

## HORIZONTAL SPLIT CASING PUMPS



### APPLICATIONS

- Water supply
- Hot and cold water circulation
- For cooling tower
- Irrigation
- Industrial use
- Drainage
- Sprinkling
- Air-conditioning
- For swimming pool

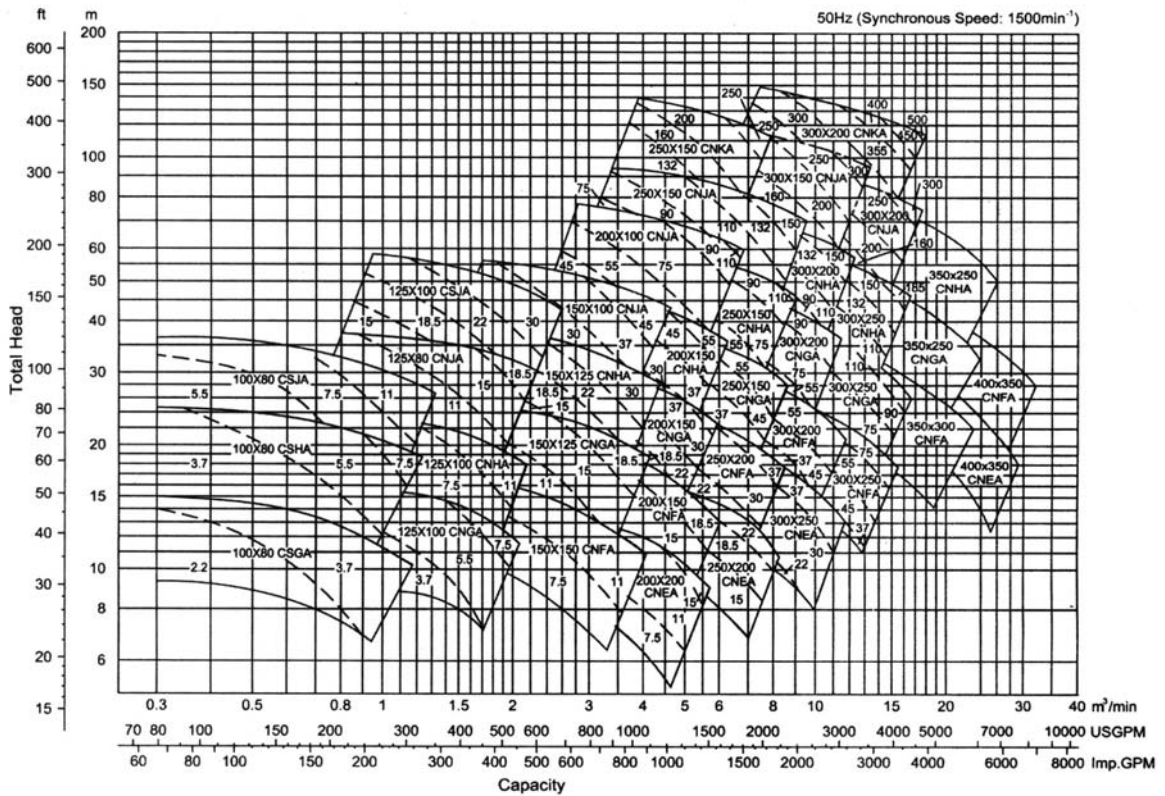
### FEATURES

- Very compact design for easy installation and permits minimum maintenance
- Axially split casing allows the easy removal of the top casing for inspection and service
- A wider range of performance with head up to 150m
- High speed drives and vertical mount available
- Anti-corrosion materials used on the rotating parts
- High quality sealed and cartridge type bearing units provide high durability
- High allowable working pressure can ensure stable running
- Mechanical seal for easy maintenance

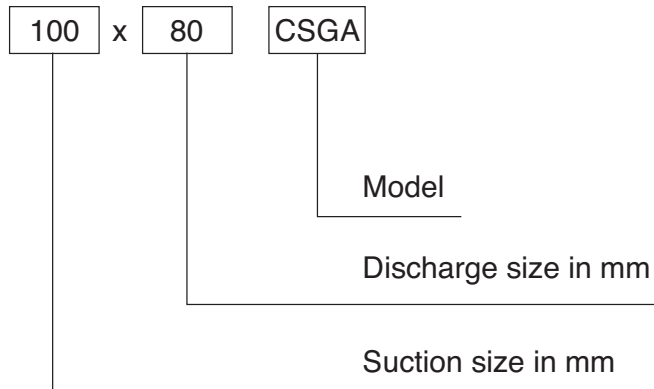
### SPECIFICATIONS

Description		Standard	Optional	
Model		CSA/CNA		
Liquid handled	Type of liquid	Clean water, industrial water, river water		
	Temperatures	Below 80°C (176°F)	81°C-120°C (177°F-248°F) (only applicable for Mechanical Seal Models)	
Max. Working Pressure		16 bar (16.3kgf/cm <sup>2</sup> )		
Construction	Shaft Seal	Mechanical Seal	Gland Packing	Mechanical Seal
	Bearing	Ball Bearing		
	Lubrication	Grease		
Material	Casing	Cast Iron	Ductile Cast Iron (FCD)	
	Impeller	Bronze (except 300 x 200 CNKA)		SCS 13, SCS 14
		SCS 13 for 300 x 200 CNKA		
	Shaft	SUS 316	SUS 403	SUS304
Shaft Sleeve		Bronze	Bronze	
Flange	Suction	JIS 16 KRF		
	Discharge	JIS 16 KRF		
Accessories				
Standard		Air vent piping, M. Seal or G. Packing, flushing water piping, Lift bolts Drain piping (only applicable for G. Packing models)		
Option		Common base, Anchor bolts, Shaft coupling, Coupling guard		

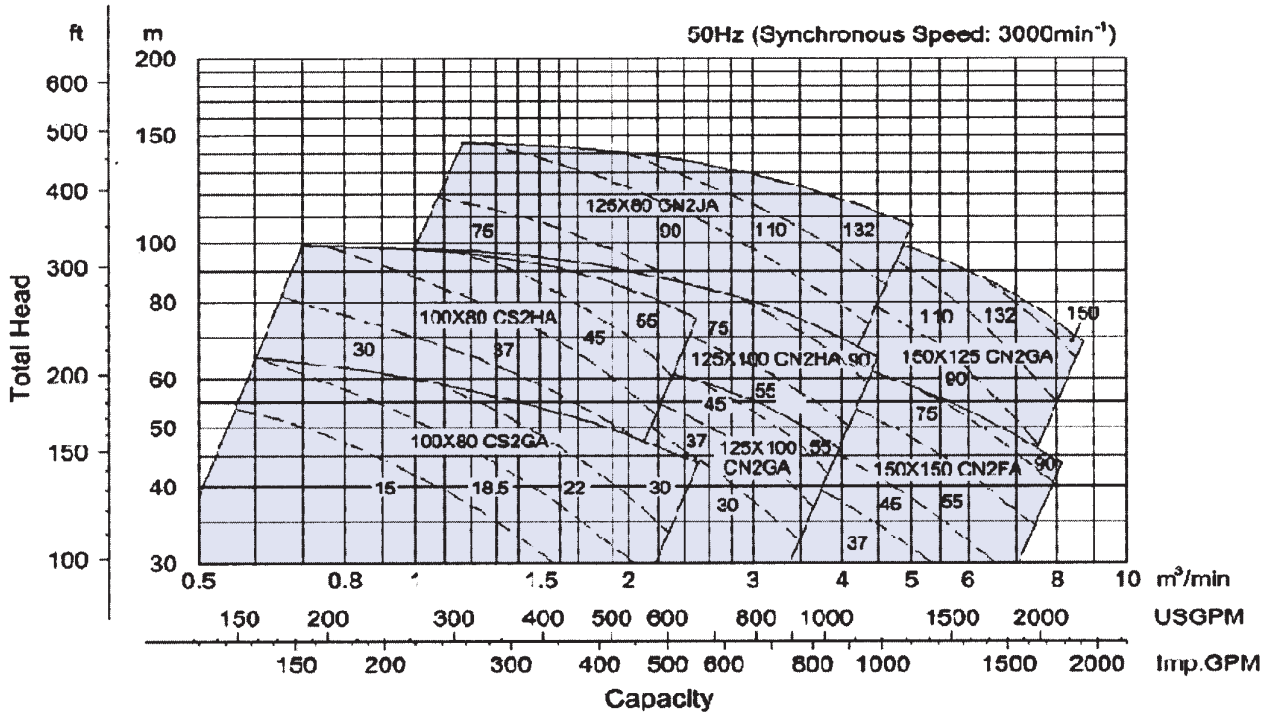
## PERFORMANCE CHART - 4 POLES



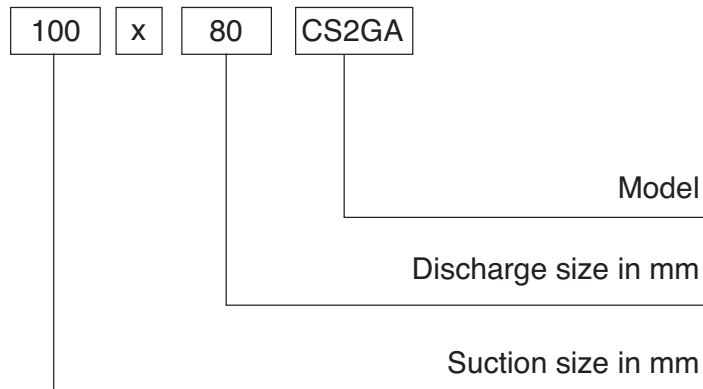
## MODEL CODE



## PERFORMANCE CHART - 2 POLES



## MODEL CODE



## TECHNICAL DATA - Allowable Pressure and Material

Model	Allowable Pressure for Casing					Material		
	Hydro Test Press	Max. Working Pressure		Max. Suction Pressure		Casing	Impeller	Shaft
	kg	kg	psi	kg	psi		Standard	Standard
100 X 80 CSGA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
100 X 80 CSHA								
100 X 80 CSJA								
125 X 100 CSJA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
125 X 100 CNGA								
125 X 100 CNHA								
125 X 80 CNJA								
150 X 150 CNFA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
150 X 150 CNGA								
150 X 125 CNHA								
150 X 100 CNJA								
200 X 200 CNEA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
200 X 150 CNFA								
200 X 150 CNGA								
200 X 150 CNHA								
200 X 100 CNJA								
250 X 200 CNEA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
250 X 200 CNFA								
250 X 150 CNGA								
250 X 150 CNHA								
250 X 150 CNJA								
250 X 150 CNKA								
300 X 250 CNEA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
300 X 250 CNFA								
300 X 200 CNGA								
300 X 200 CNHA								
300 X 150 CNJA								
300 X 250 CNFA								
300 X 250 CNGA								
300 X 250 CNHA								
300 X 200 CNJA								
300 X 200 CNKA								
							Stainless Steel	
350 X 300 CNFA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
350 X 250 CNGA								
350 X 250 CNHA								
400 X 350 CNEA	24	16	230	10	143	Cast Iron	Bronze	Stainless Steel
400 X 350 CNFA								

## TECHNICAL DATA - Allowable Maximum Speed

Model	Allowable Speed	
	Standard Speed	Optional Speed
100 X 80 CSGA	3000	-
100 X 80 CSHA		
100 X 80CSJA	1500	*2000
125 X 100 CSJA		
125 X 100 CNGA	3000	-
125 X 100 CNHA		
125 X 80 CNJA	1500	*3000
150 X 150 CNFA	3000	-
150 X 150 CNGA		
150 X 125 CNHA	1500	*2000
150 X 100 CNJA		
200 X 200 CNEA	1500	*2000
200 X 150 CNFA		-
200 X 150 CNGA		*2000
200 X 150 CNHA		
200 X 100 CNJA		
250 X 200 CNEA	1500	-
250 X 200 CNFA		*2000
250 X 150 CNGA		-
250 X 150 CNHA		
250 X 150 CNJA		
250 X 150 CNKA		
300 X 250 CNEA	1500	-
300 X 250 CNFA		
300 X 200 CNGA		
300 X 200 CNHA		
300 X 150 CNJA		
300 X 250 CNFA		
300 X 250 CNGA		
300 X 250 CNHA		
300 X 200 CNJA		
300 X 200 CNKA		
350 X 300 CNFA		
350 X 250 CNGA		
350 X 250 CNHA		
400 X 350 CNEA	1500	-
400 X 350 CNFA		

Remark :

1. Standard Speed

Pump can be operated and runs continuously.

2. Optional Speed

Limit application which will be used for temporary operations such as fire fighting or emergency stand by application through diesel engine driven.

\*This speed is available for "Gland packing version" only.

As for mechanical seal, it should be 1500 min<sup>-1</sup> (r.p.m.) and below.

**TECHNICAL DATA - Gland Packing**
**50Hz**

Model	Driver (CP) Side						Driver (CP) Side							
	Stuffing Box Data				Gland Packing		Stuffing Box Data				Gland Packing			
	Sleeve Size (mm)	Inner Dia. (mm)	Depth (mm)	Lantern Ring Width (mm)	Size (mm)	Qty	Sleeve Size (mm)	Inner Dia. (mm)	Depth (mm)	Lantern Ring Width (mm)	Size (mm)	Qty		
100 X 80 CSGA	45	65	71	15	45x65x10	5	45	65	71	15	45x65x10	5		
100 X 80 CSHA														
100 X 80 CSJA														
125 X 100 CSJA	55	75	72		55x75x10									
125 X 100 CNGA	55	75	72	15	55x75x10	5	55	75	72	15	55x75x10	5		
125 X 100 CNHA														
125 X 80 CNJA														
150 X 150 CNFA	55	75	72	15	55x75x10	5	55	75	72	15	55x75x10	5		
150 X 150 CNGA	70	95	90	18	70x95x12.5		70	95	90	18	70x95x12.5			
150 X 125 CNHA	55	75	72	15	55x75x10		55	75	72	15	55x75x10			
150 X 100 CNJA	70	95	90	18	70x95x12.5		70	95	90	18	70x95x12.5			
200 X 200 CNEA	55	75	72	15	55x75x10	5	55	75	72	15	55x75x10	5		
200 X 150 CNFA														
200 X 150 CNGA														
200 X 150 CNHA	70	95	90	18	70x95x12.5	5	70	95	90	18	70x95x12.5	5		
200 X 100 CNJA	80	109	103	20	80x109x14.5									
250 X 200 CNEA	55	75	72	15	55x75x10	5	45	65	71	15	45x65x10	5		
250 X 200 CNFA	70	95	90	18	70x95x12.5		55	75	72		55x75x10			
250 X 150 CNGA	80	109	103	20	80x109x14.5		70	95	90	18	70x95x12.5			
250 X 150 CNHA	90	119			90x119x14.5		80	109	103	20	80x109x14.5			
250 X 150 CNJA	100	129			100x129x14.5		90	119	103	20	90x119x14.5			
250 X 150 CNKA	100	129			100x129x14.5		90	119	103	20	90x119x14.5			
300 X 250 CNEA	70	95	90	18	70x95x12.5	5	55	75	72	15	55x75x10	5		
300 X 200 CNFA	80	109	103	20	80x109x14.5		70	95	90	18	70x95x12.5			
300 X 200 CNGA							80	109	103	20	80x109x14.5			
300 X 200 CNHA	90	119			90x119x14.5		80	109	103	20	80x109x14.5			
300 X 150 CNJA	100	129			100x129x14.5		90	119			90x119x14.5			
300 X 250 CNFA	80	109			80x109x14.5		70	95	90		70x95x12.5			
300 X 250 CNGA	90	119			90x119x14.5		80	109	103	20	80x109x14.5			
300 X 250 CNHA	100	129			100x129x14.5		90	109			90x119x14.5			
300 X 200 CNJA	100	129						100x129x14.5	90	109	103		20	90x119x14.5
300 X 200 CNKA	100	139			22			110x139x14.5	100	129				100x129x14.5
350 X 300 CNFA	90	119			103	20	90x119x14.5	5	80	109	103	20	80x109x14.5	5
350 X 250 CNGA			90	119										
350 X 250 CNHA	100	129	100x129x14.5	80			109	80x109x14.5						
400 X 350 CNEA	90	119	90x119x14.5	80			109	80x109x14.5						
400 X 350 CNFA	100	129			100x129x14.5	5	90	119			90x119x14.5	5		

**TECHNICAL DATA - Impeller**
**50Hz**

Model	Impeller Dia		Casing Ring		Impeller			Weight Approx. kg
	Max (mm)	Min (mm)	Dia. (mm)	Clearance (mm)	Total Eye Area (cm <sup>2</sup> )	♣ (kg m <sup>2</sup> )	No. of Vanes	
100 X 80 CSGA	218	175	124	0.240 - 0.344	73.7	0.4	5	4.2
100 X 80 CSHA	266	214	132	0.260 - 0.383	79.7	0.7		6.3
100 X 80 CSJA	326	266	136		82.7	1.3		13
125 X 100 CSJA	410	335	168	0.310 - 0.433	147.5	2.5	5	21
125 X 80 CNJA	327	264	144/140	0.280 - 0.403	179.3	1.3		14
125 X 100 CNGA	218	178	136/132	0.260 - 0.383	154	0.4		10
125 X 100 CNHA	265	210			166.8	0.7	12	
150 X 150 CNFA	227	194	152/148	0.280 - 0.403	226.9	0.5	5	14
150 X 125 CNGA	274	227	162/158	0.310 - 0.433	244.4	0.8		16.5
150 X 125 CNHA	333	274	172/168		283.4	1.4		20
150 X 100 CNJA	397	327			264.4	2.3		24
200 X 200 CNEA	218	183	168		0.310 - 0.437	263.4	0.6	5
200 X 150 CNFA	254	218		284.2		0.8	13.3	
200 X 150 CNGA	307	254	188	0.340 - 0.482	306.8	1	15.4	
200 X 150 CNHA	373	307			331.4	2.9	20.2	
200 X 100 CNJA	461	373	200	0.340 - 0.482	356.6	3.6	5	32
250 X 200 CNEA	244	205	188		349.4	0.7		12.2
250 X 200 CNFA	285	244	200		357.6	1.3		16.8
250 X 150 CNGA	344	285			386	1.9		21.1
250 X 150 CNHA	418	344	212		417.2	3.3		24.4
250 X 150 CNJA	517	418	224		448.8	6.2		40
250 X 150 CNKA	638	517	236		0.570 - 0.672	479.6		10.3
300 X 250 CNEA	274	230	200	0.340 - 0.482	417.6	1.3	5	17.2
300 X 200 CNFA	320	274	212	0.380 - 0.522	449.8	2.4		23.3
300 X 200 CNGA	386	320	224		485.6	4.2		29
300 X 200 CNHA	469	386	236	0.420 - 0.562	524.8	5.4		36.6
300 X 150 CNJA	580	469	250		565.4	8.2		65
300 X 250 CNFA	308	258	224	0.380 - 0.522	526	2.4		23.8
300 X 250 CNGA	359	308	236	0.420 - 0.562	567	3.9		31.9
300 X 250 CNHA	433	359	250		611.2	5.6		36
300 X 200 CNJA	526	433	264	0.480 - 0.641	720.6	7.7		52.5
300 X 200 CNKA	651	527	278	0.590 - 0.731	711.6	13.2		80
350 X 300 CNFA	345	290	250	0.420 - 0.562	664	4.1	5	40.4
350 X 250 CNGA	403	345	267	0.300 - 0.518	715.2	7.6		41
350 X 250 CNHA	486	437	280	0.480 - 0.641	772.1	13.3		49.8
400 X 350 CNEA	325	285	264	0.480 - 0.641	812	5.4	5	51
400 X 350 CNFA	388	325	280		836.3	7.6		50

♣ Including GD<sup>2</sup> of coupling

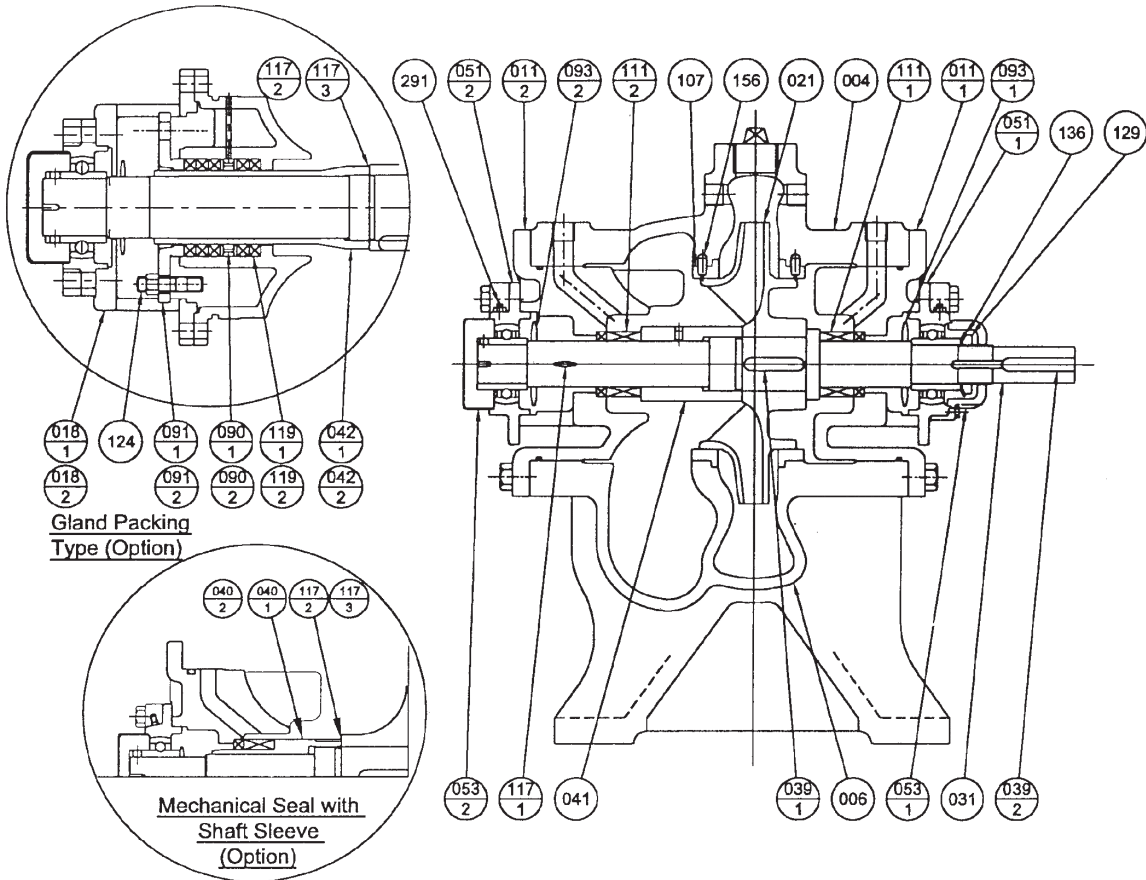
♣ Do not apply GD<sup>2</sup> when making water hammer analysis

**TECHNICAL DATA - Bearing and Shaft**
**50Hz**

Model	Bearing		* Grease Replenishment		Shaft Data			
	Drive (CP) Side	Opposite (CCP) Side	CP Side (gr)	CCP Side (gr)	Approx. Wt. (kg)	Max. HP Per 1000rpm (HP)	Shaft Dia. Coupling (mm)	Shaft Dia. Impeller (mm)
100 X 80 CSGA	CUCFC 206C	UCFC 206E	2.2	2.2	3.4	11	28	42
100 X 80 CSHA								
100 X 80 CSJA								
125 X 100 CSJA	CUCFC 208C				6.2	27	38	50
125 X 100 CNGA	CUCFC 208C	UCFC 206E	3.9	2.2	6.4	11	28	42
125 X 100 CNHA					6.4	27	38	50
125 X 80 CNJA					6.4			
50 X 150 CNFA	CUCFC 208C	UCFC 206E	3.9	2.2	7.6	27	38	50
150 X 125 CNGA	CUCFC 210C	UCFC 208E	5.4	3.9	11.6	55	48	60
150 X 125 CNHA	CUCFC 208C	UCFC 206E	3.9	2.2	7.6	27	38	50
150 X 100 CNJA	CUCFC 210C	UCFC 208E	5.4	3.9	11.6	55	48	60
200 X 200 CNEA	CUCFC 208C	UCFC 206E	3.9	2.2	7.6	27	38	50
200 X 150 CNFA								
200 X 150 CNGA								
200 X 150 CNHA	CUCFC 210C	UCFC 208E	5.4	3.9	12	58	48	60
200 X 100 CNJA	CUCFC 212C	UCFC 210E	10	5.4	18.3	83	55	70
250 X 200 CNEA	CUCFC 208C	UCFC 206E	3.9	2.2	8.1	27	38	50
250 X 200 CNFA	CUCFC 210C	UCFC 208E	5.4	3.9	12	55	48	60
250 X 150 CNGA								
250 X 150 CNHA	CUCFC 212C	UCFC 210E	10	5.4	18.8	83	55	70
250 X 150 CNJA	CUCFC 214C	UCFC 212E	13.6	10	27.3	136	65	80
250 X 150 CNKA	CUCFC 216C	UCFC 214E	19.2	13.6	38	209	75	90
300 X 250 CNEA	CUCFC 210C	UCFC 208E	5.4	3.9	12.9	55	48	60
300 X 200 CNFA	CUCFC 212C	UCFC 210E	10	5.4	18.8	83	55	70
300 X 200 CNGA					19.1			
300 X 200 CNHA	CUCFC 214C	UCFC 212E	13.6	10	27.3	136	65	80
300 X 150 CNJA	CUCFC 216C	UCFC 214E	19.2	13.6	38	209	75	90
300 X 250 CNFA	CUCFC 212C	UCFC 210E	10	5.4	20.1	83	55	70
300 X 250 CNGA	CUCFC 214C	UCFC 212E	13.6	10	27.9	136	65	80
300 X 250 CNHA								
300 X 200 CNJA	CUCFC 216C	UCFC 214CE	19.2	13.6	38	209	75	90
300 X 200 CNKA	CUCFC 218C	UCFC 216CE	25.5	19.2	55	304	85	100
350 X 300 CNFA	CUCFC 214C	UCFC 212E	13.6	10	30.6	136	65	80
350 X 250 CNGA	CUCFC 214C	UCFC 212E	13.6	10	30.6	136	65	80
350 X 250 CNHA	CUCFC 216C	UCFC 214E	19.2	13.6	40.2	209	75	90
400 X 350 CNEA	CUCFC 214C	UCFC 212E	13.6	10	45	136	65	80
400 X 350 CNFA	CUCFC 216C	UCFC 214CE	19.2	13.6	48	209	75	90

\* Replenishment: Continuous operation 4300 hours.



**SECTIONAL VIEW - CSA**
**50Hz**

**Mechanical Seal Type (Standard)**

No.	Part Name	Material	Qty
004	Casing Upper Half	FC250	1
006	Casing Lower Half		
011-1	Side Cover		
011-2	Side Cover		
021	Impeller	BC6	1
031	Shaft	316 Stainless Steel	
039-1	Impeller Key		
039-2	Coupling Key	S50C	
041	Impeller Nut	BC6	
051-1	Bearing Unit	FC200	
051-2	Bearing Unit		

No.	Part Name	Material	Qty
053-1	Bearing Cover	FC200	1
053-2	Bearing Cover		
093-1	Deflector (CP Side)	Rubber	1
093-2	Deflector (CCP Side)		
107	Casing Water Ring	BC6	2
111-1	Mechanical Seal	-	1
111-2	Mechanical Seal	-	
117-1	Gasket (Casing)	V#6500	
129	Bearing Nut	SS400	1
136	Bearing Washer		
156	Lock Pin	SUS304	2
291	Grease Nipple	C3604BD-F	

**Mechanical Seal with Shaft Sleeve Type (Option)**

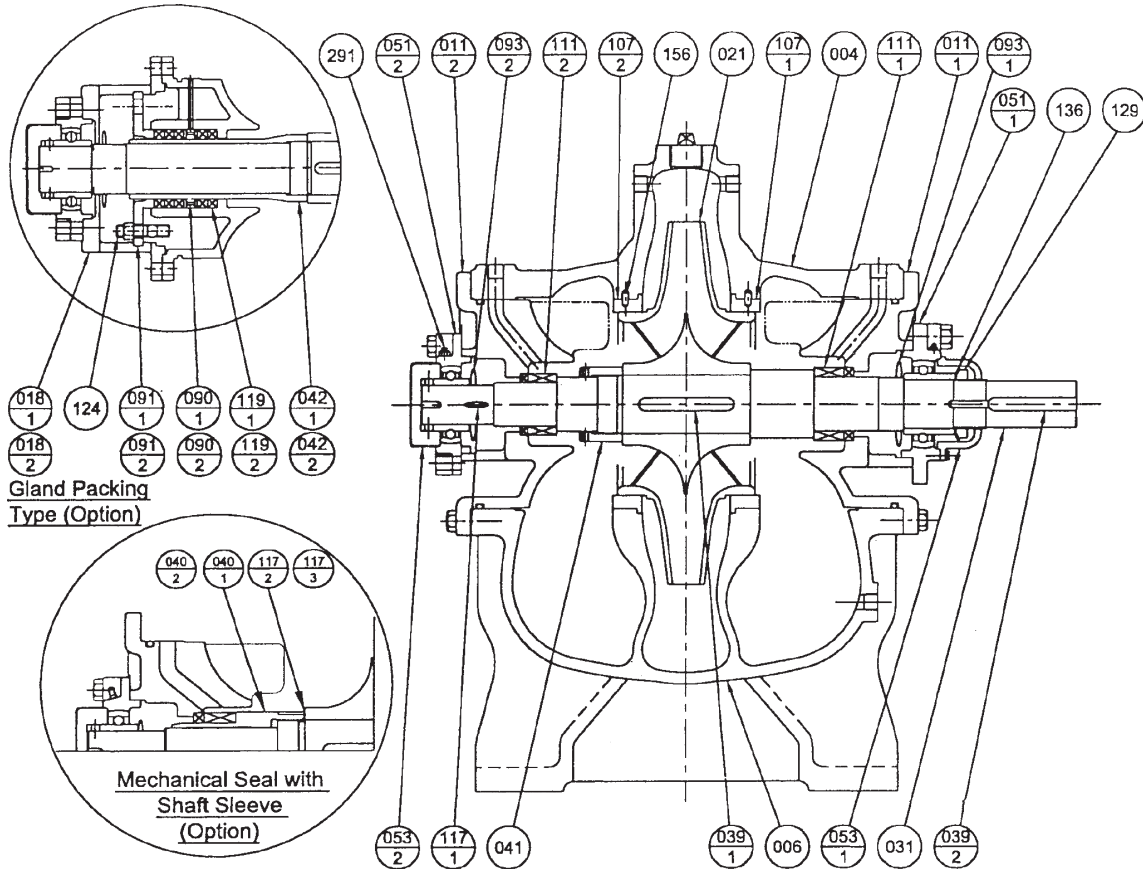
No.	Part Name	Material	Qty
040-1	Shaft Sleeve (CP Side)	BC6	1
040-2	Shaft Sleeve (CCP Side)	BC6	

No.	Part Name	Material	Qty
117-2	Sleeve Gasket (CP Side)	V#6500	1
117-3	Sleeve Gasket (CCP Side)	v#6500	

**Gland Packing Type (Optional)**

No.	Part Name	Material	Qty
124	Gland Bolt	C3604BD-F	4
018-1	Bearing Support (CP Side)	FC200	1
018-2	Bearing Support (CCP Side)		
042-1	Shaft Sleeve (CP Side)	BC6	1
042-2	Shaft Sleeve (CCP Side)		

No.	Part Name	Material	Qty
091-1	Gland (CP Side)	BC6	1
091-2	Gland (CCP Side)		
090-1	Lantern Ring (CP Side)		
090-2	Lantern Ring (CCP Side)	Carbonised Fiber	5
119-1	Gland Packing (CP Side)		
119-2	Gland Packing (CCP Side)		

**SECTIONAL VIEW - CNA**
**50Hz**

**Gland Packing  
Type (Option)**
**Mechanical Seal with  
Shaft Sleeve  
(Option)**
**Mechanical Seal Type (Standard)**

No.	Part Name	Material	Qty
004	Casing Upper Half	FC250	1
006	Casing Lower Half		
011-1	Side Cover		
011-2	Side Cover		
021	Impeller	BC6	1
031	Shaft	316 Stainless Steel	
039-1	Impeller Key		
039-2	Coupling Key	S50C	
041	Impeller Nut	BC6	
051-1	Bearing Unit	FC200	
051-2	Bearing Unit		

No.	Part Name	Material	Qty
053-1	Bearing Cover	FC200	1
053-2	Bearing Cover		
093-1	Deflector (CP Side)	Rubber	1
093-2	Deflector (CCP Side)		
107	Casing Water Ring	BC6	2
111-1	Mechanical Seal	-	1
111-2	Mechanical Seal	-	
117-1	Gasket (Casing)	V#6500	
129	Bearing Nut	SS400	1
136	Bearing Washer		
156	Lock Pin	SUS304	2
291	Grease Nipple	C3604BD-F	

**Mechanical Seal with Shaft Sleeve Type (Option)**

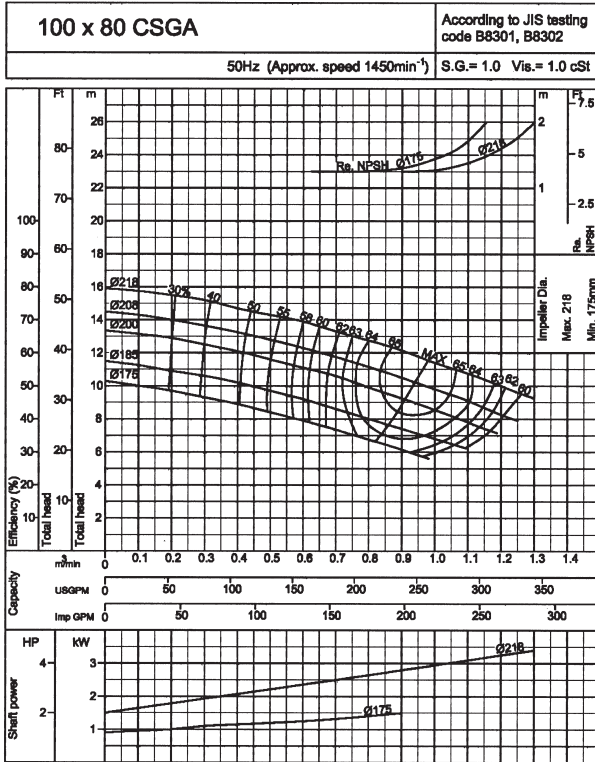
No.	Part Name	Material	Qty
040-1	Shaft Sleeve (CP Side)	BC6	1
040-2	Shaft Sleeve (CCP Side)	BC6	

No.	Part Name	Material	Qty
117-2	Sleeve Gasket (CP Side)	V#6500	1
117-3	Sleeve Gasket (CCP Side)	v#6500	

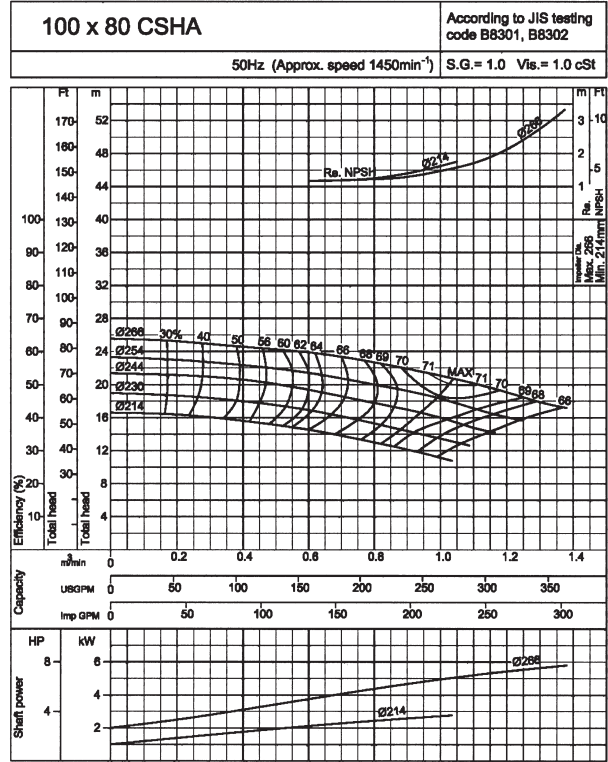
**Gland Packing Type 1 (Optional)**

No.	Part Name	Material	Qty
124	Gland Bolt	C3604BD-F	4
018-1	Bearing Support (CP Side)	FC200	1
018-2	Bearing Support (CCP Side)		
042-1	Shaft Sleeve (CP Side)	BC6	1
042-2	Shaft Sleeve (CCP Side)		

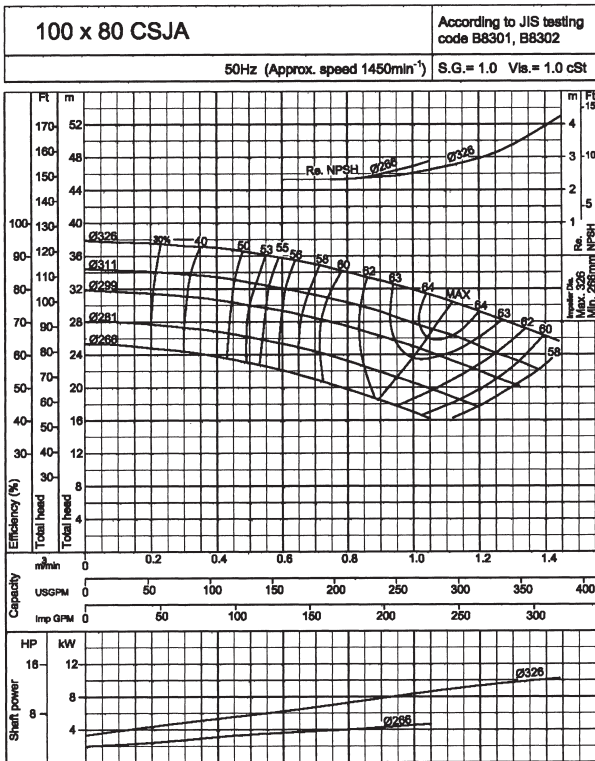
No.	Part Name	Material	Qty
091-1	Gland (CP Side)	BC6	1
091-2	Gland (CCP Side)		
090-1	Lantern Ring (CP Side)		
090-2	Lantern Ring (CCP Side)	Carbonised Fiber	5
119-1	Gland Packing (CP Side)		
119-2	Gland Packing (CCP Side)		

**PERFORMANCE CURVE**
**50Hz**


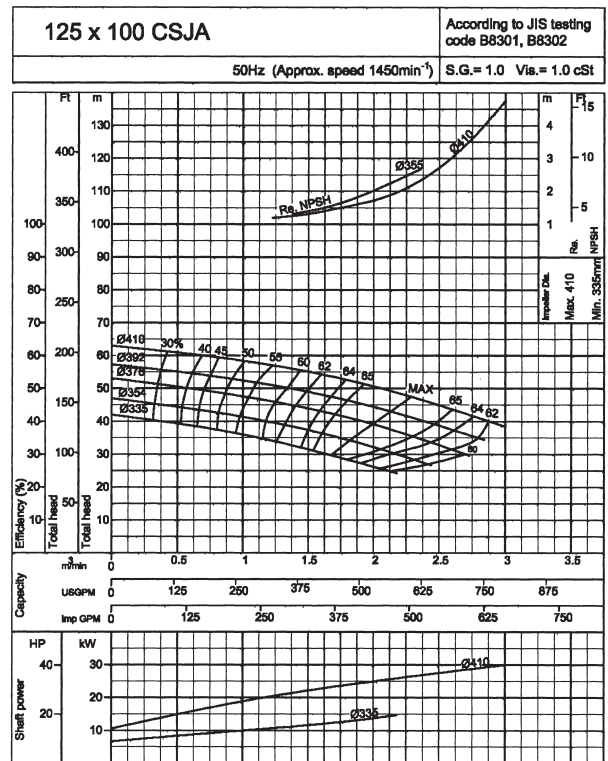
Curve No. -4 -5CN5601



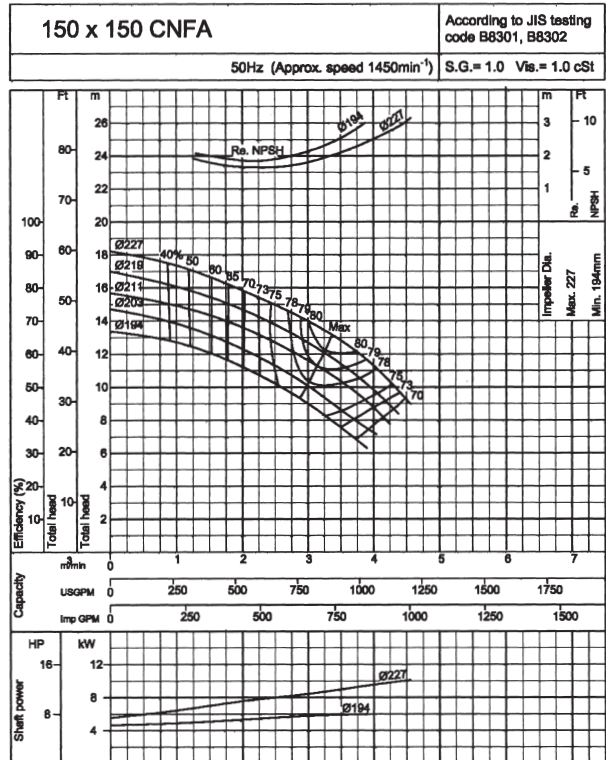
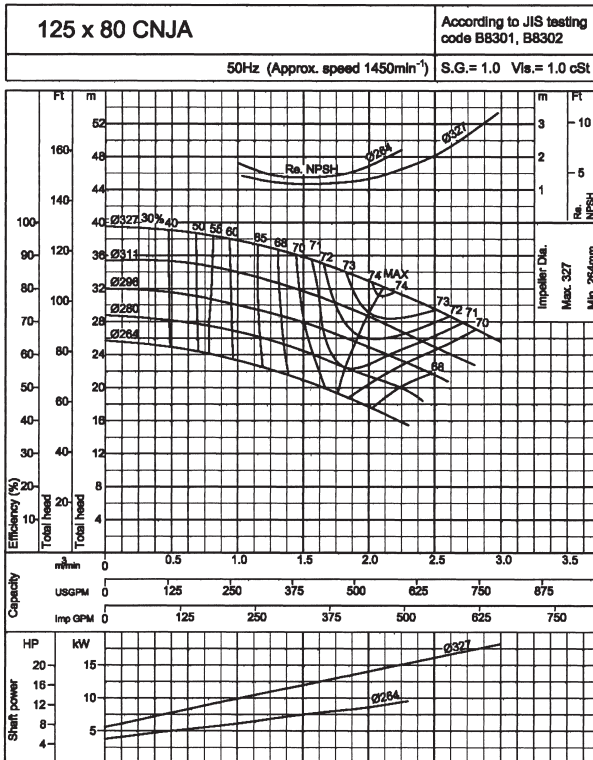
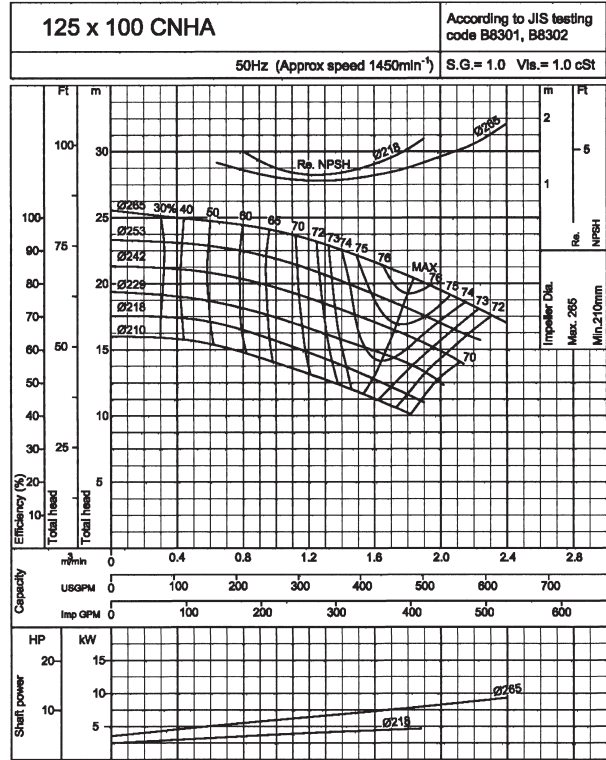
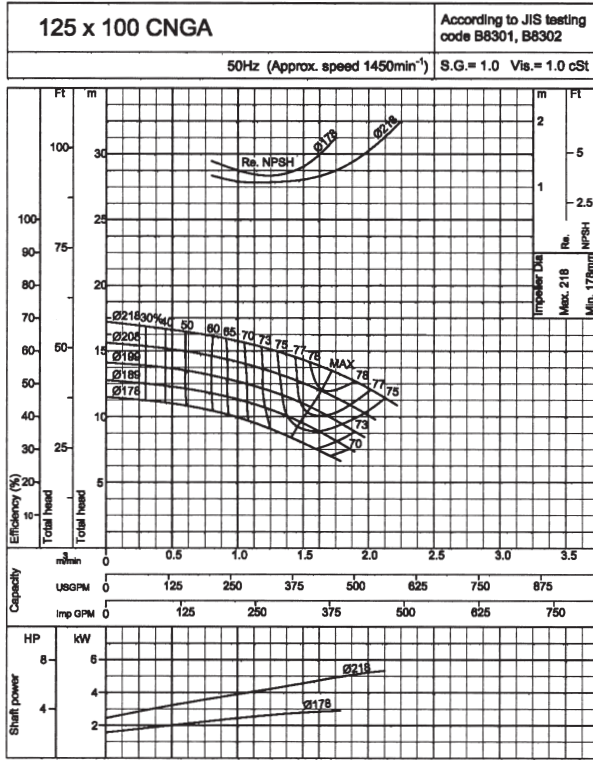
Curve No. -4 -5CN5602



Curve No. -4 -5CN5603



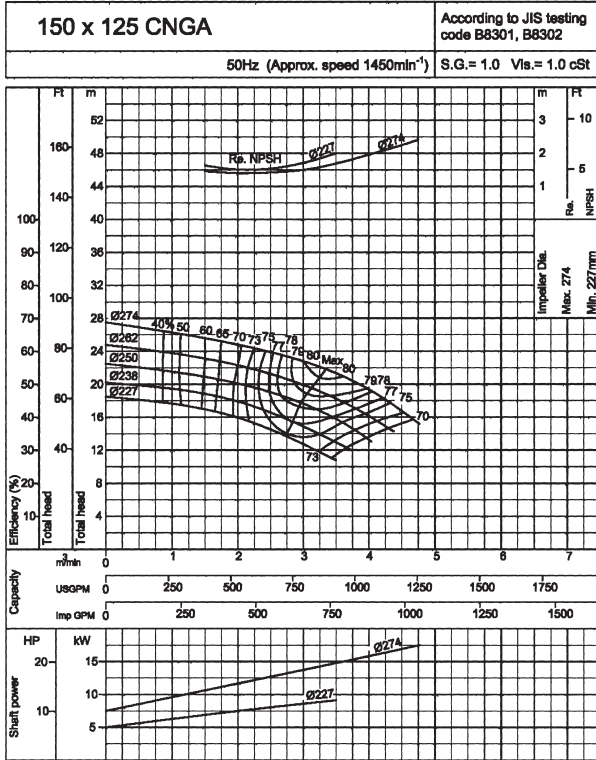
Curve No. -4 -5CN5604

**PERFORMANCE CURVE**
**50Hz**


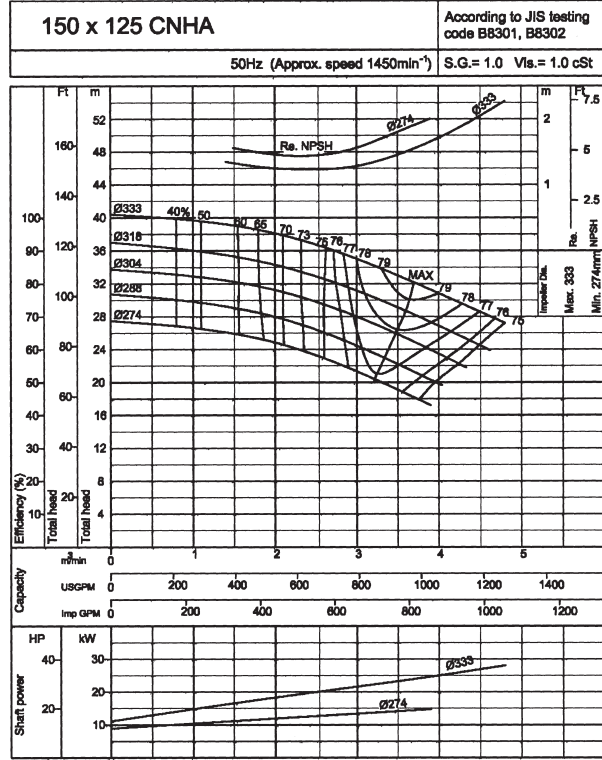


# PERFORMANCE CURVE

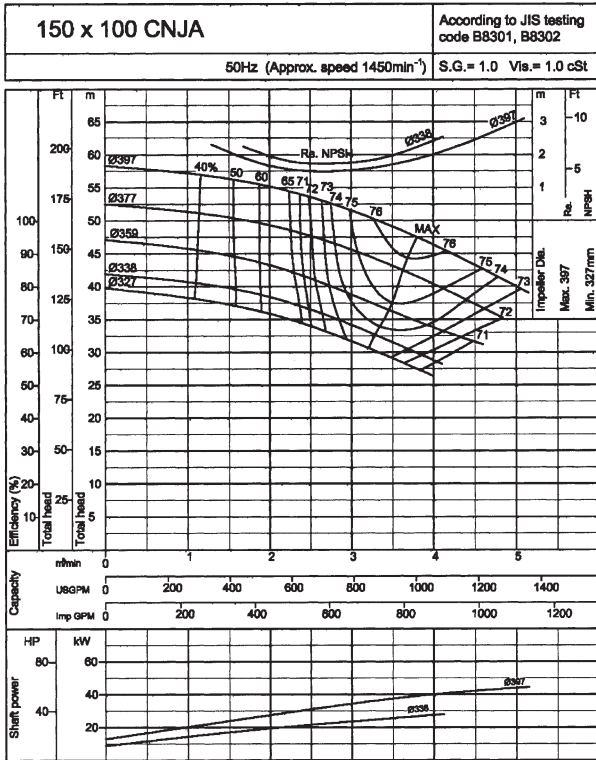
# 50Hz



Curve No. -4 -5CN5609

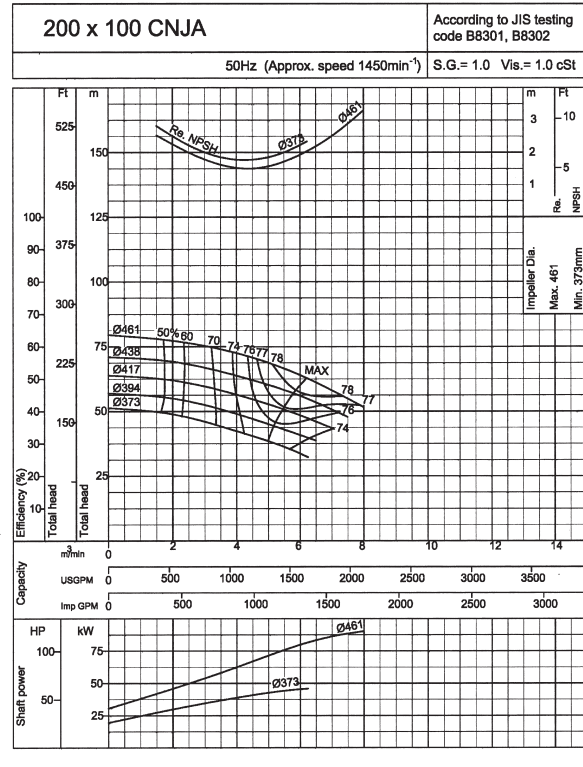
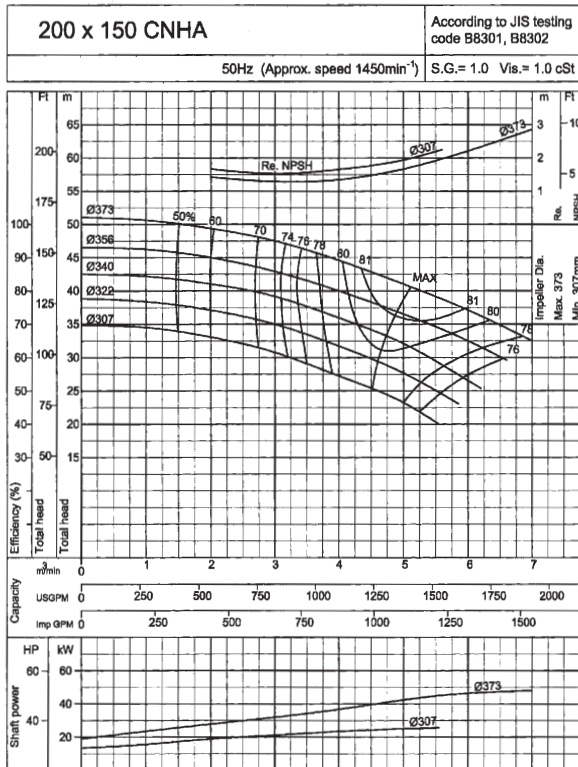
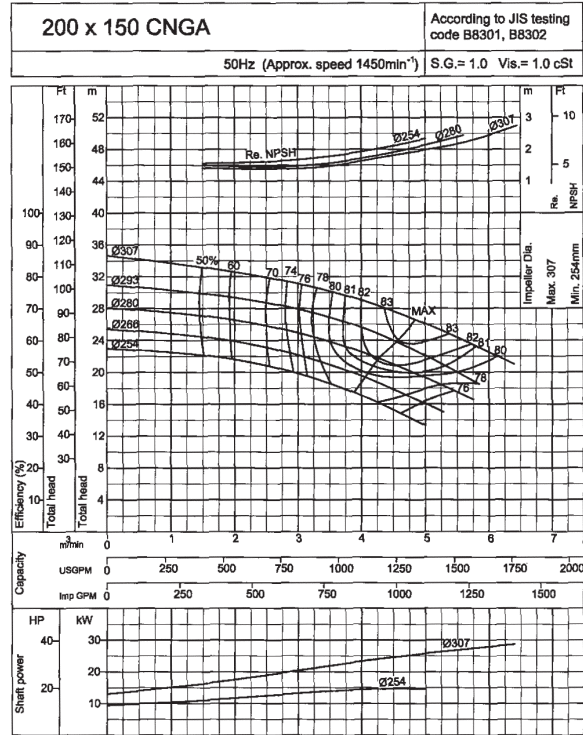
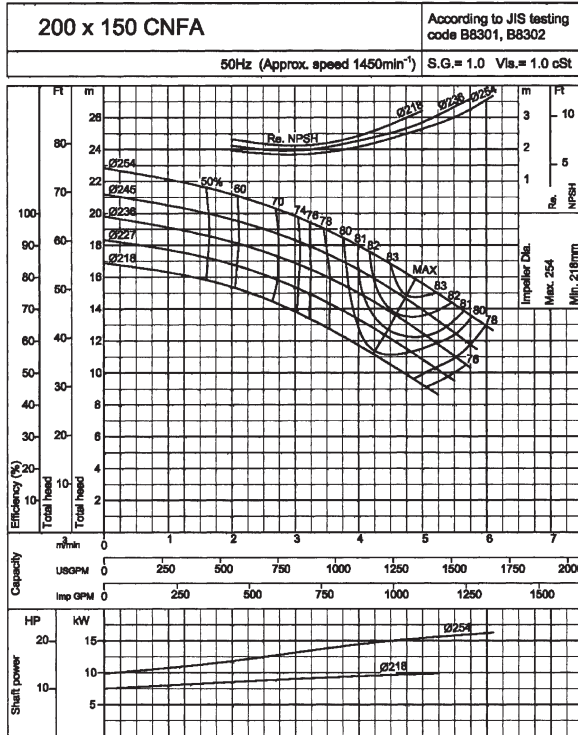


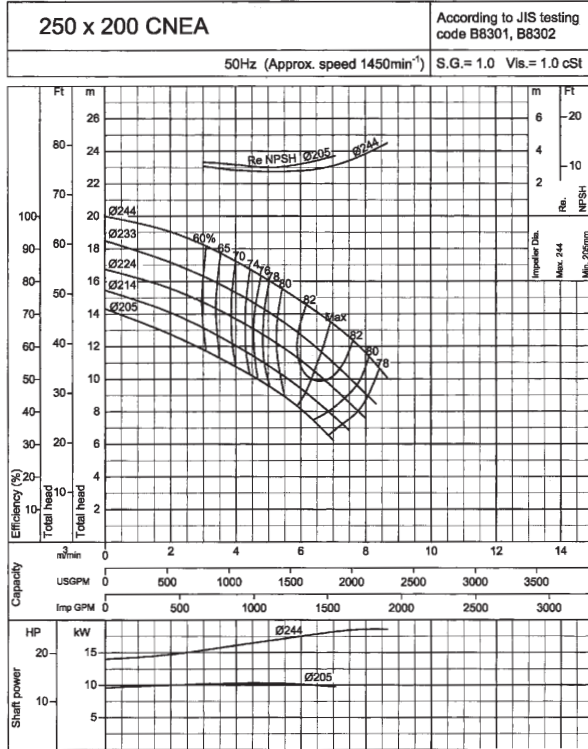
Curve No. -4 -5CN5610



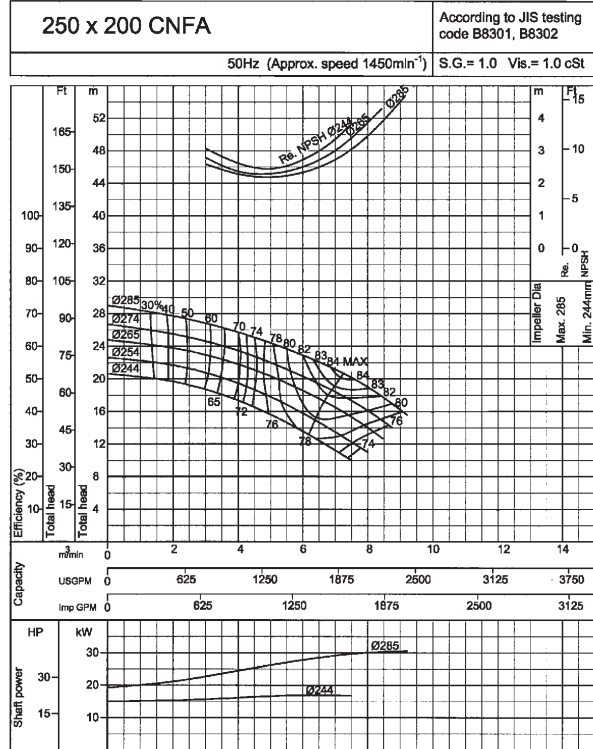
# PERFORMANCE CURVE

# 50Hz

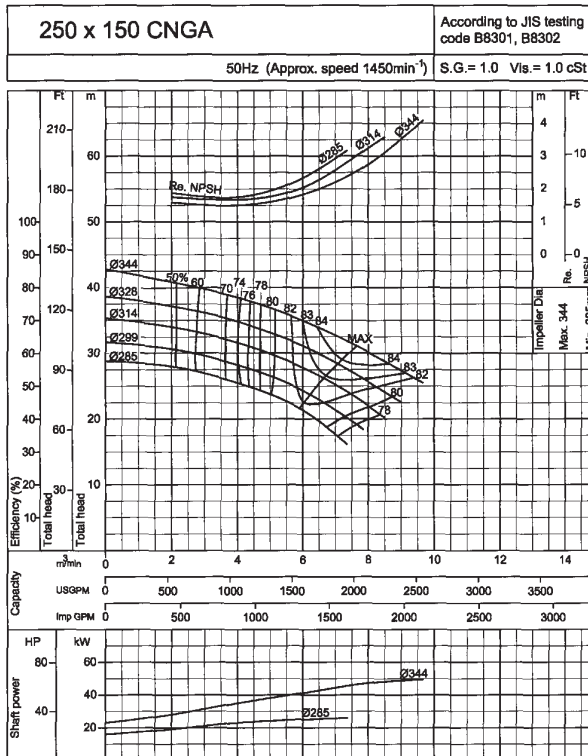


**PERFORMANCE CURVE**
**50Hz**


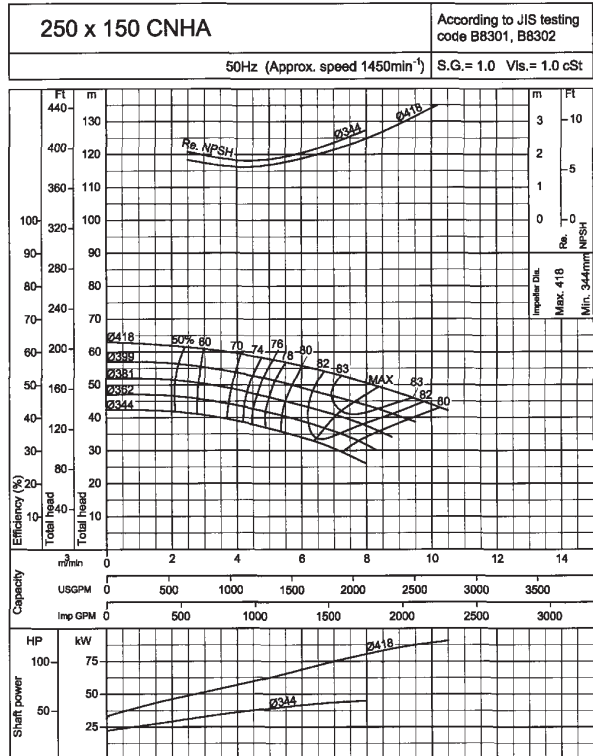
Curve No. - 4 - 5CN5617



Curve No. - 4 - 5CN5618



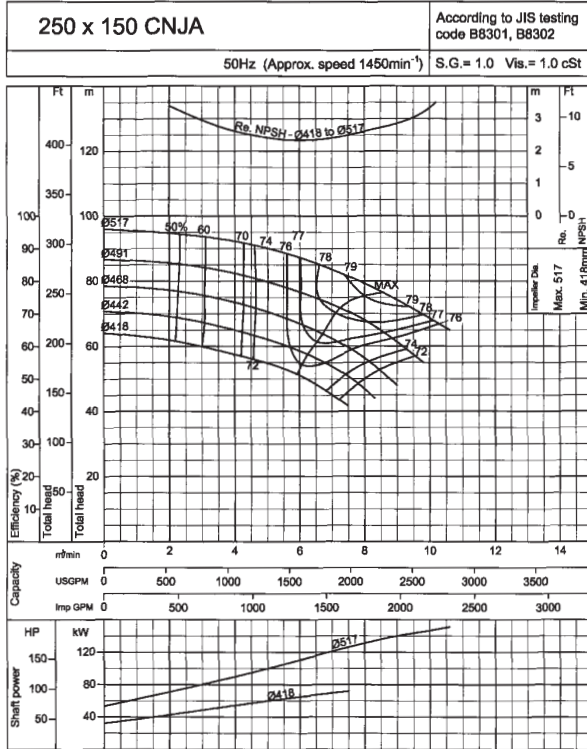
Curve No. - 4 - 5CN5619



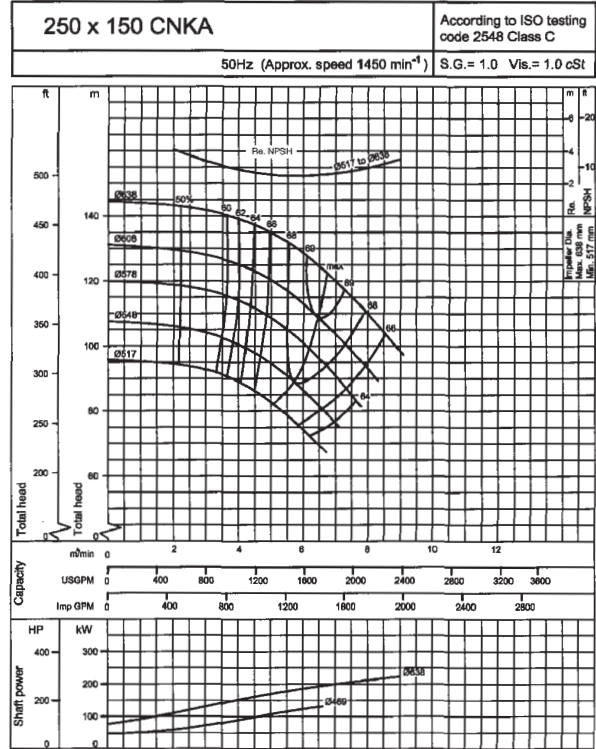
Curve No. - 4 - 5CN5620

# PERFORMANCE CURVE

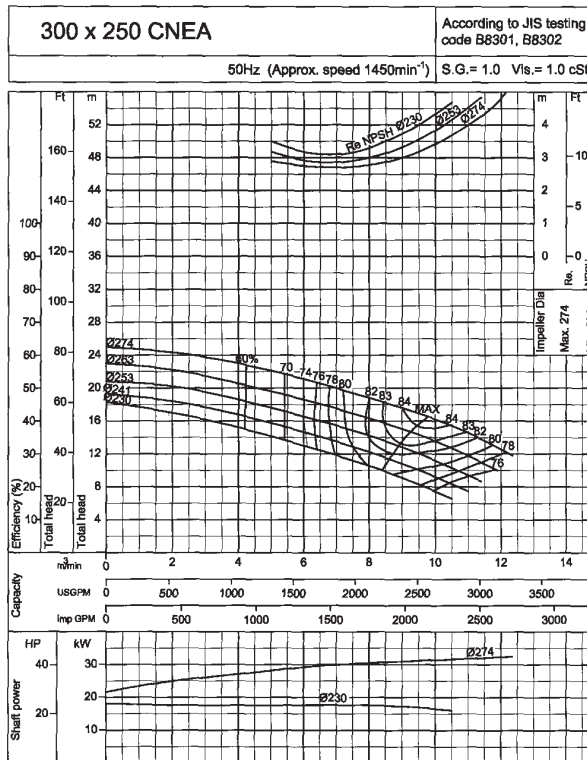
# 50Hz



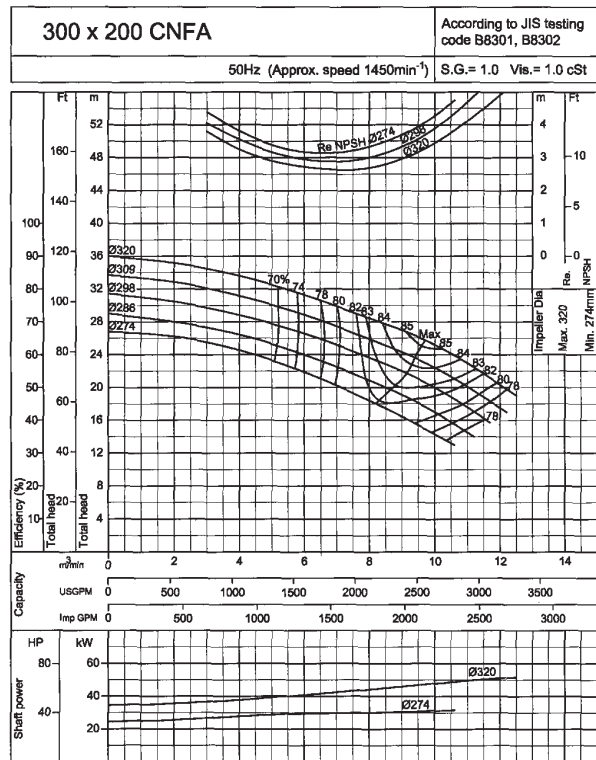
Curve No. - 4 - 5CN8621



Curve No. - 4 - 5CN8620

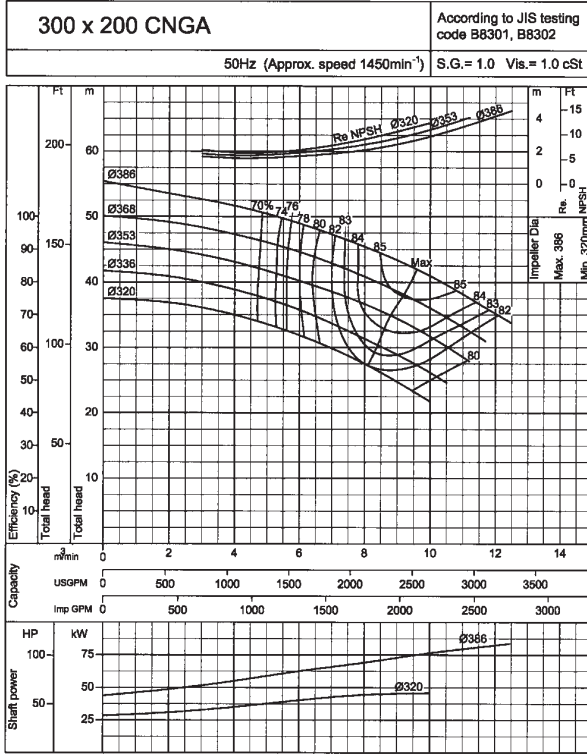


Curve No. - 4 - 5CN8622

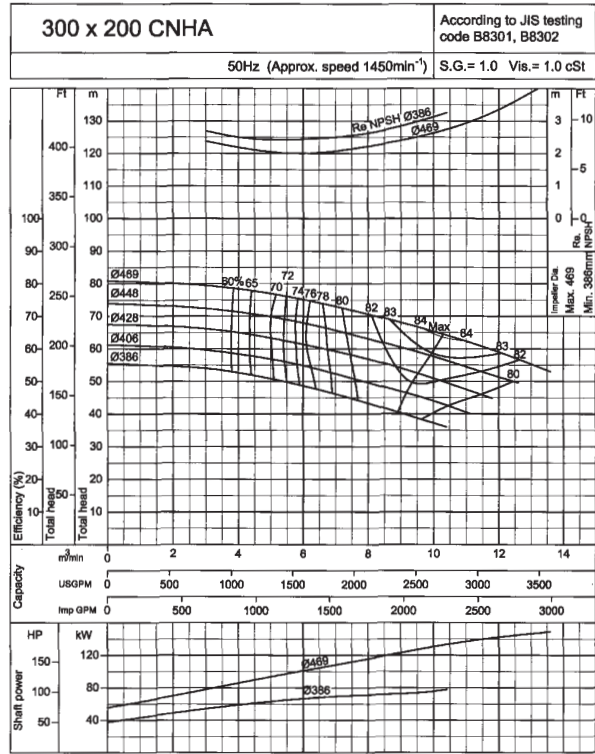


Curve No. - 4 - 5CN8623

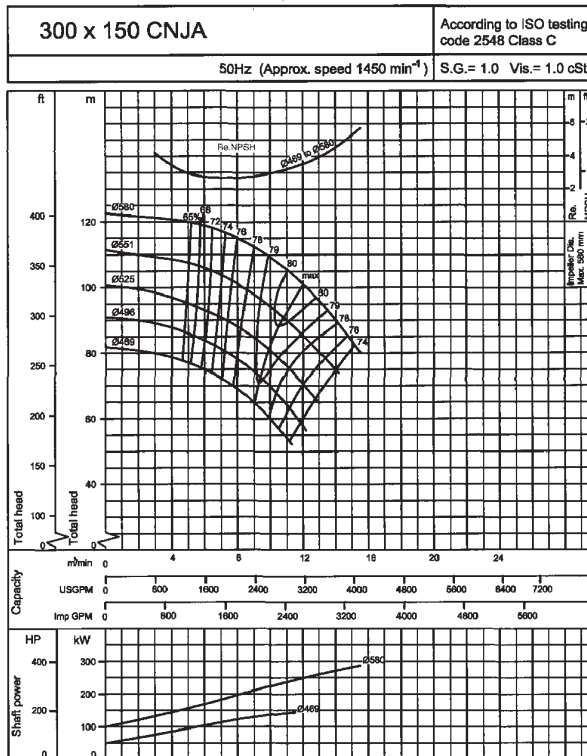


**PERFORMANCE CURVE**
**50Hz**


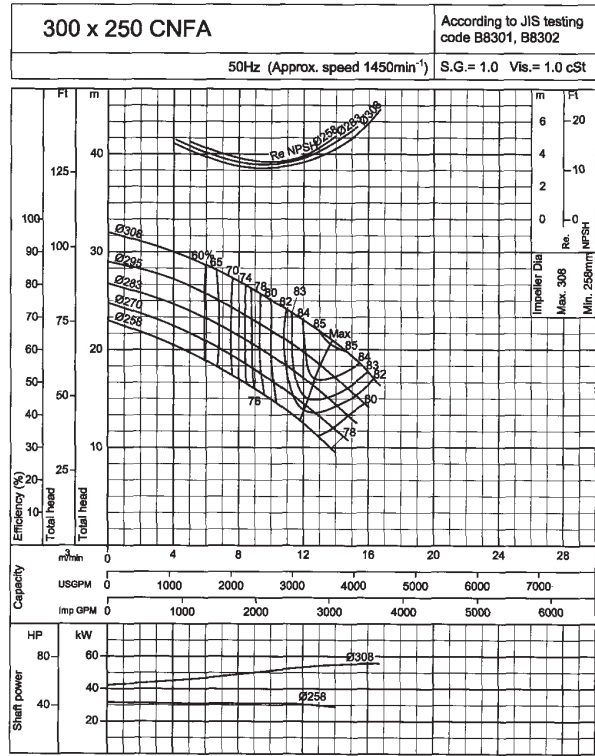
Curve No. - 4 - 5CN624



Curve No. - 4 - 5CN625



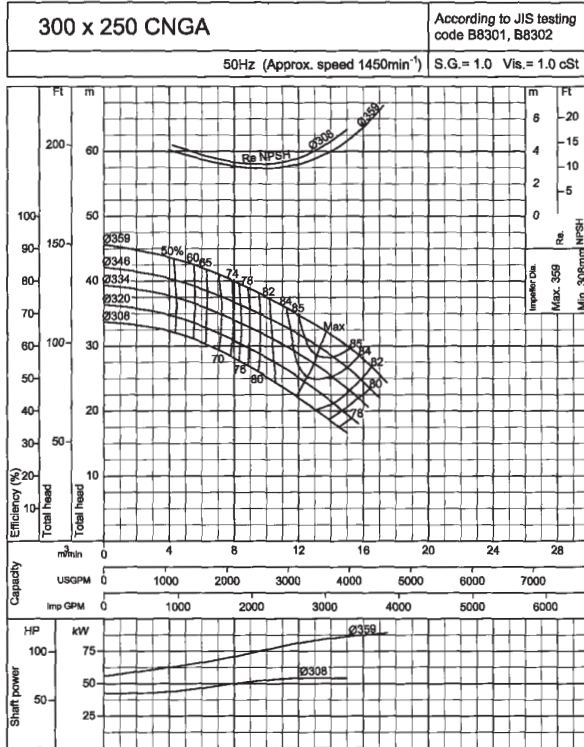
Curve No. - 4 - 5CN630



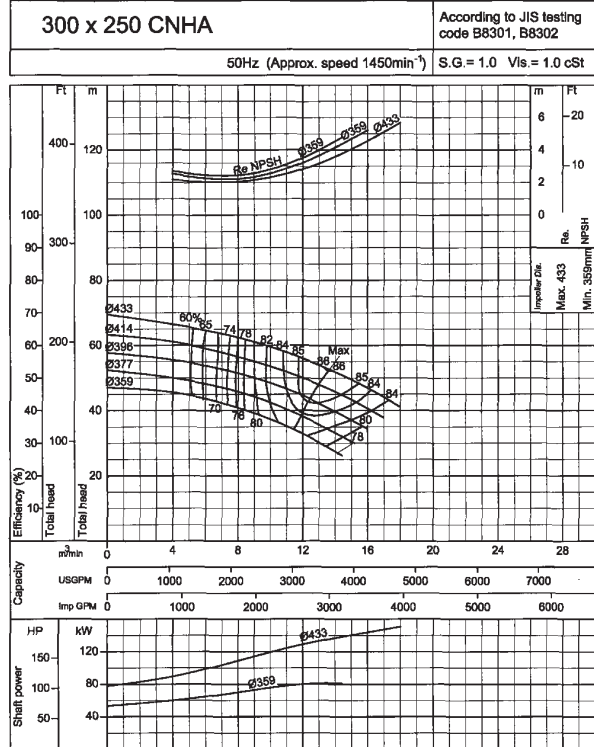
Curve No. - 4 - 5CN626

PERFORMANCE CURVE

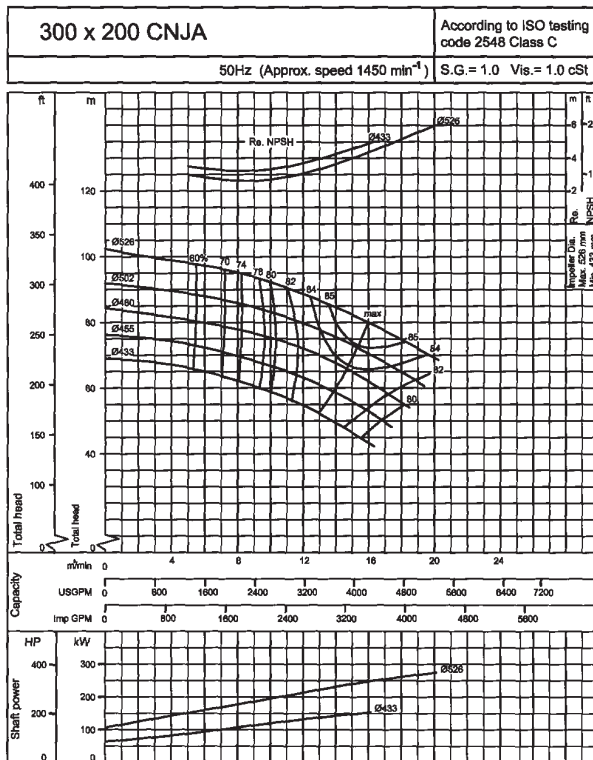
50Hz



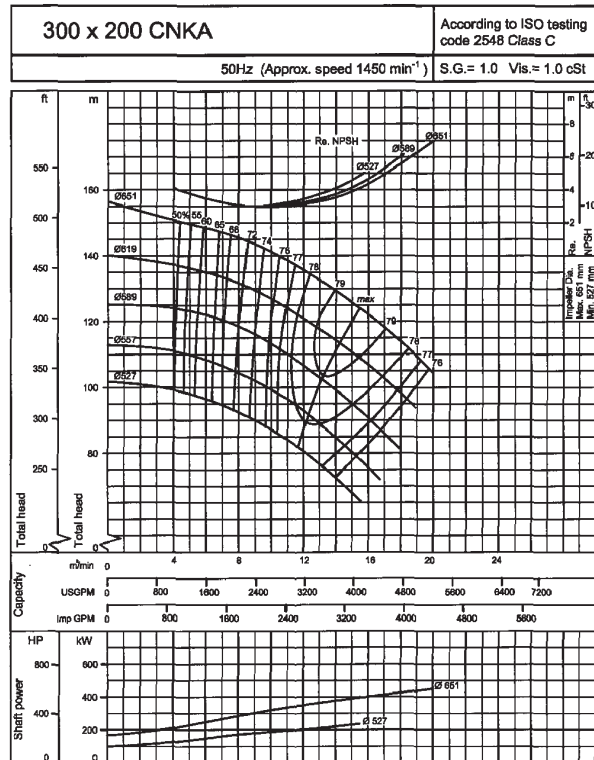
Curve No. - 4 - 5CN9627



Curve No. - 4 - 5CN96028



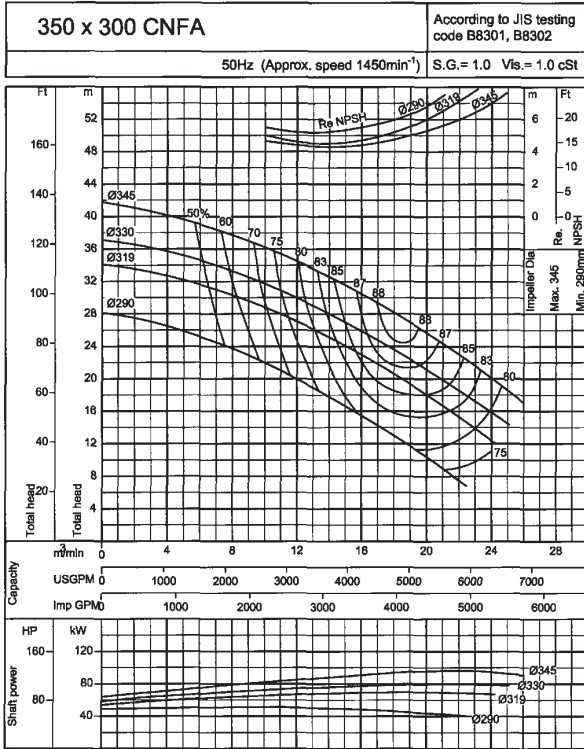
Curve No. - 4 - 5CN9631



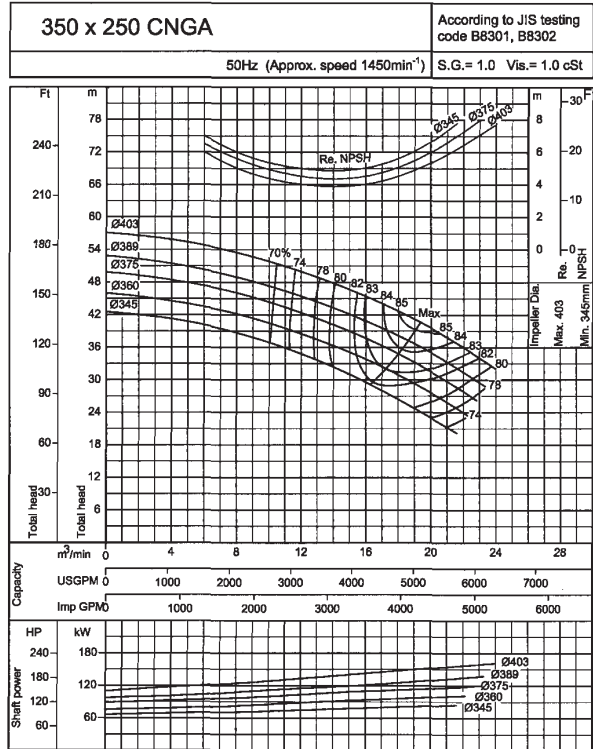
Curve No. - 4 - 5CN9632

# PERFORMANCE CURVE

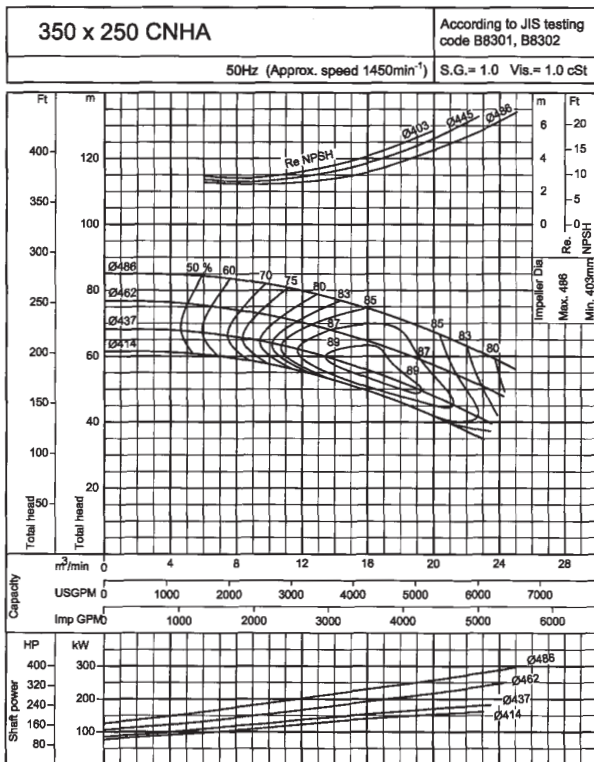
# 50Hz



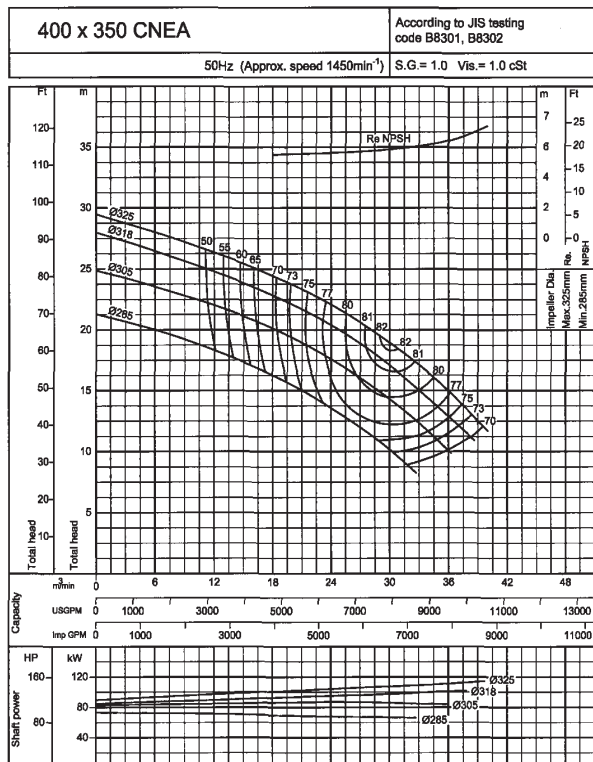
IDF0009E-E035A



IDF0009E-E033A



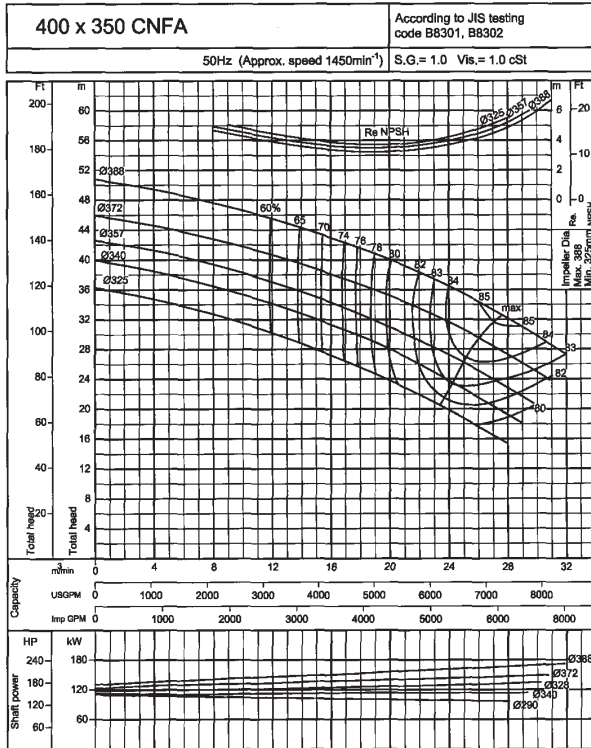
IDF0009E-E034A



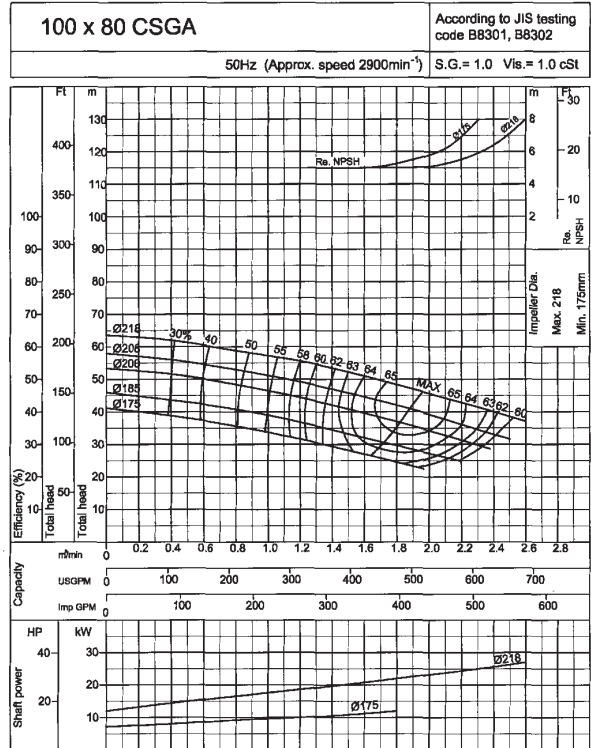
IDF0009E-E036A

# PERFORMANCE CURVE

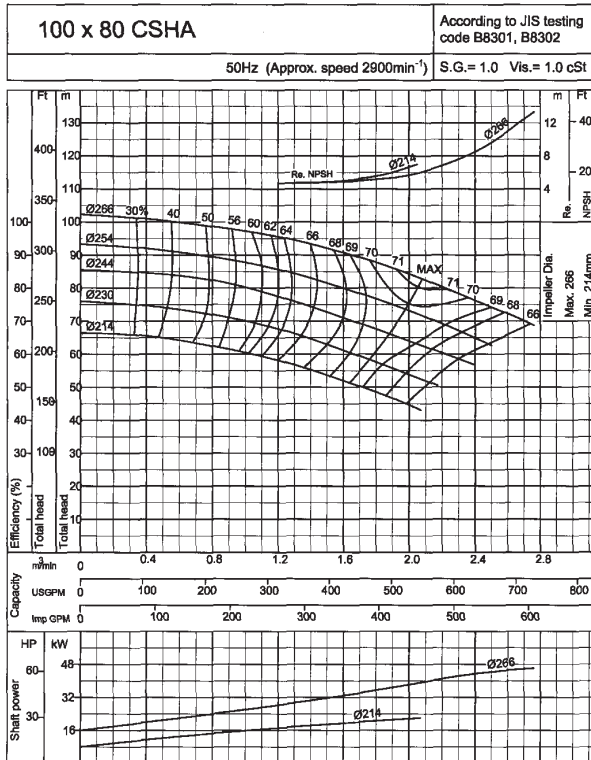
# 50Hz



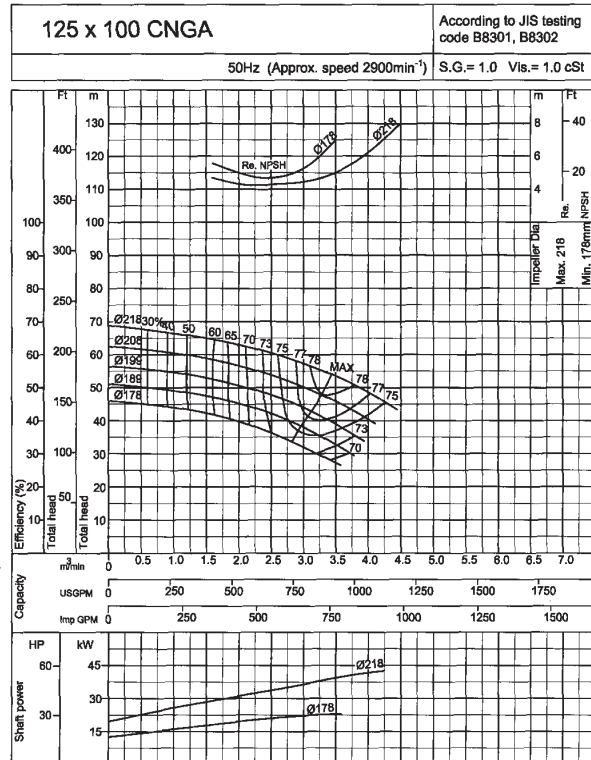
IDF0009E-E037A



Curve No. - 2 - 5CN6601



Curve No. - 2 - 5CN5602

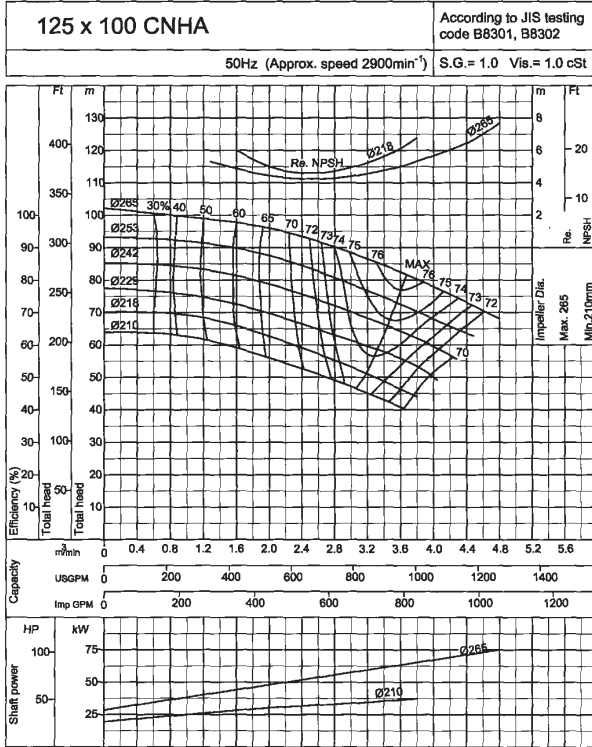


Curve No. - 2 - 5CN5603

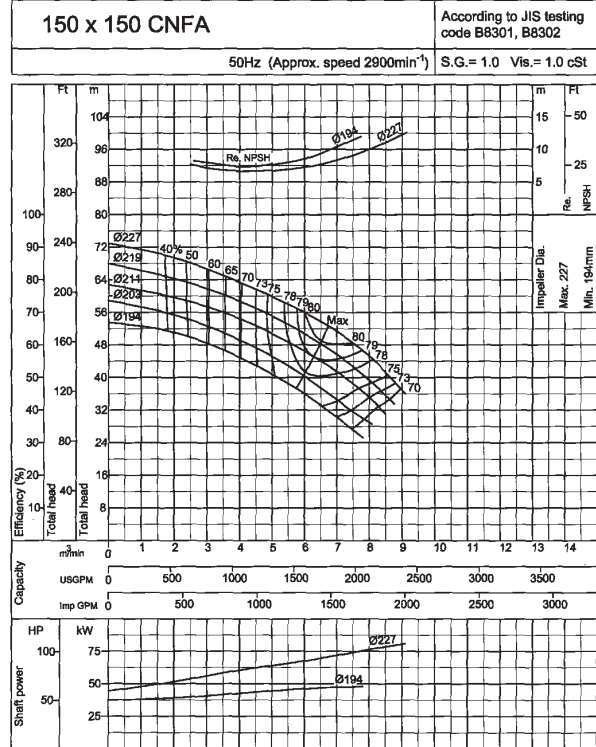


# PERFORMANCE CURVE

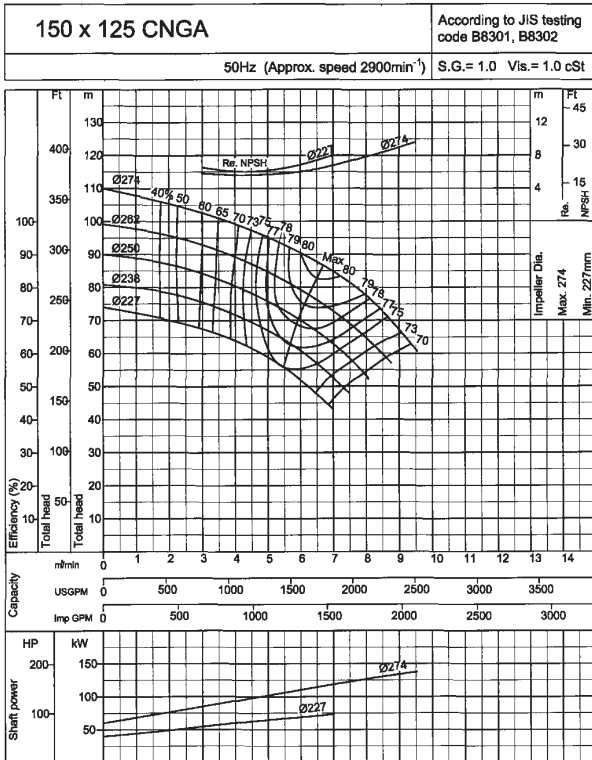
## 50Hz



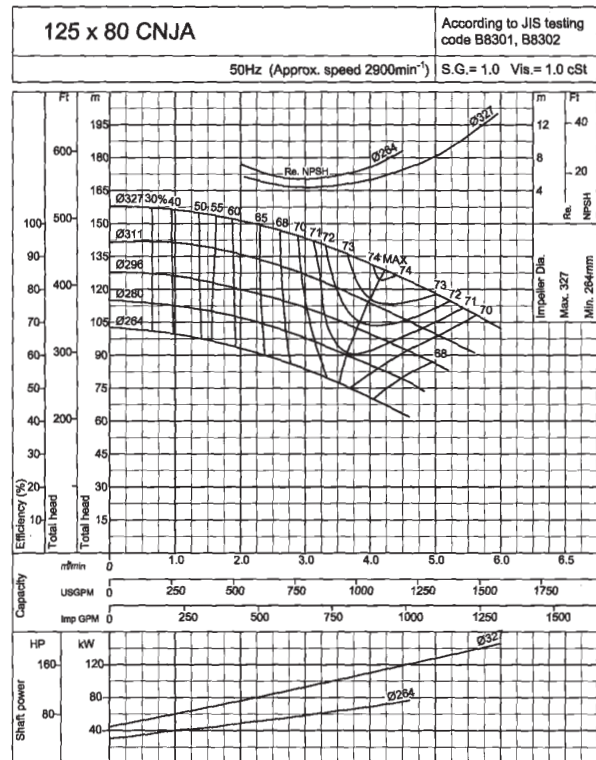
Curve No. - 2 - 5CN5604



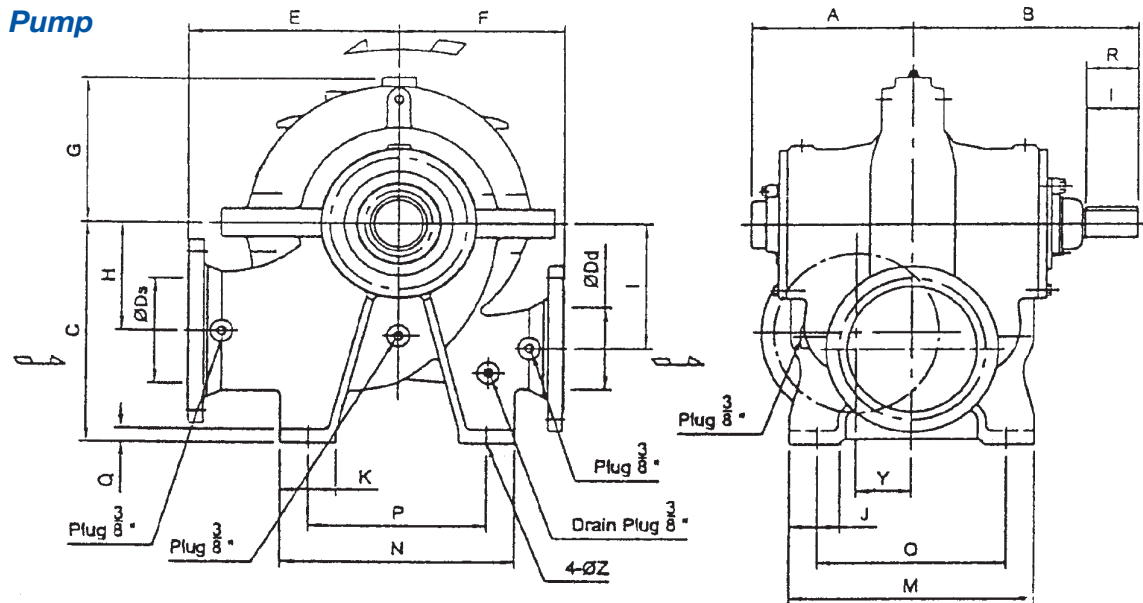
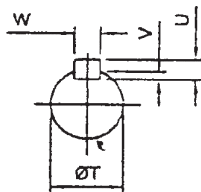
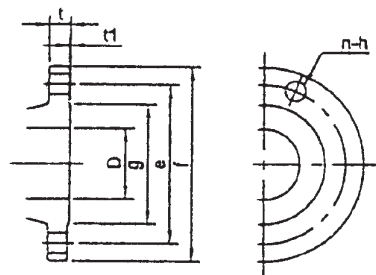
Curve No. - 2 - 5CN5608



Curve No. - 2 - 5CN5607



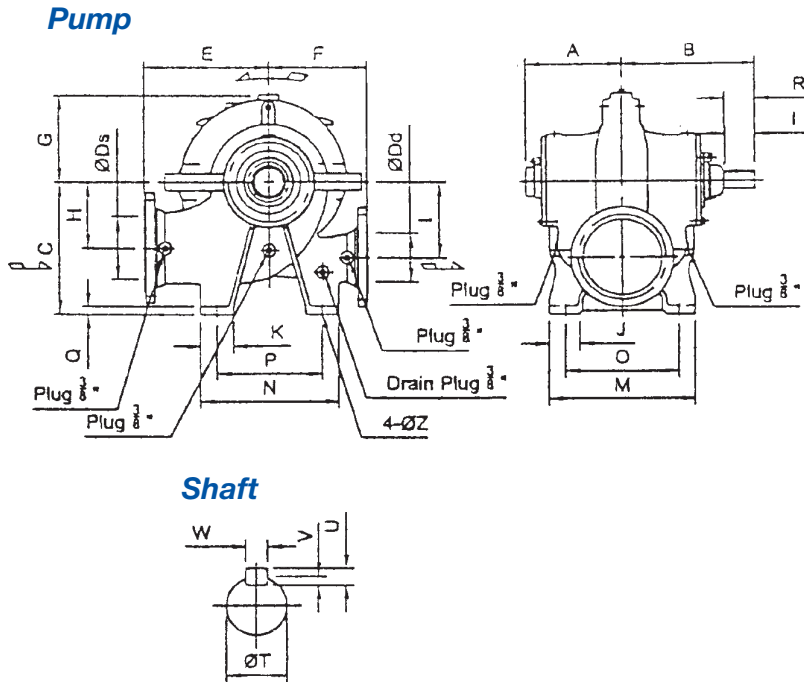
Curve No. - 2 - 5CN5605

**DIMENSION - Bare Shaft Pump CSA**
**50Hz**

**Shaft End**

**Flange**

**Dimension - Flange**

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

Unit : mm

Model	Size		Pump														Shaft							wt kg		
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U		V	W
100 x 80 CSGA	100	80	221	250	295	270	240	169	140	140	60	70	300	290	250	230	20	70	19	56	68	28	8	5	10	143
100 x 80 CSHA						280	220	185	150	160											63					200
100 x 80 CSJA						230	202	160	180	200											200					230

**DIMENSION - Bare Shaft Pump CNA**
**50Hz**

**Flange**
**Dimension - Flange**

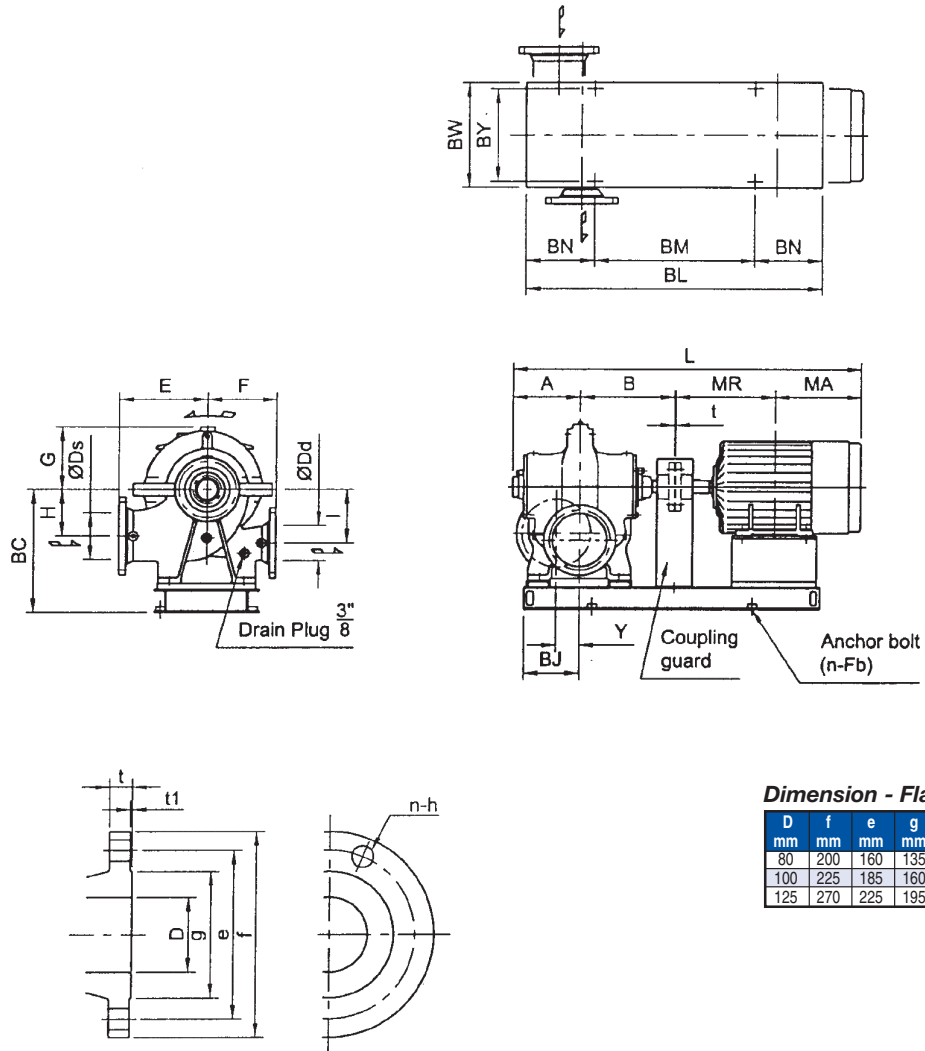
D mm	f mm	e mm	g mm	t1 mm	t mm	n	h mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25
200	350	260	230	2	28	12	25
250	430	380	345	2	34	12	27
300	480	395	345	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

**Dimension - Pump**

Unit : mm

Model	Size		Pump																	Shaft							wt kg									
	Ds	Dd	A	B	C	E	F	G	H	I	J	K	M	N	O	P	Q	Y	Z	L	R	T	U	V	W											
125 x 100 CNGA	125	100	231	350	295	290		181		150	60	70	300	290	250	230	20	-	19	80	82	38	8	5	10	209										
125 x 100 CNHA						300	250	195	150	160																195	242									
125 x 80 CNJA						330		226		190																70	80	340	320	280	250	250	250			
150 x 150 CNFA	150	150	262	370	355	330	290	205	180	170	80	90	380	360	310	270	25	-	19	80	82	38	8	5	10	253										
150 x 125 CNGA		125	271	395		260	224		190																					90	102	48	9	5.5	14	275
150 x 125 CNHA			262	370		350	280	243	190	210																				80	82	38	8	5	10	270
150 x 100 CNJA			100	271		395	390	380	290	269										240	90	100	430	400	350	300				90	102	48	9	5.5	14	330
200 x 200 CNEA	200	200				300	223		190	190	90	100	430	400	350	300	25	-	19	80	82	38	8	5	10	270										
200 x 150 CNFA		150	263	370	375	355	285	244																					90	92	48	9	5.5	14	355	
200 x 150 CNGA			282	395	390	375	295	268	200	230																			90	92	48	9	5.5	14	355	
200 x 150 CNHA			305	450	445	420	335	309		270										100	110	480	450	390	340				24	100	112	55	10	6	16	445
250 x 200 CNEA	250	200	273				243		210	210	100	110	480	450	390	340	25	-	24	80	97	38	8	5	10	360										
250 x 200 CNFA		150	282	395	445	395	315	247																					90	92	48	9	5.5	14	380	
250 x 150 CNGA			315	450		430	325	299	220	260																			110	124	65	11	7	18	605	
250 x 150 CNJA			350	500	495	470	355	346		300										110	120	550	520	450	400	30			125	141	75	12	8	20	835	
250 x 150 CNKA		382	530	500	505	430	407	290	345																				90	92	48	9	5.5	14	435	
300 x 250 CNEA		250	302	415				274		235										235									100	102	55	10	6	16	490	
300 x 200 CNFA	300	200	315	450		445	280													100	122		55	10	6	16	520									
300 x 200 CNGA			350	500		465	365	332		290										110	124	65	11	7	18	625										
300 x 200 CNHA			382	530	500	520	405	384	250	335	110	120	550	520	450	400	30			125	141	75	12	8	20	785										
300 x 150 CNJA		150	382	530	500	520	405	384	250	335	110	120	550	520	450	400	30			100	102	55	10	6	16	570										
300 x 250 CNFA	250	350	335	470		495	306													110	114	65	11	7	18	620										
300 x 250 CNGA			360	500		495	405	313		260											110	114	65	11	7	18	615									
300 x 250 CNHA			520			495	405	313		295											125	141	75	12	8	20	860									
300 x 200 CNJA		200	382	530	500	525	415	379	275	320										140	156	85	14	9	22	1070										
300 x 200 CNKA	415	585	560	570	475	436	290	380	140	150	620	700	500	550	35			26	140	156	85	14	9	22	1070											
350 x 300 CNFA	350	300	386	530		560	450	345	310	310	130									110	125	65	11	7	18	800										
350 x 250 CNGA			250	414	560		560	440	350	315	303	135	150	620	700	500	550	38		24	125	140	75	12	7.5	20	845									
350 x 250 CNHA		451	600		630	570	470	355	320	320	140									110	124	65	11	7	18	1030										
400 x 350 CNEA	400	350	451	600		630	570	470	355	320	140									110	124	65	11	7	18	1030										
400 x 350 CNFA			439	585		625	510	385	305	344	150										125	140	75	12	7.5	20	1035									

Unit : mm, unless otherwise stated

**DIMENSION - CSA Pump with Motor 4-Poles Drive**
**50Hz**

**Dimension - Flange**

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

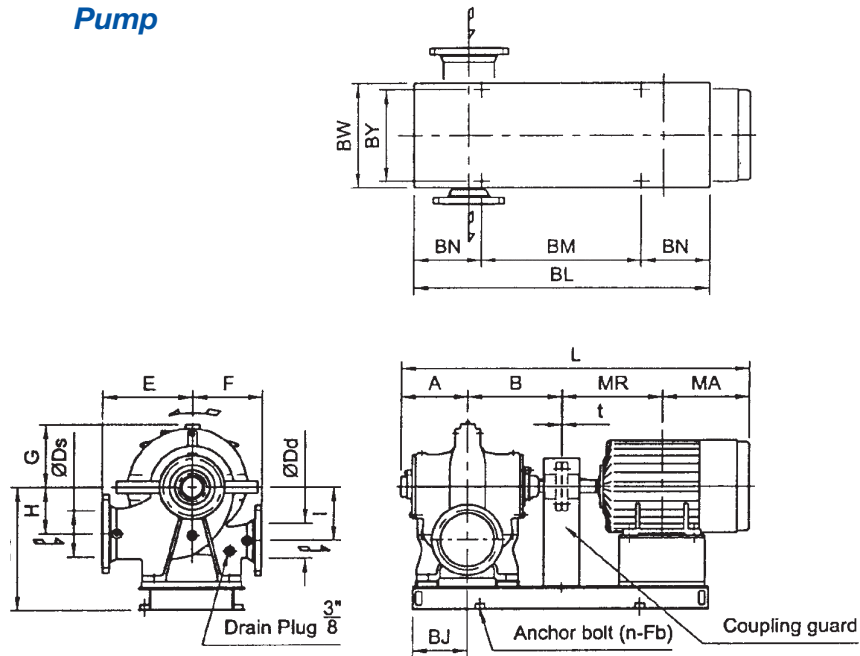
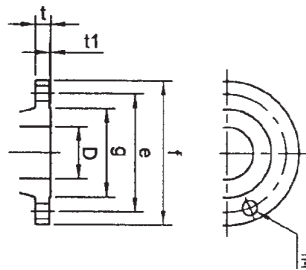
**Dimension - Pump**

Model	Motor		Pump										Motor				Common Base								Total			
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	Y	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L
100 x 80 CSGA	2.2	100	80	221	250	270	240	169	140	140	70	143	100L	193	170	30	411	170	720	420	150	380	330	4-M12	37	3	837	210
	3.7												112M	200	182	42			730	430					37		856	222
100 x 80 CSHA	5.5	100	80	221	250	280	220	185	150	160	70	165	132S	239	207	65	411	170	770	470	150	380	330	4-M12	38	3	920	268
	7.5												132M	258	226	76			810	510					39		958	280
100 x 80 CSJA	5.5	100	80	221	250	280	230	202	160	180	70	200	132S	239	207	65	411	170	770	470	150	380	330	4-M12	38	3	920	303
	7.5												132M	258	226	76			810	510					39		958	315
125 x 100 CSJA	11	125	100	247	325	350	280	263	200	230	80	280	160M	323	281	120	491	235	890	590	175	450	400	4-M16	43	3	1078	363
	15												160L	345	303	158			1080	730					79		1220	517
	18.5												180M	351.5	315.5	180			1080	730					89		1242	549
	22												180L	370.5	334.5	205			1120	690					92		1280	577
	30												200L	395.5	372.5	290			1160	730					96		1344	666

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated



**DIMENSIONS - CNA Pump with Motor 4-Poles Drive (1/6)**
**50Hz**
**Pump**

**Flange**

**Dimension - Flange**

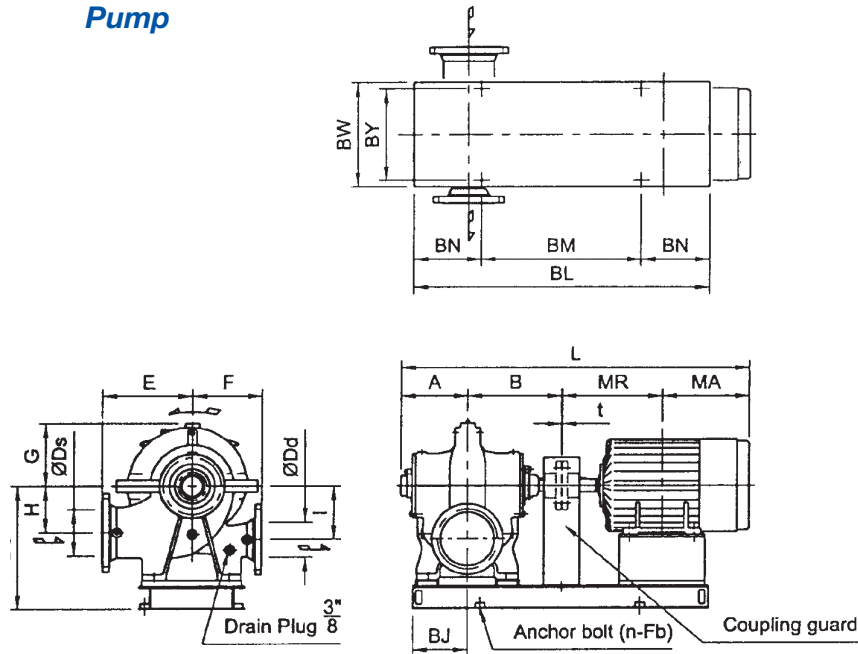
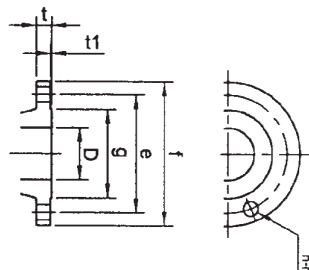
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

**Dimension - Pump**

Model	Motor		Pump								Motor				Common Base						Total							
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
125 x 100 CNGA	3.7	125	100	231	350	290	250	181	150	150	209	112M	200	182	42	411	170	830	530	150	380	330	4-M12	39	24	8	966	290
	5.5											132S	239	207	65			870	570					1030			314	
	7.5											132M	258	226	76			900	550					1068			330	
125 x 100 CNHA	7.5	125	100	231	350	300	250	195	150	160	242	132M	258	226	76	411	170	900	550	175	380	330	4-M12	45	26	8	1068	363
	11											160M	323	281	120			990	640					1188			418	
	15											160M	323	281	120			1010	780					1188			430	
125 x 80 CNJA	15	125	80	231	350	330	250	226	150	190	250	160L	345	303	158	411	190	1050	700	175	400	350	4-M16	62	28	12	1232	470
	18.5											180M	351.5	315.5	180			1060	710					1251			512	
	7.5											132M	258	226	76			970	620					1119			398	
150 x 150 CNFA	7.5	150	150	262	370	330	290	205	180	170	253	160M	323	281	120	471	210	1050	700	175	450	400	4-M16	73	26	8	1239	446
	11											160M	323	281	120			1070	640					1273			472	
	15											160L	345	303	158			1120	690					1317			512	
150 x 125 CNGA	15	150	125	262	395	330	260	224	190	190	275	180M	351.5	315.5	180	471	210	1130	700	215	450	400	4-M16	79	26	8	1336	541
	18.5											180M	351.5	315.5	180			1100	670					1302			535	
	7.5											132M	258	226	76			970	620					1119			398	
150 x 125 CNHA	11	150	125	262	370	350	280	243	190	210	270	180L	370.5	334.5	205	471	210	1140	710	215	450	400	4-M16	87	26	8	1340	562
	22											200L	395.5	372.5	290			1180	750					1404			655	
	30											200L	395.5	372.5	290			1230	800					1438			718	
150 x 100 CNJA	37	150	100	271	395	380	290	269	190	240	330	225S	432	379	320	506	235	1260	830	215	500	450	4-M16	106	26	8	1481	756
	45											225M	444.5	391.5	358			1290	860					1506			796	
	30											200L	395.5	372.5	290			1230	800					1438			718	

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CNA Pump with Motor 4-Poles Drive (2/6)**
**50Hz**
**Pump**

**Flange**

**Dimension - Flange**

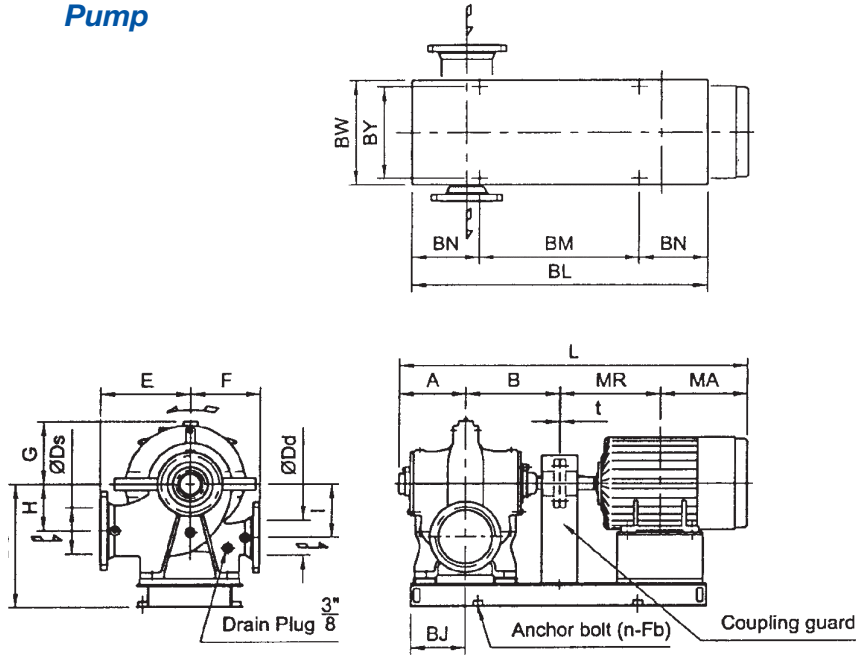
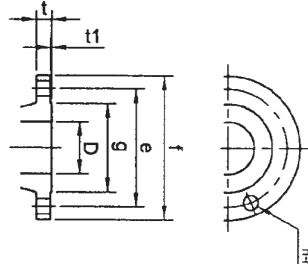
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25

**Dimension - Pump**

Model	Motor			Pump							Motor				Common Base						Total						
	kW	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
200 x 200 CNEA	7.5	200	200	263	370	355	300	223	190	190	270	132M	258	226	76	491	235	990	640	175	450	400	4-M16	74	3	1120	420
	11											160M	323	281	120			1070	720					78		1240	468
	15											160L	345	303	158			1120	690					80		1284	508
200 x 150 CNFA	15	200	150	263	370	355	286	224	190	190	280	160L	345	303	158	491	235	1120	690	215	450	400	4-M16	80	3	1284	518
	18.5											180M	351.5	315.5	180			1130	700					91		1303	551
	18.5											180M	351.5	315.5	180			1130	700					91		1303	581
200 x 150 CNGA	22	200	150	263	370	355	285	245	200	210	310	180L	370.5	334.5	205	491	235	1160	730	215	450	400	4-M16	93	4	1341	608
	30											200L	395.5	372.5	290			1210	780					97		1405	697
	37											225S	432	379	320			1240	810					105		1448	735
	30											200L	395.5	372.5	290			1230	800					98		1449	743
	37											225S	432	379	320			1260	880					106		1492	781
200 x 150 CNHA	45	200	150	282	395	375	295	268	200	230	355	250S	444.5	391.5	358	506	235	1290	660	215	500	450	4-M16	108	4	1517	821
	55											225M	463.5	409	520			1310	890					108		1517	821
	45											225M	444.5	391.5	358			1310	890					108		1517	821
	55											250S	463.5	409	520			1310	890					108		1517	821
200 x 100 CNJA	45	200	100	305	450	420	335	309	200	270	445	225M	444.5	391.5	358	561	260	1370	940	215	500	450	4-M16	117	4	1595	920
	55											250S	463.5	409	520			1390	960					155		1632	1120
	75											250M	482.5	428	580			1430	1000					159		1670	1184
	90											280S	544	463	700			1500	950					179		1766	1324
	45											225M	444.5	391.5	358			1370	940					117		1595	920

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CNA Pump with Motor 4-Poles Drive (3/6)**
**50Hz**
**Pump**

**Flange**

**Dimension - Flange**

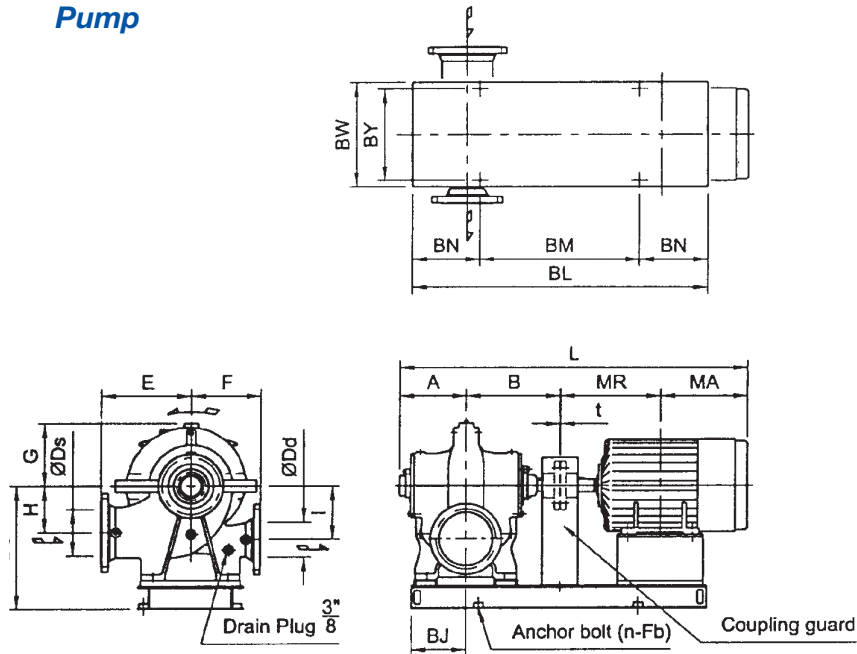
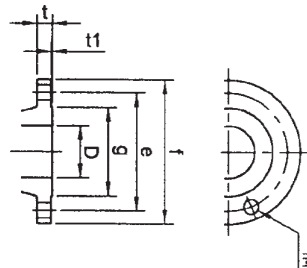
D	f	e	g	t1	t	n	h
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27

**Dimension - Pump**

Model	Motor		Pump								Motor				Common Base								Total				
	kW	Size	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L
250 x 200 CNEA	15	250	200	273	395	395	315	243	210	210	360	160L	345	303	158	541	260	1170	740	215	500	450	4-M16	90	3	1319	608
	18.5											180M	351.5	315.5	180			1180	750					103		1338	643
	22											180L	370.5	334.5	205			1210	780					107		1376	672
250 x 200 CNFA	22	250	200	282	395	395	315	247	210	210	380	180L	370.5	334.5	205	541	260	1260	830	215	500	450	4-M16	109	4	1449	779
	30											200L	395.5	372.5	290			1290	860					114		1492	814
	37											225S	432	379	320			1290	860					114		1492	814
250 x 150 CNGA	37	250	150	282	395	395	315	276	220	240	415	225S	432	379	320	561	260	1290	860	215	500	450	4-M16	114	4	1492	849
	45											225M	444.5	391.5	358			1310	880					115		1517	888
	55											250S	463.5	409	520			1330	900					153		1554	1088
250 x 150 CNHA	55	250	150	315	450	430	325	299	220	260	500	250S	463.5	409	520	586	260	1390	960	215	560	500	4-M20	155	4	1642	1175
	75											250M	482.5	428	580			1430	1000					159		1680	1239
	90											280S	544	463	700			1500	950					179		1776	1379
250 x 150 CNJA	75	250	150	350	500	470	355	346	220	300	605	250M	482.5	428	580	636	295	1520	970	175	640	580	4-M20	172	4	1765	1357
	90											280S	544	463	700			1580	1030					184		1861	1489
	110											280M	569.5	488.5	800			1640	2x645					188		1912	1592
	132											315S	589	517	1030			1650	2x650					215		1960	1850
	150											315M	614.5	552.5	1030			1700	2x875					220		2011	1855
250 x 150 CNKA	110	250	150	382	530	505	430	407	290	345	835	280M	589.5	488.5	800	666	300	1680	2x665	175	640	580	6-M20	192	4	1988	1827
	132											315S	589	517	920			1700	2x675					220		2032	1975
	150											315M	614.5	552.5	1030			1750	2x700					235		2083	2100
	185											315M	614.5	552.5	1070			1750	2x700					235		2083	2140
	220											315AB	666	830	1450			1910	2x740					270		2413	2555

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CNA Pump with Motor 4-Poles Drive (4/6)**
**50Hz**
**Pump**

**Flange**

**Dimension - Flange**

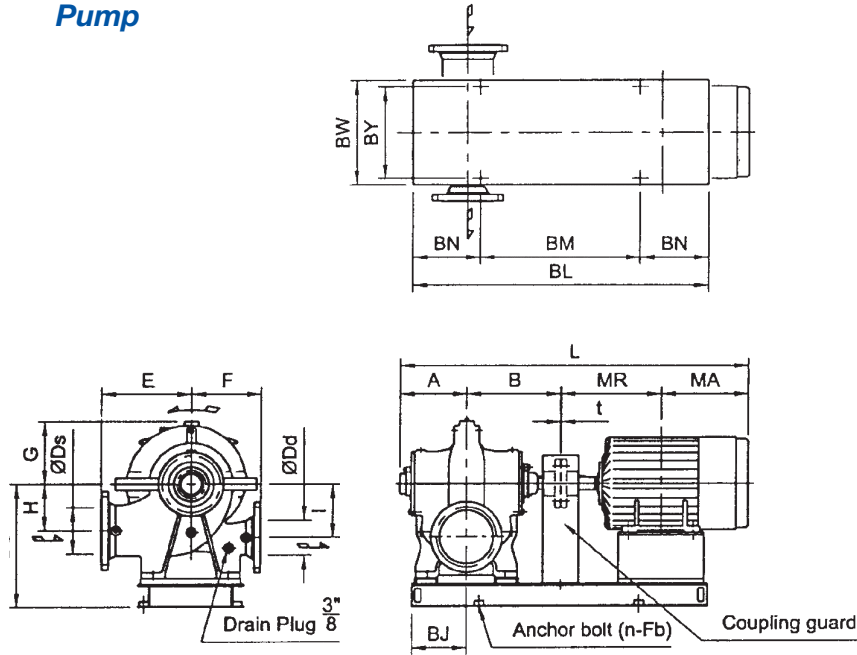
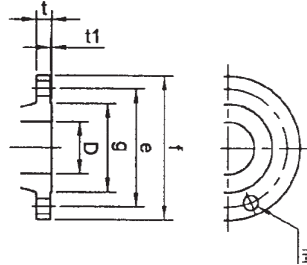
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

**Dimension - Pump**

Model	Motor			Pump							Motor				Common Base						Total						
	kW	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
300 x 250 CNEA	22	300	250	302	415	445	355	274	235	235	435	180L	370.5	334.5	205	616	295	1270	840	215	600	540	4-M20	141	4	1425	781
	200L											395.5	372.5	290	1310			880	144				1489	869			
	225S											432	379	320	1340			910	149				1532	904			
300 x 200 CNFA	37	300	200	315	450	445	355	280	235	235	490	225S	432	379	320	616	295	1370	940	215	600	540	4-M20	160	4	1580	970
	225M											444.5	391.5	358	1400			970	162				1605	1010			
	250S											463.5	409	520	1420			990	167				1642	1177			
300 x 200 CNGA	55	300	200	315	470	445	355	300	250	270	520	250S	463.5	409	520	636	295	1440	1010	215	640	580	4-M20	167	4	1662	1207
	250M											482.5	428	580	1480			1050	171				1770	1271			
	280S											544	463	700	1550			1000	183				1796	1403			
300 x 200 CNHA	90	300	200	350	500	465	365	332	250	290	625	280S	544	463	700	636	295	1580	1030	275	640	580	4-M20	184	4	1861	1509
	280M											569.5	488.5	800	1640			2x645	188	1912			1613				
	315S											589	517	1030	1650			2x650	215	1960			1870				
	315M											614.5	552.5	1030	1700			2x725	220	2011			1875				
300 x 150 CNJA	150	300	150	382	530	520	405	384	250	335	785	315M	614.5	552.5	1030	666	300	1750	2x700	175	640	580	6-M20	235	4	2083	2050
	185											315M	614.5	552.5	1070			1750	2x700	235			2083	2090			
	220											315AB	666	830	1450			1910	2x740	215			2143	2505			
	260											315CB	741	905	1660			2060	2x755	280			2563	2725			
	300											315CB	741	905	1800			2060	2x755	275			2563	2865			

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CNA Pump with Motor 4-Poles Drive (5/6)**
**50Hz**
**Pump**

**Flange**

**Dimension - Flange**

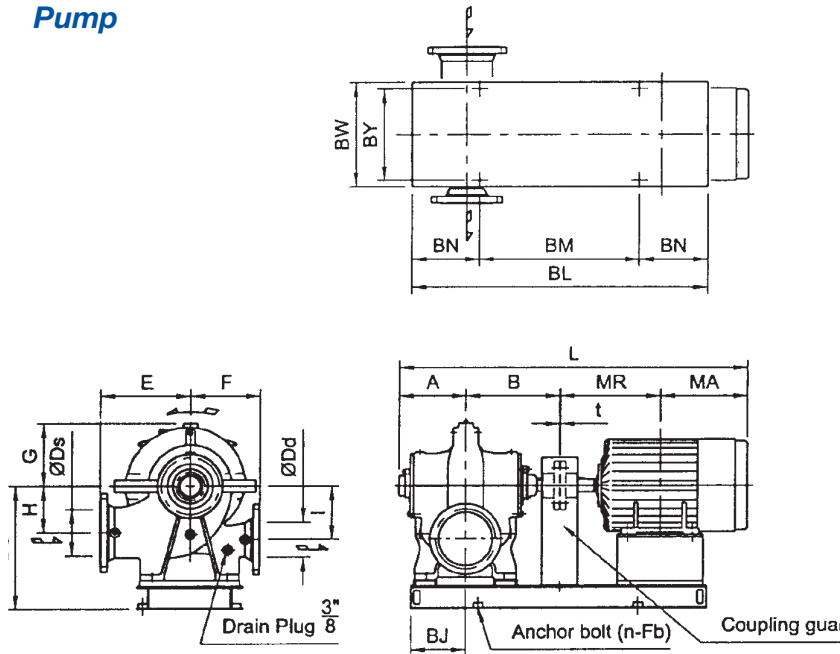
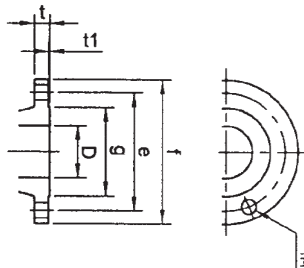
D	f	e	g	t1	t	n	h
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

**Dimension - Pump**

Model	Motor		Pump								Motor				Common Base						Total							
	kW	Ds	DD	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg	
300 x 250 CNFA	37	300	250	335	470	495	405	306	250	260	570	225S	432	379	320	636	295	1400	970	215	600	540	4-M20	160	4	1620	1050	
	45											225M	444.5	391.5	358			1410	980					162		1645	1090	
	55											250S	463.5	409	520			1440	1010					167		1682	1257	
	75											250M	482.5	428	580			1480	1050					171		1720	1321	
300 x 250 CNGA	75	300	250	360	500	495	405	313	250	260	620	250M	482.5	428	580	616	295	1370	970	275	580	520	4-M20	172	4	1775	1372	
	90											280S	544	463	700			1400	980					184		1871	1504	
	110											280M	569.5	488.5	800			1420	2x645					175		188	1922	1608
300 x 250 CNHA	110	300	250	360	500	495	405	337	275	295	615	280M	569.5	488.5	800	636	295	1440	2x645	175	640	580	6-M20	189	4	1922	1804	
	132											315S	589	517	1030			1480	2x700					216		1970	2061	
	150											315M	614.5	552.5	1030			1550	2x725					221		2021	2066	
												315M	614.5	552.5	1030			1750	2x700					235		2083	2125	
300 x 200 CNJA	150	300	200	382	530	525	415	379	275	320	860	315M	614.5	552.5	1070	666	300	1750	2x700	175	640	580	6-M20	235	4	2083	2165	
	185											315M	614.5	552.5	1070			1750	2x700					235		2083	2165	
	220											315AB	666	830	1450			1910	2x740					215		270	2413	2580
	260											315CB	741	905	1660			2060	2x755					275		280	2563	2800
	300											315CB	741	905	1800			2060	2x755					275		280	2563	2940
300 x 200 CNKA	220	300	200	415	585	570	475	436	290	380	1070	315AB	666	830	1450	735	355	2030	3x560	175	790	720	8-M22	300	5	2501	2820	
	260											315CB	741	905	1660			2180	3x610					315		2651	3045	
	300											315CB	741	905	1800			2180	3x610					315		2651	3185	
	335											315DB	841	1005	1900			2380	3x650					215		330	2851	3300
	370											355AB	779	970	2150			2240	3x630					175		320	2754	3540
	450											400CB	990	1135	2500			2620	3x690					275		350	3134	3920
												450	400CB	990	1135			2500	2620					3x690		275	350	3134

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CNA Pump with Motor 4-Poles Drive (6/6)**
**50Hz**
**Pump**

**Flange**

**Dimension - Flange**

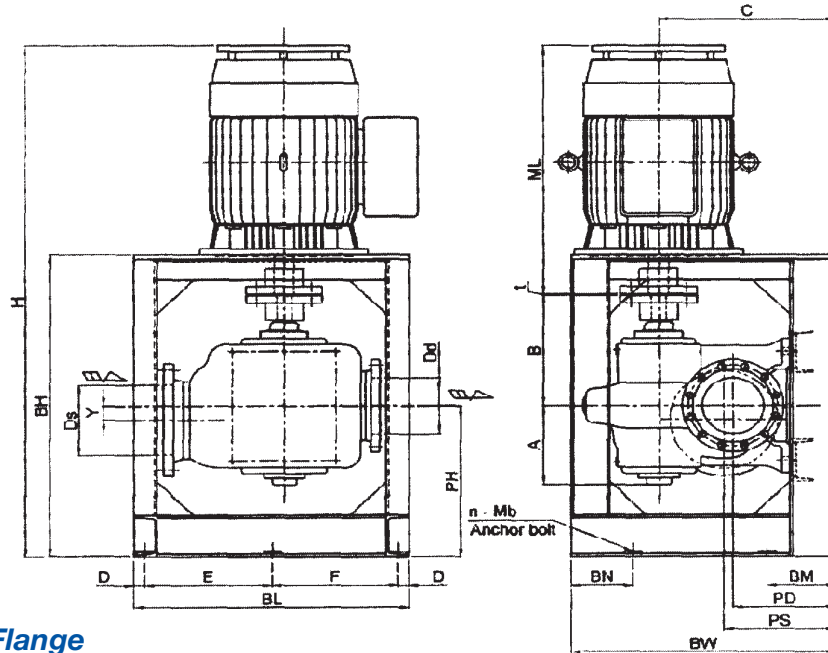
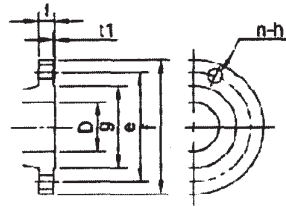
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

**Dimension - Pump**

Model	Motor			Pump							Motor				Common Base						Total						
	kW	Ds	Dd	A	B	E	F	G	H	I	wt kg	Frame	MR	MA	wt kg	BC	BJ	BL	BM	BN	BW	BY	n-Fb	wt kg	t	L	wt kg
350 x 300 CNFA	90	350	300	386	530	560	450	345	310	310	800	280S	544	463	700	775	355	1700	2x675	175	790	720	6-M22	250	4	1927	1750
	280M											569.85	488.5	800	1750			2x700	175	265				1978		1865	
	315S											589	517	1030	1770			2x710	175	270				2026		2100	
350 x 250 CNGA	132	350	250	386	530	560	450	350	310	303	790	315S	589	517	920	775	355	1820	2x695	215	790	720	6-M22	270	4	2087	1980
	315M											614.5	552.5	1030	1820			2x695	215	285				2087		2105	
	315M											614.5	552.5	1070	1820			2x695	215	285				2087		2105	
350 x 250 CNHA	185	350	250	414	560	560	440	373	315	330	845	315M	614.5	552.5	1070	775	355	1850	2x710	215	790	720	6-M22	290	4	2145	2205
	220											315AB	666	830	1450			200	2x710	275				315		2474	2610
	260											315CB	741	905	1660			2150	3x600	175				335		2624	2840
	300											315CB	741	905	1800			2150	3x600	175				335		2624	2980
	335											315DB	841	1005	1900			2350	3x640	215				350		2824	3095
400 x 350 CNEA	90	400	350	451	600	570	470	355	320	320	1030	280S	544	463	700	805	390	1810	2x730	175	790	720	8-M22	275	4	2062	2005
	110											280M	569.5	488.5	800			1860	2x715	215				285		2113	2115
	132											315S	589	517	1030			1870	2x720	215				285		2161	2345
	150											315M	614.5	552.5	1030			1920	2x745	215				295		2222	2365
400 x 350 CNFA	150	400	350	439	585	625	510	385	305	344	1035	315M	614.5	552.5	1030	805	390	1910	2x740	215	790	720	6-M22	295	4	2195	2360
	185											315M	614.5	552.5	1070			1910	2x740	215				295		2195	2400
	220											315AB	666	830	1450			2050	2x750	275				315		2524	2800

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CSA Pump with Motor 4-Poles Drive (Vertical Mount) 50Hz**
**Pump**

**Flange**

**Dimension - Flange**

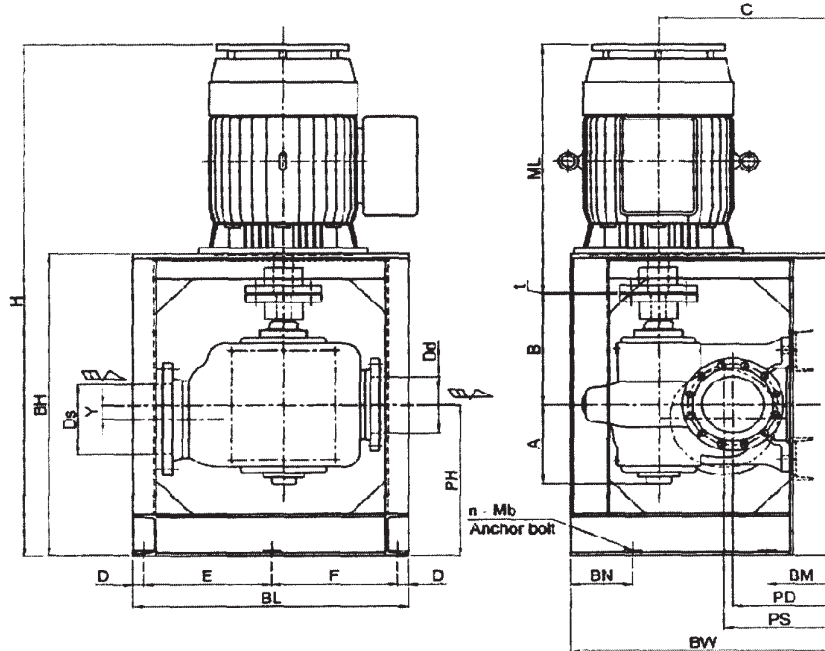
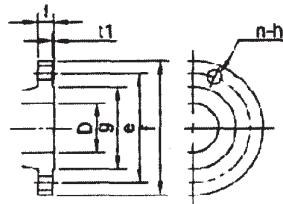
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25

**Dimension - Pump**

Model	Motor		Size							Pump							Motor							Common Base							Total						
	kW	Ds	Dd	A	B	E	F	Y	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg									
100 x 80 CSGA	2.2	100	80	221	250	270	240	70	143	100LD	363	35	650	700	561	793	150	100	6-M16	62.7	3	411	95	1105	271	437	271	240									
	3.7									112MD	422	48								62.7				1161				254									
100 x 80 CSHA	3.7	100	80	221	250	280	220	70	165	112MD	422	48	640	690	586	753	150	100	6-M16	62.7	3	411	95	1121	251	437	261	276									
	5.5									132SD	446	70								73.5				1144				309									
	7.5									132MD	484	80								73.5				1182				319									
100 x 80 CSJA	5.5	100	80	221	250	280	230	70	200	132SD	446	70	650	700	611	773	150	150	6-M16	62.1	3	411	95	1144	231	437	251	332									
	7.5									132MD	484	80								62.1				1182				342									
	11									160MD	604	128								65.2				1298				393									
125 x 100 CSJA	5.5	125	247	325	350	280	230	70	200	160LD	648	166	760	820	741	951	2000	150	6-M20	75.4	3	516	95	1490	286	510	316	521									
	18.5									180MCD	667	173								75.4				1510				528									
	22									180LCD	705	213								75.4				1548				568									
	30									200LCD	768	290								75.4				1608				645									

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CNA Pump with Motor 4-Poles Drive (Vertical Mount) (1/6) 50Hz**
**Pump**

**Flange**

**Dimension - Flange**

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
80	200	160	135	2	24	8	23
100	225	185	160	2	26	8	23
125	270	225	195	2	26	8	25
150	305	260	230	2	28	12	25

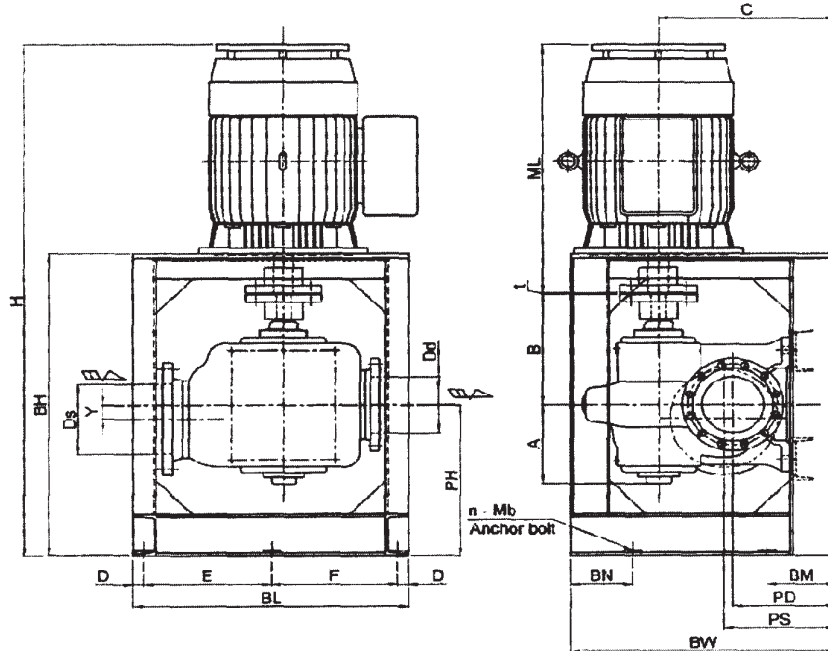
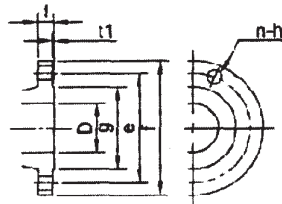
**Dimension - Pump**

Model	Motor		Pump					Motor			Common Base							Total									
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS
125 x 100 CNGA	3.7	125	100	231	350	290	250	209	112MD	431	48	680	730	586	869	150	100	6-M16	68	3	411	95	1237	261	453	261	325
	5.5								132SD	454	70												1260				348
	7.5								132MD	492	80												1298				358
125 x 100 CNHA	7.5	125	100	231	350	300	250	242	132MD	492	80	690	740	611	889	150	150	6-M16	69	3	411	95	1298	251	453	261	391
	11								180MD	608	128												1414				441
125 x 80 CNJA	11	125	80	231	350	330	250	250	160MD	608	128	720	770	611	919	150	150	6-M20	72	3	411	95	1414	221	453	261	450
	15								160LD	652	166												1458				488
	18.5								180MCD	672	173												1478				495
150 x 150 CNFA	7.5	150	150	262	370	330	290	253	132MD	492	80	760	810	671	956	200	150	6-M16	75	3	471	95	1366	301	500	291	408
	11								160MD	608	128												1481				458
	11								160MD	608	128												1540				479
150 x 125 CNGA	15	150	125	262	395	330	260	275	160LD	652	166	720	780	695	1045	200	150	6-M20	76	3	496	95	1584	306	534	306	517
	18.5								180MCD	672	173												1604				524
	18.5								180MCD	672	173												1570				520
150 x 125 CNHA	22	150	125	262	370	350	280	270	180LCD	710	213	760	820	721	1011	200	150	6-M20	77	3	496	95	1608	286	525	306	560
	30								200LCD	770	290												1668				637
	30								200LCD	770	290												1703				701
	37								225SCD	816	335												1749				748
150 x 100 CNJA	37	150	100	271	395	380	290	330	225MCD	841	378	800	860	781	1076	200	200	6-M20	83	4	531	95	1774	291	534	3-41	791
	45								225MCD	841	378												1774				791

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated



**DIMENSION - CNA Pump with Motor 4-Poles Drive (Vertical Mount) (2/6) 50Hz**
**Pump**

**Flange**

**Dimension - Flange**

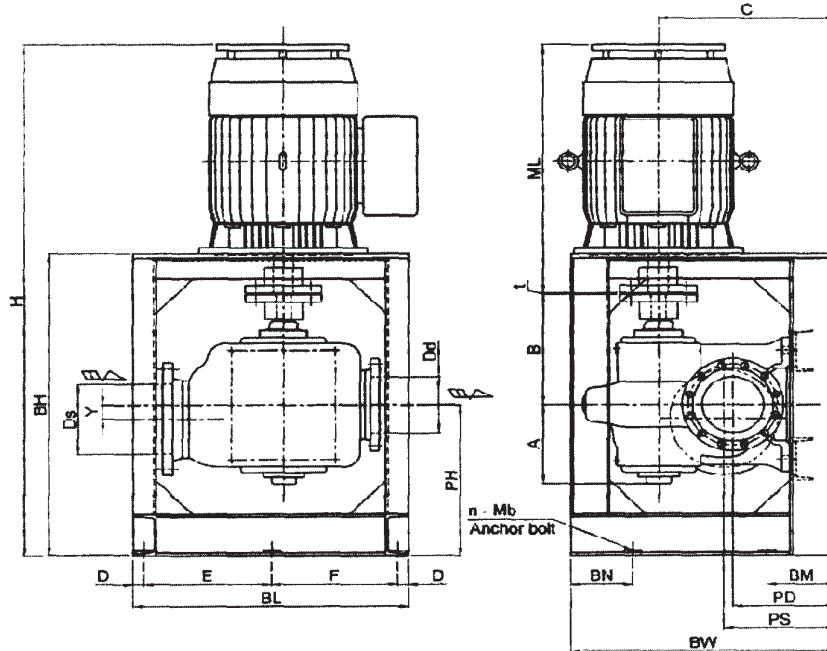
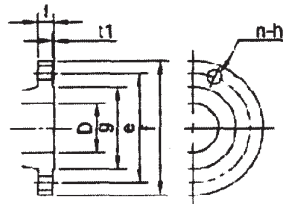
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
100	225	185	160	2	26	8	23
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25

**Dimension - Pump**

Model	Motor		Pump					Motor			Common Base						Total										
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS
200 x 200 CNEA	7.5	200	200	263	370	355	300	270	132MD	492	80	785	845	716	974	200	150	6-M20	81	3	516	95	1383	326	518	326	431
	11								160MD	608	128				1004								1499				481
	15								160LD	652	166				1543								519				
200 x 150 CNFA	15	200	150	263	370	355	285	280	160LD	652	166	770	830	716	1004	200	150	6-M20	78	3	516	95	1543	326	518	326	524
	18.5								180MCD	672	173				1563								453				
200 x 150 CNGA	18.5	200	150	263	370	355	285	310	180MCD	672	173	770	830	766	1004	200	200	6-M20	78	3	516	95	1563	306	518	316	561
	22								180LCD	710	213				1601								601				
	30								200LCD	770	290				1661								678				
	37								225SCD	816	335				1707								724				
200 x 150 CNHA	30	200	150	282	395	375	295	355	200LCD	770	290	800	860	831	1054	200	200	6-M20	82	4	531	95	1711	301	542	331	727
	37								225SCD	816	335				1757								773				
	45								225MCD	841	378				1782								816				
	55								250SCD	882.5	540				1824								978				
200 x 100 CNJA	45	200	100	305	450	420	335	445	225MCD	841	378	935	1005	915	1207	250	200	6-M22	90	4	615	125	1905	345	610	415	913
	55								250SCD	882.5	540				1947								1075				
	75								250MCD	920.5	600				1985								1135				
	90								280SCD	1022	720				2086								1265				

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CNA Pump with Motor 4-Poles Drive (Vertical Mount) (3/6) 50Hz**
**Pump**

**Flange**

**Dimension - Flange**

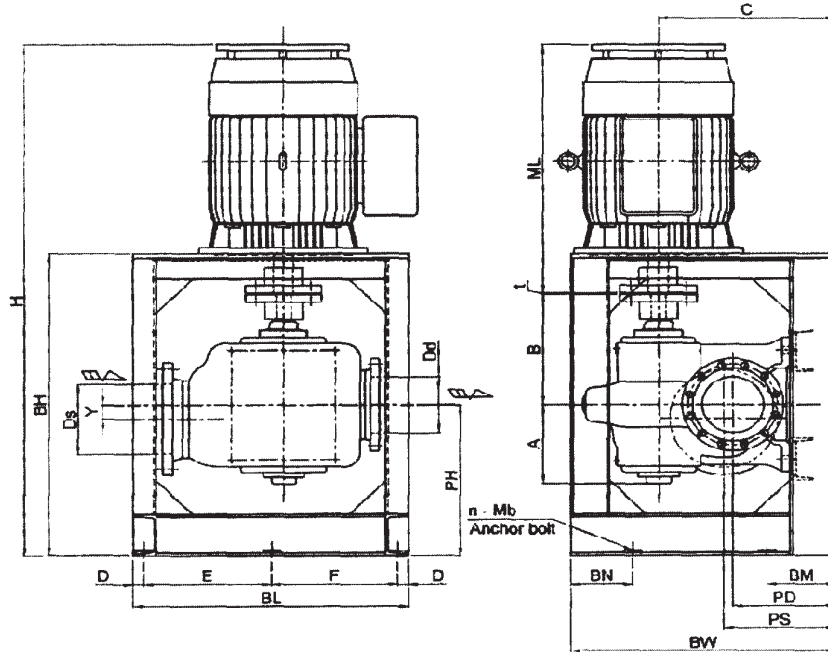
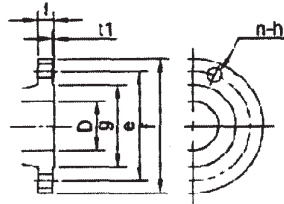
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
150	305	260	230	2	28	12	25
200	350	305	275	2	3	12	25
250	430	380	345	2	34	12	27

**Dimension - Pump**

Model	Motor		Pump					Motor			Common Base							Total										
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg
250 x 200 CNEA	15	250	200	273	395	395	315	360	160LD	552	166	900	960	770	1039	200	200	6-M20	83	3	570	125	1578	360	528	360	609	
	18.5								180MCD	672	173												1598				533	
	22								180LCD	710	213												1636				573	
250 x 200 CNFA	22	250	200	282	395	395	315	380	180LCD	710	213	900	960	820	1053	200	200	6-M20	85	3	570	125	1650	360	542	360	678	
	30								200LCD	770	290												1710				670	
	37								225SCD	816	335												1756				801	
250 x 150 CNGA	37	250	150	282	395	395	315	415	225SCD	816	335	900	960	890	1084	200	200	6-M20	87	4	590	125	1757	350	542	370	837	
	45								225MCD	841	378												1782				880	
	55								250SCD	882.5	540												1824				955	
250 x 150 CNHA	55	250	150	315	450	430	325	500	250SCD	882.5	540	935	1005	915	1217	250	200	6-M22	149	4	615	125	1957	355	620	395	1189	
	75								250MCD	920.5	600												1995				1249	
	90								280SCD	1022	720												2095				1371	
200 x 150 CNJA	75	250	150	350	500	470	355	605	250MCD	920.5	600	1005	1075	1020	1352	250	200	6-M22	162	4	665	125	2100	365	675	445	1365	
	90								260SCD	1022	720												2201				1487	
	110								260MCD	1072	820												2251				1587	
	132								315SCD	1116	1050												2295				1817	
	150								315MCD	1167	1250												2346				2017	
250 x 150 CNKA	110	250	150	382	530	505	430	835	280MCD	1072	820																	
	132								315SCD	1116	1050																	
	150								315MCD	1167	1250																	
	185																											
	220																											

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CNA Pump with Motor 4-Poles Drive (Vertical Mount) (4/6) 50Hz**
**Pump**

**Flange**

**Dimension - Flange**

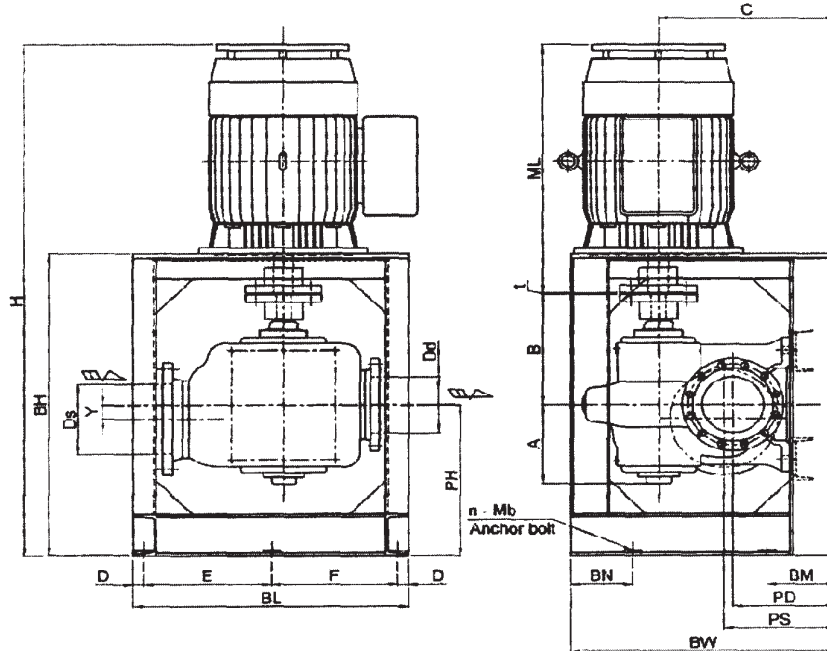
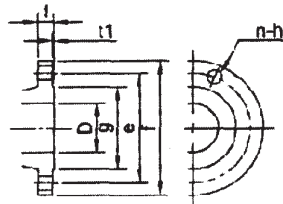
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
150	305	260	230	2	28	12	25
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

**Dimension - Pump**

Model	Motor		Pump					Motor			Common Base							Total																	
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg							
300 x 250 CNEA	22	300	250	302	415	445	355	435	180LCD	710	213	980	1050	895	1119	225	200	6-M33	146	4	465	125	1716	410	587	410	794								
	30								200LCD	770	290												1776				725								
	37								225SCD	815	335												1822				919								
300 x 200 CNFA	37	300	200	315	450	445	355	490	225SCD	816	335	980	1050	945	1217	225	200	6-M22	151	4	645	125	1890	410	620	410	976								
	45								225MCD	841	378												1915				1019								
	55								250SCD	882.5	540												1957				1030								
300 x 200 CNGA	55	300	200	315	470	445	355	520	250SCD	882.5	540	980	1050	965	1237	225	200	6-M22	154	4	665	125	1977	395	620	415	1214								
	75								250MCD	920.5	600												2015				1274								
	90								280SCD	1022	720												2116				1396								
300 x 200 CNHA	90	300	200	350	500	465	365	625	280SCD	1022	720	1010	1080	1020	1352	225	200	6-M22	162	4	665	125	2201	375	675	415	1507								
	110								280MCD	1072	820												2251				1446								
	132								315SCD	1116	1050												2295				1838								
	150								315MCD	1167	1250												2346				2038								
300 x 150 CNJA	150	300	150	382	530	520	405	785	315MCD	1167	1250																								
	185								315MCD	1167	1250																								
	220																																		
	260																																		
300																																			

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CNA Pump with Motor 4-Poles Drive (Vertical Mount) (5/6) 50Hz**
**Pump**

**Flange**

**Dimension - Flange**

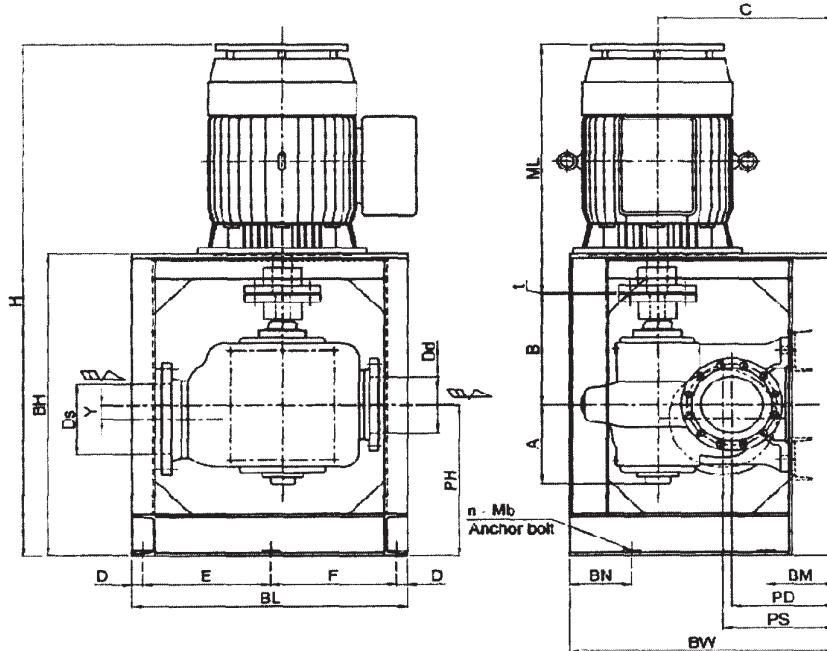
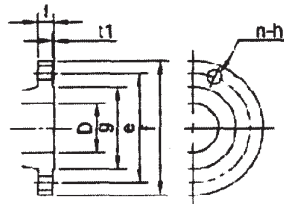
D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm	mm	mm
200	350	305	275	2	30	12	25
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27

**Dimension - Pump**

Model	Motor		Pump						Motor			Common Base							Total																	
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg								
300 x 250 CNFA	37	300	250	325	470	495	405	570	225SCD	816	335	1080	1150	965	1257	225	200	6-M22	162	4	665	125	1930	405	640	415	945									
	45								225MCD	841	378												1955				860									
	55								250SCD	882.5	540												1997				732									
	75								250MCD	920.5	540												2035				905									
300 x 250 CNGA	75	300	250	360	500	495	405	620	250MCD	920.5	600	1080	1150	965	1332	225	200	6-M22	164	4	665	125	2110	405	685	415	1119									
	90								280SCD	1022	720												2211				1164									
	110								280MCD	1072	720												2261				1160									
300 x 250 CNHA	110	300	250	360	500	495	405	615	280MCD	1072	820	1080	1150	1045	1362	225	200	6-M22	166	4	690	125	2261	395	685	415	1321									
	132								315SCD	1116	1050												2305				1381									
	150								315MCD	1167	1250												2305				1335									
300 x 200 CNJA	150	300	200	382	530	525	415	860	315MCD	1167	1250																									
	185																																			
	220																																			
	260																																			
	300																																			
300 x 200 CNKA	220	300	200	415	585	570	475	1070																												
	260																																			
	300																																			
	335																																			
	370																																			
	450																																			

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated

**DIMENSION - CNA Pump with Motor 4-Poles Drive (Vertical Mount) (6/6) 50Hz**
**Pump**

**Flange**

**Dimension - Flange**

D	f	e	g	t1	t	n	h
mm	mm	mm	mm	mm	mm		mm
250	430	380	345	2	34	12	27
300	480	430	395	3	36	16	27
350	540	480	440	3	38	16	33
400	605	540	495	3	42	16	33

**Dimension - Pump**

Model	Motor		Pump				Motor			Common Base						Total																									
	kW	Size	Ds	Dd	A	B	E	F	wt kg	Frame	ML	wt kg	BC	BL	BW	BH	BM	BN	n-Mb	wt kg	t	C	D	H	PD	PH	PS	wt kg													
350 x 300 CNFA	75	350	300	386	530				800	250MCD	921	600																													
	90									280SCD	1022	720																													
	110									280MCD	1072	820																													
250 x 250 CNGA	110	350	250	386	530				790	280MCD	1072	820																													
	132									315SCD	1116	1050																													
	150									315MCD	1167	1250																													
	186									315MBD	1167	1250																													
350 x 250 CNHA	185	350	250	414	560				845	315MBD	1167	1250																													
	220																																								
	260																																								
	300																																								
	335																																								
400 x 350 CNEA	90	400	350	451	600				1030	280SCD	1022	720																													
	110									280MCD	1072	820																													
	132									315SCD	1116	1050																													
	150									315MCD	1167	1250																													
400 x 350 CNFA	150	400	350	439	585				1045	315MCD	1167	1250																													
	185									315MBD	1167	1250																													
	220																																								

\* Common base weight includes the shaft coupling and coupling gurd. All dimension shown are for reference only. Please refer to EBARA for actual fabrication details.

Unit : mm, unless otherwise stated