	139	270	180	50	450	974	200	40	900	600	150	320	320	360	360	137
			5.5	115	467	41	139	270	180	50	450	1078	239	40	1010	710	150	320	330	360	370	168
			7.5	115	467	41	139	270	180	50	450	1078	239	40	1010	710	150	320	330	360	370	170
			11	115	467	120	139	270	180	110	450	1346	323	40	1210	790	210	320	380	360	420	265
		LS2-65×50B-e	11	115	467	120	160	270	195	110	465	1346	323	40	1210	790	210	320	380	360	420	285
			15	115	467	120	160	270	195	110	465	1346	323	40	1210	790	210	320	380	360	420	282
			18.5	115	467	120	160	270	195	110	465	1376	345	40	1210	790	210	320	380	360	420	307
			5.5	120	467	41	145	270	210	50	480	1083	239	40	1010	710	150	320	330	360	370	181
80	65	LS2-80×65A-e	7.5	120	467	41	145	270	210	50	480	1083	239	40	1010	710	150	320	330	360	370	183
			11	120	467	120	145	270	210	110	480	1351	323	40	1210	790	210	320	380	360	420	278
			15	120	467	120	145	270	210	110	480	1351	323	40	1210	790	210	320	380	360	420	275
			18.5	120	467	120	145	270	210	110	480	1381	345	40	1210	790	210	320	380	360	420	300
		LS2-80×65B-e	15	125	536	120	163	300	220	87	520	1425	323	35	1310	890	210	400	400	440	440	298
			18.5	125	536	120	163	300	220	87	520	1455	345	35	1310	890	210	400	400	440	440	323
			22	125	536	120	163	320	220	97	540	1454	352	40	1350	930	210	380	460	430	510	354
			30	125	536	120	163	320	220	97	540	1492	371	40	1350	930	210	380	460	430	510	427

* Mounting dimensions are compatible with LS2 model (product equipped with totally enclosed fan-cooled IE1 motor). Also the motor frame number is the same. Therefore, replacement with a Top Runner efficiency (equivalent to IE3) motor is possible. However, please keep the following point in mind. The number of revolutions will increase because of the characteristics of the motor, which may cause the flow rate to exceed the rated current value. Please adjust the flow rate to use the motor within the rated current value.

* For products equipped with a drip-proof protected type motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

Assembly drawing

Flange dimensions: JIS 10K standard type or equivalent



Dimensions

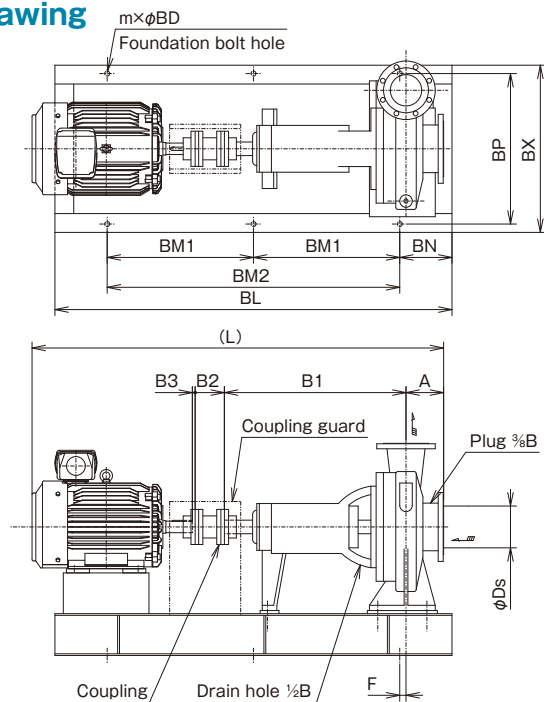
(Unit: mm)

Nominal diameter		Type	Output kW	Pump/Motor										Common base										Approx. mass kg
Ds	Dd			A	B1	B2	C	D	E	F	H	L	MR	J	BD	BL	BM	BN	BP	BR	BX	BY		
50	40	LS-50×40A-e	0.75	115	467	3.5	134	270	170	20	440	855	140	40	15	815	575	120	320	255	360	295	88	
		LS-50×40B-e	0.75	115	467	3.5	153	270	180	20	450	855	140	40	15	815	575	120	320	255	360	295	104	
			1.5	115	467	7	153	270	180	20	450	899	169	40	15	850	610	120	320	250	360	290	109	
65	50	LS-65×50A-e	0.75	115	467	3.5	139	270	180	20	450	855	140	40	15	815	575	120	320	255	360	295	99	
			1.5	115	467	7	139	270	180	20	450	899	169	40	15	850	610	120	320	250	360	290	104	
		LS-65×50B-e	1.5	115	467	7	160	270	195	20	465	899	169	40	15	850	610	120	320	250	360	290	124	
			2.2	115	467	35	160	270	195	20	465	987	193	40	16	925	645	120	320	300	360	340	140	
80	65	LS-80×65A-e	1.5	120	467	7	145	270	210	20	480	904	169	40	15	850	610	120	320	250	360	290	117	
			2.2	120	467	35	145	270	210	20	480	992	193	40	16	925	645	120	320	300	360	340	133	
		LS-80×65B-e	2.2	125	536	25	163	300	220	35	520	1056	193	35	15	990	690	150	380	300	420	340	151	
			3.7	125	536	35	163	300	220	35	520	1081	200	35	15	1018	718	150	380	320	420	360	165	
			5.5	125	536	41	163	300	220	35	520	1157	239	35	15	1090	730	180	380	350	420	390	197	
100	80	LS-100×80A-e	2.2	125	536	25	153	300	220	35	520	1056	193	35	15	990	690	150	380	300	420	340	151	
			3.7	125	536	35	153	300	220	35	520	1081	200	35	15	1018	718	150	380	320	420	360	165	
		LS-100×80B-e	3.7	130	536	35	177	300	230	35	530	1086	200	35	15	1018	718	150	380	320	420	360	185	
			5.5	130	536	41	177	300	230	65	530	1162	239	35	15	1090	730	180	380	350	420	390	217	
			7.5	130	536	41	177	300	230	65	530	1200	258	35	15	1090	730	180	380	350	420	390	221	

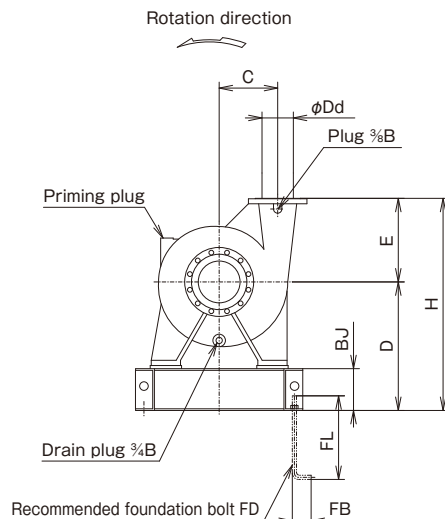
* Mounting dimensions are compatible with LS model (product equipped with totally enclosed fan-cooled IE1 motor). Also the motor frame number is the same. Therefore, replacement with a Top Runner efficiency (equivalent to IE3) motor is possible. However, please keep the following point in mind. The number of revolutions will increase because of the characteristics of the motor, which may cause the flow rate to exceed the rated current value. Please adjust the flow rate to use the motor within the rated current value.

* For products equipped with a drip-proof protected type motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

■ Assembly drawing



Flange dimensions: JIS 10K standard type or equivalent



Note) Overall length dimensions, approximate mass and terminal box position may vary depending on the motor manufacturer. A coupling guard is a standard accessory.

■ Dimensions

(Unit: mm)

Nominal diameter		Type	Output kW	Pump/Motor										Common base						Foundation bolt				Approx. mass kg				
Ds	Dd			A	B1	B2	B3	C	D	E	F	H	L	BD	BJ	BL	BM1	BM2	BN	BP	BX	m	FB		FD	FL		
125	125	LS-125×125-e	3.7	140	577	42	0	175	375	220	40	595	1143	15	100	1110	-	710	200	460	500	4	55	M12	250	249		
			5.5	140	577	41	0	175	400	220	30	620	1213	15	125	1200	-	800	200	460	520	4	55	M12	250	295		
	100	LS-125×100A-e	7.5	140	574	41	0	185	400	240	30	640	1248	15	125	1200	-	800	200	460	520	4	55	M12	250	294		
			11	140	574	120	6	185	400	240	30	640	1484	15	125	1400	-	1000	200	460	520	4	55	M12	250	377		
		LS-125×100B-e	11	160	597	120	6	210	440	310	75	750	1527	19	125	1450	-	950	250	550	610	4	70	M16	315	451		
			15	160	597	120	6	210	440	310	75	750	1557	19	125	1450	-	950	250	550	610	4	70	M16	315	458		
			18.5	160	597	120	6	210	440	310	75	750	1556	19	125	1480	-	980	250	550	610	4	70	M16	315	494		
			22	160	597	120	6	210	440	310	75	750	1558	19	125	1480	-	980	250	550	610	4	70	M16	315	511		
		LS-125×100C-e	18.5	180	647	120	6	260	450	400	75	850	1626	19	125	1520	-	1020	250	550	610	4	70	M16	315	555		
			22	180	647	120	8	260	450	400	75	850	1628	19	125	1520	-	1020	250	550	610	4	70	M16	315	570		
	30		180	647	120	8	260	450	400	75	850	1666	19	125	1520	-	1020	250	550	610	4	70	M16	315	595			
	37		180	647	140	0	260	475	400	65	875	1839	19	125	1640	-	1140	250	560	630	4	70	M16	315	676			
150	150	LS-150×150A-e	45	180	647	140	0	260	475	400	65	875	1839	19	150	1640	-	1140	250	560	630	4	70	M16	315	693		
			5.5	160	577	41	0	200	400	250	30	650	1233	15	125	1200	-	800	200	460	520	4	55	M12	250	311		
		LS-150×150B-e	7.5	160	577	41	0	200	400	250	30	650	1271	15	125	1200	-	800	200	460	520	4	55	M12	250	315		
			11	160	577	120	6	200	400	250	30	650	1507	15	125	1400	-	1000	200	460	520	4	55	M12	250	398		
	125	LS-150×150B-e	11	160	577	120	6	200	400	260	30	660	1507	15	125	1400	-	1000	200	460	520	4	55	M12	250	390		
			15	160	577	120	6	200	400	260	30	660	1537	15	125	1400	-	1000	200	460	520	4	55	M12	250	397		
			15	160	595	120	6	235	440	270	75	710	1555	19	125	1450	-	950	250	550	610	4	70	M16	315	466		
			18.5	160	595	120	6	235	440	270	75	710	1554	19	125	1480	-	980	250	550	610	4	70	M16	315	502		
		LS-150×125A-e	22	160	595	120	8	235	440	270	75	710	1556	19	125	1480	-	980	250	550	610	4	70	M16	315	519		
			30	160	595	120	8	235	440	270	75	710	1594	19	125	1480	-	980	250	550	610	4	70	M16	315	544		
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			37	180	647	140	0	250	475	310	65	785	1839	19	150	1640	-	1140	250	560	630	4	70	M16	315	659		
200	150	LS-150×125B-e	45	180	647	140	0	250	475	310	65	785	1839	19	150	1640	-	1140	250	560	630	4	70	M16	315	676		
			15	180	610	120	6	230	440	290	75	730	1590	19	125	1450	-	950	250	550	610	4	70	M16	315	465		
		LS-200×150A-e	18.5	180	610	120	6	230	440	290	75	730	1589	19	125	1480	-	980	250	550	610	4	70	M16	315	501		
			22	180	610	120	8	230	440	290	75	730	1591	19	125	1480	-	980	250	550	610	4	70	M16	315	518		
	200	LS-200×150B-e	22	180	647	120	8	250	450	300	75	750	1628	19	125	1520	-	1020	250	550	610	4	70	M16	315	559		
			30	180	647	120	8	250	450	300	75	750	1666	19	125	1520	-	1020	250	550	610	4	70	M16	315	584		
			37	180	647	140	0	250	475	300	65	775	1839	19	150	1640	-	1140	250	560	630	4	70	M16	315	665		
			45	180	647	140	0	250	475	300	65	775	1839	19	150	1640	-	1140	250	560	630	4	70	M16	315	682		
		LS-200×150C-e	45	180	869	140	0	280	615	400	30	1015	2061	19	200	1900	700	-	250	720	800	6	90	M20	400	983		
			55	180	869	140	0	280	615	400	30	1015	2070	19	200	1920	710	-	250	720	800	6	90	M20	400	1092		
			75	180	869	140	0	280	620	400	30	1020	2207	24	200	1990	745	-	250	720	800	6	90	M20	400	1350		
			90	180	869	180	0	280	620	400	30	1020	2247	24	200	1990	745	-	250	720	800	6	90	M20	400	1400		
LS-200×150D-e	75	200	869	140	0	310	620	410	30	1030	2227	24	200	1990	745	-	250	720	800	6	90	M20	400	1365				
	90	200	869	180	0	310	620	410	30	1030	2267	24	200	1990	745	-	250	720	800	6	90	M20	400	1435				
250	200	LS-250×200B-e	110	200	Please contact us																							
			45	200	867	140	0	290	615	350	30	965	2079	24	200	1900	700	-	250	720	800	6	90	M20	400	1006		
		55	200	867	140	0	290	615	350	30	965	2088	24	200	1920	710	-	250	720	800	6	90	M20	400	1115			
		75	200	867	140	0	290	620	350	30	970	2225	24	200	1990	745	-	250	720	800	6	90	M20	400	1325			
		LS-250×200C-e	75	200	867	140	0	320	620	380	30	1000	2225	24	200	1990	745	-	250	720	800	6	90	M20	400	1360		
			90	200	867	180	0	320	620	380	30	1000	2265	24	200	1990	745	-	250	720	800	6	90	M20	400	1410		
		LS-250×200D-e	110	200	Please contact us																							
			45	200	867	140	0	290	615	350	30	965	2079	24	200	1900	700	-	250	720	800	6	90	M20	400	1006		
		250	250	LS-250×250B-e	55	200	867	140	0	290	615	350	30	965	2088	24	200	1920	710	-	250	720	800	6	90	M20	400	1115
					75	200	867	140	0	290	620	350	30	970	2225	24	200	1990	745	-	250	720	800	6	90	M20	400	1325

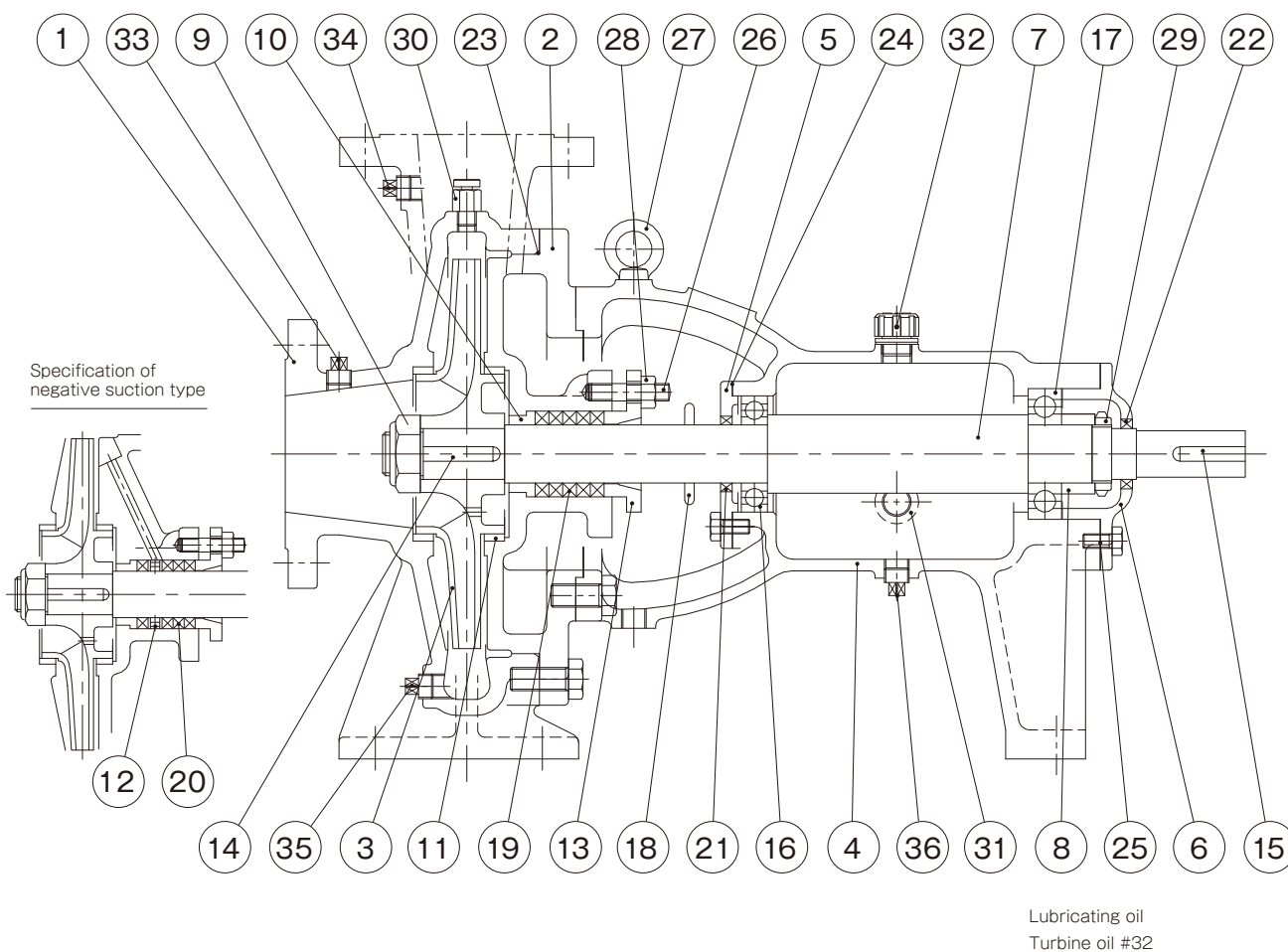
* Mounting dimensions are compatible with LS model (product equipped with totally enclosed fan-cooled IE1 motor). Also the motor frame number is the same. Therefore, replacement with a Top Runner efficiency (equivalent to IE3) motor is possible. However, please keep the following point in mind. The number of revolutions will increase because of the characteristics of the motor, which may cause the flow rate to exceed the rated current value. Please adjust the flow rate to use the motor within the rated current value.

* For products equipped with a drip-proof protected type motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

*Please contact TERAL INC. for LM type assembly drawing.

Example of sectional drawing

●LS-50×40B-e



Parts list

No.	Part name	Qty	Material
1	Casing	1	FC200
2	Casing cover	1	FC200
3	Impeller	1	CAC406
4	Bearing case	1	FC200
5	Bearing cover	1	FC200
6	Bearing cover	1	FC200
7	Shaft	1	SUS403
8	Bearing collar	1	CAC406
9	Impeller nut	1	SUS304
10	Packing bush	1	CAC406
11	Liner ring	2	CAC406
12	Lantern ring	1	CAC406
13	Packing retainer	1	CAC202
14	Key	1	SUS304
15	Key	1	S45C
16	Ball bearing	1	SUJ2
17	Ball bearing	1	SUJ2
18	Deflector	1	CR

No.	Part name	Qty	Material
19	Gland packing	3+2	—
20	Gland packing	4	—
21	Oil seal	1	NBR
22	Oil seal	1	NBR
23	O-ring	1	NBR
24	Sheet packing	1	Synthetic paper
25	Sheet packing	1	Synthetic paper
26	Stud bolt	2	SUS304
27	Eyebolt	1	SS400
28	Hexagon nut	2	SUS304
29	Bearing nut	1	SS400
30	Air vent plug	1	C3604BD
31	Oil gauge	1	PC
32	Oil filler plug	1	PA
33	Plug	1	SWCH
34	Plug	1	SWCH
35	Drain plug	1	SWCH
36	Drain plug	1	SWCH

This image shows a full page of a handwriting practice worksheet. It consists of multiple rows of horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no other markings or text present.

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