

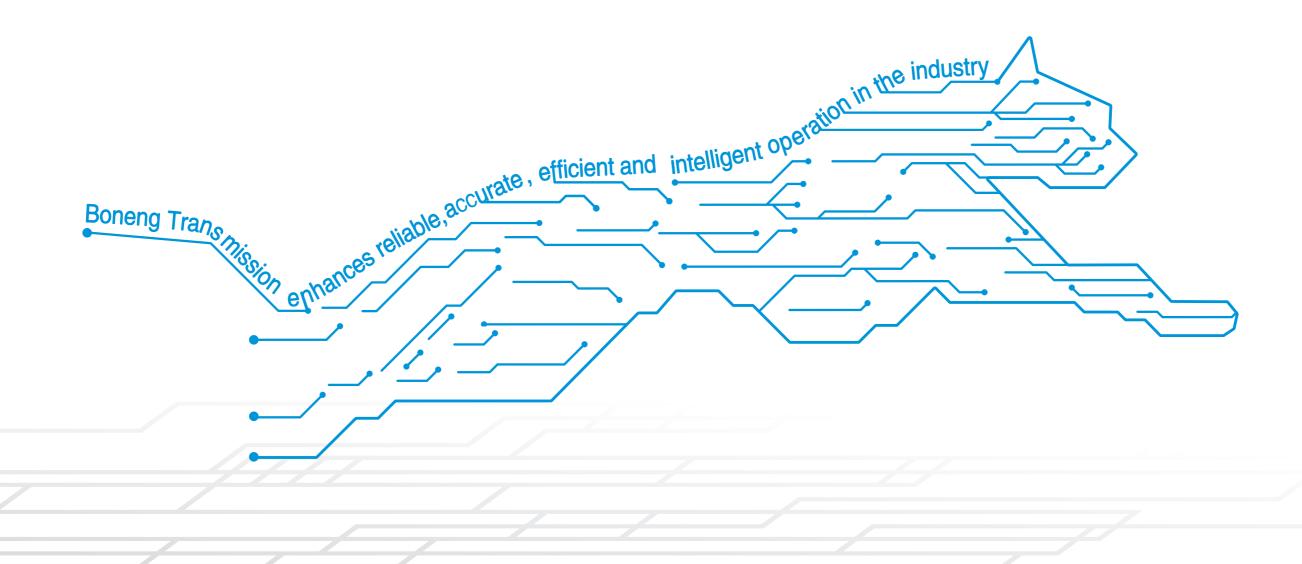


S Helical-Worm Gearmotor

Modified date 05/2020 Selection Sample C05.0027-EN

Boneng Transmission

www.motiontech.com.au



Note:

- ◆ The structure scheme, appearance diagram and other attached diagrams in sample are examples, there is no strict proportion requirement. (The unmarked dimension units are mm).
- ◆ The marked weight is average value, it has no constraint force.

AYou must conform to the following instructions:

- ◆ To prevent accidents, all the rotation parts are added with protective covers according to the safety regulations of the nation and region.
- ◆ Before debugging, you should carefully read instruction book.
- ◆ Gearbox is on running—permission status when delivered, you should add lubrication oil before putting it into running.
- ◆ The marked oil quantity in sample is only reference value, actual oil filling quantity should be the same with the mark on oil immersion lens.
- ◆ Lubrication oil viscosity should be selected according to working situation and application environment temperature of gearmotor.
- ◆ You can only apply lubrication oil of internationlly famous brand.

Product Function Mark



Oil glass



Breather



Oil filler



Oil drain

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1 Type Designation	S 2 08 H A – C32 – D1 0 0
Series	
Stages—————	
2-stage	
Size————————————————————————————————————	
Mounting Mode —	
H=Horizontal foot-mounted F=Flange-mounted S=Short flange-mounted A=Torque arm-mounted T=Torque arm-mounted with accessory	
Output Mode —	
A/B/D/E=Unidirectional output shaft C/F=Bidirectional output shaft G/H=Hollow shaft with parallel key I/J=Hollow shaft with shrink disk K/L=Hollow shaft with involute spline	
Nominal Ratio Code —	
Mounting Positions—	
D1/D2/D3/D4/D5/D6	
Accessories and Specific Configuration —	
0=None	
6=Oil compensating tank	
Oil Code	

0=Without oil filling(Please select this option when you do not need lubricating oil); 4=With mineral oil VG680(Please select this option when the ambient temperature is -20°C~+40°C, and you need lubricating oil);

Note Noter Type/ Frame Size/ Poles/Power Code

power kW	4—pole Type	6-pole Type	power kW	4-pole Type	6-pole Type	power kW	4-pole Type	6-pole Type	power kW	4-pole Type	6-pole Type
0.09	MS056M4A09		1. 1	MS090S4B11 MH090S4B11 MP090S4B11 MA090S4B11	MH090S6B11 MP090M6B11	11	MH160S4C11 MP160M4C11 MA160M4C11	MH160M6C11 MP160M6C11	110	MH315S4D11 MP315S4D11	MH315L6D11
0. 12	MH063M4A12 MP063M4A12 MA063M4A12		1. 5	MS090S4B15 MH090S4B15 MP090M4B15 MA090M4B15	MH100M6B15 MP100M6B15	15	MH160M4C15 MP160L4C15 MA160L4C15	MH180M6C15 MP180M6C15	132	MH315M4D13 MP315M4D13	MH315L6D13
0. 18	MH063M4A18 MP063M4A18 MA063M4A18	MH071M6A18 MP071M6A18	2. 2	MS100M4B22 MH100M4B22 MP100M4B22 MA100M4B22	MH112M6B22 MP112M6B22	18. 5	MH180M4C18 MP180M4C18 MA180M4C18	MH200M6C18 MP200M6C18	160	MH315L4D16 MP315L4D16	
0. 25	MH071M4A25 MP071M4A25 MA071M4A25	MH071M6A25 MP071M6A25	3	MS100M4B30 MH100M4B30 MP100M4B30 MA100M4B30	MH132S6B30 MP132S6B30	22	MH180L4C22 MP180L4C22 MA180L4C22	MH200M6C22 MP200M6C22	200	MH315L4D20 MP315L4D20	
0. 37	MH071M4A37 MP071M4A37 MA071M4A37	MH080M6A37 MP080M6A37	4	MS112M4B40 MH112L4B40 MP112L4B40 MA112L4B40	MH132M6B40 MP132S6B40	30	MH200M4C30 MP200M4C30 MA200M4C30	MH225M6C30 MP225M6C30			
0. 55	MS080M4A55 MH080M4A55 MP080M4A55 MA080M4A55	MH080M6A55 MP080M6A55	5. 5	MS132S4B55 MH132S4B55 MP132M4B55 MA132M4B55	MH132M6B55 MP132M6B55	37	MH225M4C37 MP225M4C37 MA225M4C37	MH250M6C37 MP250M6C37			
0. 75	MS080M4A75 MH080M4A75 MP080M4A75 MA080M4A75	MH090S6A75 MP090S6A75	7. 5	MS132M4B75 MH132M4B75 MP132L4B75 MA132L4B75	MH160S6B75 MP160S6B75	45	MH225M4C45 MP225M4C45 MA225M4C45	MH280S6C45 MP280S6C45			
						55	MH250M4C55 MP250M4C55 MA250M4C55	MH280M6C55 MP280M6C55			
						75	MH280S4C75 MP280S4C75 MA280S4C75	MH315S6C75 MP315S6C75			
						90	MH280M4C90 MP280M4C90 MA280M4C90	MH315M6C90 MP315M6C90			

01



MH 132S 4 B55 A C 3 – A 0 B 1 0–0 1 1 **Cable Entry Position** 1/2/3/4 Terminal Box Position 1/2/3/4 **Motor mounting Position 0** Motor protection 0=IP55 and without rainproof cover 2=IP56 and without rainproof cover 4=IP65 and without rainproof cover 1=IP55 and with rainproof cover 3=IP56 and with rainproof cover 5=IP65 and with rainproof cover Thermal Protection and Heating Protection 0=Without thermal protection 2=Thermal switch 5=Thermistor and heating belt 3= PT100 temperature sensor and heating Protection 6=Thermal switch and heating belt 1=Thermistor 4=Heating belt 7= PT100 temperature sensor and heating belt **Brake** N=Without brake A=Brake 220-240VAC G=Brake with self-lock device 220-240VAC P=Double-brakes 220-240VAC H=Brake with self-lock device 380-415VAC B=Brake 380-415VAC Q=Double-brakes 380-415VAC C=Brake 440-480VAC J=Brake with self-lock device 440-480VAC X=Double-brakes 440-480VAC D=Brake with release handle 220-240VAC K=Brake with micro switch 220-240VAC R=Double-brakes with release handle 220-240VAC E=Brake with release handle 380-415VAC I = Brake with micro switch 380-415VAC S=Double-brakes with release handle 380-415VAC F=Brake with release handle 440-480VAC M=Brake with micro switch 440-480VAC T=Double-brakes with release handle 440-480VAC Encoder 0=Without encoder 1=With encoder Cooling A=Self-fan cooling F=Driven fan Frequency/Voltage Code 1=50Hz 220V △/380VY 5=60Hz 440V△ G=60Hz 230VY 2=50Hz 230V \(\triangle /400VY 6=60Hz 460V△ H=60Hz 230V △ 3=50Hz 380V \(\tilde{\infty} \) (660VY 7=60Hz 440V Y J=60Hz 575VY 8=60Hz 460VY 4=50Hz 400V △/690VY K=60Hz 575V△ C=60Hz 480VY A=50Hz 240V △ /415VY B=50Hz 415V△ D=60Hz 480V△ Note: 3kW and below "Y", alternative code: 1,2,7,8,A,C,E; 4kW and above \(^{\text{A}}\), alternative code: 3,4,5,6,B,D,F. MA motor exclusive code: 6,8,G,H,J,Ko Frame Material L=Die-casting aluminum frame(standard configuration of 100 and below) C=Grey cast iron frame(standard configuration of 112 and above) **Mounting Mode A** Power Code¹⁾ Motor Poles¹⁾ 4=4-pole; 6=6-pole Frame Size 1) Motor Type¹⁾ MS=Three-phase asynchronous motor (IE1) MH=High efficiency three-phase asynchronous motor (IE2) MP=Premium Efficiency three-phase asynchronous motor (IE3) MA=NEMA efficiency three-phase asynchronous motor YZ=Crane and metallurgial applications three-phase asynchronous motor

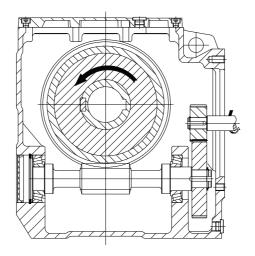
- ◆ Example of product type with input flange or input shaft: S208HA-C32-D100-AE3
- ◆ Example of product type with input flange and motor type: S208HA-C32-D100-AP132-MH132S4B55FC3-A0N10-011

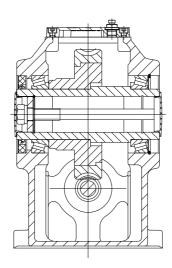
YG=Variable-frequency three-phase induction motor for roll table application

◆Combi-type Designation: S208HA/C205-D28-D100-MH080M4A75AL1-A0N00-011



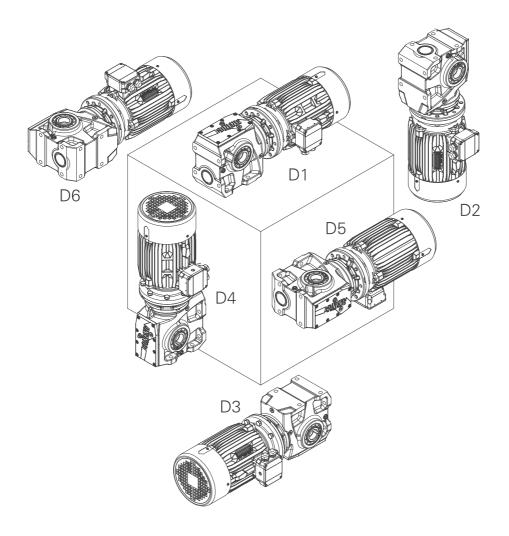
2 Sectional Drawings



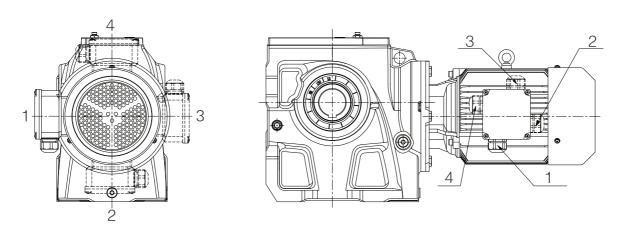




3 Mounting Positions



Motor terminal box and cable entry position (View: Motor afterbody)



Assembly colour of gearmotor (RAL5015)



4 Type Selection and Example

Step	Description	Symbol		Paran	neters	Calcula	ation an	d Guid	deline		
				101		Oper	ating ho	urs pe	r day (I	h)	
			Load	d Characteristic	5	€2		2~10		10~:	24
	<u> </u>			Uniform	1.00	(1.00)	1.0	00(1.25	5)	1.25(1	.50)
1	Driven Machine Factor	f ₁		Moderate	1.00	(1.25)	1.2	25(1.50))	1.50(1	.75)
				Heavy	1.25	(1.50)	1.5	0(1.75	5)	1.75(2	.00)
			l	e: Apply values							
				e equipment co n f1 > 1.25.	onunues	WORKING	gand the	operau	ing time	e≤ run pe	er uay,
			l oad	d characteristic		Am	bient te	mpera	ture		
					20	25	30	35	40	45	50
				Uniform	1.00	1.00	1.00	1.03	1.06	1.12	1.20
		f t		Moderate	1.00	1.01	1.02	1.06	1.12	1.16	1.30
2	Ambient temperature factor	It		Heavy	1.00	1.02	1.04	1.10	1.17	1.20	1.40
				e:The usual w orm or moder							
				input speed ≤							
			l	ft end of gear				_	,		
3	Input speed	n ₁	≤1	800r/min Co	nsult us	if highe	er speed	l requi	red.		
4	Calculation of the ratio	i	i=n ²	ı/n2							
5	Transmission efficiency	η		i=7.1–16	i=18-5	50 i=	56–112	i=12	5–500	S/C com	nbi-type
	Transmission officially	'1	η	88%	77%		62%	5	7%	57	%
6	Calculation of the input power of the gearmotor on basis of the torque and	P ₁	D1_	T2 • n1/(9550) • i • n) or P1-	-P2/ n				
	power required by the driven machine.			112 111/(0000	, , , , , , , , , , , , , , , , , , , ,	/ 01 1 1=	-1 2/ 1				
	Determination of gearmotor type referring										
7	to the table of transmission capacity after	T _{2N} ,	Tax	> To . f f.	Davis	D. f.	c.				
7	calculation, For directly—connected motor, require to refer to directly connected motor	P _{1N}	12N	≥T2 • f1 • ft o	or P1N≥	P1 • T1	• Tt				
	powertable.										
8	Check the radial and axial forces on	Fr1/Fr2	See	e P12							
	the shafts	Fa ₁ /Fa ₂									
9	Determination of lubrication system	/	Ger	nerally splas	h lubric	ation					
10	Determination of cooling system	/	Ger	nerally air co	oling						
11	Determination of every item included	/	For	details abou	ut type	desian	ation, s	ee P1			
	in the type designation				7 1						
12	Normal ambient conditions	/	l	bient tempera ude not exce					-		on,
13	Special ambient conditions	/		higher or lowe line, etc), or o							

Example

Known Criteria:

- 1. Load characteristics by the driven machine:
 - Moderate, working 8 hours/d, ambient temperature 40°C, and starting 10 times/h;
- 2. Normal motor: 4-pole,
 - speed n1=1450r/min;
- 3. The power required P₂=1kW,
 - speed $n_2=10.4r/min$;
- 4. Mounting mode: flange-mounted, unidirectional output shaft A,
 - mounting position D1, motor terminal box 2, cable entry position 1.

Selection steps:

- 1. By referring to the table of Load Characteristic,
 - we get the driven machine factor f1=1.5,
 - the ambient temperature factor f2=1.12;
- 2 Calculation of the Ratio in:
 - $i=n_1/n_2=1450/10.4=139.4$, nominal ratio $i_N=140$;
- 3. Calculation of the input power and determination of the motor power
 - (transmission efficiency $\eta = 57\%$):
 - $P_1 \ge P_2/\eta = 1/0.57 = 1.8 \text{kW}$, so 2.2kW motor is selected.
 - Refer to the directly-connected motor power table, it can be directly-connected;
- 4. Determination of the nominal power of the geared motor P1N:
 - $P_{1N} \ge P_2 \cdot f_{1}/\eta = 1 \times 1.5 \times 1.12/0.57 = 2.9 \text{kW};$
- 5. The type selected:
 - S208FA-D14-D100-MS100M4B322AL2-A0N00-021



5 Transmission Capacity5.1 S Transmission capacity

S...(iN=7.1-500)

Nominal	Nominal	Nominal	Nominal	Rated	Exact	Rated	Rated	Exact	Rated	Rated	Exact	Rated	Rated	Exact	Rated
Input Speed	Output Speed	Ratio Code	Ratio	Output Torque	Ratio	Intput Power		Ratio	•	Output Torque	Ratio	-	Output Torque	Ratio	Intput Power
n ₁ (r/min)	n _{2N} (r/min)	Code	$\mathrm{i}_{\scriptscriptstyle\mathrm{N}}$	T _{2N} (N. m)	iex	$P_{1N} \\ \text{(kW)}$	T _{2N} (N. m)	iex	P _{1N} (kW)	T _{2N} (N. m)	iex	P _{1N} (kW)	T _{2N} (N. m)	iex	P _{1N} (kW)
					S203			S204			S205			S206	
	204	B71	7. 1	55	6. 81	1. 39	110	7. 28	2.61				330	7. 03	8.1
	181	B80	8	55	7. 68	1. 24	110	8. 03	2. 36	200	7. 93	4. 35	350	8. 37	7. 2
	161	В90	9	55	8. 75	1.08	110	9. 05	2. 10	200	8. 90	3. 88	380	9. 32	7. 0
	145	C10	10	60	9.89	1.05	110	10. 3	1.84	200	10. 1	3. 43	380	10. 3	6.4
	129	C11	11.2	60	11.2	0. 92	110	11.7	1.63	220	11. 2	3. 40	380	11.6	5. 6
	116	C13	12.5	60	12. 1	0.86	110	13. 2	1.44	220	12.8	2. 97	400	12. 7	5. 4
	104	C14	14	65	14. 1	0.79	120	14. 2	1.46	220	14. 1	2. 70	430	14. 5	5. 1
	90. 6	C16	16	70	16. 0	0.75	120	15.8	1. 31	220	15.8	2. 40	450	15. 4	5. 0
	80. 6	C18	18	65	17. 6	0.73	120	17. 4	1. 36	220	18.8	2. 31	450	17. 9	4. 95
	72. 5	C20	20	70	19. 3	0.72	135	19. 7	1. 35	220	21. 1	2. 06	450	20. 5	4. 32
	64. 7	C22	22.4	75	21.0	0.70	150	22.4	1. 32	230	23.8	1. 91	450	23. 3	3. 80
	58. 0	C25	25	75	24. 0	0.62	160	25. 3	1. 25	250	26. 4	1.87	450	26. 1	3. 40
	51.8	C28	28	80	27. 1	0. 58	160	28. 7	1. 10	250	30. 3	1. 63	450	29. 1	3. 05
	46. 0	C32	31.5	80	30. 7	0. 51	160	30. 9	1.02	250	33. 2	1. 48	480	31.9	2. 96
	40.8	C36	35. 5	80	33. 0	0.48	160	35. 3	0.89	260	37. 5	1. 37	480	36. 3	2.61
	36. 3	C40	40	80	38. 7	0.41	160	38. 9	0.81	260	40. 1	1. 28	480	39. 7	2. 39
	32. 2	C45	45	85	43.8	0.38	165	43. 9	0.74	260	44. 5	1. 15	510	45. 1	2. 23
	29. 0	C50	50	85	48. 3	0.35	180	50.0	0.71	290	50. 3	1. 14	540	48. 0	2. 22
1450	25. 9	C56	56	80	55. 9	0.35	155	56. 5	0.67	245	55.8	1.08	480	53.8	2. 19
1450	23. 0	C63	63	85	63. 1	0.33	160	64.0	0.61	270	63. 9	1. 03	500	61.6	1. 99
	20. 4	C71	71	85	71.9	0. 29	160	68. 9	0. 57	300	70.3	1.05	500	70. 0	1.75
	18. 1	C80	80	85	81.3	0. 26	170	78. 2	0. 53	300	79. 2	0. 93	500	78. 3	1.56
	16. 1	C90	90	90	92. 0	0. 24	170	89. 1	0. 47	300	87.6	0.84	520	87. 2	1.46
	14. 5	D10	100	95	99. 1	0. 23	170	100.7	0.41	310	98. 9	0. 77	520	95.8	1. 33
	12.9	D11	112	90	116.0	0. 19	170	114.0	0.37	300	109.8	0. 67	520	117. 6	1. 08
	11.6	D13	125	100	131.4	0.20	170	122.8	0. 37	300	125.8	0. 64	520	129.3	1. 07
	10. 4	D14	140	100	144. 9	0.18	170	143. 7	0. 32	300	138. 3	0. 58	520	146.8	0. 94
	9. 06	D16	160	100	158. 4	0. 17	170	162. 9	0. 28	300	155. 9	0. 51	520	160. 5	0.86
	8. 06	D18	180	100	173. 2	0. 15	170	179. 6	0. 25	300	166. 6	0. 48	520	182.6	0.76
	7. 25	D20	200				170	196. 3	0. 23	300	193. 6	0. 41	520	194. 1	0.71
	6. 47	D22	224				170	214. 6	0. 21	300	217. 9	0. 37	520	224. 4	0.62
	5. 80	D25	250										520	266.8	0. 52
	5. 18	D28	280										520	283. 9	0.49
	4. 60	D32	315										520	320. 7	0. 43
	4. 08	D36	355												
	3. 63	D40	400												
	3. 22	D45	450												
	2. 90	D50	500					/Eveet r							

Note: (1) Actual output speed of the gearmotor:Actual input speed (n1)/Exact ration (iex);
(2) Rated input power corresponding to actual input speed of the gearmotor:P1N=T2N*n1/ (9550*iex),the rated output torque T2N in the formula remains unchanged.



Rated Output Torque	Exact Ratio	Rated Intput Power	Rated Output Torque	Exact Ratio	Rated Intput Power	Rated Output Torque	Exact Ratio	Rated Intput Power	Rated Output Torque	Exact Ratio	Rated Intput Power	Rated Output Torque	Exact Ratio	Rated Intput Power
T _{2N} (N • m)	iex	P _{1N} (kW)	$T_{2N} \\ \text{(N} \cdot \text{m)}$	iex	$P_{\rm 1N} \\ _{\rm (kW)}$	$T_{2N} \\ \text{(N} \cdot \text{m)}$	iex	P _{1N} (kW)	$T_{2N} \\ \text{(N • m)}$	iex	P _{1N} (kW)	T _{2N} (N • m)	iex	$P_{1N} \\ \text{\tiny (kW)}$
	S207			S208			S209			S210			S212	
700	7. 41	16. 3												
750	8. 44	15. 3												
750	9. 35	13.8	1300	9.80	22. 9									
750	10. 7	12. 1	1300	11. 1	20. 1									
750	12. 1	10. 7	1300	12. 9	17. 4									
820	13.6	10.4	1300	14. 1	15. 9									
880	15. 5	9.8	1450	15. 8	15.8									
850	17. 2	9. 7	1380	17. 4	15. 7	2700	18.4	28. 9	3800	17. 9	41.8	7000	18. 1	76
950	19. 7	9. 5	1550	20. 1	15. 2	2700	21.0	25. 4	3800	19. 6	38. 2	7000	20. 2	68
1000	22. 2	8. 9	1600	21.4	14.8	2700	24. 3	21. 9	4000	23. 2	34. 0	7000	23.8	58
1050	23. 9	8. 7	1600	24. 3	13. 0	2900	26. 5	21.6	4100	26. 0	31. 1	7400	25. 9	56
1050	27. 2	7.6	1600	29.8	10.6	3100	29.8	20.5	4300	27. 7	30.6	7700	30. 2	50
1100	30. 1	7.2	1600	32. 6	9. 7	3300	32.6	19.9	4600	31. 7	28.6	8200	33. 5	48. 3
1100	34. 5	6. 3	1600	37. 7	8.4	3300	37. 7	17. 3	4700	35. 3	26. 3	8600	35. 5	47.8
1100	38. 8	5. 6	1600	40. 2	7.8	3300	40.2	16. 2	4700	40.0	23. 2	8600	40. 3	42.0
1100	43.4	5. 00	1600	45. 7	6. 9	3300	47.1	13.8	4700	44.8	20. 7	8700	45. 1	38. 0
1100	48.3	4. 49	1700	48. 9	6.8	3600	50. 5	14. 1	4900	51.2	18. 9	9000	50. 1	35. 4
1000	57.6	4. 25	1400	57. 8	5. 9	3300	54. 7	14.8	4400	55. 0	19. 6	8000	55. 4	35. 4
1100	64.8	4. 16	1500	65. 0	5. 7	3300	59. 6	13. 6	4700	60. 2	19. 1	8600	62.0	34.0
1100	70. 9	3. 80	1700	71. 2	5.8	3300	72. 9	11. 1	4600	71. 2	15.8	8600	73. 1	28.8
1100	83.3	3. 23	1800	82. 3	5. 4	3300	82.9	9.8	4600	79.8	14. 1	8600	79. 3	26. 5
1100	91.9	2. 93	1900	87. 7	5. 3	3300	88. 7	9. 1	4700	85. 2	13. 5	8500	92.6	22. 5
1200	105. 5	2. 79	2000	102. 9	4. 76	3300	104. 7	7. 7	4900	97.4	12. 3	9250	102. 7	22. 1
1200	118.6	2. 48	2000	115.7	4. 23	3600	117.8	7. 5	5000	112.3	10. 9	9000	108.9	20. 2
1200	132.6	2. 41	2000	126. 9	4. 20	3700	129. 1	7. 6	5200	128. 4	10.8	9200	121.5	20. 2
1300	147.6	2. 35	2100	146.6	3. 82	3800	149. 1	6.8	5300	142.8	9. 9	9500	134. 6	18.8
1300	161.8	2. 14	2200	156. 3	3. 75	3900	159. 0	6. 5	5400	161.9	8. 9	9600	162. 3	15.8
1300	175. 9	1. 97	2300	180. 5	3. 39	4000	183. 7	5. 8	5600	181.5	8. 2	9900	181.5	14.5
1300	197. 7	1. 75	2300	205. 2	2. 99	4000	208.8	5. 1	5600	207. 1	7. 2	10200	201.6	13. 5
1300	216.6	1.60	2300	228.0	2.69	4000	232. 0	4. 59	5700	220.8	6. 9	10200	236. 0	11.5
1300	254. 3	1. 36	2300	256. 5	2. 39	4000	261.0	4. 08	5700	253.8	6. 0	10200	253. 7	10.7
1300	282.6	1. 23	2300	282. 2	2. 17	4000	287. 1	3. 71	5700	285. 4	5. 3	10200	285. 2	9. 5
1300	310.9	1.11	2300	308.3	1. 99	4000	313. 7	3. 40	5700	315. 2	4. 82	10200	328. 2	8.3
1300	350.6	0.99	2300	357.0	1.72	4000	363. 3	2. 93	5700	354. 4	4. 28	10200	365. 1	7. 4
			2300	393.8	1.56	4000	400. 7	2. 66	5700	419. 2	3. 62	10200	429. 4	6.3
			2300	465.0	1.32	4000	473. 2	2. 25				10200	466. 1	5.8
			2300	519.7	1. 18	4000	528.8	2.01						



5.2 S.../C... Combi-type transmission capacity S.../C... (iN=200-18000)

Nominal	Nominal	Nominal	Nominal	Rated	Exact	Rated	Rated	Exact	Rated	Rated	Exact	Rated	Rated	Exact	Rated
Input Speed	Output Speed	Ratio Code	Ratio	Output Torque	Ratio	Intput Power		Ratio	-	Output Torque	Ratio		Output Torque	Ratio	Intput Power
n_{1N}	n_{2N}	Code	$i_{ m N}$	T_{2N} (N • m)	iex	P _{1N} (kW)	T_{2N} $(N \cdot m)$	iex	P _{IN} (kW)	T_{2N} (N • m)	iex	P _{1N} (kW)	T_{2N} $(N \cdot m)$	iex	P _{1N} (kW)
(r/min)	(r/min)	code	T _N		S203/C20			204/C20			S205/C20			206/C20	
	7. 25	D20	200=35, 5×5, 6	100	190. 1	0. 14	180	203. 3	0. 24	310	217. 9	0.38	540	210. 9	0. 68
	6. 47	D22	224=35. 5×6. 3	100	212. 5	0. 13	180	227. 3	0. 21	310	237. 0	0.35	540	229. 4	0.63
	5. 80	D25	250=35. 5×7. 1	100	225. 7	0.12	180	241.5	0. 20	310	266. 3	0. 31	540	257. 7	0. 56
	5. 18	D28	280=35. 5×8	100	255. 8	0.10	180	273.6	0.18	310	300.8	0. 27	540	291.1	0. 49
	4. 60	D32	315=35. 5×9	100	302.0		180	323.0	0. 15	310	333.8	0. 25	540	323. 1	0.45
	4.08	D36	355=35. 5×10	100	336. 6		180	360. 1	0.13	310	382. 5	0. 22	540	370.3	0.39
	3. 63	D40	400=35. 5×11. 2	100	376. 2		180	402.4	0.12	310	420.0	0. 20	540	406.6	0. 35
	3. 22	D45	450=35. 5×12. 5	100	399.3		180	427. 1	0. 11	310	472.5	0. 17	540	457.4	0.31
					S203/C30	1	S	204/C30	1						
	2. 90	D50	500=35. 5×14	100	475. 2		180	508. 3		310	506. 3	0. 16	540	490. 1	0. 29
											S205/C30	3	S	206/C30	3
	2. 59	D56	560=35. 5×16	100	544. 5		180	582. 5		310	573.8	0. 14	540	555. 4	0. 26
	2. 30	D63	630=35. 5×18	100	620. 4		180	663. 6		310	648.8	0. 13	540	628. 0	0. 23
	2. 04	D71	710=35. 5×20	100	673. 2		180	720. 1		310	738.8	0.11	540	715. 1	0. 20
	1 01		000 05 5 00 4	100	500 C		100	700 F		010	000 5		5.40	005.0	0.10
	1.81	D80	800=35. 5×22. 4	100	732. 6		180	783. 7		310	832. 5		540	805. 9	0. 18
	1.61	D90	900=35. 5×25	100	811.8		180	868. 4		310	945. 0		540	914. 8	0. 16
	1. 45	E10	1000=35. 5×28	100	907. 5		180	970.8		310	1009		540 540	976. 5	0. 15
	1. 29	E11	$1120=35.5\times31.5$ $1250=35.5\times35.5$	100	1066 1168		180 180	1140 1250		310 310	1136 1294		540	1100 1252	0. 13
	1. 16 1. 04	E13	1400=35. 5×30. 5	100	1267		180	1356		310	1466		540	1419	0.11
	0. 91	E14	1600=35. 5×45	100	1528		180	1634		310	1658		540	1604	
	0. 81	E16 E18	1800=35. 5×50	100	1709		180	1829		310	1785		540	1728	
1450	0. 73	E20	2000=35. 5×56	100	1815		180	1942		310	2089		540	2022	
	0. 65	E22	2240=63×35. 5	100	2234		180	2266		310	2205		540	2125	
	0. 58	E25	2500=63×40	100	2423		180	2458		310	2498		540	2409	
	0. 52	E28	2800=63×45	100	2922		180	2963		310	2824		540	2723	
	0.46	E32	3150=63×50	100	3269		180	3315		310	3042		540	2932	
	0.41	E36	3550=63×56	100	3471		180	3520		310	3559		540	3431	
	0.36	E40	4000=63×63	100	3836		181	3891		310	4038		540	3893	
	0. 32	E45	4500=63×71	100	4499		182	4563		310	4447		540	4287	
	0. 29	E50	5000=63×80	100	5111		183	5184		310	4863		540	4688	
	0. 26	E56	5600=63×90	100	5515		184	5594		310	5316		540	5125	
	0. 23	E63	6300=160×40							310	6096		540	6276	
	0. 20	E71	7100=160×45							310	6891		540	7094	
	0.18	E80	8000=160×50				ļ			310	7421		540	7640	
	0.16	E90	9000=160×56							310	8684		540	8940	
	0. 15	F10	10000=160×63							310	9853		540	10144	
	0. 13	F11	11200=160×71							310	10851		540	11171	
	0. 12	F13	12500=160×80				.			310	11864		540	12214	
	0. 10	F14	14000=160×90							310	12971		540	13354	
	0.09	F16	16000=160×100												
	0.08	F18	18000=160×112												
	0.07	F20	20000=160×125												
	0.07	F22	22000=160×140												
	0.06	F24	24000=160×160												
L	0.06	F26	26000=160×180												

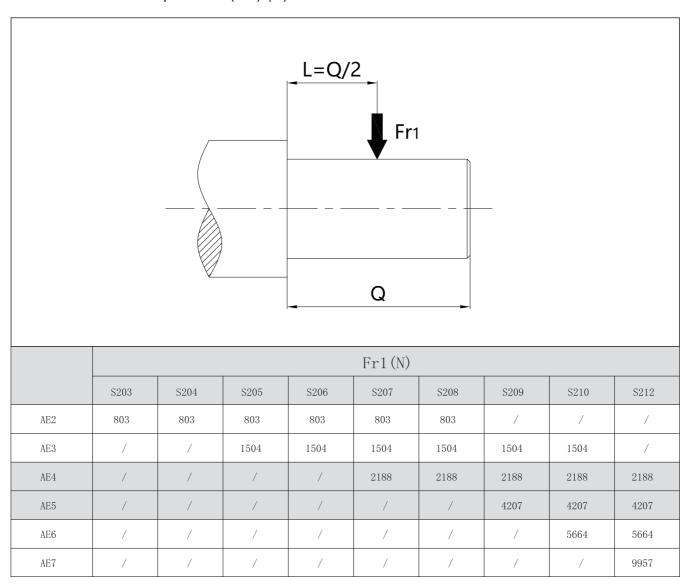


Rated Output Torque	Exact Ratio	Rated Intput Power	Rated Output Torque	Exact Ratio	Rated Intput Power	Rated Output Torque	Exact Ratio	Rated Intput Power	Rated Output Torque	Exact Ratio	Rated Intput Power	Rated Output Torque	Exact Ratio	Rated Intput Power
T_{2N}	iex	P_{1N}	T_{2N}	iex	P_{1N}	T_{2N}	iex	P_{1N}	T_{2N}	iex	P_{1N}	T_{2N}	iex	P_{1N}
(N • m)		(kW)	(N • m)		(kW)	(N • m)		(kW)	(N • m)		(kW)	(N • m)		(kW)
	S207/C203			S208/C205			S209/C205	5		S210/C207	7		S212/C208	i
1300	200. 4	1. 73	2300	219.8	2. 79									
1300	218. 0	1. 59	2300	245. 8	2. 49	1000	050.0	0.00	5500	050.0	2.00	10000	050 4	10.50
1300	245. 0	1.41	2300	273. 3	2. 24	4000	273. 3	3.90	5700	252. 0	6. 02	10200	258. 1	10. 53
1300	276. 7	1. 25	2300	300.8	2. 04	4000	300.8	3.54	5700	287. 0	5. 29	10200	282. 9	9. 60
1300	307. 1	1. 13	2300	341.6	1. 79	4000	341.6	3. 12	5700	318. 1	4. 77	10200	326. 6	8. 32
1300	351. 9 386. 4	0. 98	2300	364. 2	1. 68	4000	364. 2	2. 93 2. 62	5700 5700	363. 6	4. 18	10200	369. 2	7. 36
1300	380. 4	0. 90	2300	407. 2	1. 50	4000	407. 2	2.02		409. 5 S210/C307	3. 71	10200	401. 2	6. 77
1300	434. 7	0.80	2300	452. 4	1. 35	4000	452. 4	2. 36	5700	444. 8	3. 41	10200	450. 9	6. 03
1300	404.7	0.80	2300	402.4	1. 55	4000	402.4	2. 50	3700	444.0	3. 41	10200	450.5	0.03
1300	465, 8	0.74	2300	565, 5	1. 08	4000	565, 5	1.88	5700	511.9	2. 97	10200	493. 5	5. 51
	S207/C303	ļ	2300	303. 3	1.00	4000	505.5	1.00	3700	311.3	2. 31	10200	455.5	0.01
1300	527. 9	0.66	2300	618. 3	0. 99	4000	618. 3	1.72	5700	543. 6	2. 79	10200	571. 6	4. 75
1300	527. 9	0. 58	2300	705. 0	0. 99	4000	705. 0	1.72	5700	624. 8	2. 43	10200	610.6	4. 45
1300	550. 5	0.00	2300	700.0	0.01	4000	100.0	1. J1	3100	024.0	2.40		S212/C308	
1300	679. 7	0.51	2300	750. 2	0.82	4000	750, 2	1.42	5700	730. 7	2.08	10200	710. 0	3. 83
1300	013.1	0.01		S208/C305			S209/C305		3100	130.1	2,00	10200	110.0	0.00
1300	765. 9	0. 45	2300	844. 5	0. 73	4000	844. 5	1. 26	5700	819. 0	1.85	10200	784. 6	3. 46
1300	869. 4	0. 40	2300	950. 0	0. 64	4000	950. 0	1. 12	5700	935. 5	1. 62	10200	901. 7	3. 01
1300	928. 1	0. 37	2300	1071	0. 57	4000	1071	1.00	5700	999. 0	1. 52	10200	1015	2. 68
1300	1045	0. 33	2300	1188	0. 52	4000	1188	0. 90	5700	1144	1. 33	10200	1125	2. 41
1300	1190	0. 29	2300	1361	0. 45	4000	1361	0. 78	5700	1303	1. 17	10200	1292	2. 10
1300	1349	0. 26	2300	1497	0. 41	4000	1497	0.71	5700	1341	1. 13	10200	1456	1.87
1300	1525	0. 23	2300	1776	0. 35	4000	1776	0.60	5700	1539	0. 99	10200	1562	1. 74
1300	1642	0. 21	2300	1972	0. 31	4000	1972	0. 54	5700	1747	0.87	10200	1779	1.53
1300	1922	0. 18	2300	2258	0. 27	4000	2258	0. 47	5700	1956	0. 78	10200	1974	1.38
1300	2236	0. 15	2300	2347	0. 26	4000	2152	0. 50	5700	2221	0. 68	10200	2257	1. 20
										ı			S212/C307	
1300	2534	0. 14	2300	2581	0. 24	4000	2366	0. 45	5700	2288	0.66	10200	2356	1. 15
1300	2864	0.12	2300	3062	0. 20	4000	2807	0.38	5700	2625	0. 58	10200	2703	1.01
1300	3084	0.11	2300	3400	0. 18	4000	3117	0.34	5700	2980	0. 51	10200	3069	0.89
1300	3609		2300	3894	0. 16	4000	3570	0.30	5700	3335	0.46	10200	3435	0. 79
1300	4095		2300	4277	0. 14	4000	3922	0. 27	5700	3714	0.41	10200	3825	0.71
1300	4510		2300	4823	0. 13	4000	4422	0. 24	5700	4082	0.37	10200	4204	0.65
1300	4931		2300	5155	0. 12	4000	4726	0. 23	5700	4635	0.33	10200	4774	0. 57
1300	5391		2300	5993	0. 10	4000	5495	0.19	5700	5767	0. 26	10200	5940	0.46
1300	6326		2300	6205		4000	6312	0.17	5700	6152	0. 25	10200	6167	0. 44
1300	7152		2300	7362		4000	7489	0.14	5700	7059	0.22	10200	7076	0.38
1300	7702		2300	8174		4000	8316	0.13	5700	8014	0.19	10200	8034	0. 34
1300	9012		2300	9362		4000	9524	0.11	5700	8969	0.17	10200	8991	0. 30
1300	10226		2300	10285		4000	10462		5700	9989	0.15	10200	10014	0. 27
1300	11261		2300	11597		4000	11798		5700	10977	0.14	10200	11004	0. 25
1300	12313		2300	12395		4000	12609		5700	12466	0.12	10200	12497	0. 22
1300	13462		2300	14411		4000	14660		5700	15510	0.10	10200	15548	0. 17
			2300	16208		4000	16488		5700	16481		10200	16522	0. 16
			2300	17709		4000	18015		5700	19056		10200	19103	0. 14
			2300	19412		4000	19748		5700	20157		10200	20206	0. 13
			2300	21101		4000	21465		5700	22666		10200	22722	0. 12
									5700	24107		10200	24166	0. 11
									5700	27232		10200	27299	



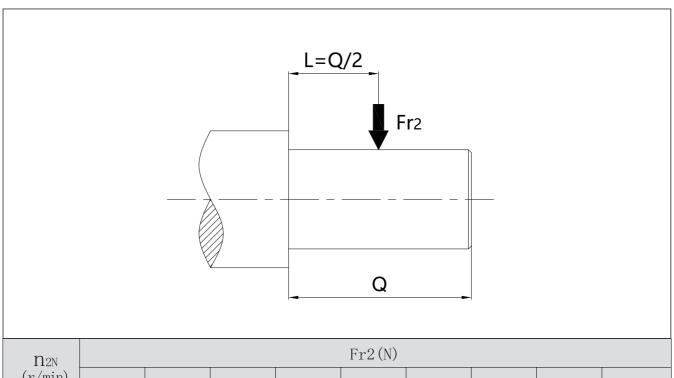
6 Permissble Radial Force

6.1 Radial force on input shaft (Fr1) (N)





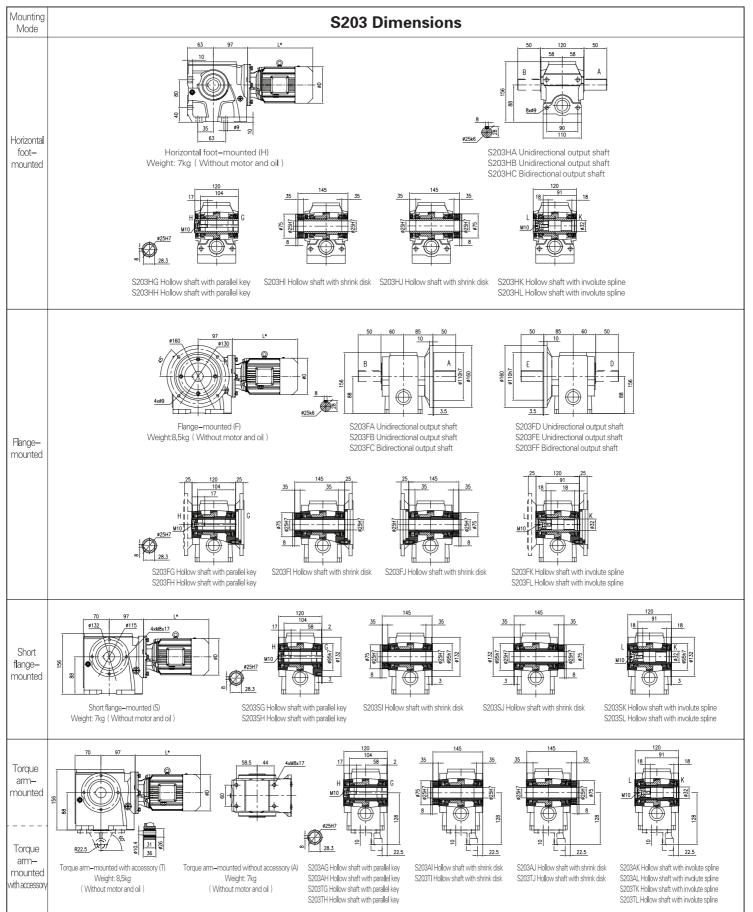
6.2 Radial force on output shaft (Fr2) (N)



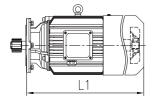
n _{2N}					Fr2(N)				
(r/min)	S203	S204	S205	S206	S207	S208	S209	S210	S212
200~224	370	520	860	860	870	3170	3620	5190	7270
180~200	460	650	1080	1070	1090	3960	4530	6490	9090
160~180	580	810	1350	1340	1360	4950	5660	8110	11360
125~160	720	1010	1680	1670	1700	6190	7070	10140	14200
112~125	900	1270	2110	2090	2120	7740	8840	12680	17760
100~112	1120	1580	2630	2610	2650	9680	11050	15850	22200
90~100	1400	1980	3290	3270	3310	12100	13820	19810	27740
80~90	1760	2480	4110	4090	4140	15120	17270	24760	34680
56~80	2151	3035	5041	5007	5075	18530	21165	30345	42500
45~56	2380	3332	5542	5304	6265	20995	24650	35275	47600
40~45	2380	3502	5814	5559	6571	22100	25840	36975	49725
35.5~40	2550	3502	5950	6163	6919	23035	26605	38063	51255
31.5~35.5	2550	3766	6222	6163	7438	23970	27880	39950	53720
28~31.5	2550	4004	6392	6851	7659	24650	28985	41565	56100
26.5~28	2550	4123	6392	6851	8203	24650	29325	43095	60350
22. 4~26. 5	2550	4522	6392	7370	9860	24650	29325	43095	60350
€22. 4	2550	4556	6392	7378	10455	24650	29325	43095	60350



7 Dimensions







Fan



Driven fan



Brake +Fan



Double brake



Brake +Driven fan



Encorder an +Driven fan



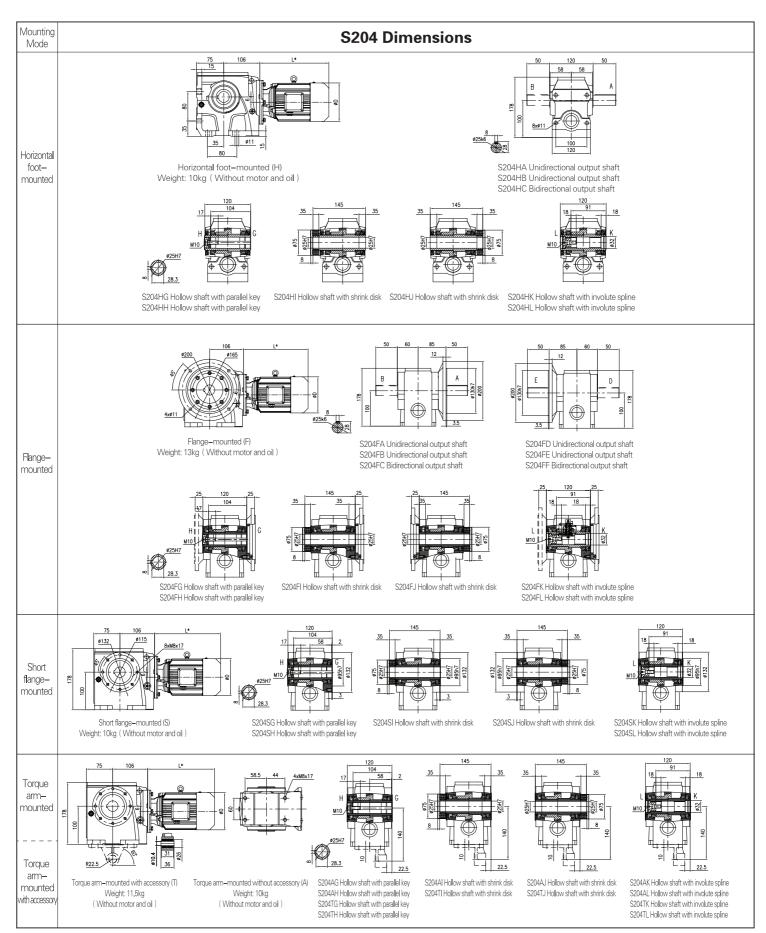
Brake +Encorder +Driven fan

Directly connected motor dimension table

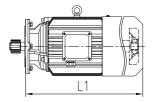
4-pole	Range of				MS						N	¶H					M	I P					M	IA			D
power (kW)	Ratio	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	ע
0. 12	7. 1–180	/	261	241	/	296	/	/	206	261	241	296	/	/	206	261	241	296	/	/	206	261	241	296	/	/	124
0. 18	7. 1-180	/	261	241	/	296	/	/	206	261	241	296	/	/	206	261	241	296	/	/	206	261	241	296	/	/	124
0. 25	7. 1-100	/	268	263	/	313	313	353	223	268	263	313	313	353	223	268	263	313	313	353	223	273	263	318	318	358	139
0. 37	7. 1-63	/	268	263	/	313	313	353	223	268	263	313	313	353	223	268	263	313	313	353	223	273	263	318	318	358	139
0. 55	7. 1–35. 5	299	344	359	419	404	404	454	299	344	359	404	404	454	299	344	359	404	404	454	299	344	359	404	404	449	162
0. 75	7. 1-25	299	344	359	419	404	404	454	299	344	359	404	404	454	299	344	359	404	404	454	299	344	359	404	404	449	162

4-pole	Range of				MS						M	1H					N	IP					N	ÍΑ			
power (kW)	Ratio	M1	M2	М3	M4	M5	M6	M7	M1	M2	М3	M5	M6	M7	M1	M2	М3	M5	M6	М7	M1	M2	М3	M5	M6	M7	
0. 12	7. 1–180	/	8	9	/	9	/	/	7	8	9	9	/	/	7	8	9	9	/	/	7	7. 5	8. 5	9	/	/	
0. 18	7. 1–180	/	8	9	/	9	/	/	7	8	9	9	/	/	8	9	10	10	/	/	8	8. 5	9.5	10	/	/	
0. 25	7. 1-100	/	9	10	/	11	10	12	8	9	10	11	10	12	9	10	11	12	11	13	9	10	10.5	11.5	10. 5	12. 5	
0. 37	7. 1-63	/	10	11	/	12	11	13	9	10	11	12	11	13	10	11	12	13	12	14	10	11	11.5	12. 5	11.5	13. 5	
0. 55	7. 1-35. 5	13	14	17	21	18	15	19	14	15	18	19	16	20	15	16	19	20	17	21	15	16	19	20	16. 5	21	
0. 75	7. 1-25	14	15	18	22	19	16	20	15	16	19	20	17	21	16	17	20	21	18	22	16	17	20	21	17.5	22	













Driven fan



Brake +Fan



Double brake



Brake +Driven fan



Encorder n +Driven fan

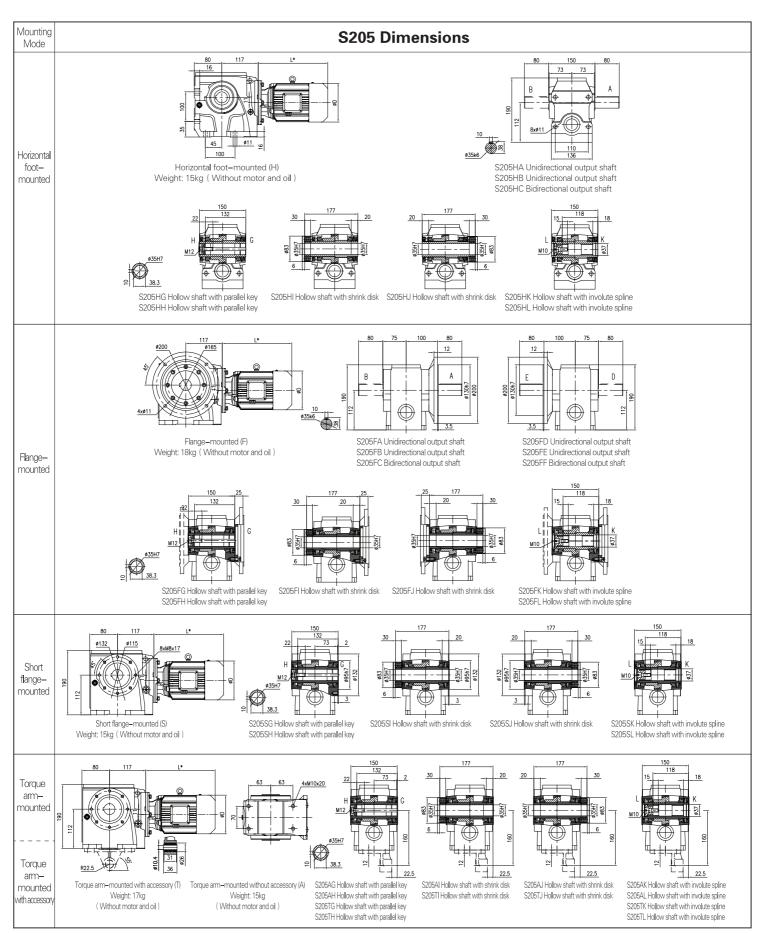


Brake +Encorder +Driven fan

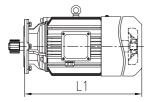
4-pole	Range of				MS						M	1H					M	I P					N	ſΑ			D
power (kW)	Ratio	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	D
0. 12	7. 1-224	/	261	241	/	296	/	/	206	261	241	296	/	/	206	261	241	296	/	/	206	261	241	296	/	/	124
0. 18	7. 1-224	/	261	241	/	296	/	/	206	261	241	296	/	/	206	261	241	296	/	/	206	261	241	296	/	/	124
0. 25	7. 1-224	/	268	263	/	313	313	353	223	268	263	313	313	353	223	268	263	313	313	353	223	273	263	318	318	358	139
0. 37	7. 1-140	/	268	263	/	313	313	353	223	268	263	313	313	353	223	268	263	313	313	353	223	273	263	318	318	358	139
0. 55	7. 1-90	299	344	359	419	404	404	454	299	344	359	404	404	454	299	344	359	404	404	454	299	344	359	404	404	449	162
0. 75	7. 1-63	299	344	359	419	404	404	454	299	344	359	404	404	454	299	344	359	404	404	454	299	344	359	404	404	449	162
1.1	7. 1–35. 5	322	367	377	437	422	422	477	322	367	377	422	422	477	322	367	377	422	422	477	347	392	402	452	452	497	176
1.5	7. 1-20	322	367	377	437	422	422	477	322	367	377	422	422	477	347	392	402	447	447	502	347	392	402	452	452	497	176

4-pole					MS						M	IH					N	IP					N	IA			
power (kW)	Range of Ratio	M1	M2	М3	M4	M5	M6	M7	M1	M2	М3	M5	M6	М7	M1	M2	М3	M5	M6	M7	M1	M2	М3	M5	M6	M7	
0. 12	7. 1-224	/	8	9	/	9	/	/	7	8	9	9	/	/	7	8	9	9	/	/	7	7. 5	8. 5	9	/	/	
0. 18	7. 1-224	/	8	9	/	9	/	/	7	8	9	9	/	/	8	9	10	10	/	/	8	8. 5	9. 5	10	/	/	
0. 25	7. 1-224	/	9	10	/	11	10	12	8	9	10	11	10	12	9	10	11	12	11	13	9	10	10. 5	11.5	10. 5	12. 5	
0. 37	7. 1-140	/	10	11	/	12	11	13	9	10	11	12	11	13	10	11	12	13	12	14	10	11	11.5	12. 5	11.5	13. 5	
0. 55	7. 1-90	13	14	17	21	18	15	19	14	15	18	19	16	20	15	16	19	20	17	21	15	16	19	20	16. 5	21	
0. 75	7. 1-63	14	15	18	22	19	16	20	15	16	19	20	17	21	16	17	20	21	18	22	16	17	20	21	17. 5	22	
1. 1	7. 1-35. 5	16	17	20	24	21	18	22	18	19	22	23	20	24	21	22	25	26	23	27	23	24	27	28	24. 5	29	
1. 5	7. 1-20	17	18	21	25	22	19	23	19	20	23	24	21	25	23	24	27	28	25	29	23	24	27	28	24. 5	29	













Driven fan



Brake +Fan



Double brake



Brake +Driven fan



Encorder n fan +Driven fan



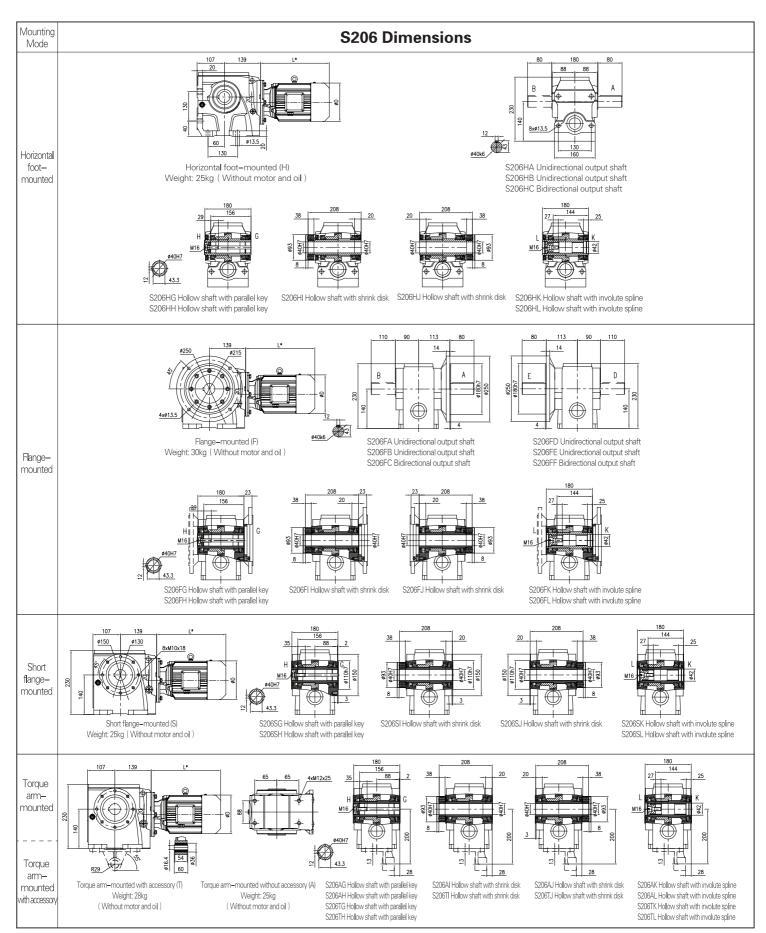
Brake +Encorder +Driven fan

Directly	connected	motor	dimension	table

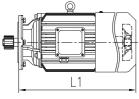
4-pole	Range of				MS						N	(H					N	IP					N	ÍΑ			D
power (kW)	Ratio	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	ע
0. 12	8-224	/	262	242	/	297	/	/	207	262	242	297	/	/	207	262	242	297	/	/	207	262	242	297	/	/	124
0. 18	8-224	/	262	242	/	297	/	/	207	262	242	297	/	/	207	262	242	297	/	/	207	262	242	297	/	/	124
0. 25	8-224	/	269	264	/	314	314	354	224	269	264	314	314	354	224	269	264	314	314	354	224	274	264	319	319	359	139
0. 37	8-224	/	269	264	/	314	314	354	224	269	264	314	314	354	224	269	264	314	314	354	224	274	264	319	319	359	139
0. 55	8-180	300	345	360	420	405	405	455	300	345	360	405	405	455	300	345	360	405	405	455	300	345	360	405	405	450	162
0. 75	8-125	300	345	360	420	405	405	455	300	345	360	405	405	455	300	345	360	405	405	455	300	345	360	405	405	450	162
1. 1	8-80	323	368	378	438	423	423	478	323	368	378	423	423	478	323	368	378	423	423	478	348	393	403	453	453	498	176
1. 5	8-40	323	368	378	438	423	423	478	323	368	378	423	423	478	348	393	403	448	448	503	348	393	403	453	453	498	176
2. 2	8-25	395	435	470	530	510	510	565	395	435	470	510	510	565	395	435	470	510	510	565	395	450	470	530	530	575	202

4 1					MS						λ.	IH					ν.	IP					M	Δ			
4-pole power	Range of				MO						N						IV.	ш					IV.	л			
(kW)	Ratio	M1	M2	М3	M4	М5	М6	М7	M1	M2	М3	М5	М6	М7	M1	M2	М3	М5	М6	М7	M1	M2	МЗ	М5	М6	М7	
0. 12	8-224	/	8	9	/	9	/	/	7	8	9	9	/	/	7	8	9	9	/	/	7	7. 5	8.5	9	/	/	
0. 18	8-224	/	8	9	/	9	/	/	7	8	9	9	/	/	8	9	10	10	/	/	8	8.5	9.5	10	/	/	
0. 25	8-224	/	9	10	/	11	10	12	8	9	10	11	10	12	9	10	11	12	11	13	9	10	10.5	11.5	10. 5	12.5	
0. 37	8-224	/	10	11	/	12	11	13	9	10	11	12	11	13	10	11	12	13	12	14	10	11	11.5	12. 5	11.5	13. 5	
0. 55	8-180	13	14	17	21	18	15	19	14	15	18	19	16	20	15	16	19	20	17	21	15	16	19	20	16. 5	21	
0.75	8-125	14	15	18	22	19	16	20	15	16	19	20	17	21	16	17	20	21	18	22	16	17	20	21	17. 5	22	
1. 1	8-80	16	17	20	24	21	18	22	18	19	22	23	20	24	21	22	25	26	23	27	23	24	27	28	24. 5	29	
1. 5	8-40	17	18	21	25	22	19	23	19	20	23	24	21	25	23	24	27	28	25	29	23	24	27	28	24. 5	29	
2. 2	8-25	27	28	35	42	36	29	37	30	31	38	39	32	40	32	33	40	41	34	42	36	37	44	45	38	45	













Driven fan



Brake +Fan



Double brake



Brake +Driven fan



Encorder +Driven fan



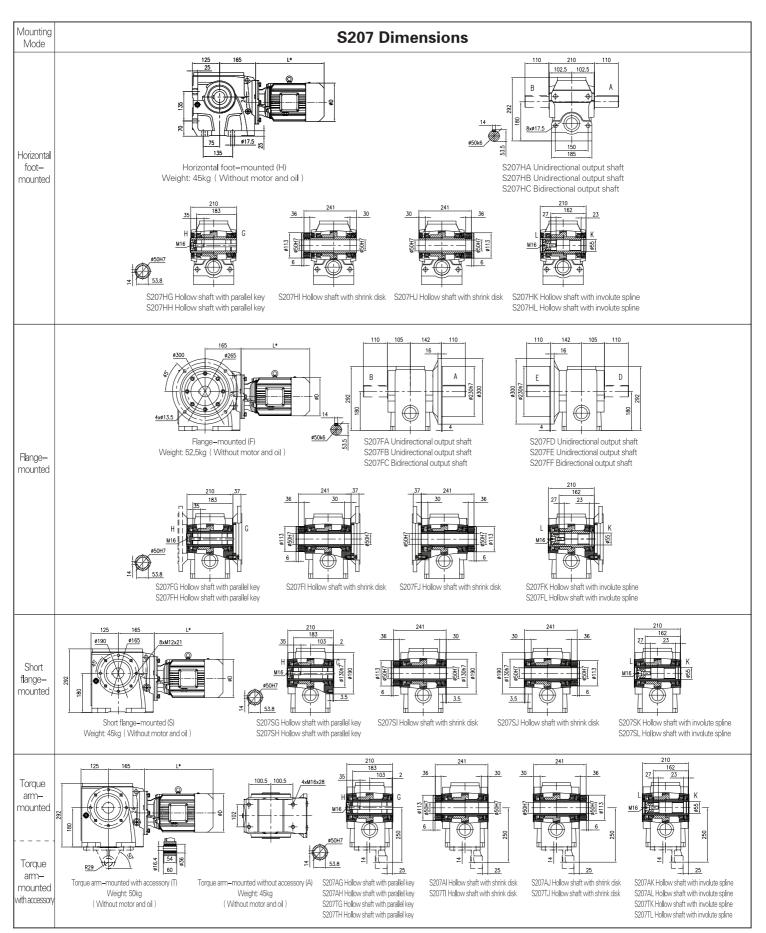
Brake +Encorder +Driven fan

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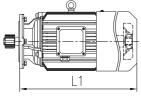
4-pole	Range of				MS						M	IH					N	I P					M	A			D
power (kW)	Ratio	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	עו
0. 18	180-315	/	262	242	/	297	/	/	207	262	242	297	/	/	207	262	242	297	/	/	207	262	242	297	/	/	124
0. 25	125-315	/	269	264	/	314	314	354	224	269	264	314	314	354	224	269	264	314	314	354	224	274	264	319	319	359	139
0. 37	80-315	/	269	264	/	314	314	354	224	269	264	314	314	354	224	269	264	314	314	354	224	274	264	319	319	359	139
0. 55	50-280	300	345	360	420	405	405	455	300	345	360	405	405	455	300	345	360	405	405	455	300	345	360	405	405	450	162
0. 75	28-224	300	345	360	420	405	405	455	300	345	360	405	405	455	300	345	360	405	405	455	300	345	360	405	405	450	162
1.1	18-140	323	368	378	438	423	423	478	323	368	378	423	423	478	323	368	378	423	423	478	348	393	403	453	453	498	176
1.5	10-100	323	368	378	438	423	423	478	323	368	378	423	423	478	348	393	403	448	448	503	348	393	403	453	453	498	176
2. 2	7. 1-71	395	435	470	530	510	510	565	395	435	470	510	510	565	395	435	470	510	510	565	395	450	470	530	530	575	202
3	7. 1-40	395	435	470	530	510	510	565	395	435	470	510	510	565	395	435	470	510	510	565	395	450	470	530	530	575	202
4	7. 1-25	391	441	466	526	516	516	571	459	509	534	584	584	639	459	509	534	584	584	639	459	519	534	599	599	639	220

4-pole	Range of				MS						M	1H					M	IP					N	IA			
power (kW)	Ratio	M1	M2	М3	M4	M5	M6	M7	M1	M2	М3	M5	M6	M7	M1	M2	М3	M5	M6	M7	M1	M2	М3	M5	M6	M7	
0. 18	180-315	/	8	9	/	9	/	/	7	8	9	9	/	/	8	9	10	10	/	/	8	8. 5	9. 5	10	/	/	
0. 25	125-315	/	9	10	/	11	10	12	8	9	10	11	10	12	9	10	11	12	11	13	9	10	10. 5	11.5	10.5	12. 5	
0. 37	80-315	/	10	11	/	12	11	13	9	10	11	12	11	13	10	11	12	13	12	14	10	11	11.5	12. 5	11.5	13. 5	
0. 55	50-280	13	14	17	21	18	15	19	14	15	18	19	16	20	15	16	19	20	17	21	15	16	19	20	16. 5	21	
0. 75	28-224	14	15	18	22	19	16	20	15	16	19	20	17	21	16	17	20	21	18	22	16	17	20	21	17. 5	22	
1. 1	18-140	16	17	20	24	21	18	22	18	19	22	23	20	24	21	22	25	26	23	27	23	24	27	28	24. 5	29	
1.5	10-100	17	18	21	25	22	19	23	19	20	23	24	21	25	23	24	27	28	25	29	23	24	27	28	24. 5	29	
2. 2	7. 1-71	27	28	35	42	36	29	37	30	31	38	39	32	40	32	33	40	41	34	42	36	37	44	45	38	45	
3	7. 1-40	30	31	38	45	39	32	40	33	34	41	42	35	43	36	37	44	45	38	46	36	37	44	45	38	45	
4	7. 1-25	45	46	53	61	54	47	55	52	53	60	61	54	62	56	57	64	65	58	66	56	57	64	65	58	66	





















Fan

Driven fan

Brake +Fan

Double brake

Brake ${\tt Encorder}$ +Driven fan +Driven fan

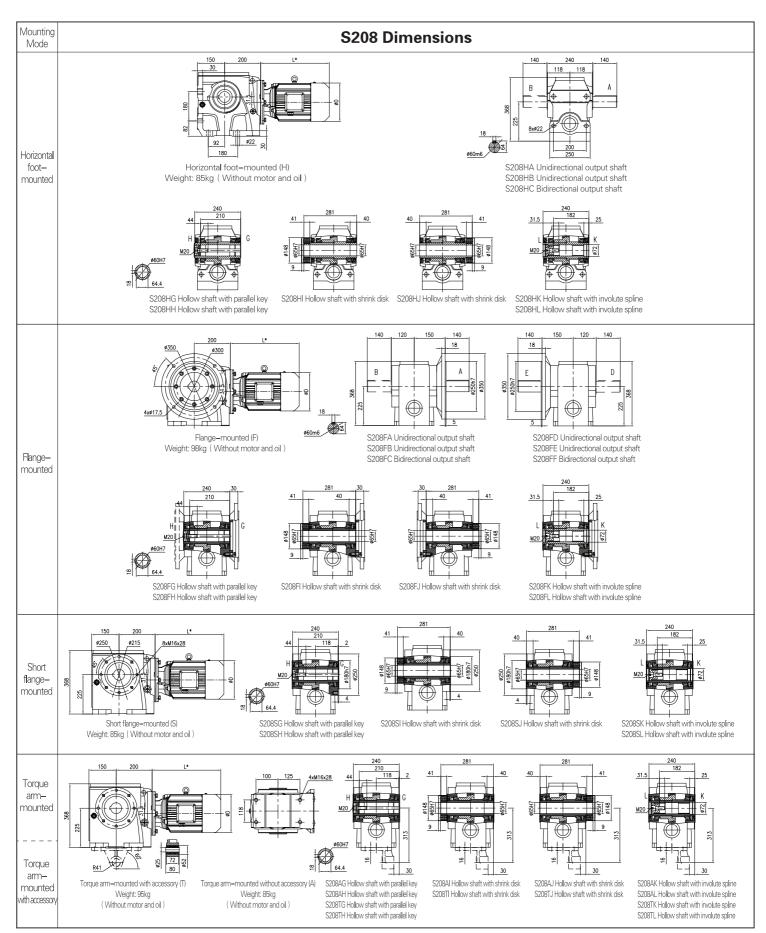
Brake +Encorder + Driven fan

Directly	connected	motor	dimens	ion	table	

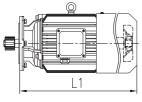
4-pole	Range of				MS							MH						M	IP					M	A			D
power (kW)	Ratio	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	D
0. 37	224-355	/	261	256	/	306	306	346	216	261	256	/	306	306	346	216	261	256	306	306	346	216	266	256	311	311	351	139
0. 55	140-355	292	337	352	412	397	397	447	292	337	352	/	397	397	447	292	337	352	397	397	447	292	337	352	397	397	442	162
0. 75	80-355	292	337	352	412	397	397	447	292	337	352	/	397	397	447	292	337	352	397	397	447	292	337	352	397	397	442	162
1. 1	50-250	315	360	370	430	415	415	470	315	360	370	/	415	415	470	315	360	370	415	415	470	340	385	395	445	445	490	176
1. 5	35. 5-250	315	360	370	430	415	415	470	315	360	370	/	415	415	470	340	385	395	440	440	495	340	385	395	445	445	490	176
2. 2	22. 4-200	387	427	462	522	502	502	557	387	427	462	/	502	502	557	387	427	462	502	502	557	387	442	462	522	522	567	202
3	11. 2-125	387	427	462	522	502	502	557	387	427	462	/	502	502	557	387	427	462	502	502	557	387	442	462	522	522	567	202
4	8-80	383	433	458	518	508	508	563	451	501	526	/	576	576	631	451	501	526	576	576	631	451	511	526	591	591	631	220
5. 5	8-40	421	471	501	566	546	546	601	421	471	501	/	546	546	601	459	509	539	584	584	639	497	562	577	647	647	677	259
7. 5	8-35. 5	459	509	539	604	584	584	639	459	509	539	/	584	584	639	497	547	577	622	622	677	497	562	577	647	647	677	259

4-pole	Range of				MS							MH						M	I P					M	A			
power (kW)	Ratio	M1	M2	М3	M4	М5	M6	M7	M1	M2	М3	M4	M5	M6	M7	M1	M2	М3	M5	M6	M7	M1	M2	М3	М5	M6	M7	
0. 37	224-355	/	10	11	/	12	11	13	9	10	11	/	12	11	13	10	11	12	13	12	14	10	11	11.5	12. 5	11.5	13. 5	
0. 55	140-355	13	14	17	21	18	15	19	14	15	18	/	19	16	20	15	16	19	20	17	21	15	16	19	20	16. 5	21	
0. 75	80-355	14	15	18	22	19	16	20	15	16	19	/	20	17	21	16	17	20	21	18	22	16	17	20	21	17. 5	22	
1. 1	50-250	16	17	20	24	21	18	22	18	19	22	/	23	20	24	21	22	25	26	23	27	23	24	27	28	24. 5	29	
1. 5	35. 5-250	17	18	21	25	22	19	23	19	20	23	/	24	21	25	23	24	27	28	25	29	23	24	27	28	24. 5	29	
2. 2	22. 4-200	27	28	35	42	36	29	37	30	31	38	/	39	32	40	32	33	40	41	34	42	36	37	44	45	38	45	
3	11. 2-125	30	31	38	45	39	32	40	33	34	41	/	42	35	43	36	37	44	45	38	46	36	37	44	45	38	45	
4	8-80	45	46	53	61	54	47	55	52	53	60	/	61	54	62	56	57	64	65	58	66	56	57	64	65	58	66	
5. 5	8-40	63	65	74	85	76	66	77	67	69	78	/	80	70	81	77	79	88	90	80	91	88	90	99	101	91	102	
7. 5	8-35. 5	73	75	84	95	86	76	87	80	82	91	/	93	83	94	88	90	99	101	91	102	88	90	99	101	91	102	





















Fan

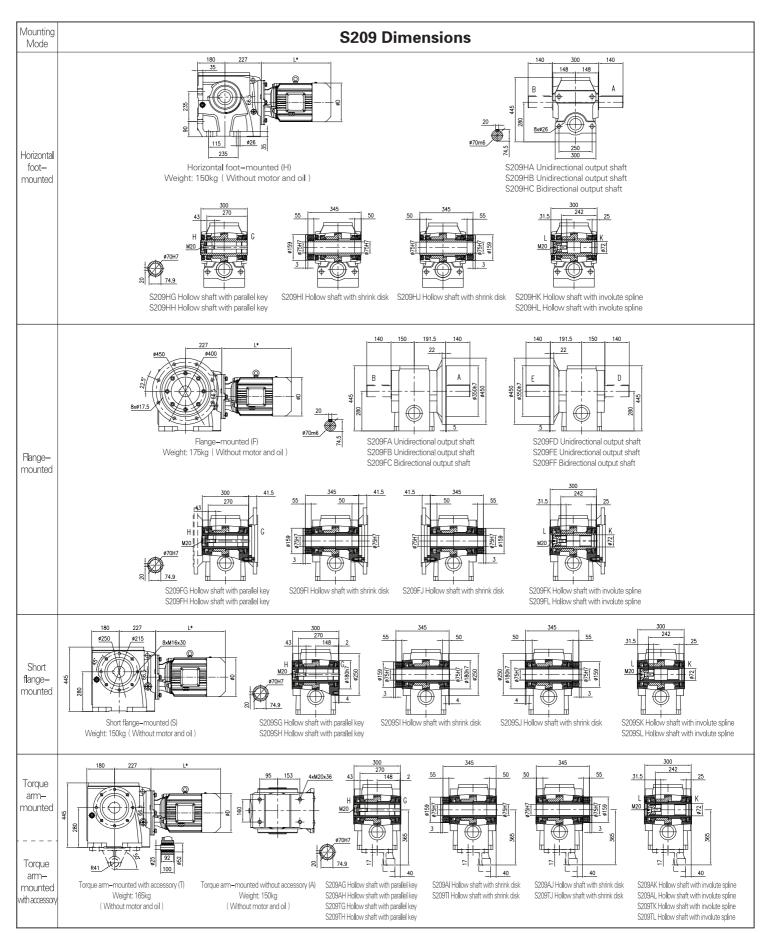
Driven fan

Brake +Fan Double brake

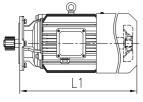
Brake +Driven fan Encorder +Driven fan Brake +Encorder +Driven fan

									Di	rect1	y cor	nect	ed mo	tor d	imens	sion	table)										
4-pole	Range of				MS							MH						N	I P					M	IA			
power (kW)	Ratio	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	D
0. 55	250-500	283	328	343	403	388	388	438	283	328	343	/	388	388	438	283	328	343	388	388	438	283	328	343	388	388	433	162
0. 75	180-500	283	328	343	403	388	388	438	283	328	343	/	388	388	438	283	328	343	388	388	438	283	328	343	388	388	433	162
1. 1	100-315	306	351	361	421	406	406	461	306	351	361	/	406	406	461	306	351	361	406	406	461	331	376	386	436	436	481	176
1.5	50-315	306	351	361	421	406	406	461	306	351	361	/	406	406	461	331	376	386	431	431	486	331	376	386	436	436	481	176
2. 2	31. 5-315	378	418	453	513	493	493	548	378	418	453	/	493	493	548	378	418	453	493	493	548	378	433	453	513	513	558	202
3	25-250	378	418	453	513	493	493	548	378	418	453	/	493	493	548	378	418	453	493	493	548	378	433	453	513	513	558	202
4	12. 5-180	374	424	449	509	499	499	554	442	492	517	/	567	567	622	442	492	517	567	567	622	442	502	517	582	582	622	220
5. 5	10-100	413	463	493	558	538	538	593	413	463	493	/	538	538	593	451	501	531	576	576	631	489	554	569	639	639	669	259
7. 5	10-50	451	501	531	596	576	576	631	451	501	531	/	576	576	631	489	539	569	614	614	669	489	554	569	639	639	669	259
11	10-31.5	/	541	601	/	631	631	681	506	541	601	651	631	631	681	550	585	645	675	675	725	550	600	645	700	700	735	314
15	10-25	/	585	645	/	675	675	725	550	585	645	695	675	675	725	580	615	675	705	705	755	580	630	675	730	730	765	314
									Dir	ectly	conr	necte	d mot	or we	ight	tabl	e / l	κg										
4-pole	Range of				MS							MH						N	I P					M	IA			
(kW)	Ratio	M1	M2	М3	M4	М5	M6	M7	M1	M2	М3	M4	М5	M6	М7	M1	M2	М3	М5	М6	М7	M1	M2	М3	М5	М6	М7	
0. 55	250-500	13	14	17	21	18	15	19	14	15	18	/	19	16	20	15	16	19	20	17	21	15	16	19	20	16. 5	21	
0. 75	180-500	14	15	18	22	19	16	20	15	16	19	/	20	17	21	16	17	20	21	18	22	16	17	20	21	17. 5	22	
1. 1	100-315	16	17	20	24	21	18	22	18	19	22	/	23	20	24	21	22	25	26	23	27	23	24	27	28	24. 5	29	
1.5	50-315	17	18	21	25	22	19	23	19	20	23	/	24	21	25	23	24	27	28	25	29	23	24	27	28	24. 5	29	
2. 2	31. 5-315	27	28	35	42	36	29	37	30	31	38	/	39	32	40	32	33	40	41	34	42	36	37	44	45	38	45	
3	25-250	30	31	38	45	39	32	40	33	34	41	/	42	35	43	36	37	44	45	38	46	36	37	44	45	38	45	
4	12. 5-180	45	46	53	61	54	47	55	52	53	60	/	61	54	62	56	57	64	65	58	66	56	57	64	65	58	66	
5. 5	10-100	63	65	74	85	76	66	77	67	69	78	/	80	70	81	77	79	88	90	80	91	88	90	99	101	91	102	
7. 5	10-50	73	75	84	95	86	76	87	80	82	91	/	93	83	94	88	90	99	101	91	102	88	90	99	101	91	102	
11	10-31.5	/	123	142	/	143	124	144	121	123	142	162	143	124	144	129	131	150	151	132	152	129	131	150	151	132	152	
15	10-25	/	141	160	/	161	142	162	139	141	160	180	161	142	162	161	163	182	183	164	184	161	163	182	183	164	184	





















Fan

Driven fan

Brake +Fan

Double brake

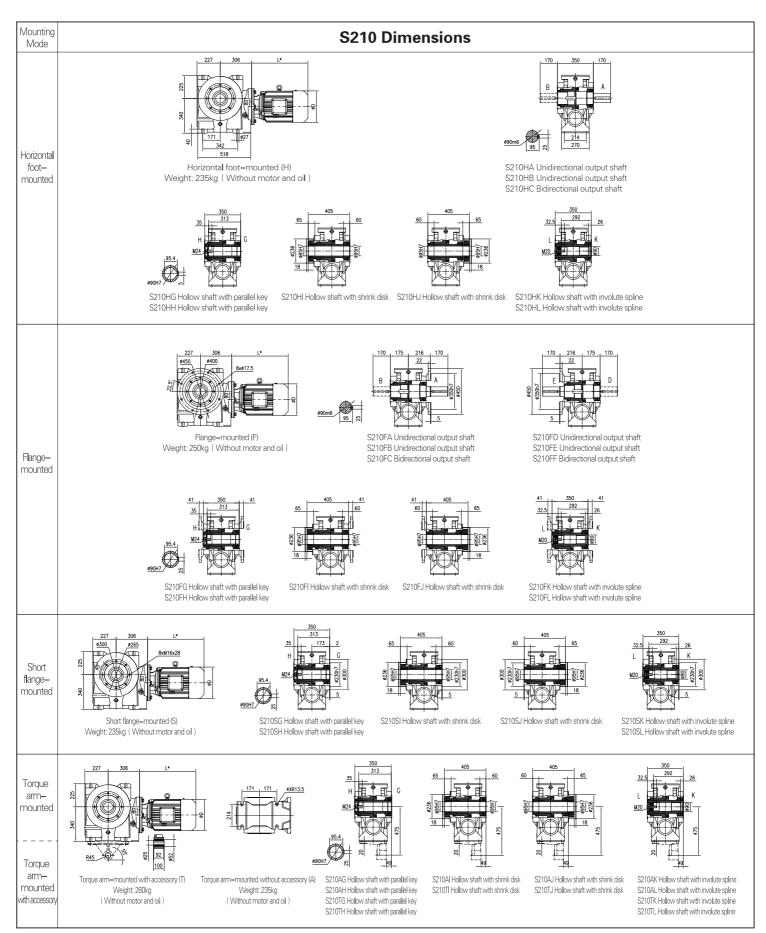
Brake +Driven fan

Encorder +Driven fan

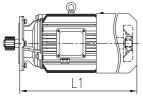
Brake +Encorder +Driven fan

									Dir	ectly	conr	necte	d mot	or di	mens	ion t	able											
4-pole	Range of				MS							MH						N	IP					М	IA			D
(kW)	Ratio	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	D
0.75	315-500	280	325	340	400	385	385	435	280	325	340	/	385	385	435	280	325	340	385	385	435	280	325	340	385	385	430	162
1. 1	224-315	303	348	358	418	403	403	458	303	348	358	/	403	403	458	303	348	358	403	403	458	328	373	383	433	433	478	176
1.5	160-315	303	348	358	418	403	403	458	303	348	358	/	403	403	458	328	373	383	428	428	483	328	373	383	433	433	478	176
2.2	90-315	374	414	449	509	489	489	544	374	414	449	/	489	489	544	374	414	449	489	489	544	374	429	449	509	509	554	202
3	63-315	374	414	449	509	489	489	544	374	414	449	/	489	489	544	374	414	449	489	489	544	374	429	449	509	509	554	202
4	40-315	370	420	445	505	495	495	550	438	488	513	/	563	563	618	438	488	513	563	563	618	438	498	513	578	578	618	220
5. 5	20-160	412	462	492	557	537	537	592	412	462	492	/	537	537	592	450	500	530	575	575	630	488	553	568	638	638	668	259
7. 5	18-160	450	500	530	595	575	575	630	450	500	530	/	575	575	630	488	538	568	613	613	668	488	553	568	638	638	668	259
11	18-90	/	535	595	/	625	625	675	500	535	595	645	625	625	675	544	579	639	669	669	719	544	594	639	694	694	729	314
15	18-63	/	579	639	/	669	669	719	544	579	639	689	669	669	719	574	609	669	699	699	749	574	624	669	724	724	759	314
18.5	18-40	/	645	725	/	750	750	795	615	645	725	780	725	750	795	615	645	725	750	750	795	615	660	725	770	770	810	356
22	18-31.5	/	693	773	/	798	798	843	663	693	773	828	773	798	843	663	693	773	798	798	843	663	708	773	818	818	858	356
									Dire	ctly	conne	cted	moto	r wei	ght	table	/ k	g										
4-pole	Range of				MS							MH						N	IP.					M	IA .			
power (kW)	Ratio	M1	M2	М3	M4	М5	M6	М7	M1	M2	М3	M4	М5	M6	M7	M1	M2	М3	М5	M6	М7	M1	M2	М3	M5	M6	М7	
0. 75	315-500	14	15	18	22	19	16	20	15	16	19	/	20	17	21	16	17	20	21	18	22	16	17	20	21	17. 5	22	
1.1	224-315	16	17	20	24	21	18	22	18	19	22	/	23	20	24	20	21	24	25	22	26	23	24	27	28	24. 5	29	
1.5	160-315	17	18	21	25	22	19	23	19	20	23	/	24	21	25	22	23	26	27	24	28	23	24	27	28	24. 5	29	
2. 2	90-315	27	28	35	42	36	29	37	30	31	38	/	39	32	40	32	33	40	41	34	42	36	37	44	45	38	45	
3	63-315	30	31	38	45	39	32	40	33	34	41	/	42	35	43	36	37	44	45	38	46	36	37	44	45	38	45	
4	40-315	45	46	53	61	54	47	55	52	53	60	/	61	54	62	56	57	64	65	58	66	56	57	64	65	58	66	
5. 5	20-160	63	65	74	85	76	66	77	67	69	78	/	80	70	81	77	79	88	90	80	91	88	90	99	101	91	102	
7. 5	18-160	73	75	84	95	86	76	87	80	82	91	/	93	83	94	88	90	99	101	91	102	88	90	99	101	91	102	
11	18-90	/	123	142	/	143	124	144	121	123	142	162	143	124	144	129	131	150	151	132	152	129	131	150	151	132	152	
15	18-63	/	141	160	/	161	142	162	139	141	160	180	161	142	162	161	163	182	183	164	184	161	163	182	183	164	184	
18. 5	18-40	/	184	214	/	215	185	217	182	184	214	246	215	185	217	200	202	232	233	203	235	200	202	232	233	203	235	
22	18-31.5	/	206	236	/	237	207	239	204	206	236	268	237	207	239	220	222	252	253	223	255	220	222	252	253	223	255	





















Fan

Driven fan

Brake +Fan

Double brake

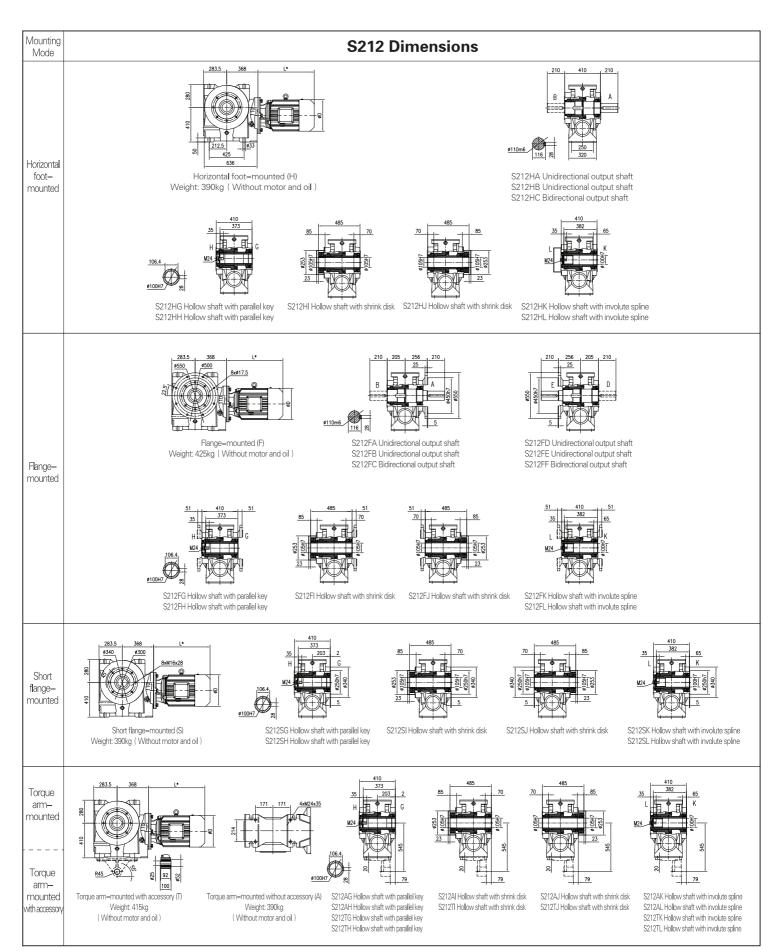
ke Brake +Driven fan

e Encorder en fan +Driven fan

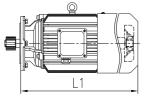
Brake +Encorder +Driven fan

Directly connected motor dimension table																												
4-pole	Range of				MS							MH						M	MP					N	ſΑ			D
power (kW)	Ratio	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	D
1.5	250-400	300	345	355	415	400	400	455	300	345	355	/	400	400	455	325	370	380	425	425	480	325	370	380	430	430	475	176
2. 2	160-400	370	410	445	505	485	485	540	370	410	445	/	485	485	540	370	410	445	485	485	540	370	425	445	505	505	550	202
3	100-400	370	410	445	505	485	485	540	370	410	445	/	485	485	540	370	410	445	485	485	540	370	425	445	505	505	550	202
4	63-400	366	416	441	501	491	491	546	434	484	509	/	559	559	614	434	484	509	559	559	614	434	494	509	574	574	614	220
5. 5	40-224	401	451	481	546	526	526	581	401	451	481	/	526	526	581	439	489	519	564	564	619	477	542	557	627	627	657	259
7. 5	28-224	439	489	519	584	564	564	619	439	489	519	/	564	564	619	477	527	557	602	602	657	477	542	557	627	627	657	259
11	18-160	/	524	584	/	614	614	664	489	524	584	634	614	614	664	533	568	628	658	658	708	533	583	628	683	683	718	314
15	18-100	/	568	628	/	658	658	708	533	568	628	678	658	658	708	563	598	658	688	688	738	563	613	658	713	713	748	314
18. 5	18-71	/	634	714	/	739	739	784	604	634	714	769	714	739	784	604	634	714	739	739	784	604	649	714	759	759	799	356
22	18-63	/	682	762	/	787	787	832	652	682	762	817	762	787	832	652	682	762	787	787	832	652	697	762	807	807	847	356
30	18-35. 5	/	710	820	/	825	825	870	705	710	820	845	825	825	870	705	710	820	825	825	870	705	725	820	845	845	890	398
									Direc	tly	conne	cted	moto	r wei	ght	table	/ kg	g										
4-pole	Range of				MS							MH						M	MP					N	ſΑ			
power (kW)	Ratio	M1	M2	М3	M4	М5	M6	M7	M1	M2	МЗ	M4	M5	M6	M7	M1	M2	М3	M5	М6	М7	M1	M2	М3	М5	M6	М7	
1.5	250-400	17	18	21	25	22	19	23	19	20	23	/	24	21	25	23	24	27	28	25	29	23	24	27	28	24. 5	29	
2. 2	160-400	27	28	35	42	36	29	37	30	31	38	/	39	32	40	32	33	40	41	34	42	36	37	44	45	38	45	
3	100-400	30	31	38	45	39	32	40	33	34	41	/	42	35	43	36	37	44	45	38	46	36	37	44	45	38	45	
4	63-400	45	46	53	61	54	47	55	52	53	60	/	61	54	62	56	57	64	65	58	66	56	57	64	65	58	66	
5. 5	40-224	63	65	74	85	76	66	77	67	69	78	/	80	70	81	77	79	88	90	80	91	88	90	99	101	91	102	
7. 5	28-224	73	75	84	95	86	76	87	80	82	91	/	93	83	94	88	90	99	101	91	102	88	90	99	101	91	102	
11	18-160	/	123	142	/	143	124	144	121	123	142	162	143	124	144	129	131	150	151	132	152	129	131	150	151	132	152	
15	18-100	/	141	160	/	161	142	162	139	141	160	180	161	142	162	161	163	182	183	164	184	161	163	182	183	164	184	
18. 5	18-71	/	184	214	/	215	185	217	182	184	214	246	215	185	217	200	202	232	233	203	235	200	202	232	233	203	235	
22	18-63	/	206	236	/	237	207	239	204	206	236	268	237	207	239	220	222	252	253	223	255	220	222	252	253	223	255	
30	18-35.5	/	260	310	/	308	261	310	260	260	310	360	308	261	310	280	280	330	328	281	330	280	280	330	328	281	330	





















Fan

Driven fan

Brake +Fan

Double brake

ke Brake +Driven fan

Encorder +Driven fan

Brake +Encorder +Driven fan

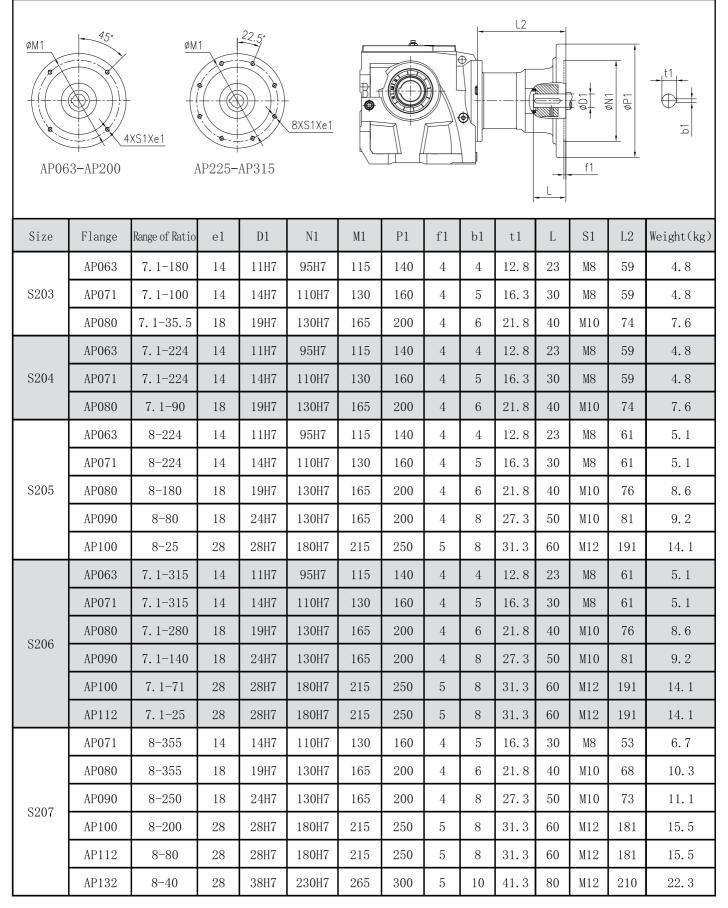
	Directly connected motor dimension table 4-pole p c MS MH MP MA																											
4-pole	Range of				MS	5						MH							MP					N	IΑ			D
power (kW)	Ratio	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L4	L5	L6	L7	L1	L2	L3	L5	L6	L7	L1	L2	L3	L5	L6	L7	D
2. 2	280-450	359	399	434	494	474	474	529	359	399	434	/	474	474	529	359	399	434	474	474	529	359	414	434	494	494	539	202
3	200-450	359	399	434	494	474	474	529	359	399	434	/	474	474	529	359	399	434	474	474	529	359	414	434	494	494	539	202
4	140-450	355	405	430	490	480	480	535	423	473	498	/	548	548	603	423	473	498	548	548	603	423	483	498	563	563	603	220
5. 5	100-250	391	441	471	536	516	516	571	391	441	471	/	516	516	571	429	479	509	554	554	609	467	532	547	617	617	647	259
7. 5	63-250	429	479	509	574	554	554	609	429	479	509	/	554	554	609	467	517	547	592	592	647	467	532	547	617	617	647	259
11	35. 5-250	/	508	568	/	598	598	648	473	508	568	618	598	598	648	517	552	612	642	642	692	517	567	612	667	667	702	314
15	20-200	/	552	612	/	642	642	692	517	552	612	662	642	642	692	547	582	642	672	672	722	547	597	642	697	697	732	314
18. 5	18-160	/	618	698	/	723	723	768	588	618	698	753	698	723	768	588	618	698	723	723	768	588	633	698	743	743	783	356
22	18-140	/	666	746	/	771	771	816	636	666	746	801	746	771	816	636	666	746	771	771	816	636	681	746	791	791	831	356
30	18-80	/	689	799	/	804	804	849	684	689	799	824	804	804	849	684	689	799	804	804	849	684	704	799	824	824	869	398
37	18-63	/	755	840	/	870	870	915	725	755	840	/	870	870	915	725	755	840	870	870	915	725	760	840	880	880	920	446
45	18-45	/	755	840	/	870	870	915	725	755	840	/	870	870	915	725	755	840	870	870	915	725	760	840	880	880	920	446
55	18-35. 5	/	856	981	/	991	991	1026	841	856	981	/	991	991	1036	841	856	981	991	991	1036	841	866	981	1021	1021	1041	485
									Dire	ectly	conr	necte	d mot	or we	eight	table	e / k	g										
4-pole	Rango of				MS	3						MH	:						MP					N	IA			

4 1 -					MS							MH				l			MP					M	IA			\Box
4-pole power	Range of				Mic		_					MILI							MI	_				ĮV.	IA.			—
(kW)	Ratio	M1	M2	М3	M4	М5	M6	M7	M1	M2	М3	M4	М5	M6	M7	M1	M2	М3	М5	M6	М7	M1	M2	М3	M5	M6	M7	
2. 2	280-450	27	28	35	42	36	29	37	30	31	38	/	39	32	40	32	33	40	41	34	42	36	37	44	45	38	45	
3	200-450	30	31	38	45	39	32	40	33	34	41	/	42	35	43	36	37	44	45	38	46	36	37	44	45	38	45	
4	140-450	45	46	53	61	54	47	55	52	53	60	/	61	54	62	56	57	64	65	58	66	56	57	64	65	58	66	
5. 5	100-250	63	65	74	85	76	66	77	67	69	78	/	80	70	81	77	79	88	90	80	91	88	90	99	101	91	102	
7. 5	63-250	73	75	84	95	86	76	87	80	82	91	/	93	83	94	88	90	99	101	91	102	88	90	99	101	91	102	
11	35. 5-250	/	123	142	/	143	124	144	121	123	142	162	143	124	144	129	131	150	151	132	152	129	131	150	151	132	152	
15	20-200	\	141	160	/	161	142	162	139	141	160	180	161	142	162	161	163	182	183	164	184	161	163	182	183	164	184	
18.5	18-160	/	184	214	/	215	185	217	182	184	214	246	215	185	217	200	202	232	233	203	235	200	202	232	233	203	235	
22	18-140	/	206	236	/	237	207	239	204	206	236	268	237	207	239	220	222	252	253	223	255	220	222	252	253	223	255	
30	18-80	/	260	310	/	308	261	310	260	260	310	360	308	261	310	280	280	330	328	281	330	280	280	330	328	281	330	
37	18-63	/	332	380	/	381	334	383	330	332	380	/	381	334	383	345	347	395	396	349	398	345	347	395	396	349	398	
45	18-45	/	347	395	/	396	349	398	345	347	395	/	396	349	398	365	367	415	416	369	418	365	367	415	416	369	418	
55	18-35. 5	/	436	540	/	535	436	537	435	436	540	/	535	436	537	470	471	575	570	471	572	470	471	575	570	470	572	

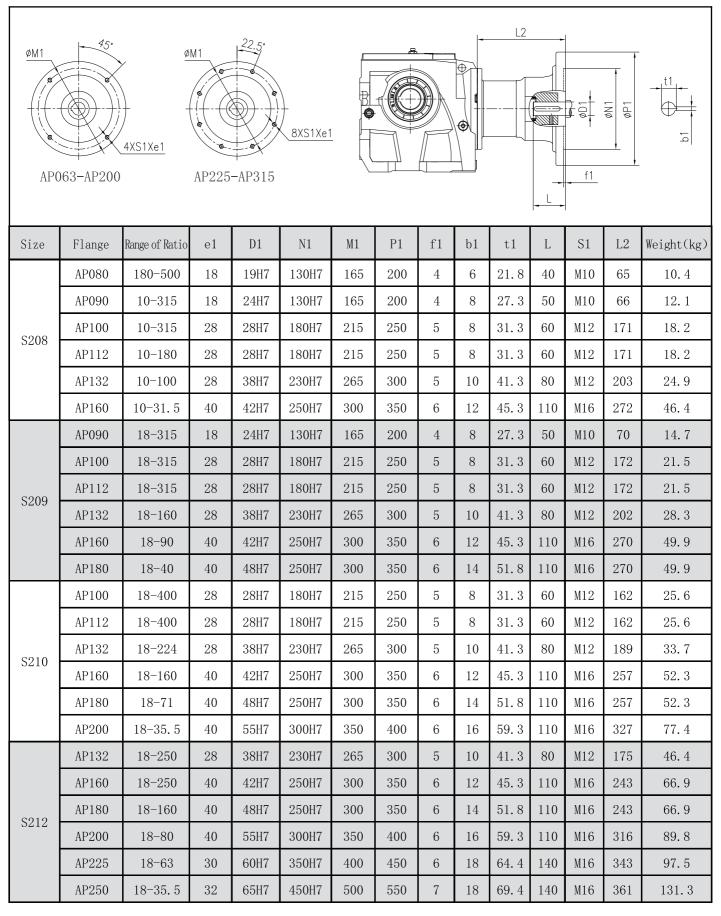


8 Input Flange and Input Shaft

8.1 S series dimensions of AP input flange

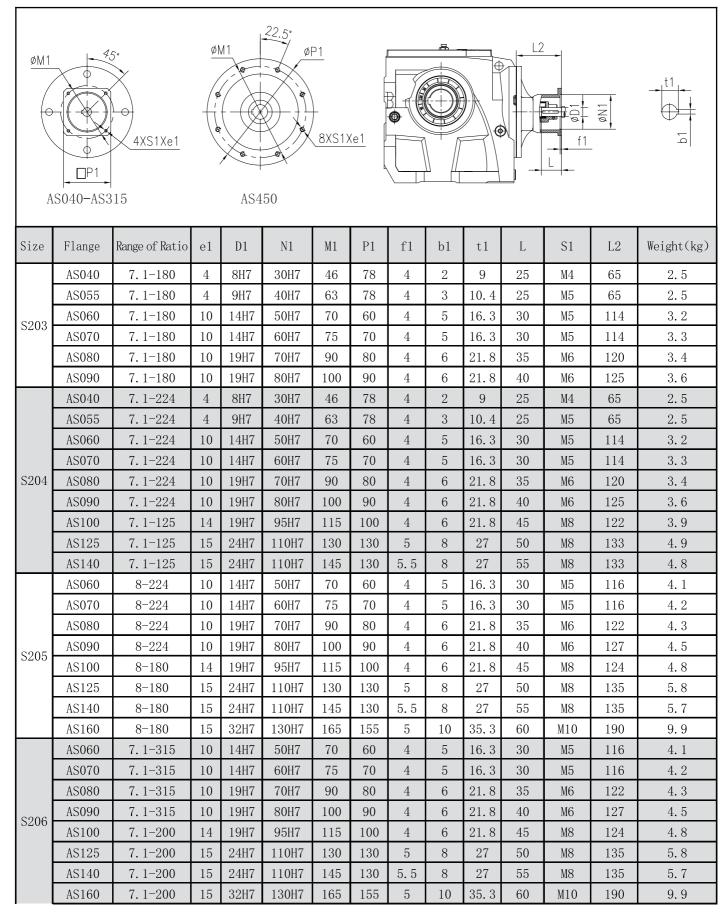




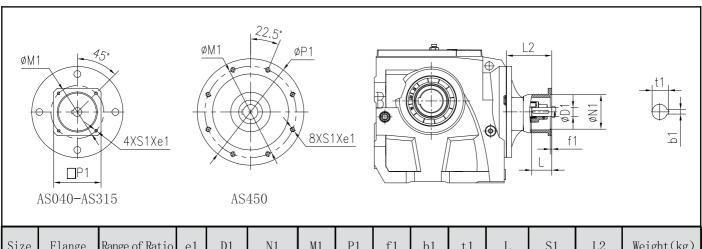




8.2 S series dimensions of AS input flange



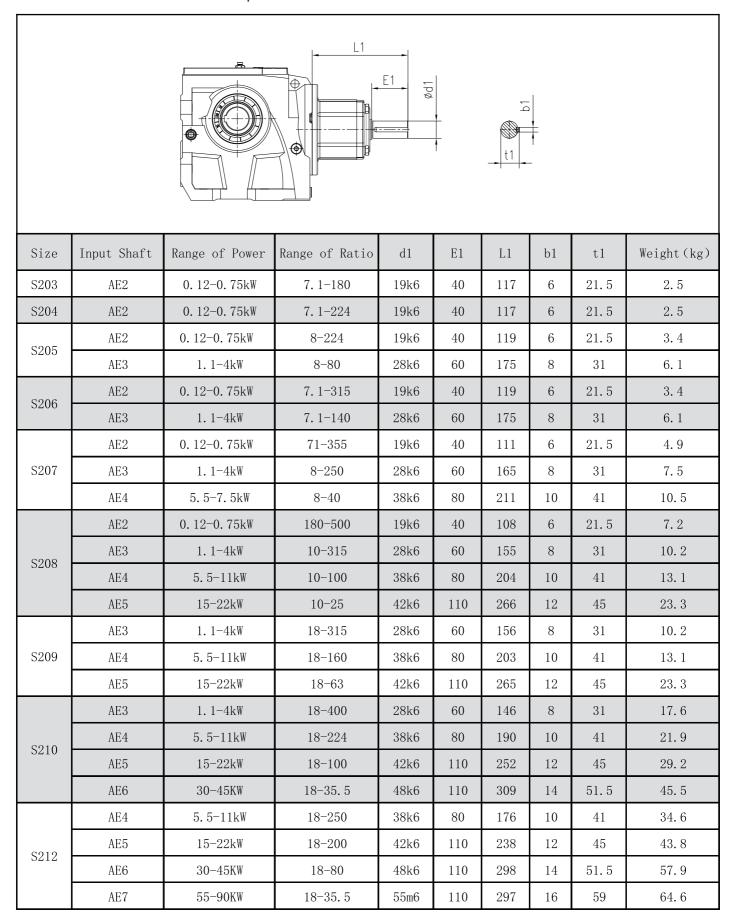




Size	Flange	Range of Ratio	e1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2	Weight(kg)
	AS060	8-355	10	14H7	50H7	70	60	4	5	16. 3	30	М5	108	5. 6
	AS070	8-355	10	14H7	60H7	75	70	4	5	16. 3	30	M5	108	5. 7
	AS080	8-355	10	19H7	70H7	90	80	4	6	21.8	35	M6	114	5.8
	AS090	8-355	10	19H7	80H7	100	90	4	6	21.8	40	M6	119	6
	AS100	8-250	14	19H7	95H7	115	100	4	6	21.8	45	M8	116	6. 3
S207	AS125	8-250	15	24H7	110H7	130	130	5	8	27	50	M8	127	7. 3
	AS140	8-250	15	24H7	110H7	145	130	5. 5	8	27	55	M8	127	7. 2
	AS160	8-250	15	32H7	130H7	165	155	5	10	35. 3	60	M10	180	11.3
	AS180	8-40	16	35H7	114.3H7	200	180	7	10	38. 3	80	M12	210	16. 7
	AS190	8-40	18	38H7	180H7	215	190	5	10	41.3	80	M12	210	17. 1
	AS240	8-40	28	38H7	230H7	265	240	5	10	41.3	80	M12	210	22.3
	AS070	180-500	10	14H7	60H7	75	70	4	5	16. 3	30	M5	105	8
	AS080	180-500	10	19H7	70H7	90	80	4	6	21.8	35	M6	111	8. 1
	AS090	180-500	10	19H7	80H7	100	90	4	6	21.8	40	M6	116	8. 3
	AS100	10-315	14	19H7	95H7	115	100	4	6	21.8	45	M8	113	8. 6
	AS125	10-315	15	24H7	110H7	130	130	5	8	27	50	M8	124	9. 6
S208	AS140	10-315	15	24H7	110H7	145	130	5. 5	8	27	55	M8	124	9. 5
	AS160	10-315	15	32H7	130H7	165	155	5	10	35. 3	60	M10	170	14
	AS180	10-160	16	35H7	114. 3H	200	180	7	10	38. 3	80	M12	203	19. 3
	AS190	10-160	18	38H7	180H7	215	190	5	10	41.3	80	M12	203	19. 7
	AS240	10-160	28	38H7	230H7	265	240	5	10	41.3	80	M12	203	24. 9
	AS260	10-160	40	48H7	250H7	300	260	6	14	51.8	110	M16	272	46. 4
	AS160	18-315	15	32H7	130H7	165	155	5	10	35. 3	60	M10	171	17. 3
	AS180	18-160	16	35H7	114.3H	200	180	7	10	38. 3	80	M12	202	22.7
S209	AS190	18-160	18	38H7	180H7	215	190	5	10	41.3	80	M12	202	23. 1
	AS240	18-160	28	38H7	230H7	265	240	5	10	41.3	80	M12	202	28. 3
	AS260	18-160	40	48H7	250H7	300	260	6	14	51.8	110	M16	271	49.9
	AS160	18-400	15	32H7	130H7	165	155	5	10	35. 3	60	M10	161	21.4
	AS180	18-224	16	35H7	114.3H	200	180	7	10	38. 3	80	M12	189	28. 1
S210	AS190	18-224	18	38H7	180H7	215	190	5	10	41.3	80	M12	189	28.5
3210	AS240	18-224	28	38H7	230H7	265	240	5	10	41.3	80	M12	189	33. 7
	AS260	18-224	40	48H7	250H7	300	260	6	14	51.8	110	M16	258	52.3
	AS315	18-40	40	55H7	300H7	350	315	6	16	59.3	110	M16	327	77. 4
	AS180	18-250	16	35H7	114.3H	200	180	7	10	38. 3	80	M12	175	40.8
	AS190	18-250	18	38H7	180H7	215	190	5	10	41.3	80	M12	175	41.2
S212	AS240	18-250	28	38H7	230H7	265	240	5	10	41.3	80	M12	175	46. 4
	AS260	18-250	40	48H7	250H7	300	260	6	14	51.8	110	M16	244	66. 9
	AS315	18-200	40	55H7	300H7	350	315	6	16	59. 3	110	M16	316	89.8

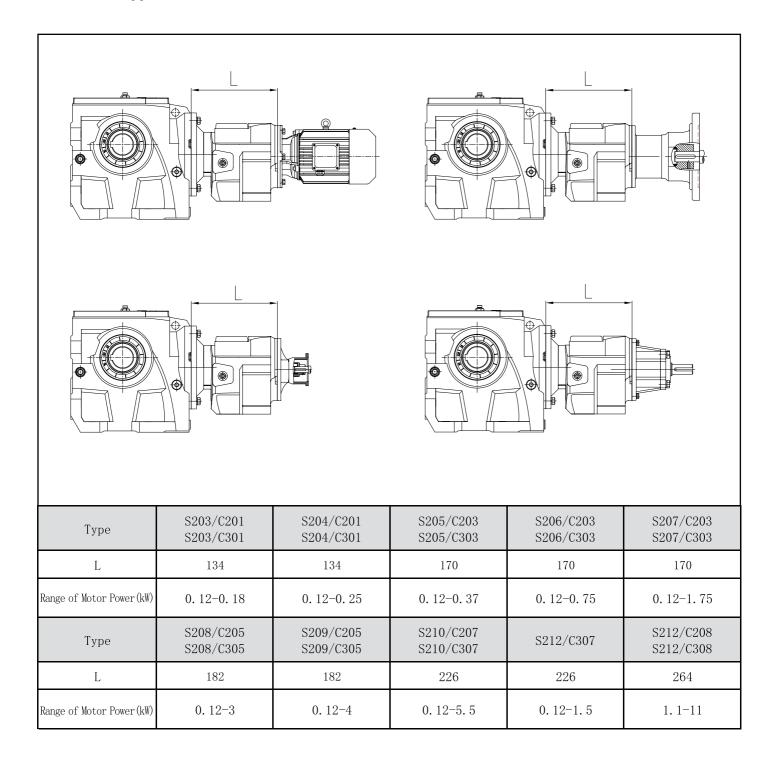


8.3 S series dimensions of AE input shaft



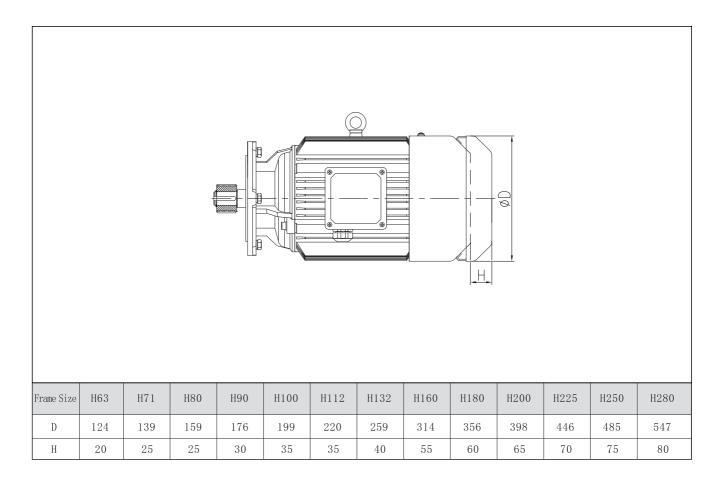


9 Combi-type Dimensions





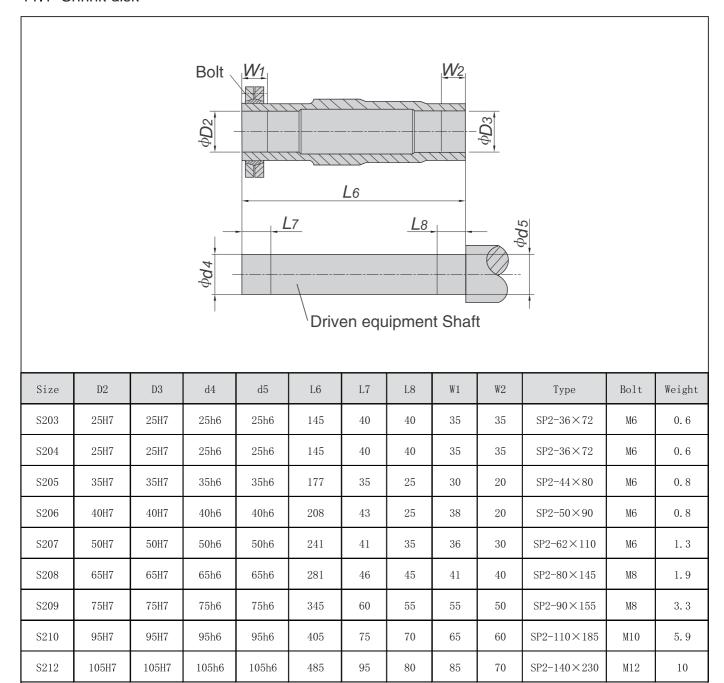
10 Motor Rainproof Cover Dimensions





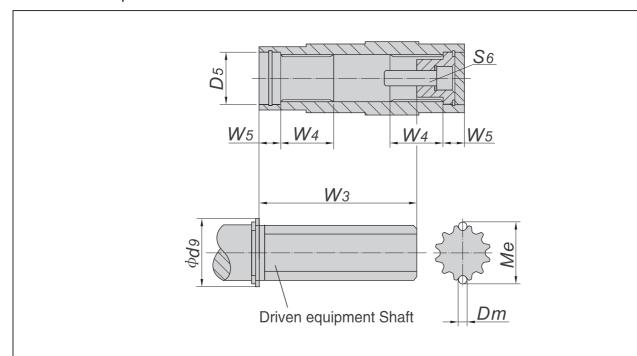
11 Recommended Dimensions for Driven Equipment Shaft

11.1 Shrink disk





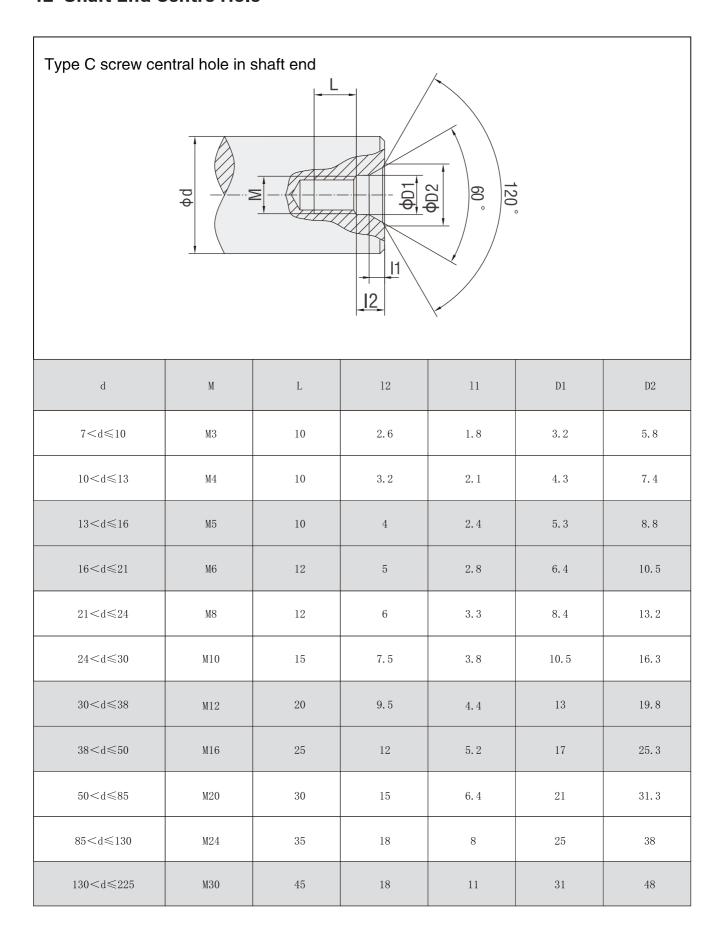
11.2 Involute spline



Size	D5	Dm	d9	Ме	W3	W4	W5	S6
S203	32	2. 25	37	20. 28	90	25	18	M10×30
S204	32	2. 25	37	20. 28	90	25	18	M10×30
S205	37	3. 5	42	27.71	115	32	18	M10×30
S206	42	3. 5	47	27. 71	140	42	25	$\texttt{M16}\!\times\!40$
S207	55	3. 5	62	42. 62	160	52	23	M16×50
S208	72	3. 5	82	57. 65	180	62	25	M20×60
S209	72	3. 5	90	62. 66	240	72	25	M20×60
S210	90	5. 25	105	73. 92	290	89	26	M20×60
S212	100	5. 25	120	84. 11	380	92	28	$\mathrm{M24}\!\times\!50$

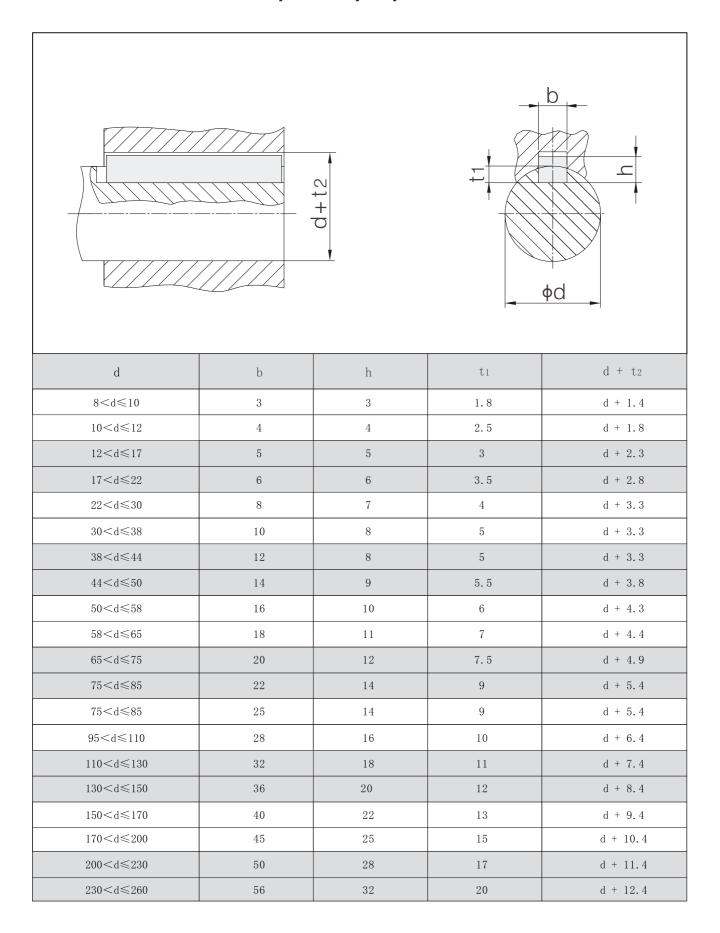


12 Shaft End Centre Hole





13 Dimension of Parallel Key and Keyway





14 Oil

Mounting position Size	D1	D2	D3	D4	D5	D6
S203	0.3	0. 5	0.6	0.7	0. 5	0.5
S204	0. 5	1. 1	1. 1	1.4	1.2	1.2
S205	0.6	1.4	1.2	1.9	1.7	1. 7
S206	1.2	2. 6	3. 7	3.8	3. 2	3. 2
S207	2. 3	5. 0	7.0	7.8	5. 9	5. 9
S208	4. 6	9. 7	12. 5	14. 4	10. 9	10.9
S209	8. 9	18. 0	22. 6	28. 3	21. 6	21.6
S210	12.5	45. 6	37. 8	45. 6	25. 4	25. 4
S212	22. 0	80. 4	63. 6	80. 4	42.8	42.8

Along with the technology advancedet., the product of the manual of Boneng will be changed, please forgive.





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