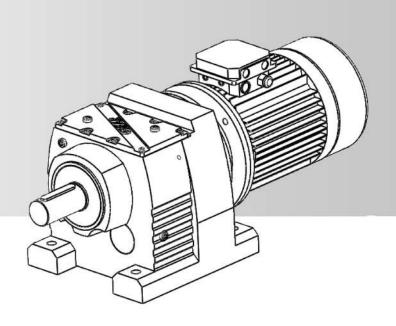
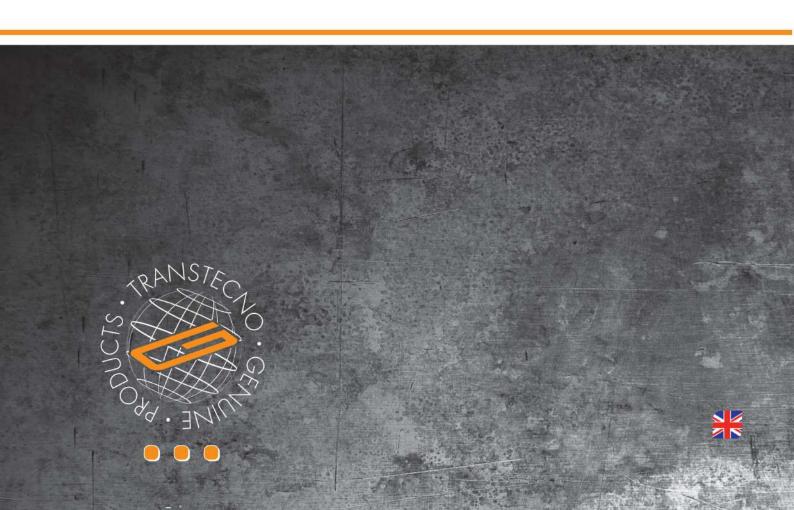






HELICAL IN-LINE GEARMOTORS







Introduction

General information

Information in this manual is provided with symbols in order to understand the subject matter and data. These symbols are intended to aid the user in selecting the right gearmotors.

Input speed

- This is the input speed at the gearbox related to the type of drive unit selected.
- · When different speeds are required, contact our Technical Service.

Gear ratio

- This value is strictly related to the size and number of teeth gears inside the gearbox.
- · From the data given in the catalogue, the value can be calculated using the following formula:

$$i = \frac{n_1}{n_2}$$

Output speed _

This is the gearbox output speed calculated using the formula given above:

$$n_2 = \frac{n_1}{i}$$

Requested torque

This is the torque needed for the application and must be known when selecting a drive system. It can either be provided by the user or calculated according to the application data (if provided).

Nominal torque _____

This is the output torque that can be transmitted by the gearbox according to input speed n1 and gear ratio i. It is calculated based on service with a continuous steady load corresponding to a service factor equal to 1. This value is not given in the catalogue but can be calculated approximately with the following formula between M2 (output torque) and sf (service factor):

$$Mn_2 = M_2 \cdot sf$$

Output torque ____

This is the gearbox's output torque. It is strictly related to power P1 of the motor installed, output rpm n2 and dynamic efficiency Rd. It can be calculated with the following formula:

$$M_2 = \frac{9550 \cdot P_2 \cdot Rd}{n_2}$$

$$M_2 = \frac{9550 \cdot P_2}{n_2}$$
 Where: $P_2 = P_1 \cdot Rd$

$$P_2 = P_1 \cdot Rd$$

Efficiency

Efficiency is caculated based on dynamic efficiency Rd of the gearboxes.

On helical gearboxes the average efficiency is 94%.

Input power _

This is the power applied by the motor at the gearbox input in reference to speed n1.

It can be calculated with the following formula:

$$P_1 = \frac{M_2 \cdot n_2}{9550 \cdot Rd}$$

Service factor

This value indicates how a certain drive system is to be over sized in order to assure the requested service and stand up to shocks. The tables given in the catalogue offer a wide range of drive systems with different service factors able to satisfy most types of applications. To correctly understand service factor values sf given for each item, approximate values for load classes A, B and C along with the number of hours of daily operation h/d and number of start-ups/hours need to be known.

Once the load class required for the application has been determined, locate corresponding value of to be used when selecting the most suitable drive system.

A - Uniform $fa \leq 0.3$ Type of load **B** - Moderate shocks fa ≤ 3 C - Heavy shocks fa ≤ 10

$$fa = \frac{Je}{Jm}$$

- · Je (kgm²) moment of reduced external inertia at the drive-shaft
- Jm (kgm²) moment of inertia of motor. If fa > 10 call our Technical Service.





A Uniform load

	sf											
h/d	start-up / hour											
II/U	2	4	8	16	32	63	125	250	500			
4	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.2			
8	1.0	1.0	1.1	1.1	1.3	1.3	1.3	1.3	1.3			
16	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5			
24	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8			

B Moderate shock load

	sf										
h/d	start-up / hour										
h/d 2 4 8 16 32 63 125 25							250	500			
4	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3		
8	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5		
16	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8		
24	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.2		

G Heavy shock load

	sf											
h/d	start-up / hour											
II/U	2	4	8	16	32	63	125	250	500			
4	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5			
8	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8			
16	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.2			
24	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5			

Radial load

Pinions, pulleys, etc applied on the output shaft of the gearboxes create radial forces that must be taken into consideration to avoid excessive stress risking damage to the gearbox itself.

External radial load R that acts on the gearbox shaft can be calculated as follows:

$$R = \frac{2000 \cdot M_2 \cdot kr}{d} \le R_2$$

where:

d [mm] diameter of the pinion or pulley

kr coefficiency in relation to type of transmission :

kr = 1.4 sprocket wheel

kr = 1.1 gear

kr = 1.5 - 2.5 pulley for V belts

Keep in mind that values R2 refer to loads that act on the center line of the output shaft (considering the shaft protrudes). As a result, the value should be compared under the same conditions.

Axial load

At times, along with the radial load, force A may be present that acts axially on the output shaft. In this case, keep in mind allowable axial load A2 that can be applied on the shaft is:

$$A_2 = R_2 \cdot 0.2$$

If axial load A that acts on the shaft is greater than A2, contact our Technical Service.

Selecting the gearmotors

To select the required gearmotor, perform the procedure below:

- 1. Determine the service factor sf for the desired application by referring to the charts given on page A4. This is to be done by considering the class of load, the operational hours/day and the number of start-ups/ hour.
- 2. If the required motor power output P is known, go to item 3); if the required output torque M is known, determine motor output P by using the following formulas:

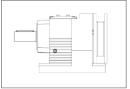
$$P = \frac{M \cdot n_2}{9550 \cdot Rd}$$

Where Rd stands for the dynamic efficiency and n2 indicates the required output rpm of the gearmotor.

3. Use the specification chart to search for the power unit where P1 is greater than or equal to P with a speed n2/n2max that approximates the desired one. Choose a power unit where the indicated service factor sf is equal to or greater than that cal culated at point 1).

Lubrication

All unit sizes of ITH series are complete with mineral oil, viscosity 220.



ITH

SHELL	MOBIL	KLUB
Omala	Mobilgear	Kluberoil
S2 G 220	660 XP 2	GEM 1-220 N

CASTROL	FUCHS	В
Tribol 1100/220	Renolin	Energol
Optigear BM 220	CLP 220	GR-XP 220

The tables contain the approximate amount of lubricant held and/or to be put in.

Always specify the desired installation position at the time of order.





Operating temperature

Standard temperature range

-25°C / +50°C

Standard temperature range

	< -15°C	> +50 °C
ITH	Output radial load halved	Use Viton (FPM) oil seals Use high temperatue lubricant

For temperature <0°C refer to the following notes:

- Check if the motor is suitable for low temperature;
- Due to the high viscosity of the lubricant, check if the motor can supply high starting torque;
- Let the group run for a few minutes without load to guarantee good lubrication;

Installation and inspection

While installing the gearbox always make sure that:

- The specifications stamped on the rating plate match those indicated for the unit actually ordered;
- The mating surfaces and the shafts are thoroughly clean and free of dents:
- The surfaces where the gearbox to be mounted on are flat and strong enough;
- The machine drive shaft and the gearbox shaft are perfectly aligned:
- The required torque limiters have been installed if the machine is likely to produce shocks or blockages during operation;
- The rotary parts have been provided with the required safety quards;
- Adequate weatherproof covering has been provided if the machine is to be installed outdoor;
- The working environment is not exposed to corrosive agents (unless this has been indicated while placing the order so that the gearbox assembly can be adequately set up);
- The pinions or pulleys on the gearbox input/output shafts are properly fitted in order not to produce radial and/or axial loads that exceed the maximum allowable limits;
- All the couplings have been treated with adequate rust preventative in order to avoid oxidation provoked by contact;
- · All the mounting screws have been securely tightened;
- Check the lubricant quantity depending on the mounting position on all gearboxes.

Critical applications

In these cases please contact the Technical Service

- Used to increase speed;
- · Used as a hoist;
- · Used in mounting positions not shown in the catalogue;
- · Use in environment pressure other than atmospheric pressure;
- Use in places with temperature <-25°C or >+50°C



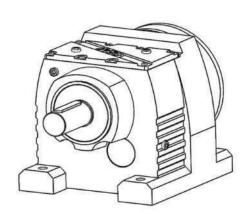
Technical features

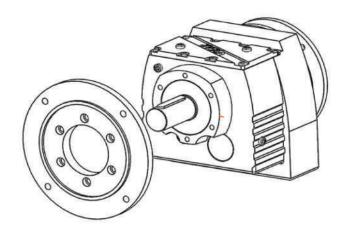
The ITH gearmotors are intended for heavy duty applications.

The robust one pieces casing of the main housing and the modular design of input and output sets increase application fexibility.

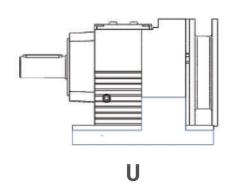
The main features of ITH range are:

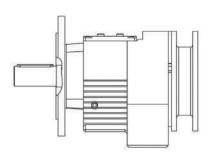
- · Robust cast iron housings;
- · High degree of modularity;
- · Lubrication with synthetic oil;
- · Coupled to motor with input coupling;





Versions





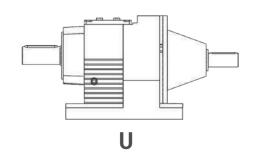
۲.,

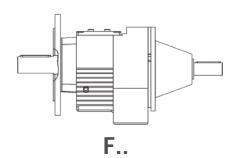
	GEARBOX											
ITH	6	2	Н	27.58	D90	132	B5	M1				
Туре	Size	Stages	Version	Ratio	Output shaft	IEC	Version	Mounting position	Backstop device			
ITH	15 16 17 18	2 3	U F	see tables	see tables	100 280	B5 B14	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M5 (B7) M6 (B6)	CCM			





Classification

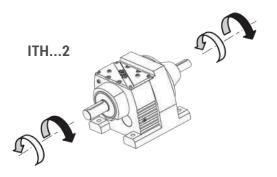


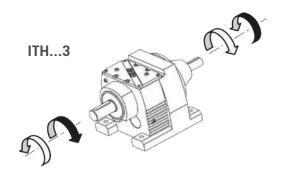


	GEARBOX											
ITH 16 2 H 29.49 D90												
Туре	Size	Stages	Version	Ratio	Output shaft	Mounting position						
						M1 (B3)						
ITHIS	15					M2 (V6)						
	16	2	U	see	see	M3 (B8)						
	17	3	F	tables	tables	M4 (V5)						
	18					M5 (B7)						
						M6 (B6)						

MOTOR										
5.5 kW	5.5 kW 4P 3ph 230/400V 50Hz									
Power	Poles	Phases	Voltage	Frequency	Terminal box pos.					
	2р		230/400V		T1					
see	4p	1ph	220/380V	50Hz	T4 T2					
tables	6р	3ph		60Hz						
	8p		230V		Т3					

Direction of rotation





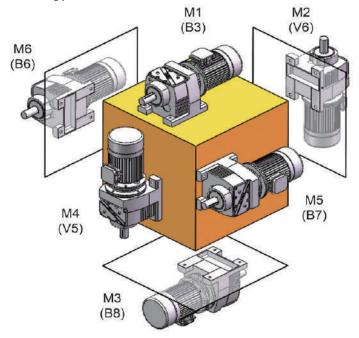
Symbols

n ₁	[min ⁻¹]	Input speed	Mn ₂	[Nm]	Nominal output torque referred to Pn ₁
n_2	[min ⁻¹]	Output speed	sf		Service factor
i		Ratio	R_1	[N]	Permitted input radial load
P_1	[kW]	Input power	A ₁	[N]	Permitted input axial load
M_2	[Nm]	Output torque referred to P ₁	R_2	[N]	Permitted output radial load
Pn_1	[kW]	Nominal in put power	A ₂	[N]	Permitted output axial load

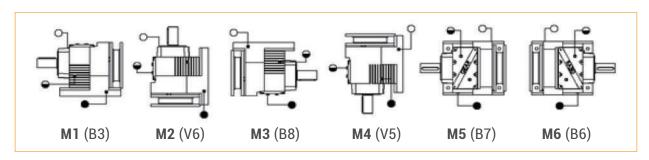


Lubrication

- ITH series gearmotors come complete with mineral oil.
- The lubricant quantity depends on mounting position.



ITH			Oil quant	ity (litres)		
	M1 (B3)	M2 (V6)	M3 (B8)	M4 (V5)	M5 (B7)	M6 (B6)
152 153	6.5 / 13.5	17	17	19.5	15	13.5
162 163	11 / 27	29	30	31.5	25	25
172 173	16 / 45	47	48	53	41	39.5
182 183	29 / 75	85	78	90	70	66



- Breather and filling plug
- Oil level plug
- Oil drain plug



Technical data

P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		(IEC)	R ₂ [N]	P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		IEC	R ₂ [N]
1. 1								3.0							Ĩ
90S4 1400min ⁻¹	10. 2 9. 0 8. 2 7. 1 6. 4 6. 0 5. 3	940 1060 1161 1348 1504 1594 1805	4. 3 3. 8 3. 4 3. 0 2. 7 2. 5 2. 2	137. 6 155. 2 170. 0 197. 4 220. 2 233. 4 264. 4	ITH153	B5 B5 B5 B5 B5 B5 B5	26280 26280 26280 26280 26280 26280 26280 26280	100LB4 1400min ⁻¹	16. 6 14. 8 13. 2 12. 1 10. 2 9. 0 8. 2 7. 1	1572 1759 1981 2155 2564 2890 3168 3678	4. 8 4. 3 3. 8 3. 5 2. 9 2. 6 2. 4 2. 0	84. 4 94. 4 106. 4 115. 7 137. 7 155. 2 170. 1 197. 5	T ITH163	B5 B5 B5 B5 B5 B5 B5 B5	T 48060 48060 48060 48060 48060 48060 48060 48060
1.5									6. 4	4103 4348	1. 8	220. 3 233. 5		B5 B5	48060 48060
90L4 1400min ⁻¹	14.8 13.2 12.1 10.2 9.0 8.2 7.1 6.4 6.0 5.3	879 990 1077 1281 1445 1583 1838 2050 2173 2462	4. 6 4. 1 3. 8 3. 2 2. 8 2. 6 2. 2 2. 0 1. 9	94. 4 106. 3 115. 7 137. 6 155. 2 170. 0 197. 4 220. 2 233. 4 264. 4	ITH153	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5	26280 26280 26280 26280 26280 26280 26280 26280		5. 3 10. 3 9. 1 8. 3 7. 2 6. 4 6. 1 5. 4	4928 2535 2859 3132 3637 4056 4300 4872	1. 5 4. 7 4. 2 3. 8 3. 3 3. 0 2. 8 2. 5	264. 6 136. 1 153. 5 168. 2 195. 3 217. 8 230. 9	ITH173	B5 B5 B5 B5 B5 B5 B5 B5	56430 56430 56430 56430 56430 56430 56430
9 9	10.0	2402	11. (204.4	1	БО	26280	4. 0	T 40 0 1	000	1.0	l oo 4	Lamine	T ps	Lacena
2.2 100LA4 1400min ⁻¹	7 23. 3 21. 3 18. 5 16. 6 14. 8 13. 2 12. 1 10. 2 9. 0 8. 2 7. 1 6. 4 6. 0 5. 3 12. 1 10. 2 9. 0 8. 2 7. 1 6. 4 6. 0 5. 3	821 899 1036 1153 1289 1452 1580 1879 2119 2322 2696 3007 3187 3611 1580 1881 2119 2323 2697 3009 3189 3614	3. 2 2. 8 2. 5 2. 4	60. 1 65. 9 75. 9 84. 4 94. 4 106. 3 115. 7 137. 6 155. 2 170. 0 197. 4 220. 2 233. 4 264. 4 115. 7 137. 7 155. 2 170. 1 197. 5 220. 3 233. 5 264. 6	ITH153	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B	26280 26280 26280 26280 26280 26280 26280 26280 26280 26280 26280 26280 48060 48060 48060 48060 48060 48060 48060	112M4 1400min ⁻¹	42. 0 37. 6 32. 6 29. 3 26. 2 23. 3 21. 3 18. 5 16. 6 14. 8 13. 2 12. 1 10. 2 9. 0 8. 2 7. 1 21. 2 18. 4 16. 6 14. 8 13. 2 12. 1 16. 6	828 925 1065 1185 1325 1493 1635 1884 2096 2344 2639 2873 3417 3854 4221 4901 1636 1885 2097 2345 2642 2873 3419	4.8 4.3 3.8 3.4 3.0 2.7 2.4 2.1 1.9 1.7 1.5 1.4 1.2 1.0 0.9 0.8 4.6 4.0 3.6 3.2 2.8 2.6 2.2	33. 4 37. 2 42. 9 47. 7 53. 4 60. 1 65. 9 75. 9 84. 4 94. 4 106. 3 115. 7 137. 6 155. 2 170. 0 197. 4 65. 9 75. 9 84. 4 94. 4 106. 4 115. 7 137. 7	ITH153	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B	26280 26280 26280 26280 26280 26280 26280 26280 26280 26280 26280 26280 26280 48060 48060 48060 48060 48060
3. 0									9. 0	3854	1. 9	155. 2		В5	48060
100LB4 1400min ⁻¹	29. 3 26. 2 23. 3 21. 3 18. 5	889 994 1119 1226 1413	4. 5 4. 0 3. 6 3. 3 2. 8	47. 7 53. 4 60. 1 65. 9 75. 9	ITH153	B5 B5 B5 B5 B5	26280 26280 26280 26280 26280 26280		8. 2 7. 1 6. 4 6. 0 5. 3	4224 4904 5470 5798 6570	1.8 1.5 1.4 1.3 1.1	170. 1 197. 5 220. 3 233. 5 264. 6		B5 B5 B5 B5 B5	48060 48060 48060 48060 48060
	16. 6 14. 8 13. 2 12. 1 10. 2 9. 0 8. 2 7. 1 6. 4 6. 0 5. 3	1572 1758 1980 2155 2562 2890 3166 3676 4101 4346 4924	2. 5 2. 3 2. 0 1. 9 1. 6 1. 4 1. 3 1. 1 1. 0 0. 9 0. 8	84. 4 94. 4 106. 3 115. 7 137. 6 155. 2 170. 0 197. 4 220. 2 233. 4 264. 4		B5 B5 B5 B5 B5 B5 B5 B5 B5 B5	26280 26280 26280 26280 26280 26280 26280 26280 26280 26280 26280		13. 4 12. 2 10. 3 9. 1 8. 3 7. 2 6. 4 6. 1 5. 4	2595 2841 3379 3811 4176 4849 5408 5733 6496	4. 6 4. 2 3. 6 3. 1 2. 9 2. 5 2. 2 2. 1 1. 8	104. 5 114. 4 136. 1 153. 5 168. 2 195. 3 217. 8 230. 9 261. 6	ITH173	B5 B5 B5 B5 B5 B5 B5 B5	56430 56430 56430 56430 56430 56430 56430 56430







Property									•							
	P ₁	n ₂	M ₂	ef	;		(FG)	R ₂	P ₁	n ₂	M ₂	ef		- FEEH	MEG	R ₂
1199 1199 138 138 14 2 134.3 1711183 85 108000 1408 16 6 1007 14 10 10 15 2 2280 15 15 15 10 10 10 10 1	[kw]	[min ⁻¹	[Nm]	31	'			[N]	[kw]	[min ⁻¹]	[Nm]	31		工工	1	[N]
1199 1199 138 138 14 2 134.3 1711183 85 108000 1408 16 6 1007 14 10 10 15 2 2280 15 15 15 10 10 10 10 1							area e									
1199 1199 138 138 14 2 134.3 1711183 85 108000 1408 16 6 1007 14 10 10 15 2 2280 15 15 15 10 10 10 10 1	4.0								7.5							
	112M4	9.1 I	3831	4. 2	154. 3	TTTH183	I в5 I	108000	132MA4	72.8	925	4. 3	19. 2	ITH152	В5	26280
6.8 5160 3.1 20.6 8.5 108000 50.1 1300 3.1 27.9 111152 8.5 20.80 20.80 3.5 3.5	$1400\mathrm{min}^{-1}$	8.3	4199	3.8	169.1	11111100	B5	108000	$1400 \rm mi n^{-1}$		1007	4.0	20.9		В5	26280
		7.5	4628	3. 5	186. 4		B5	108000		56.2	1197	3. 3	24. 9		В5	26280
S. S. S. S. S. S. S. S.		1 1								50 1	1200	2 1	97 0	TTU152	R5	26280
1.0 1.0		1 1												1111100		
S. S		[5.3]	6530	2.5	263. 0	l	l Ro l	108000								
132-84 56.2 878 4.6 24.9 THILS2 B5 26.808 26.2 24.85 1.6 63.5 4.9										32.6	1998		42.9			
1400min 10, 1 954 4, 2 27, 9 THIS2 85 26280 23, 3 2798 1, 4 60, 1 86 26280 42, 0 1711 3 35 26280 21, 3 3533 1, 1 75, 9 85 26280 23, 3 61, 4 61, 5 27, 4 27, 9 85 26280 13, 2 3533 1, 1 75, 9 85 26280 23, 3 3, 4 75, 9 85 26280 26, 2 1822 2, 2 53, 4 85 26280 14, 8 4395 0, 9 44, 4 85 26280 26, 2 1822 2, 2 53, 4 85 26280 3, 3 1, 1 75, 9 85 26280 26, 2 1822 2, 2 53, 4 85 26280 3, 3 14, 8 35 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 26280 3, 3 3, 1 75, 9 85 48060 18, 6 2828 1, 1 10, 6 3 85 26280 29, 9 2179 3, 4 46, 8 85 48060 14, 8 3223 1, 2 4, 8 4, 4 85 26280 23, 7 2744 2, 7 59, 0 85 48060 12, 1 3, 1 24, 4 85 48060 14, 8 4397 1, 7 8, 9 4, 4 85 48060 14, 8 4397 1, 7 8, 9 4, 4 85 48060 14, 8 4397 1, 7 8, 9 4, 4 85 48060 18, 4 4, 959 2, 9 75, 9 85 48060 14, 8 4397 1, 7 8, 4 4, 8 4, 9 4, 4 85 48060 18, 4 4, 959 2, 9 75, 9 85 48060 14, 8 4397 1, 7 8, 4 4, 8 4, 9 4, 4 85 48060 18, 4 4, 959 2, 9 4, 4 85 48060 14, 8 4397 1, 7 8, 4 4, 8 4, 4 85 48060 18, 4 4, 4	5.5															
	132S4	56. 2	878	4.6	24. 9	ITH152	В5	26280								
42.0 11.9 3.5 33.4 85 26280 1.6 30.33 1.1 75.6 85 26280 32.6 14.5 35.33 1.1 75.6 85 26280 32.6 14.6 39.9 1.0 81.4 85 26280 29.3 16.0 25.4 4.6 85 26280 29.3 4.8 43.5 49.9 0.8 106.3 20.8 20.		50. 1	954	4.2	27.9	ITH153	B5	26280								
31				3. 5	33. 4											
19.					I										B5	26280
26. 2 1822 2. 2 53. 4 85 26280 13. 2 4949 0.8 100. 3 111163 85 48060 18. 5 2594 1. 8 65. 9 85 26280 33. 3 1701 4. 4 36. 5 85 48060 14. 8 3622 1. 2 94. 4 85 26280 22. 9 2179 3. 4 46. 8 85 48060 13. 2 3628 1. 1 106. 3 85 26280 22. 9 2179 3. 4 46. 8 85 48060 12. 1 3950 1. 0 115. 7 85 26280 22. 9 24. 7 24. 7 5. 9 85 48060 12. 1 3950 1. 0 115. 7 85 26280 22. 9 24. 7 24. 7 7 9. 0 85 48060 12. 1 3950 1. 0 115. 7 85 26280 22. 9 24. 7 24. 7 7 9. 0 85 48060 12. 1 3950 1. 0 115. 7 85 26280 22. 9 24. 7 24. 7 7 9. 0 85 48060 12. 1 3950 1. 0 12. 1 3950 1. 0 13. 6 85 26280 22. 9 24. 2					I											
23.3 2626 1.9 60.1					I					13.2	4949	0.8	1 06 . 3		B5	26280
1.1 1.2 1.2 1.3 1.4 1.5					I					40.0	1500	, ,	00.7	TTHICO	D.C	40000
18. 5 2991 1.5 75. 9														1111103		
16.6 2882 1.4 84.4 85 26280 26.7 24.7 3.4 46.8 85 48060 13.2 3629 1.1 106.3 85 26280 23.7 2744 2.7 59.0 85 48060 10.2 4688 0.9 137.6 85 26280 21.2 3068 2.4 65.9 85 48060 29.9 1598 4.7 46.8 171163 85 48060 16.6 3931 1.9 84.4 85 48060 24.7 27.5		18. 5	2591	1.5	75. 9		B5	26280								
14.8 3223 1.2 94.4 85 26280 26.7 2474 2.1 3.1 52.4 85 48060 12.1 3950 1.0 115.7 85 26280 21.2 3088 2.4 65.9 85 48060 12.2 4688 0.9 137.6 85 26280 21.2 3088 2.4 65.9 85 48060 29.9 1598 4.7 46.8 ITHI63 85 48060 16.6 3931 1.9 84.4 85 48060 26.7 1787 4.2 52.4 85 48060 14.8 4397 1.7 94.4 85 48060 21.2 2250 3.3 65.9 85 48060 12.1 5387 1.4 115.7 85 48060 18.4 2592 9 75.9 85 48060 12.1 5387 1.4 115.7 85 48060 16.6 2833 2.6 84.4 85 48060 12.1 5387 1.4 115.7 85 48060 16.6 2833 2.1 106.4 85 48060 9.0 7226 1.0 155.2 85 48060 14.8 2322 2.3 94.4 85 48060 9.0 7226 1.0 155.2 85 48060 14.8 2332 2.1 106.4 85 48060 7.1 9195 0.8 197.5 85 48060 12.1 3950 1.9 115.7 85 48060 7.1 9195 0.8 197.5 85 48060 12.1 3950 1.9 115.7 85 48060 26.3 2481 4.8 53.3 ITHI73 85 56430 10.2 4701 1.6 137.7 85 48060 24.1 2704 4.4 58.1 85 56430 10.2 4701 1.0 1.0 20.3 85 48060 24.1 2704 4.4 58.1 85 56430 10.2 4701 1.0 20.3 85 48060 24.1 2704 4.4 58.1 85 56430 10.3 4047 2.3 2.3 2.5 8.5 48060 2.4 2.2 2.3 3.4 7.5 6 85 56430 10.3 4047 2.3 2.3 2.4 2.3 3.5 8.5 56430 3.3 3.3 8.5 56430 10.3 4047 2.3 2.3 2.3 2.5 8.5 48060 1.5 2.2 3.3 3.3 8.5 56430 10.3 4047 2.3																
12					I	1 1							52.4		B5	48060
10.2 4698 0.9 137.6 B5 26280 181.4 3535 175.9 B5 48060 29.9 1588 4.7 46.8 THI63 B5 48060 16.6 3931 1.9 84.4 B5 48060 26.7 1787 4.2 52.4 48060 26.7 1787 4.2 52.4 48060 26.7 1787 4.2 52.4 48060 21.2 2260 3.3 65.9 B5 48060 12.1 5387 1.4 115.7 B5 48060 18.4 2592 9 75.9 B5 48060 10.2 6411 1.2 137.7 B5 48060 16.6 2883 2.6 84.4 B5 48060 8.2 7919 0.9 170.1 B5 48060 13.2					I					23.7	2744		59. 0		В5	
29, 9 1598 4.7 46.8 TIHI63 B5 48060 16.6 3931 1.9 84.4 B5 48060 26.7 1787 4.2 52.4 B5 48060 14.8 4397 1.7 94.4 B5 48060 21.2 2250 3.3 65.9 B5 48060 13.2 4954 1.5 106.4 B5 48060 18.4 2592 2.9 75.9 B5 48060 10.2 6411 1.2 137.7 B5 48060 16.6 3931 2.9 4.4 B5 48060 16.7 3900 1.9 115.7 B5 48060 12.1 3950 1.9 115.7 B5 48060 2.6 3 2481 4.8 53.3 ITHI73 B5 56430 4.2 3.9 4.4 4.5			l .		I											
26.7 1787 4.2 52.4			1030	0. 9	157.0											
10.0 10.0					I	ITH163										
21.2 2250 3.3 65.9 B5 48060 10.2 6411 1.2 137.7 B5 48060 18.4 2592 2.9 75.9 B5 48060 10.2 6411 1.2 137.7 B5 48060 14.8 3224 2.3 94.4 B5 48060 8.2 7919 0.9 170.1 B5 48060 13.2 3633 2.1 106.4 B5 48060 7.1 9195 0.8 197.5 B5 48060 12.1 3950 1.9 115.7 B5 48060 26.3 2481 4.8 53.3 1711173 B5 56430 6.4 75.2 1.0 155.2 B5 56430 6.4 75.2 1.0 20.3 B5 48060 24.1 2704 4.4 58.1 B5 56430 6.0 7972 0.9 233.5 B5 48060 15.0 4342 2.8 89.3 B5 56430 6.7 72860 4.2 83.8 B5 56430 6.7 72860 4.2 83.8 B5 56430 6.7 2860 4.2 83.8 85 56430 6.7 2860 4.2 83.8 85 56430 6.1 6.7 2860 4.2 83.8 85 56430 6.1 6.7 2860 4.2 83.8 85 56430 6.1 6.7 2860 4.2 83.8 85 56430 6.1 6.7 2860 4.2 83.8 85 56430 6.1 6.7 2860 4.2 83.8 85 56430 6.1 6.7 2860 4.2 83.8 85 56430 6.1 6.7 2860 4.2 83.8 85 56430 6.1 6.7 2860 8.2 136.1 85 56430 6.1 6.7 2860 8.2 136.1 85 56430 6.1 6.7 6.6 8.5 56430 6.1 6.7 6.6 8.5 6.6 6.0 6.4 7.2 6.6 8.5 6.6 6.0 6.4 7.2 6.6 8.5 6.6 6.0 6.4 7.2 6.6 8.5 6.6 6.0 6.4 7.2 6.6 8.5 6.6 6.0 6.4 7.2 6.6 8.5 6.6 6.0 6.4 7.2 6.6 8.5 6.6 6.0 6.4 7.2 6.6 8.5 6.6 6.0 6.4 7.2 6.6 8.5 6.6 6.0 6.6 6.0 6.6 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0					I											
18.4 2592 2.9 75.9 85 48060 9.0 7226 1.0 155.2 85 48060 9.0 7226 1.0 155.2 85 48060 9.0 7226 1.0 155.2 85 48060 13.2 3633 2.1 106.4 85 48060 8.2 7919 0.9 170.1 85 48060 12.1 3950 1.9 115.7 85 48060 26.3 2481 4.8 53.3 1711173 85 56430 8.2 5807 1.3 170.1 85 48060 24.1 2704 4.4 58.1 85 56430 8.2 5807 3.4 75.6 85 56430 3.4 75.6 85 56430 3.4 75.6 85 56430 3.5					I											
16.6 2883 2.6 84.4 85 48060 8.2 7919 0.9 170.1 155.2 85 48060 13.2 3633 2.1 106.4 85 48060 7.1 9195 0.8 197.5 85 48060 12.1 3950 1.9 115.7 85 48060 26.3 2481 4.8 53.3 1TH173 85 56430 8.2 5807 1.3 1.1 197.5 85 48060 24.1 2704 4.4 58.1 85 56430 8.2 5807 1.3 1.1 197.5 85 48060 21.3 3062 3.9 65.8 85 56430 6.4 7521 1.0 220.3 85 48060 15.0 3521 3.4 75.6 85 56430 6.4 7521 1.0 220.3 85 48060 15.0 3432 2.8 93.3 85 56430 6.0 7972 0.9 233.5 85 48060 15.0 4342 2.8 93.3 85 56430 6.0 7972 0.9 233.5 85 48060 15.0 4342 2.8 93.3 85 56430 6.0 7972 0.9 233.5 85 48060 15.0 4342 2.8 93.3 85 56430 6.0 7972 0.9 233.5 85 48060 15.0 4342 2.8 93.3 85 56430 6.0 7972 0.9 233.5 85 48060 15.0 4342 2.8 93.3 85 56430 6.0 7972 0.9 233.5 85 56430 10.3 6336 1.9 136.1 85 56430 16.7 2860 4.2 83.8 85 56430 9.1 7146 1.7 153.5 85 56430 15.0 3184 3.8 93.3 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 153.5 85 56430 9.1 7146 1.7 1.0 1					l					10.2	6411	1.2	137.7		B5	48060
13.2 3633 2.1 106.4					I										В5	
12.1 3950 1.9 115.7 85 48060 26.3 2481 4.8 53.3 1TH173 85 56430			3224	2. 3	94. 4		B5	48060								
10.2 4701 1.6 137.7 85 48060 26.3 2481 4.8 53.3 ITHI73 85 56430			l .		I					7. 1	9195	0.8	197. 5		В5	48060
10.2 4701 10 157 156 157 156 157 157 157 158 48060 24.1 2704 4.4 58.1 85 56430 8.2 5807 1.3 170.1 85 48060 21.3 3062 3.9 65.8 85 56430 6.4 7521 1.0 220.3 85 48060 16.7 3900 3.1 83.8 85 56430 6.0 7972 0.9 233.5 85 48060 15.0 4342 2.8 93.3 85 56430 5.3 9034 0.8 264.6 85 48060 15.0 4342 2.8 93.3 85 56430 18.5 2582 4.6 75.6 171173 85 56430 10.3 6336 1.9 136.1 85 56430 16.7 2860 4.2 83.8 85 56430 9.1 7146 1.7 153.5 85 56430 15.0 3184 3.8 93.3 85 56430 9.1 7146 1.7 153.5 85 56430 12.2 3906 3.1 114.4 85 56430 9.1 7146 1.7 153.5 85 56430 10.3 4647 2.6 136.1 85 56430 6.4 10140 1.2 217.8 85 56430 9.1 5241 2.3 153.5 85 56430 5.4 12179 1.0 261.6 85 56430 8.3 5743 2.1 168.2 85 56430 18.6 3514 4.6 75.5 1711183 85 108000 13.2 3609 4.4 105.7 171183 85 56430 10.3 24921 3.3 105.7 85 108000 13.2 3609 4.4 105.7 171183 85 108000 7.5 8678 18.8 18.6 3573 2.0 169.1 85 108000 9.1 5246 3.0 154.3 85 108000 7.5 8678 18.8 18.6 48.8 55 108000 9.1 5268 3.0 154.3 85 108000 7.5 8678 18.8 18.6 85 108000 9.1 5268 3.0 154.3 85 108000 7.5 8678 18.8 18.6 85 108000 9.1 5268 3.0 154.3 85 108000 7.5 8678 18.8 18.6 85 108000 9.1 5268 3.0 154.3 85 108000 7.5 8678 18.8 18.6 85 108000 9.1 5268 3.0 154.3 85 108000 7.5 8678 18.8 18.6 85 108000 9.1 5268 3.0 154.3 85 108000 6.0 10806 1.5 232.1 85 108000 9.1 5268 3.0 155.0 85 108000 6.0 10806 1.5 232.1 85 108000 9.1 5268 3.0 155.0 85 108000 6.0 10806 1.5 232.1 85 108000 9.1 5268 3.0 155.0					I					26. 3	2481	4.8	53. 3	ITH173	B5	56430
8.2 5807 1.3 170. 1 B5 48060 21.3 3062 3.9 65.8 B5 56430 7.1 6743 1.1 197.5 B5 48060 18.5 3521 3.4 75.6 B5 56430 6.0 7972 0.9 233.5 B5 48060 15.0 4342 2.8 93.3 B5 56430 5.3 9034 0.8 264.6 B5 48060 13.4 4865 2.5 104.5 B5 56430 18.5 2582 4.6 75.6 ITH173 B5 56430 10.3 6336 1.9 136.1 B5 56430 15.0 3184 3.8 93.3 B5 56430 9.1 7146 1.7 153.5 B5 56430 15.0 3184 3.8 93.3 B5 56430 9.1 7146 1.7 153.5 B5 56430 13.4 3568 <td< td=""><td></td><td></td><td>l .</td><td>1</td><td>I</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>11111110</td><td></td><td></td></td<>			l .	1	I									11111110		
7. 1 6743 1. 1 197.5 B5 48060 18.5 3521 3. 4 75.6 B5 56430 6. 4 7521 1. 0 220.3 B5 48060 16.7 3900 3. 1 83.8 B5 56430 6. 0 7972 0. 9 233.5 B5 48060 15.0 4342 2. 8 93.3 B5 56430 5. 3 9034 0. 8 264.6 B5 48060 13.4 4865 2. 5 104.5 B5 56430 18. 5 2582 4. 6 75.6 ITH173 B5 56430 10.3 6336 1.9 136.1 B5 56430 16. 7 2860 4. 2 83.8 B5 56430 9.1 7146 1. 7 153.5 B5 56430 15. 0 3184 3568 3. 4 104.5 B5 56430 8. 3 7831 1. 5 168.2 B5 56430					I					21.3	3062	3. 9	65.8		В5	56430
6. 4 7521 1. 0 220. 3					I											
Solution		1	7521		I		B5	48060								
12.2 5326 2.3 114.4 B5 56430 10.3 6336 1.9 136.1 B5 56430 16.7 2860 4.2 83.8 B5 56430 8.3 7831 1.5 168.2 B5 56430 10.3 6336 1.9 136.1 B5 56430 13.4 3568 3.4 104.5 B5 56430 6.4 10140 1.2 217.8 B5 56430 10.3 4647 2.6 136.1 B5 56430 6.4 10140 1.2 217.8 B5 56430 10.3 4647 2.6 136.1 B5 56430 6.4 10750 1.1 230.9 B5 56430 10.3 4647 2.3 153.5 B5 56430 5.4 12179 1.0 261.6 B5 56430 10.3 4647 2.3 153.5 B5 56430 5.4 12179 1.0 261.6 B5 56430 18.6 3514 4.6 75.5 ITH183 B5 108000 16.1 7883 1.5 230.9 B5 56430 14.9 4371 3.7 93.9 B5 108000 12.2 3926 4.1 115.0 B5 108000 12.2 3926 4.1 115.0 B5 108000 12.2 3926 4.1 115.0 B5 108000 10.2 6374 2.5 136.9 B5 108000 12.2 3926 4.1 115.0 B5 108000 10.2 6374 2.5 136.9 B5 108000			l .		I											
18. 5 2582 4. 6 75. 6 ITH173 B5 56430 10. 3 6336 1. 9 136. 1 B5 56430 16. 7 2860 4. 2 83. 8 B5 56430 9. 1 7146 1. 7 153. 5 B5 56430 15. 0 3184 3. 8 93. 3 B5 56430 8. 3 7831 1. 5 168. 2 B5 56430 12. 2 3996 3. 1 114. 4 B5 56430 6. 4 10140 1. 2 217. 8 B5 56430 10. 3 4647 2. 6 136. 1 B5 56430 6. 4 10140 1. 2 217. 8 B5 56430 9. 1 5241 2. 3 153. 5 B5 56430 5. 4 12179 1. 0 261. 6 B5 56430 8. 3 5743 2. 1 168. 2 B5 56430 5. 4 12179 1. 0 261. 6 B5 56430 8. 3 5743 2. 1 168. 2 B5 56430 18. 6 351. 4		5. 3	9034	0.8	264. 6		B5	48060								
16. 7 2860 4. 2 83. 8 85 56430 9. 1 7146 1. 7 153. 5 85 56430 15. 0 3184 3.8 93. 3 85 56430 8. 3 7831 1. 5 168. 2 85 56430 13. 4 3568 3. 4 104. 5 85 56430 6. 4 10140 1. 2 217. 8 85 56430 10. 3 4647 2. 6 136. 1 85 56430 6. 4 10140 1. 2 217. 8 85 56430 9. 1 5241 2. 3 153. 5 85 56430 6. 1 10750 1. 1 230. 9 85 56430 8. 3 5743 2. 1 168. 2 85 56430 5. 4 12179 1. 0 261. 6 85 56430 8. 3 5743 2. 1 168. 2 85 56430 18. 6 3514 4. 6 75. 5 ITH183 85 10800 8. 4 17. 8 85 56430 18. 6 3514 4. 6 75. 5 <td< td=""><td></td><td>18. 5</td><td>2582</td><td>4.6</td><td>75.6</td><td>ITH173</td><td>В5</td><td>56430</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		18. 5	2582	4.6	75.6	ITH173	В5	56430								
15. 0					I			56430		9. 1	7146	1.7	153. 5			
12. 2 3906 3. 1 114. 4 B5 56430 6. 4 10140 1. 2 217. 8 B5 56430 10. 3 4647 2. 6 136. 1 B5 56430 6. 1 10750 1. 1 230. 9 B5 56430 9. 1 5241 2. 3 153. 5 B5 56430 5. 4 12179 1. 0 261. 6 B5 56430 8. 3 5743 2. 1 168. 2 B5 56430 18. 6 3514 4. 6 75. 5 ITH183 B5 108000 6. 4 7436 1. 6 217. 8 B5 56430 18. 6 3514 4. 6 75. 5 ITH183 B5 108000 6. 1 7883 1. 5 230. 9 B5 56430 14. 9 4371 3. 7 93. 9 B5 108000 5. 4 8931 1. 3 261. 6 B5 56430 13. 2 4921 3. 3 105. 7 B5 108000 13. 2 3609 4. 4 105. 7 ITH183 B5 108000		1	l .	3.8	I							1.5				
10.3 4647 2.6 136.1					I											
9. 1 5241 2. 3 153. 5 B5 56430 5. 4 12179 1. 0 261. 6 B5 56430 8. 3 5743 2. 1 168. 2 B5 56430 18. 6 3514 4. 6 75. 5 ITH183 B5 108000 6. 4 7436 1. 6 217. 8 B5 56430 16. 7 3908 4. 1 83. 9 B5 108000 6. 1 7883 1. 5 230. 9 B5 56430 14. 9 4371 3. 7 93. 9 B5 108000 5. 4 8931 1. 3 261. 6 B5 56430 13. 2 4921 3. 3 105. 7 B5 108000 13. 2 3609 4. 4 105. 7 ITH183 B5 108000 10. 2 5354 3. 0 115. 0 B5 108000 12. 2 3926 4. 1 115. 0 B5 108000 9. 1 7184 2. 5 136. 9 B5 108000 9. 1 5268 3. 0 154. 3 B5 108000 8. 3					I											
8. 3 5743 2. 1 168. 2 B5 56430 18. 6 3514 4. 6 75. 5 ITH183 B5 108000 6. 4 7436 1. 6 217. 8 B5 56430 16. 7 3908 4. 1 83. 9 B5 108000 6. 1 7883 1. 5 230. 9 B5 56430 14. 9 4371 3. 7 93. 9 B5 108000 5. 4 8931 1. 3 261. 6 B5 56430 13. 2 4921 3. 3 105. 7 B5 108000 13. 2 3609 4. 4 105. 7 ITH183 B5 108000 10. 2 5354 3. 0 115. 0 B5 108000 12. 2 3926 4. 1 115. 0 B5 108000 9. 1 7184 2. 2 154. 3 B5 108000 9. 1 5268 3. 0 154. 3 B5 108000 8. 3 7873 2. 0 169. 1 B5 108000 9. 1 5268 3. 0 154. 3 B5 108000 7. 5 <td></td> <td></td> <td></td> <td></td> <td>I</td> <td></td>					I											
7. 2 6668 1. 8 195. 3 B5 56430 18. 6 3514 4. 6 75. 5 ITH183 B5 108000 6. 4 7436 1. 6 217. 8 B5 56430 16. 7 3908 4. 1 83. 9 B5 108000 6. 1 7883 1. 5 230. 9 B5 56430 14. 9 4371 3. 7 93. 9 B5 108000 5. 4 8931 1. 3 261. 6 B5 56430 13. 2 4921 3. 3 105. 7 B5 108000 13. 2 3609 4. 4 105. 7 ITH183 B5 108000 10. 2 5354 3. 0 115. 0 B5 108000 12. 2 3926 4. 1 115. 0 B5 108000 9. 1 7184 2. 2 154. 3 B5 108000 9. 1 5268 3. 0 154. 3 B5 108000 8. 3 7873 2. 0 169. 1 B5 108000 8. 3 5773 2. 8 169. 1 B5 108000 7. 5 <td></td> <td></td> <td></td> <td></td> <td>ı</td> <td></td> <td></td> <td></td> <td></td> <td>0. 1</td> <td>12110</td> <td>1.0</td> <td>201.0</td> <td></td> <td>ь</td> <td>50150</td>					ı					0. 1	12110	1.0	201.0		ь	50150
6. 1 7883 1. 5 230. 9					I					18. 6	3514	4.6	75. 5	ITH183	В5	108000
5. 4 8931 1. 3 261. 6 B5 56430 13. 2 4921 3. 3 105. 7 B5 108000 13. 2 3609 4. 4 105. 7 1TH183 B5 108000 10. 2 6374 2. 5 136. 9 B5 108000 12. 2 3926 4. 1 115. 0 B5 108000 9. 1 7184 2. 2 154. 3 B5 108000 10. 2 4674 3. 4 136. 9 B5 108000 8. 3 7873 2. 0 169. 1 B5 108000 9. 1 5268 3. 0 154. 3 B5 108000 7. 5 8678 1. 8 186. 4 B5 108000 8. 3 5773 2. 8 169. 1 B5 108000 6. 8 9572 1. 7 205. 6 B5 108000 7. 5 6364 2. 5 186. 4 B5 108000 6. 0 10806 1. 5 232. 1 B5 108000 6. 8 7019 2. 3 205. 6 B5 108000 5. 3 12244		6. 4	7436		217.8											
12. 2 5354 3. 0 115. 0 B5 108000 13. 2 3609 4. 4 105. 7 1TH183 B5 108000 10. 2 6374 2. 5 136. 9 B5 108000 12. 2 3926 4. 1 115. 0 B5 108000 9. 1 7184 2. 2 154. 3 B5 108000 10. 2 4674 3. 4 136. 9 B5 108000 8. 3 7873 2. 0 169. 1 B5 108000 9. 1 5268 3. 0 154. 3 B5 108000 7. 5 8678 1. 8 186. 4 B5 108000 8. 3 5773 2. 8 169. 1 B5 108000 6. 8 9572 1. 7 205. 6 B5 108000 7. 5 6364 2. 5 186. 4 B5 108000 6. 0 10806 1. 5 232. 1 B5 108000 6. 8 7019 2. 3 205. 6 B5 108000 5. 3 12244 1. 3 263. 0 B5 108000 6. 0 7924 2. 0 232. 1 B5 108000 85 108000 10806 1. 5 232. 1 B5 108000 86 7019 2. 3 205. 6 B5 108000 5. 3 12244 1. 3 263. 0 B5 108000 87 7019 7024 7025 7025 7025 7025 7025 7025 7025 7025 88 7019 7025 702					I											
13. 2 3609 4. 4 105. 7 1TH183 B5 108000 10. 2 6374 2. 5 136. 9 B5 108000 10. 2 4674 3. 4 136. 9 B5 108000 8. 3 7873 2. 0 169. 1 B5 108000 9. 1 5268 3. 0 154. 3 B5 108000 7. 5 8678 1. 8 186. 4 B5 108000 8. 3 5773 2. 8 169. 1 B5 108000 6. 8 9572 1. 7 205. 6 B5 108000 6. 8 7019 2. 3 205. 6 B5 108000 B5 108000 5. 3 12244 1. 3 263. 0 B5 108000 B5 1080		5. 4	8931	1.3	261.6		B 5	56430								
12. 2 3926 4. 1 115. 0 B5 108000 9. 1 7184 2. 2 154. 3 B5 108000 10. 2 4674 3. 4 136. 9 B5 108000 8. 3 7873 2. 0 169. 1 B5 108000 9. 1 5268 3. 0 154. 3 B5 108000 7. 5 8678 1. 8 186. 4 B5 108000 8. 3 5773 2. 8 169. 1 B5 108000 6. 8 9572 1. 7 205. 6 B5 108000 7. 5 6364 2. 5 186. 4 B5 108000 6. 0 10806 1. 5 232. 1 B5 108000 6. 8 7019 2. 3 205. 6 B5 108000 5. 3 12244 1. 3 263. 0 B5 108000 6. 0 7924 2. 0 232. 1 B5 108000 1. 3 10800 10800 1. 3 10800 10800 1. 3 10800 10800 1. 3 10800 10800 1. 3 10800 1. 3 10		13. 2	3609	4. 4	105. 7	ITH183	В5	108000								
10. 2 4674 3. 4 136. 9 B5 108000 8. 3 7873 2. 0 169. 1 B5 108000 8. 3 7873 2. 0 169. 1 B5 108000 8. 3 5773 2. 8 169. 1 B5 108000 6. 8 9572 1. 7 205. 6 B5 108000 6. 8 7019 2. 3 205. 6 B5 108000 B5 108000 5. 3 12244 1. 3 263. 0 B5 108000		12. 2		4. 1	115.0											
8.3 5773 2.8 169.1 B5 108000 6.8 9572 1.7 205.6 B5 108000 7.5 6364 2.5 186.4 B5 108000 6.0 10806 1.5 232.1 B5 108000 6.8 7019 2.3 205.6 B5 108000 5.3 12244 1.3 263.0 B5 108000 6.0 7924 2.0 232.1 B5 108000		1			I											108000
7. 5 6364 2. 5 186. 4 B5 108000 6. 0 10806 1. 5 232. 1 B5 108000 6. 0 10806 1. 5 232. 1 B5 108000 6. 0 10806 1. 5 232. 1 B5 108000 1080					I											
6. 8 7019 2. 3 205. 6 B5 108000 5. 3 12244 1. 3 263. 0 B5 108000 108000			l .		I											
6. 0 7924 2. 0 232. 1 B5 108000					I											
										J. J	12244	1. 5	200. U		GQ	100000
19.0 0919 1.0 200.0		5. 3	l .	1.8	263. 0		В5	108000								





В	l n	l M					В	I D	l n	l M					l p
P ₁ [kw]	m ₂	M ₂ [Nm]	sf	i		(IEC)	R ₂ [N]	P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		(IEC)	R ₂ [N]
11		-						15							
160M4	117.4	841	4.8	11.9	ITH152	B 5	26280	160L4	181.3	F743 I	5.4	7.7	ITH152	B5	26280
1400min ⁻¹	102.0	968	4. 1	13. 7		В5	26280	1400min ⁻¹	163. 0	826	4.8	8.6		B5	26280
	91.7	1077	3. 7	15. 3		В5	26280	1400111111	131.2	1026	3. 9	10.7		B5	26280
	82. 0	12 0 5	3. 3	17. 1		В5	26280		117. 4	1146	3. 5	11.9		B5	26280
	72.8	1356	2.9	19. 2		B5	26280		102.0	1321	3.0	13. 7		B5	26280
	66. 9 56. 2	1476	2.7	20.9		B5	26280		91.7	1469	2.7	15.3		B5	26280
	56. 2	1756	2.3	24. 9		B 5	26280		82. 0 72. 8	1643 1850	2.4	17. 1 1 9. 2		B5 B5	26280 26280
	50.1	1907	2.1	27. 9	ITH153	В5	26280		66. 9	2 0 13	2. 0	20. 9		B5	26280
	42.0	2277	1.8	33. 4		B 5	26280		56. 2	2395	1.7	24. 9		B5	26280
	37.6	2543	1.6	37. 2		B5	26280		50.1	0001		97.0	1711150	D.C	
	32. 6 29. 3	293 0 3259	1. 4 1. 2	42. 9 47. 7		B5 B5	26280 26280		50. 1 42. 0	2601 3105	1.5 1.3	27. 9 33. 4	ITH153	B5 B5	26280 26280
	26. 2	3645	1.1	53.4		B5 1	26280		37.6	3468	1.2	37. 2		B5	26280
	23. 3	4104	1.0	60. 1		B5	26280		32. 6	3995	1.0	42.9		B5	26280
	21.3	4497	0.9	65. 9		В5	26280		29.3	4444	0.9	47.7		B5	26280
									26. 2	4970	0.8	53.4		B5	26280
	56.6	1746	4.3	24.8	ITH162	B5	48060		8 2. 5	1631	4.6	17.0	ITH162	B5	48060
	52. 8 42. 8	1 809 2234	4. 1 3. 4	26. 5 32. 7	ITH163	B5 B5	48060 48060		73. 7	1827	4. 1	19.0	1111102	В5	48060
	38. 3	2494	3. 0	36. 5		в5 В5	48060		67.3	2001	3. 7	20.8		B 5	48060
	33. 3	2873	2.6	42. 1		B5	48060		56. 6	2381	3. 2	24.8		B5	48060
	29. 9	3196	2. 3	46.8		В5	48060		52. 8	2467	3.0	26.5	ITH163	B5	48060
	26.7	3575	2.1	52. 4		В5	48060		42.8	3046	2. 5	32.7		B5	48060
	23.7	4025	1.9	59. 0		В5	48060		38. 3	3401	2.2	36.5		B5	48060
	21. 2	4499	1.7	65. 9		B5	48060		33. 3	3918	1. 9	42.1		B5	48060
	18. 4	5184	1.4	75. 9		B5	48060		29. 9	4359	1.7	46.8		B5	48060
	16. 6 14. 8	5766 6449	1.3 1.2	84. 4 94. 4		B5 B5	48060 48060		26. 7 23. 7	4874 5489	1.5 1.4	52. 4 59. 0		B5 B5	48060 48060
	13. 2	7265	1.0	106. 4		B5	48060		21. 2	6135	1. 2	65. 9		B5	48060
	12. 1	7900	0.9	115. 7		В5	48060		18. 4	7069	1. 1	75. 9		B5	48060
	10.2	9403	0.8	137. 7		В5	48060		16.6	7862	1.0	84.4		B5	48060
	05.0	0500		0.77. 0		D.	50400		14.8	8794	0.9	94. 4		В5	48060
	37. 3 32. 4	25 66 2 950	4. 7 4. 1	37. 6 43. 2	ITH173	B5 B5	56430 56430		56. 6	2381	5.0	24.8	ITH172	B5	56430
	29. 2	3269	3.7	47. 9		В5 В5	56430		50.4	2587	4.6	27.8	ITH173	B5	56430
	26. 3	3639	3.3	53. 3		B 5	56430		42. 2	3090	3. 9	33. 2		B 5	5 6 43 0
	24.1	3966	3.0	58. 1		В5	56430		37. 3	3499	3.4	37.6		B5	56430
	21.3	4490	2.7	65.8		В5	56430		32. 4	4023	3.0	43. 2		B5	56430
	18.5	5164	2.3	75. 6		B 5	56430		29. 2 26. 3	4457 4963	2. 7 2. 4	47. 9 53. 3		B5 B5	56430 56430
		5720	2. 1	83. 8		B5	56430		24. 1	5408	2. 2	58. 1		B5	56430
	15. 0 13. 4	6369 7136	1. 9 1. 7	93.3 1 0 4.5		B5 B5	56430 56430		21. 3	6123	2. 0	65.8		B5	56430
	12. 2	7812	1. 7	114. 4		в5 В5	56430		18.5	7042	1.7	75.6		B5	56430
	10.3	9293	1. 3	136. 1		B5	56430		16.7	7800	1.5	83.8		B5	56430
	9. 1	10481	1. 1	153. 5		В5	5 6 43 0		15. 0	8685	1.4	93.3		B5	56430
	8. 3	11485	1.0	168. 2		В5	5 64 3 0		13.4	9730	1.2	104.5		B5	56430 56430
	7. 2	13336	0.9	195. 3		В5	5 6 43 0		12. 2 1 0 . 3	1 06 52 12 6 73	1. 1 0. 9	114. 4 136. 1		B5 B5	56430
	6. 4	14872	0.8	217.8		B 5	5 6 43 0		9. 1	14293	0.8	153. 5		B5	56430
	26. 5	3607	4. 4	52. 8	ITH1 8 3	В5	108000						1711100		
	23. 5	4062	3. 9	59. 5	1.11100	B5	108000		38. 0 33. 0	3432 3 9 54	4. 7 4. 0	36. 9 42. 5	ITH1 8 3	B5 B5	108000 108000
	21.4	4473	3.6	65. 5		В5	108000		29. 6	4399	3. 6	47. 2		B5	108000
	18.6	5153	3.1	75. 5		В5	108000		26. 5	4919	3. 3	52.8		В5	108000
	16. 7	5732	2.8	83. 9		B5	108000		23. 5	553 9	2. 9	59.5		В5	108000
	14. 9	6410	2.5	93. 9		B5	108000		21.4	6099	2. 6	6 5. 5		B5	108000
	13. 2	7217	2.2	105. 7		B5	108000		18.6	7027	2.3	75. 5		B5	108000
	12. 2 1 0 . 2	7852 9348	2. 0 1. 7	115. 0 13 6 . 9		B5 B5	108000 108000		16. 7	7816	2.0	83. 9		B5	108000
	9. 1	10536	1. 5	154. 3		В5 В5	108000		14. 9 13. 2	8741 9842	1.8 1.6	93. 9 1 0 5. 7		B5 B5	108000 108000
	8. 3	11547	1. 4	169. 1		B5	108000		12. 2	10708	1. 5	115. 0		В5	108000
	7. 5	12728	1.3	186. 4		В5	108000		10. 2	12747	1.3	136. 9		B5	108000
	6.8	14039	1.1	2 0 5. 6		В5	108000		9. 1	14367	1. 1	154. 3		В5	108000
	6. 0	15848		232. 1		B5	108000		8. 3	15745		169. 1		В5	108000
	5. 3	17958	0.9	263. 0		В5	108000		7. 5	17356		186. 4		B5	108000
									6. 8	19144	0.8	205. 6		B5	108000



P ₁ n ₂	M ₂	sf	i	-91	(IEC)	R ₂ [N]	P ₁ [kw]	n ₂	M ₂	sf	i	-91	IEC	R ₂
4	[iviii]				0	[[14]	22	11111111	II [iviii]					[[1]
18.5 160L24 288. 1400min ⁻¹ 233. 209. 181. 163.	795 3 916 0 1019	6. 9 5. 6 5. 0 4. 4 3. 9 3. 2	4. 9 6. 0 6. 7 7. 7 8. 6 10. 7	ITH152	B5 B5 B5 B5 B5 B5	26280 26280 26280 26280 26280 26280	180L4 1400min ⁻¹	288. 1 233. 3 209. 0 181. 3 163. 0 131. 2	846 945	5. 8 4. 7 4. 2 3. 7 3. 3 2. 7	4. 9 6. 0 6. 7 7. 7 8. 6 10. 7	ITH152	B5 B5 B5 B5 B5 B5	26280 26280 26280 26280 26280 26280
117. 102. 91. 7 82. 0 72. 8 66. 9 56. 2	1414	2. 8 2. 5 2. 2 2. 0 1. 8 1. 6 1. 4	11. 9 13. 7 15. 3 17. 1 19. 2 20. 9 24. 9		B5 B5 B5 B5 B5 B5 B5	26280 26280 26280 26280 26280 26280 26280 26280		117. 4 102. 0 91. 7 82. 0 72. 8 66. 9 56. 2	1682 1937 2154 2409 2713 2953 3513	2. 4 2. 1 1. 9 1. 7 1. 5 1. 4 1. 1	11. 9 13. 7 15. 3 17. 1 19. 2 20. 9 24. 9		B5 B5 B5 B5 B5 B5 B5	26280 26280 26280 26280 26280 26280 26280
50. 1 42. 0 37. 6 32. 6	3207 3830 4277 4928	1. 2 1. 0 0. 9 0. 8	27. 9 33. 4 37. 2 42. 9	ITH153	B5 B5 B5 B5	26280 26280 26280 26280		50. 1 42. 0 37. 6	3814 4554 5086	1. 0 0. 9 0. 8	27. 9 33. 4 37. 2	ITH153	B5 B5 B5	26280 26280 26280
101.4 91.9 82.5 73.7 67.3 56.6	8 1631 1807 2012 2254 2467 2936 3043	4. 6 4. 2 3. 7 3. 3 3. 0 2. 6 2. 5	13. 8 15. 2 17. 0 19. 0 20. 8 24. 8 26. 5	ITH162	B5 B5 B5 B5 B5 B5	48060 48060 48060 48060 48060 48060 48060		132. 6 117. 1 101. 8 91. 9 82. 5 73. 7 67. 3 56. 6	1490 1687 1940 2148 2392 2680 2934 3491	5. 0 4. 4 3. 9 3. 5 3. 1 2. 8 2. 6 2. 1	10. 6 12. 0 13. 8 15. 2 17. 0 19. 0 20. 8 24. 8	ITH162	B5 B5 B5 B5 B5 B5 B5 B5	48060 48060 48060 48060 48060 48060 48060
42. 8 38. 3 33. 3 29. 9 26. 7 23. 7 21. 2 18. 4	3756 4195 4832 5376 6012 6770 7567 8719	2. 0 1. 8 1. 6 1. 4 1. 2 1. 1 1. 0 0. 9	32. 7 36. 5 42. 1 46. 8 52. 4 59. 0 65. 9 75. 9		B5 B5 B5 B5 B5 B5 B5 B5	48060 48060 48060 48060 48060 48060 48060		52. 8 42. 8 38. 3 33. 3 29. 9 26. 7 23. 7 21. 2	3619 4467 4989 5747 6393 7149 8051 8998	2. 1 1. 7 1. 5 1. 3 1. 2 1. 0 0. 9 0. 8	26. 5 32. 7 36. 5 42. 1 46. 8 52. 4 59. 0 65. 9	ITH163	B5 B5 B5 B5 B5 B5 B5 B5	48060 48060 48060 48060 48060 48060 48060 48060
67. 3 56. 6 50. 4	2467 2936 3190	4. 9 4. 1 3. 8	20. 8 24. 8 27. 8	ITH172 ITH173	B5 B5 B5	56430 56430 56430		73. 2 67. 3 56. 6	2697 2934 3491	4. 4 4. 1 3. 4	19. 1 20. 8 24. 8	ITH172	B5 B5 B5	56430 56430 56430
42. 2 37. 3 32. 4 29. 2 26. 3 24. 1 21. 3 18. 5 16. 7 15. 0 13. 4 12. 2	3811 4316 4962 5497 6121 6670 7552 8685 9620 10711 12001 13138		33. 2 37. 6 43. 2 47. 9 53. 3 58. 1 65. 8 75. 6 83. 8 93. 3 104. 5 114. 4		B5 B	56430 56430 56430 56430 56430 56430 56430 56430 56430 56430 56430		50. 4 42. 2 37. 3 32. 4 29. 2 26. 3 24. 1 21. 3 18. 5 16. 7 15. 0 13. 4	3794 4533 5132 5901 6537 7279 7932 8981 10328 11440 12737 14271	3. 2 2. 6 2. 3 2. 0 1. 8 1. 6 1. 5 1. 3 1. 2 1. 0 0. 9 0. 8	27. 8 33. 2 37. 6 43. 2 47. 9 53. 3 58. 1 65. 8 75. 6 83. 8 93. 3 104. 5	ITH173	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5	56430 56430 56430 56430 56430 56430 56430 56430 56430 56430 56430
51. 1 42. 4 38. 0 33. 0 29. 6 26. 5 23. 5 21. 4 18. 6 16. 7 14. 9 13. 2 12. 2 10. 2 9. 1 8. 3	3144 3791 4233 4877 5425 6067 6832 7522 8667 9640 10781 12138 13206 15721 17720 19419	1.0 0.9	27. 4 33. 0 36. 9 42. 5 47. 2 52. 8 59. 5 65. 5 75. 5 83. 9 93. 9 105. 7 115. 0 136. 9 154. 3 169. 1	ITH183	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B	108000 108000 108000 108000 108000 108000 108000 108000 108000 108000 108000 108000 108000 108000 108000		56. 3 51. 1 42. 4 38. 0 33. 0 29. 6 26. 5 21. 4 18. 6 16. 7 14. 9 13. 2 12. 2 10. 2 9. 1	3510 3739 4508 5034 5800 6451 7215 8124 8945 10307 11463 12821 14435 15705 18696 21072	1. 2 1. 1 1. 0 0. 9	24. 9 27. 4 33. 0 36. 9 42. 5 47. 2 52. 8 59. 5 65. 5 75. 5 83. 9 105. 7 115. 0 136. 9 154. 3	ITH182 ITH183	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B	108000 108000 108000 108000 108000 108000 108000 108000 108000 108000 108000 108000 108000 108000 108000





P ₁ [kw]	n ₂ [min ⁻¹	M ₂	sf	i	-1	(IEC)	R ₂ [N]	P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		(IEC)	R ₂ [N]
30								37							
200L4	288. 1 233. 3		3. 0 2. 5	4. 9 6. 0	ITH152	B5 B5	26280 26280	225S 4 1 400 min ⁻¹	288. 1 233. 3	1153 1423	2. 5 2. 1	4. 9 6. 0	ITH152	B5 B5	26280 26280
1 TOOMITH	209.0	1289	2.5	6. 7		B5	26280	1 10011111	209. 0	1590	2. 0	6. 7		В5	26280
	181. 3	1485	2.2	7. 7		В5	26280		181. 3	1832	1.8	7.7		B5	26280
	163. 0	1652	2.0	8.6		B5	26280		163. 0	2038	1.7	8.6		B5	26280
	131. 2	2053	2.0	10.7		B5	26280		131. 2	2531	1.6	10.7 11.9		B5 B5	26280 26280
	117. 4 102. 0	2293 2641	1. 8 1. 6	11. 9 13. 7		B5 B5	26280 26280		117. 4 102. 0	2828 3257	1. 3	13. 7		B5	26280
	91.7	2937	1. 4	15. 3		B5	26280		91. 7	3623	1. 2	15. 3		B5	26280
	82. 0	3286	1. 3	17. 1		B5	26280		82. 0	4052	1.0	17.1		B5	26280
	72.8	3699	1.1	19. 2		B5	26280		72.8	4562	0.9	19.2		B5	26280
	66.9	4026	1.0	20.9		В5	26280		66. 9	4966	0.8	20.9		В5	26280
	56. 2	4790	0.9	24. 9		B5	26280		277.8	1196	3.8	5.0	ITH162	В5	48060
	277.8	970	4.6	5. 0	ITH162	B5	48060		232. 6	1428	3. 7	6. 0		В5	48060
	232. 6	1158	4.6	6. 0		B5	48060		2 0 5. 3	1618	3. 5	6.8		B5	48060
	205. 3	1312	4.3	6.8		B5	48060		178. 6	1860	3. 1	7.8		B5	48060
	178. 6 161. 1	1508 1672	3. 8	7. 8 8. 7		B5 B5	48060 48060		161. 1 132. 6	2062 2505	3. 1 2. 8	8. 7 10. 6		B5 B5	48060 48060
	132. 6	2031	3.8	10.6		B5	48060		117. 1	2838	2. 7	12.0		B5	48060
	117. 1	2301	3. 3	12.0		B5	48060		101.8	3262	2. 4	13.8		В5	48060
	101.8	2645	2.9	13.8		B5	48060		91.9	3613	2. 2	15.2		В5	48060
	91.9	2930	2.7	15. 2		В5	48060		82. 5	4024	1.9	17.0		В5	48060
	82.5	3262	2. 4	17. 0		B5	48060		73. 7	4508	1.7	19.0		B5	48060
	73.7	3655	2.1	19.0		B5	48060		67.3	4935	1.6	20.8		B5	48060
	67. 3 56. 6	4001 4761	2.0	20. 8 24. 8		B5 B5	48060 48060		56. 6	5872	1.3	24.8		B5	48060
	CV6000000000000000000000000000000000000	ASSESSA	MERCHANT IN	O ASSASSANCE OF THE PROPERTY O	TTU100	2008			52. 8	6086	1.2	26.5	ITH163	B5	48060
	52. 8 42. 8	4935 6091	1.5 1.2	26. 5 32. 7	ITH163	B5 B5	48060 48060		42. 8 38. 3	7513 8 3 90	1.0	32. 7 36. 5		B5 B5	48060 48060
	38. 3	6803	1. 1	36. 5		B5	48060								
	33. 3	7836	1.0	42.1		B5	48060		132.0	2517	4.6	10.6	ITH172	B5	56430
	29.9	8717	0.9	46.8		В5	48060		118. 1 102. 6	2811 3238	4. 5 3. 8	11. 9 13. 7		B5 B5	56430 56430
	102.6	2626	4.7	13. 7	ITH172	В5	56430		92. 2	3601	3. 5	15. 2		B5	56430
	92. 2	2920	4.3	15. 2	1.55797833000	B5	56430		82.4	4028	3. 1	17.0		В5	56430
	82.4	3266	3. 9	17. 0		B5	56430		73. 2	4536	2.6	19.1		В5	56430
8	73. 2	3678	3. 2	19. 1		B5	56430		67. 3	4935	2. 4	20.8		B5	56430
ð	67. 3 56. 6	4001 4761	2.9	20. 8 24. 8		B5 B5	56430 56430		56. 6	5872	2.0	24.8		B5	56430
	MA CORCAGO	Securitaria	XXVIII	U-station in	T. T. T. G.O.	8000			50.4	6380	1.9	27.8	ITH173	В5	56430
	50. 4 42. 2	5173 6181	2.4	27.8	ITH173	B5	56430 56430		42. 2	7623	1.6	33. 2		B5	56430
	37.3	6998	2. 0 1. 8	33. 2 37. 6		B5 B5	56430		37. 3 32. 4	8631 9924	1. 4 1. 2	37. 6 43. 2		B5 B5	56430 56430
	32. 4	8047	1.5	43. 2		B5	56430		29. 2	10995	1. 1	47. 9		B5	56430
	29. 2	8915	1.4	47.9		В5	56430		26. 3	12242	1. 0	53.3		B5	56430
	26. 3	9926	1.2	53. 3		В5	56430		24. 1	13340	0.9	58. 1		В5	56430
	24.1	10816	-	58. 1		B5	56430		21.3	15104	0.8	65.8		B5	56430
	21. 3 18. 5	12246 14084	1.0	65. 8 75. 6		B5 B5	56430 56430		91.7	3620	4.8	15.3	ITH182	B5	108000
	190255-0190	(Company of the comp	4400340	3035010351		81331			82.4	4033	3. 6	17.0		В5	108000
	82.4	3270	4.5	17.0	ITH182	B5	108000		74. 5	4460	3. 5	18.8		B5	108000
	74. 5 66. 9	3616 4024	4. 3 3. 9	18. 8 20. 9		B5 B5	108000 108000		66. 9 56. 3	4963	3. 2 2. 7	20. 9 24. 9		B5 B5	108000
	56. 3	4786	3. 3	24. 9		B5	108000			5 90 3				Ga	
	51. 1	5099	2. 9	27. 4	ITH183	B5	108000		51. 1	6289	2. 3	27.4	1TH183	B5	108000
	42. 4	6147	2. 9	33. 0	1111100	B5	108000		42. 4 38. 0	7582 8466	2. 2 2. 0	33. 0 36. 9		B5 B5	108000 108000
	38. 0	6864	2.5	36. 9		B5	108000		33. 0	9754	1.7	42.5		B5	108000
	33.0	7909	2.2	42. 5		В5	108000		29. 6	10850	1.6	47. 2		B5	108000
	29.6	8797	1.9	47.2		В5	108000		26. 5	12134	1. 4	52.8		В5	108000
	26. 5	9838	1.7	52. 8		B5	108000		23. 5	13664	1.2	59.5		В5	108000
	23. 5 21. 4	11079 12198	593572349	59. 5		B5 B5	108000		21.4	15044	1.1	65. 5		B5	108000
	18.6	14054	100 500	65. 5 75. 5		B5 B5	108000 108000		18.6	17334	1.0	75. 5 83. 9		B5	108000
	16. 7	15632	10000	83. 9		B5	108000		16. 7	19279	0. 9	00.9		B5	108000
	14. 9	17483		93. 9		B5	108000								
	13. 2	19684	0.9	105. 7		В5	108000								





P ₁ [kw]	n ₂	M ₂ [Nm]	sf	i	-94	(IEC)	R ₂ [N]	P ₁ [kw]	n ₂	M ₂ [Nm]	sf	i	-93	IEC	R ₂
45	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,						55	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
225M4	288. 1	14 0 2	2. 0	4. 9	ITH152	B5	26280	25 0 M4	277.8	1777	2.5	5. 0	ITH162	В5	48060
$1400 {\rm min}^{-1}$	233. 3	1731	1. 7	6. 0		B5 B5	26280 26280	$1400 \rm min^{-1}$	232. 6	2123	2.5	6.0		B5	48060
	209. 0 181. 3	1933 2228	1.7	6. 7 7. 7		B5	26280		205. 3 178. 6	2405 2765	2.4	6. 8 7. 8		B5 B5	48060 48060
	163. 0	2479	1. 4	8.6		B5	26280		161. 1	3065	2. 1	8.7		B5	48060
	131. 2	3079	1. 3	10.7		B5	26280		132. 6	3724	1. 9	10.6		B5	48060
	117.4	3439	1.2	11. 9		B5	26280		117. 1	4218	1.8	12.0		В5	48060
	102.0	3962	1. 1	13. 7		B5	26280		101.8	4849	1.6	13.8		В5	48060
	91.7	4406	0.9	15. 3		B5	26280		91.9	5371	1.5	15. 2		B5	48060
	82. 0	4928	0.9	17. 1		B5	26280		82.5	5981	1.3	17.0		B5	48060
	277.8	1454	3. 1	5. 0	ITH162	B5	48060		73.7	6701	1.2	19. 0		B5	48060 48060
	232.6	1737	3. 0	6. 0		B5	48060		67. 3 56. 6	7335 8 72 9	1. 1	20.8		B5 B5	48060
	205. 3	1968	2.9	6.8		B5	48060								
	178. 6 161. 1	2262 25 0 7	2. 6	7. 8 8. 7		B5 B5	48060 48060		52.8	9047	0.8	26. 5	ITH163	B5	48060
	132. 6	3047	2. 3	10.6		B5	48060		280. 6	1760	4.8	5. 0	ITH172	B 5	56430
	117. 1	3451	2. 2	12. 0		B5	48060		232. 6	2123	4.2	6.0		B5	56430
	101.8	3968	2. 0	13. 8		В5	48060		208. 3	2370	4.0	6.7		B5	56430
	91. 9	4395	1.8	15. 2		B5	48060		180. 9 162. 6	273 0 3 0 36	3. 6	7. 7 8. 6		B5 B5	56430 56430
	82. 5	4894	1.6	17. 0		B5	48060		132. 0	3742	3. 1	10.6		B5	56430
	73. 7	5482	1.4	19. 0		B5 B5	48060 48060		118. 1	4179	3. 0	11. 9		B5	56430
	67. 3 56. 6	6002 7142	1. 3	20. 8 24. 8		B5	48060		102.6	4814	2.6	13. 7		В5	56430
									92.2	5353	2.4	15. 2		B5	56430
	52. 8 42. 8	7402 9137	1.0	26. 5 32. 7	ITH163	B5 B5	48060 48060		82. 4	5988	2. 1	17. 0		B5	56430
									73. 2 67. 3	6743 7335	1.7	19. 1 20. 8		B5 B5	56430 56430
	208.3	1939	4.9	6. 7	ITH172	B5	56430		56.6	8729	1.6	24. 8		В5	56430
	180. 9 162. 6	2233 24 8 4	4. 4	7. 7 8. 6		B5 B5	56430 56430						7,0014,60		
	132. 0	3061	3. 8	10.6		B5	56430		50. 4 42. 2	9484	1.3	27. 8 33. 2	ITH173	B5 B5	56430
	118. 1	3419	3. 7	11. 9		B5	56430		37.3	11331 12 8 3 0	1. 1	37. 6		вэ В5	56430 56430
	102.6	3939	3. 1	13. 7		B5	56430		32. 4	14752	0.8	43. 2		B5	56430
	92. 2	4380	2. 9	15. 2		B5	56430						ITH182		
	82. 4	4900	2. 6	17. 0		B5	56430		13 0 . 7 113. 0	3777 437 0	4. 4 3. 8	10. 7 12. 4	1111102	B5 B5	108000 108000
	73. 2	5517	2. 1	19. 1		B5	56430		102. 0	4839	3. 4	13. 7		B5	108000
	67. 3 56. 6	6002 7142	2. 0	20. 8 24. 8		B5 B5	56430 56430		91.7	5382	3. 3	15. 3		В5	108000
									82.4	5995	2.4	17.0		В5	108000
	50. 4 42. 2	7760	1.6	27.8	ITH173	B5	56430		74.5	6630	2.4	18.8		В5	108000
	37. 3	9271 1 0 498	1.3	33. 2 37. 6		B5 B5	56430 56430		66. 9	7378	2.1	20. 9		B5	108000
	32. 4	12070	1.0	43. 2		B5	56430		56. 3	8774	1.8	24. 9		B5	108000
	29. 2	13372	0.9	47. 9		B5	56430		51.1	9348	1.6	27. 4	ITH183	B5	108000
	26. 3	14889	0.8	53. 3		В5	56430		42. 4 38. 0	11270 12584	1.5	33. 0 36. 9		B5 B5	108000 108000
	113.0	3575	4.6	12. 4	ITH182	B5	108000		33. 0	14500	1. 2	42. 5		B5	108000
	102.0	3959	4. 2	13. 7		В5	108000		29.6	16128	1. 1	47. 2		B5	108000
	91.7	4403	4.0	15. 3		В5	108000		26. 5	18037	0.9	52. 8		B5	108000
	82. 4	4905	3.0	17. 0		B5	108000		23. 5	20311	0.8	59. 5		В5	108000
	74. 5 66. 9	5425	2. 9	18.8		B5	108000								
	56.3	6036 7179	2. 6 2. 2	20. 9 24. 9		B5 B5	108000 108000	75							
					TTULO			280S4	277.8	2424	1. 9	5. 0	ITH162	В5	48060
	51. 1 42. 4	7648 9221	1. 9	27. 4 33. 0	ITH183	B5 B5	108000 108000	1400min ⁻¹	232. 6	2895	1.8	6.0		B5	48060
	38. 0	10296	1. 7	36. 9		B5	108000		205. 3	3280	1.7	6.8	ŀ	B5	48060
	33. 0	11863	1. 4	42. 5		B5	108000		178.6	3770	1. 5	7.8		В5	48060
	29. 6	13196	1. 3	47. 2		В5	108000		161.1	4179	1.5	8. 7		В5	48060
	26. 5	14757	1. 2	52. 8		В5	108000		132.6	5078	1.4	10.6		B5 ps	48060
	23. 5	16618	1.0	59. 5		B5	108000		117. 1 101. 8	5752 6613	1. 3 1. 2	12. 0 13. 8		B5 B5	48060 48060
	21. 4 18. 6	18297 21082	0. 9	65. 5 75. 5		B5 B5	108000 108000		91.9	7324	1. 1	15. 2		B5	48060
	10.0	21002	0.0	10.0		l bo	100000		82. 5	8156	1. 0	17. 0		В5	48060
									73. 7	9137	0.9	19. 0		В5	48060





P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		(IEC)	R ₂ [N]	P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		(IEC)	R ₂ [N]
75								90							
280S4 14 00 min ⁻¹	280. 6 232. 6 208. 3 180. 9	2400 2895 3232 3722	3. 5 3. 1 2. 9 2. 6	5. 0 6. 0 6. 7 7. 7	ITH172	B5 B5 B5 B5	56430 56430 56430 56430	280M4 1400min ⁻¹	51. 1 42. 4 38. 0	15297 18442 20593	1. 0 0. 9 0. 8	27. 4 33. 0 36. 9	ITH183	B5 B5 B5	108000 108000 108000
	162. 6 132. 0	4141 51 0 2	2.5	8. 6 10. 6		B5 B5 B5	56430 56430	110							
	118. 1 102. 6 92. 2 82. 4 73. 2 67. 3 56. 6	5699 6564 7300 8166 9195 10003 11903	2. 2 1. 9 1. 7 1. 6 1. 3 1. 2 1. 0	11. 9 13. 7 15. 2 17. 0 19. 1 20. 8 24. 8		B5 B5 B5 B5 B5 B5 B5	56430 56430 56430 56430 56430 56430	315S4 14 00 min ⁻¹	277. 8 232. 6 205. 3 178. 6 161. 1 132. 6 117. 1 101. 8	3555 4246 4810 5530 6129 7448 8436 9698	1. 3 1. 3 1. 2 1. 1 1. 0 0. 9 0. 9 0. 8	5. 0 6. 0 6. 8 7. 8 8. 7 10. 6 12. 0 13. 8	ITH162	B5 B5 B5 B5 B5 B5 B5 B5	48060 48060 48060 48060 48060 48060 48060
	50. 4 157. 1 130. 7 113. 0 102. 0 91. 7 82. 4 74. 5 66. 9 56. 3	12933 4285 5151 5958 6598 7339 8175 9041 10061 11965	1. 0 3. 9 3. 2 2. 8 2. 5 2. 4 1. 8 1. 7 1. 6 1. 3	27. 8 8. 9 10. 7 12. 4 13. 7 15. 3 17. 0 18. 8 20. 9 24. 9	1TH173 1TH182	B5 B5 B5 B5 B5 B5 B5 B5 B5	56430 108000 108000 108000 108000 108000 108000 108000 108000 108000		280. 6 232. 6 208. 3 180. 9 162. 6 132. 0 118. 1 102. 6 92. 2	3520 4246 4740 5459 6073 7484 8358 9628 10707	2. 4 2. 1 2. 0 1. 8 1. 7 1. 5 1. 3 1. 2	5. 0 6. 0 6. 7 7. 7 8. 6 10. 6 11. 9 13. 7 15. 2	1TH172	B5 B5 B5 B5 B5 B5 B5 B5 B5	56430 56430 56430 56430 56430 56430 56430 56430
90	51. 1 42. 4 38. 0 33. 0	12747 15368 17161 19772	1. 1 1. 1 1. 0 0. 9	27. 4 33. 0 36. 9 42. 5	1TH1 8 3	B5 B5 B5 B5	108000 108000 108000 108000		82. 4 73. 2 67. 3 157. 1 130. 7 113. 0	11977 13486 14671 6285 7554 8739	1. 1 0. 9 0. 8 2. 6 2. 2 1. 9	17. 0 19. 1 20. 8 8. 9 10. 7 12. 4	1TH1 8 2	B5 B5 B5 B5 B5 B5	56430 56430 56430 108000 108000 108000
280M4 1400min ⁻¹	277. 8 232. 6 205. 3 178. 6 161. 1	2909 3474 3936 4524 5015	1. 5 1. 5 1. 4 1. 3 1. 3	5. 0 6. 0 6. 8 7. 8 8. 7	ITH162	B5 B5 B5 B5 B5	48060 48060 48060 48060 48060		102. 0 91. 7 82. 4 74. 5 66. 9 56. 3	9677 10763 11991 13260 14756 17549	1. 7 1. 6 1. 2 1. 2 1. 1 0. 9	13. 7 15. 3 17. 0 18. 8 20. 9 24. 9		B5 B5 B5 B5 B5 B5	108000 108000 108000 108000 108000 108000
	132. 6 117. 1 101. 8 91. 9	6094 6902 7935 8789	1. 1 1. 1 1. 0 0. 9	10. 6 12. 0 13. 8 15. 2		B5 B5 B5 B5	48060 48060 48060 48060	132 315M4 1400min ⁻¹	280. 6		2. 0	5. 0 6. 0	T ITH172	B5 B5	56430
	82. 5 280. 6 232. 6 208. 3 180. 9 162. 6 132. 0 118. 1 102. 6 92. 2	9787 2880 3474 3878 4467 4969 6123 6839 7877 8760	0.8 2.9 2.5 2.4 2.2 2.1 1.9 1.6 1.5	17. 0 5. 0 6. 0 6. 7 7. 7 8. 6 10. 6 11. 9 13. 7 15. 2	ITH172	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5	48060 56430 56430 56430 56430 56430 56430 56430 56430	1400m1n	208. 3 180. 9 162. 6 132. 0 118. 1 102. 6 92. 2 82. 4 157. 1	5688 6551 7288 8980 10030 11553 12848 14372 7541	1.7 1.5 1.4 1.3 1.3 1.1 1.0 0.9 2.2	6. 7 7. 7 8. 6 10. 6 11. 9 13. 7 15. 2 17. 0 8. 9	ITH1 8 2	B5 B5 B5 B5 B5 B5 B5 B5 B5	56430 56430 56430 56430 56430 56430 56430 56430 56430 108000
	82. 4 73. 2 67. 3 56. 6 157. 1 130. 7 113. 0 102. 0 91. 7 82. 4	9799 11034 12004 14283 5142 6181 7150 7918 8806 9811	1. 3 1. 1 1. 0 0. 8 3. 2 2. 7 2. 3 2. 1 2. 0 1. 5	17. 0 19. 1 20. 8 24. 8 8. 9 10. 7 12. 4 13. 7 15. 3 17. 0	1TH182	B5 B5 B5 B5 B5 B5 B5 B5 B5	56430 56430 56430 56430 108000 108000 108000 108000 108000 108000		130. 7 113. 0 102. 0 91. 7 82. 4 74. 5 66. 9	9065 10487 11613 12916 14389 15912 17707	1.8 1.6 1.4 1.4 1.0 1.0 0.9	10. 7 12. 4 13. 7 15. 3 17. 0 18. 8 20. 9		B5 B5 B5 B5 B5 B5 B5 B5	108000 108000 108000 108000 108000 108000 108000
	74. 5 66. 9 56. 3	10849 12073 14358	1. 4 1. 3 1. 1	18. 8 20. 9 24. 9		B5 B5 B5	108000 108000 108000								





P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		(IEC)	R ₂ [N]
160							
315LA4 1400min ⁻¹		5119 6176 6894 7941 8833 10885 12157 14004 15574 9141 10988 12711 14076 15656 17441 19288	1. 7 1. 4 1. 4 1. 2 1. 2 1. 1 1. 0 0. 9 0. 8 1. 8 1. 5 1. 3 1. 2 1. 1 0. 8 0. 8	5. 0 6. 0 6. 7 7. 7 8. 6 10. 6 11. 9 13. 7 15. 2 8. 9 10. 7 12. 4 13. 7 15. 3 17. 0 18. 8	ITH172	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B	56430 56430 56430 56430 56430 56430 56430 56430 108000 108000 108000 108000 108000
315LB4 - 1400min ⁻¹	157. 1 130. 7 113. 0 102. 0 91. 7	11426 13735 15889 17595 19570	1. 5 1. 2 1. 0 0. 9 0. 9	8. 9 10. 7 12. 4 13. 7 15. 3	ITH182	B5 B5 B5 B5 B5	108000 108000 108000 108000 108000



ITH

Technical data

$ \begin{array}{c c} P_1 & n_2 & M_2 \\ [kw] & [min^{-1}] & [Nm] \end{array} \hspace{0.5cm} \text{sf} $	i R		R ₂ [N]
1. 1		3. 0	
90S4 1750min 1 12. 7 752 5. 3 137. 11. 3 848 4. 7 155. 10. 3 929 4. 3 170. 8. 9 1078 3. 7 197. 7. 9 1203 3. 3 220. 7. 5 1275 3. 1 233. 6. 6 1444 2. 8 264.	2	1750min ⁻¹ 18.5 1407 5.3 94.4 16.4 1585 4.7 106.4 15.1 1724 4.4 115.7 12.7 2051 3.7 137.7 11.3 2312 3.2 155.2	B5 48060 B5 48060 B5 48060 B5 48060 B5 48060 B5 48060 B5 48060 B5 48060 B5 48060 B5 48060
90L4 18. 5 703 5. 8 94. 1750min ⁻¹ 16. 5 792 5. 1 106 15. 1 862 4. 7 115 12. 7 1025 4. 0 137 11. 3 1156 3. 5 155 10. 3 1266 3. 2 170 8. 9 1470 2. 8 197 7. 9 1640 2. 5 220 7. 5 1739 2. 3 233 6. 6 1970 2. 1 264	. 3 B5 26280 . 7 B5 26280 . 6 B5 26280 . 2 B5 26280 . 0 B5 26280 . 4 B5 26280 . 2 B5 26280 . 4 B5 26280 . 4 B5 26280 . 4 B5 26280	7. 5 3479 2. 2 233. 5 6. 6 3942 1. 9 264. 6 12. 9 2028 5. 9 136. 1 1TH173 11. 4 2287 5. 2 153. 5 10. 4 2506 4. 8 168. 2 9. 0 2910 4. 1 195. 3 8. 0 3245 3. 7 217. 8 7. 6 3440 3. 5 230. 9 6. 7 3897 3. 1 261. 6	B5 48060 B5 48060 B5 48060 B5 56430 B5 56430 B5 56430 B5 56430 B5 56430 B5 56430 B5 56430
2. 2 100LA4 1750min ⁻¹ 26. 6 720 5. 6 65. 23. 1 829 4. 9 75. 20. 7 922 4. 4 84. 18. 5 1031 3. 9 94. 16. 5 1161 3. 5 106 15. 1 1264 3. 2 115 12. 7 1503 2. 7 137 11. 3 1696 2. 4 155 10. 3 1857 2. 2 170 8. 9 2157 1. 9 197 7. 9 2406 1. 7 220 7. 5 2550 1. 6 233 6. 6 2889 1. 4 264 15. 1 1264 5. 9 115 12. 7 1504 5. 0 137 11. 3 1696 4. 4 155 10. 3 1858 4. 0 170 8. 9 2158 3. 5 197 7. 9 2407 3. 1 220 7. 5 2551 2. 9 233 6. 6 2891 2. 6 264	9	40. 8 852 4. 7 42. 9 36. 7 948 4. 2 47. 7 32. 8 1060 3. 8 53. 4 29. 1 1194 3. 4 60. 1 26. 6 1308 3. 1 65. 9 23. 1 1507 2. 7 75. 9 20. 7 1677 2. 4 84. 4 84. 4 18. 5 1875 2. 1 94. 4 4. 60. 1 15. 7 12. 7 2733 1. 5 137. 6 11. 3 3083 1. 3 155. 2 10. 3 3377 1. 2 170. 0 8. 9 3921 1. 0 197. 4 170. 0 197. 4 18. 5 1876 4. 5 84. 4 18. 5 1876 4. 0 94. 4 18. 5 1876 4. 0 94. 4 18. 5 1876 4. 0 94. 4 18. 5 1876 4. 0 94. 4 18. 5 1876 4. 0 94. 4 15. 1 2398 3. 3 115. 7 115. 7 12. 170. 0 115. 1 12. 170. 0 115. 1	B5 26280 B5 48060 B5 48060
3. 0 100LB4 1750min ⁻¹ 32. 8 795 5. 0 53. 4 29. 1 896 4. 5 60. 26. 6 981 4. 1 65. 6 23. 1 1130 3. 5 75. 6 20. 7 1257 3. 2 84. 1 18. 5 1406 2. 8 94. 16. 5 1584 2. 5 106 15. 1 1724 2. 3 115 12. 7 2050 2. 0 137 11. 3 2312 1. 7 155 10. 3 2533 1. 6 170 8. 9 2941 1. 4 197 7. 9 3281 1. 2 220 7. 5 3477 1. 2 233 6. 6 3939 1. 0 264	4 B5 2628 1 B5 2628 9 B5 2628 9 B5 2628 4 B5 2628 4 B5 2628 3 B5 2628 6 B5 2628 2 B5 2628 4 B5 2628 4 B5 2628 2 B5 2628 4 B5 2628 2 B5 2628 2 B5 2628 4 B5 2628 4 B5 2628 4 B5 2628	11. 3 3083 2. 4 155. 2 10. 3 3379 2. 2 170. 1 8. 9 3923 1. 9 197. 5 7. 9 4376 1. 7 220. 3 7. 5 4638 1. 6 233. 5 6. 6 5256 1. 4 264. 6 16. 7 2076 5. 8 104. 5 15. 3 2272 5. 3 114. 4 12. 9 2703 4. 4 136. 1 11. 4 3049 3. 9 153. 5 10. 4 3341 3. 6 168. 2 9. 0 3879 3. 1 195. 3 8. 0 4326 2. 8 217. 8 7. 6 4587 2. 6 230. 9 6. 7 5196 2. 3 261. 6	B5 48060 B5 48060 B5 48060 B5 48060 B5 48060 B5 48060 B5 56430 B5 56430







P ₁ [kw]	n ₂	M ₂	sf	i	-93	IEC	R ₂	P ₁ [kw]	n ₂	M ₂	sf			(IEC)	R ₂
4. 0	-							7. 5					•		
112M 4 175 0 min ⁻¹	11. 3 10. 3	3065 3359	5. 2	154. 3 169. 1	ITH183	B5 B5	108000 108000	132MA 4 175 0 min ⁻¹	91. 0 83. 6 70. 3	740 805	5. 4 5. 0	19. 2 20. 9	ITH152	B5 B5	26280 26280
	9. 4 8. 5 7. 5	3703 4084 4610	4. 3 3. 9 3. 5	186. 4 205. 6 232. 1		B5 B5 B5	108000 108000 108000		62. 7	958	3.8	24. 9 27. 9	ITH153	B5 B5	26280 26280
	6. 7	5224	3. 1	263. 0		В5	108000		52. 5 47. 0 40. 8	1242 1387 1598	3. 2 2. 9 2. 5	33. 4 37. 2 42. 9		B5 B5 B5	26280 26280 26280
5. 5	l an o	Laco				0.5	t 02000		36. 7 32. 8	1778 1988	2. 3	47. 7 53. 4		B5 B5	26280 26280
132S 4 175 0 min ⁻¹	70. 3 62. 7	703 763	5. 7 5. 2	24. 9 27. 9	ITH152 ITH153	B5 B5	26280 26280		29. 1 26. 6	2239 2453	1. 8 1. 6	60. 1 65. 9		B5 B5	26280 26280
	52. 5 47. 0	911 1017	4. 4 3. 9	33. 4 37. 2		B5 B5	26280 26280		23. 1 20. 7	2 8 26 3143	1. 4 1. 3	75. 9 84. 4		B5 B5	26280 26280
	40. 8 36. 7	1172 13 0 4	3. 4	42. 9 47. 7		B5 B5	26280 26280		18. 5 16. 5	3516 3959	1. 1	94. 4 1 06 . 3		B5 B5	26280 26280
	32. 8 29. 1	1458 1642	2. 7 2. 4	53. 4 60. 1		B5 B5	26280 26280		53. 5	1218	6. 2	32. 7	ITH163	В5	48060
	26. 6 23. 1	1799 2 0 73	2. 2	65. 9 75. 9		B5 B5	26280 26280		47. 9 41. 6	1361 1567	5. 5	36. 5 42. 1	1111100	B5 B5	48060 48060
	20. 7 18. 5	23 0 5 2578	1.7	84. 4 94. 4		B5 B5	26280 26280		37.4	1743	4.3	46.8		B5 B5	48060
	16. 5 15. 1	2903 3160	1. 4 1. 3	106. 3 115. 7		B5 B5	26280 26280		33. 4	1950 2196	3. 8	52. 4 59. 0		B5	48060 48060
	12.7	3758	1.1	137. 6		B5	26280		26. 6 23. 1	2454 2828	3. 1 2. 7	65. 9 75. 9		B5 B5	48060 48060
	37. 4 33. 4	1279 1430	5. 9 5. 2	46. 8 52. 4	ITH163	B5 B5	48060 48060		20. 7 18. 5	3145 3517	2. 4	84. 4 94. 4		B5 B5	48060 48060
	29. 7 26. 6	1610 1800	4.7	59. 0 65. 9		B5 B5	48060 48060		16. 4 15. 1	3963 4309	1. 9	106. 4 115. 7		B5 B5	48060 48060
	23. 1 2 0 . 7	2074 2306	3. 6	75. 9 84. 4		B5 B5	48060 48060		12. 7 11. 3	5129 5780	1.5	137. 7 155. 2		B5 B5	48060 48060
	18. 5 16. 4	2579 2906	2. 9 2. 6	94. 4 106. 4		B5 B5	48060 48060		10.3 8.9	6335 7356	1. 2	17 0 . 1 1 9 7. 5		В5 В5	48060 48060
	15. 1 12. 7	3160 3761	2. 4 2. 0	115. 7 137. 7		B5 B5	48060 48060		32.8	1985	6. 0	53. 3	ITH173	В5	56430
	11. 3 10. 3	4239 4646	1.8	155. 2 17 0 . 1		B5 B5	48060 48060		30. 1 26. 6	2163 2449	5. 5 4. 9	58. 1 65. 8		B5 B5	56430 56430
	8. 9 7. 9	5394 6017	1. 4 1. 2	197. 5 220. 3		B5 B5	48060 48060		23. 1 2 0 . 9	2817 312 0	4. 3 3. 8	75. 6 83. 8		В5 В5	56430 56430
	7. 5 6. 6	6378 7227	1. 2 1. 0	233. 5 264. 6		B5 B5	48060 48060		18. 8 16. 7	3474 3 89 2	3. 5 3. 1	93. 3 1 0 4. 5		B5 B5	56430 56430
	23. 1	2066	5. 8	75. 6	ITH173	В5	5 6 43 0		15. 3 12. 9	4261 5 0 69	2. 8 2. 4	114. 4 136. 1		B5 B5	56430 56430
	20. 9	2288 2547	5. 2 4. 7	83. 8 93. 3		В5 В5	56430 56430		11.4	5717 6265	2. 1	153. 5 1 68 . 2		В5 В5	56430 56430
	16. 7 15. 3	2 8 54 3125	4. 2 3. 8	104. 5 114. 4		B5 B5	56430 56430		9. 0 8. 0	7274 8112	1. 6 1. 5	195. 3 217. 8		B5 B5	56430 56430
	12. 9 11. 4	3717 4193	3. 2 2. 9	136. 1 153. 5		B5 B5	56430 56430		7. 6 6. 7	8600 9743	1. 4 1. 2	230. 9 261. 6		B5 B5	56430 56430
	10. 4 9. 0	4594 5334	2. 6	168. 2 195. 3		B5 B5	56430 56430		23. 2	2811	5. 7	75. 5	ITH1 8 3	В5	108000
	8. 0 7. 6	5949 6307	2. 0	217. 8 230. 9		B5 B5	56430 56430		20. 8 18. 6	3126 3497	5. 1 4. 6	83. 9 93. 9		B5 B5	108000 108000
	6. 7	7145	1.7	261.6	THE CO	B5	56430		16. 6 15. 2	3937 4283	4. 1 3. 7	105. 7 115. 0		B5 B5	108000 108000
	16. 6 15. 2	1	5. 5	105. 7 115. 0	ITH183	B5 B5	108000		12. 8 11. 3	5 0 99 5747	3. 1 2. 8	136. 9 154. 3		В5 В5	108000 108000
	12.8	3739 4214	4. 3	136. 9 154. 3		B5 B5	108000		10.3 9.4	6298 6942	2. 5 2. 3	169. 1 186. 4		B5 B5	108000 108000
	10. 3 9. 4	5091	3. 5	169. 1 186. 4		B5 B5	108000		8. 5 7. 5	7658 8645	2. 1	2 0 5. 6 232. 1		B5 B5	108000 108000
	8. 5 7. 5	5616 6339	2. 8	205. 6 232. 1		B5 B5	108000 108000		6. 7	9795	1.6	263. 0		В5	108000
	6. 7	7183	2. 2	263. 0		B5	108000								





P ₁ [kw]	n ₂ [min ⁻¹]	M ₂] [Nm]	sf	i		(IEC)	R ₂ [N]	P ₁ [kw]	n ₂ [min ⁻¹]	M ₂	sf	i		(IEC)	R ₂ [N]
11								15							
160M4	146. 8 127. 5		5. 9 5. 2	11. 9 13. 7	ITH152	B5 B5	26280 26280	160L4	226. 7		6.7	7. 7 8. 6	ITH152	B5	26280 26280
175 0 min ⁻¹	114.6	862	4.6	15. 7		В5	26280	$1750 \rm min^{-1}$	203. 7 164. 0	661 821	6. 1 4. 9	8. b 10. 7		B5 B5	26280
	102.5	964	4. 2	17. 1		B5	26280		146. 8	917	4. 4	11. 9		B5	26280
	91. 0	1085	3. 7	19. 2		B5	26280		127. 5	1056	3.8	13. 7		B5	26280
	83. 6	1181	3. 4	20. 9		B5	26280		114. 6	1175	3. 4	15. 3		B5	26280
	70. 3	1405	2.8	24. 9		В5	26280		1 0 2. 5	1314	3. 0	17. 1		B5	26280
	60.7	1500	0.0	07.0	177111 - 0				91.0	1480	2. 7	19. 2		B5	26280
	62. 7 52. 5	1526 1822	2. 6 2. 2	27. 9 33. 4	ITH153	B5	26280		83.6	1610	2. 5	20.9		B5	26280
	47. 0	2034	2. 0	37. 2		B5 B5	26280 26280		70.3	1916	2. 1	24. 9		B5	26280
	40. 8	2344	1.7	42. 9		в5 В5	26280		62. 7	2081	1. 9	27. 9	ITH153	B5	26280
	36. 7	2607	1. 5	47. 7		B5	26280		52.5	2484	1. 6	33. 4	1111100	B5	26280
	32. 8	2916	1.4	53. 4		B5	26280		47. 0	2774	1.4	37. 2		B5	26280
	29. 1	3284	1.2	60. 1		В5	26280		40.8	3196	1.3	42. 9		В5	26280
	26. 6	3598	1.1	65. 9		В5	26280		36. 7	3555	1. 1	47.7		B5	26280
			l <u>.</u>						32.8	3976	1.0	53.4		В5	26280
	70. 7	1397	5.4	24. 8	ITH162	B5	48060		103. 2	1305	5. 7	17. 0	ITH162	B5	48060
	66. 0 53. 5	1448 1787	5. 2 4. 2	2 6 . 5 32. 7	ITH163	B5	48060		92. 1	1462	5. 1	19. 0	1111102	B5	48060
	47. 9	1995	3.8	36. 5		B5 B5	48060 48060		84. 1	1600	4. 7	20.8		B5	48060
	41.6	2299	3.3	42. 1		вэ В5	48060		70.7	1904	3. 9	24.8		В5	48060
	37. 4	2557	2. 9	46. 8		B5	48060		66. 0	1974	3. 8	2 6 . 5	ITH163	В5	48060
	33. 4	2860	2. 6	52. 4		B5	48060		53. 5	2437	3. 1	32. 7	1111103	B5	48060
	29. 7	3220	2. 3	59. 0		B5	48060		47. 9	2721	2. 8	36. 5		B5	48060
	26. 6	3599	2. 1	65. 9		В5	48060		41.6	3135	2. 4	42. 1		B5	48060
	23. 1	4147	1.8	75. 9		В5	48060		37. 4	3487	2. 2	46.8		В5	48060
	2 0 . 7	4613	1.6	84. 4		В5	48060		33. 4	3900	1. 9	52.4		B5	48060
	18. 5	5159	1.5	94. 4		В5	48060		29. 7	4391	1.7	59. 0		B5	48060
	16. 4	5812	1.3	106. 4		В5	48060		26.6	4908	1. 5	65. 9		В5	48060
	15. 1	6320	1.2	115.7		B5	48060		23. 1	5655	1. 3	75. 9		B5	48060
	12. 7	7522	1.0	137. 7		B5	48060		20.7	6290	1.2	84. 4		B5	48060
	46. 6	2053	5. 8	37. 6	ITH173	B5	56430		18. 5	7035	1. 1	94. 4		B5	48060
	40. 5	2360	5. 1	43. 2	11111110	B5	56430		70. 7	1904	6. 3	24.8	ITH172	B5	56430
	36. 6	2615	4.6	47. 9		В5	56430		63. 0	2069	5. 8	27.8	ITH173	B5	56430
	32. 8	2912	4. 1	53. 3		В5	56430		52. 7	2472	4. 9	33. 2		B5	56430
	30. 1	3173	3. 8	58. 1		В5	56430		46.6	2799	4.3	37. 6		B5	56430
	26. 6	3592	3. 3	65. 8		В5	56430		40.5	3219 3566	3. 7 3. 4	43. 2 47. 9		B5	56430 56430
	23. 1	4131	2. 9	75. 6		B5	56430		36. 6 32. 8	3970	3. 0	53.3		B5 B5	56430
	20. 9	4576	2. 6	83. 8		B5	56430		30. 1	4326	2.8	58. 1		B5	56430
	18.8	5095	2.4	93. 3		B5	56430		26. 6	4898	2. 4	65. 8		B5	56430
	16. 7 15. 3	5708 6249	2. 1 1. 9	1 0 4. 5 114. 4		B5 B5	56430 56430		23. 1	5634	2. 1	75. 6		B5	56430
	12. 9	7435	1. 6	136. 1		В5	56430		20. 9	6240	1. 9	83.8		В5	56430
	11. 4	8385	1. 4	153. 5		B5	56430		18.8	6948	1.7	93. 3		В5	56430
	10. 4	9188	1. 3	168. 2		B5	56430		16. 7	7784	1.5	104. 5		В5	56430
	9. 0	10668	1. 1	195. 3		В5	56430		15. 3	8522	1.4	114. 4		B5	56430
	8. 0	11898	1.0	217.8		В5	56430		12. 9	10138		136. 1		B5	56430
									11.4	11434	1.0	153. 5		B5	56430
	33. 1	2886	5.5	52. 8	ITH183	B5	108000		47.5	2746	5. 8	36. 9	ITH183	B5	108000
	29. 4	3250	4.9	59. 5		B5	108000		41.2	3164	5. 1	42.5		В5	108000
	26. 7 23. 2	3578 4123	4. 5 3. 9	65. 5 75. 5		B5	108000		37. 0	3519	4.5	47. 2		B5	108000
	20. 8	4585	3.5	83. 9		B5 B5	108000 108000		33. 1	3935	4. 1	52.8		B5	108000
	18. 6	5128	3. 1	93. 9		В5	108000		29. 4	4431	3. 6	59. 5		B5	108000
	16. 6	5774	2. 8	1 0 5. 7		В5	108000		26. 7 23. 2	4879 5622	3. 3 2. 8	65. 5 75. 5		B5 B5	108000
	15. 2	6282	2. 5	115. 0		B5	108000		20.8	6253	2. 8	83. 9		B5	108000
	12. 8	7478	2. 1	136. 9		B5	108000		18.6	6993	2. 3	93. 9		B5	108000
	11.3	8429	1. 9	154.3		B5	108000		16.6	7874	2. 0	105. 7		B5	108000
	1 0 . 3	9237	1.7	169. 1		В5	108000		15. 2	8566	1. 9	115. 0		B5	108000
	9. 4	10182	1.6	186. 4		В5	108000		12.8	10198		136. 9		B5	108000
	8. 5	11231	1.4	2 0 5. 6		В5	108000		11. 3	11494		154. 3		B5	108000
	7. 5	12679		232. 1		В5	108000		10.3	12596		169. 1		В5	108000
	6. 7	14367	1.1	263.0		В5	108000		9. 4	13885	1. 2	186. 4		В5	108000
									8.5	15315	1 1 0	205. 6	1	B5	108000





169124 366.1 461	P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i	雪	IEC	R ₂ [N]	P ₁ [kw]	n ₂ [min ⁻¹	M ₂	sf	i	-91	IEC	R ₂ [N]
	18 5								22							
201. 2 036 0.3 0.7 0.8 65 0.280 261. 2 756 5.3 6.7 0.8 65 0.280	160L24	360. 1				ITH152		I	180L4					ITH152		
190.7 191.6 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.0	110011111							I								
146, 8 1131 3,5 11,9 85 36280 127, 8 1549 2,6 13,7 85 26280 114,6 1449 2,8 15,3 85 26280 114,6 1449 1446 1472 2,3 15,3 85 26280 114,6 1472 2,3 15,3 85 26280 102,5 1621 2,5 1621 2,5 17,1 85 26280 102,5 1628 2,5 1621 2,5 1621 2,5 17,1 85 26280 102,5 1928 2,1 17,1 85 26280 102,5 1928 2,1 17,1 85 26280 102,5 1928 2,1 17,1 85 26280 102,5 1928 2,1 17,1 14,1 14,1 1								I								
127. 5 1903 3.1 13.7 85 26280 127. 5 1549 2.6 31.7 85 26280 102.5 1621 2.5 17.1 85 26280 102.5 1622 17.1 85 26280 102.5 1622 17.1 85 26280 102.5 1622 17.1 85 26280 102.5 1622 17.1 1.5 1.5 26280 102.5 1622 1.7 1.7 1.5 1.5 26280 102.5 1622 1.7 1.7 1.7 1.5 1.5 26280 1.7								ı								
114. 6 1449 4.8 15.3 86 26.280 11.4 6 1723 2.3 5.3 5.5 858 26.280 19.0 1825 17.1 85 26.280 19.0 1825 17.1 85 26.280 19.0 1825 17.1 85 26.280 19.0 1825 17.1 85 26.280 19.0 17.1 18.8 19.2 85 26.280 19.0 17.1 18.8 19.2 85 26.280 19.0 17.1 18.8 19.2 18.5 26.280 19.0 19								I								
91.0 102.5 162.1 2.5 17.1								I								
83.6 98.6 2.0 20.9 4.9 55 26280 81.6 2620 7.7 20.9 55 26280 62.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6 63.7 20.6			l 1	2.5	17. 1		B5	26280								26280
70.3 26.6 1.6 27.9 111153 85 26.280 62.7 30.5 1.4 24.9 65 26.280 52.5 36.4 1.3 37.9 111153 85 26.280 47.0 34.2 1.2 37.2 85 26.280 47.0 34.2 1.2 37.2 85 26.280 47.0 40.9 1.0 37.2 85 26.280 47.0 40.9 1.0 37.2 85 26.280 47.0 40.9 1.0 37.2 85 26.280 47.0 40.9 1.0 37.2 85 26.280 47.0 40.9 1.0 37.2 85 26.280 47.0 40.9 1.0 37.2 85 26.280 47.0 40.9 1.0 37.2 47.0 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9 4			l 1					ı								
52. 5 3064 1.3 33. 4 85 26.280 52. 5 3644 1.1 33. 4 85 26.280 40. 8 3942 1.0 42.9 85 26.280 47.0 4069 1.0 37.2 85 26.280 114.9 1446 5.7 13.8 1114.9 1465 5.2 15.2 85 48060 12.73 13502 8.6 12.0 85 48060 92. 1 1803 4.7 19.0 85 48060 11.49 11.9 4.4 15.2 85 48060 92. 1 1803 4.2 19.0 85 48060 92.1 21.4 4.5 19.0 85 48060 8.4 1 19.7 3.8 2.2 2.8 85 48060 92.1 21.4 4.5 19.0 85 48060 8.5 3.5 3.0 2.5 3.5 4.7 4.8 8.6 18.0 8.6			l 1					I								
47. 0 3421 1. 2 37. 2	1		l 1			ITH153		ı		62. 7	3 0 51	1.3	27. 9	ITH153	B5	26280
								I								
127.3 1305 5.7 13.8 THI62 85 48060 14.6 31 1350 5.6 12.0 85 48060 11.4 1719 4.4 15.2 85 48060 11.4 1719 4.4 15.2 85 48060 11.4 1719 4.4 15.2 85 48060 4.7 17.0 85 48060 4.7 17.0 8.5 48060 4.7 17.0 8.5 48060 4.7 17.0 8.5 48060 4.7 17.0 8.5 48060 4.7 17.0 8.5 48060 4.7 17.0 8.5 48060 4.7 17.0 8.5 48060 4.7 17.0 4.4 1.5 2.0 8.5 48060 4.7 17.0 4.4 1.5 2.0 8.5 48060 6.6 2.2 2.0 8.5 48060 6.6 2.2 2.0 8.5 48060 6.6 2.2 2.0 8.5 48060 6.6 2.2 2.0 8.5 48060 4.7 3.2 2.7 2.4 8.5 48060 4.7 3.5 2.7 2.4 8.5 48060 4.7 3.5 2.7 2.4 8.5 48060 4.7 3.5 2.7 2.4 8.5 48060 4.7 3.5 2.7 2.4 8.5 48060 4.7 3.5 2.7 2.4 8.5 48060 4.7 3.5 2.7 2.4 8.5 48060 4.7 3.5								I		47.0	4069	1.0	37. 2		B5	26280
114.9		197 3	1305	5 7	13.8	ITH162	B5	48060						ITH162		
101. 102 109						1111102		l								
84.1 1974 3.8 20.8 85 48060 92.1 2144 3.5 19.0 85 48060 66.0 2435 3.1 26.5 ITH163 85 48060 70.7 2793 2.7 24.8 85 48060 66.0 2435 3.1 26.5 ITH163 85 48060 66.0 2895 2.6 26.5 ITH163 85 48060 63.5 30.5 3005 2.5 32.7 85 48060 63.6 2895 2.6 26.5 ITH163 85 48060 41.6 3686 1.9 42.1 85 48060 47.9 3991 1.9 36.5 56.5 85 48060 47.9 3991 1.9 36.5 85 48060 33.4 4809 1.6 52.4 85 48060 47.9 3991 1.9 36.5 66.8 85 48060 48.0								I								
To To To To To To To To								I								
66, 0			I I					I								
53. 5 3005 2.5 32. 7 B5 48060 66. 0 2895 2.6 26. 5 TH163 B5 48060 47. 9 3356 2.2 36. 5 B5 48060 47. 9 3991 1. 9 36. 5 B5 48060 37. 4 4300 1. 7 46. 8 B5 48060 47. 9 3991 1. 9 36. 5 B5 48060 33. 4 4809 1. 6 52. 4 B5 48060 37. 4 5114 1. 5 46. 8 B5 48060 29. 7 5416 1. 4 59. 0 B5 48060 37. 4 5114 1. 3 52. 4 B5 48060 29. 7 5416 1. 4 59. 0 B5 48060 37. 4 5114 1. 3 52. 4 B5 48060 23. 1 6975 1. 1 75. 9 B5 48060 29. 7 6140 1. 2 59. 0 B5 48060 23. 1 6975 1. 1 75. 9 B5 48060 29. 7 6140 1. 2 59. 0 B5 48060 23. 1 6975 1. 1 75. 9 B5 56430 81. 1 2347 51. 1 20. 8 B5 48060 38. 4 1 1974 6. 1 20. 8 17H172 B5 56430 81. 1 2347 51. 1 20. 8 B5 56430 46. 6 3453 3. 5 37. 6 B5 56430 63. 0 3035 4. 0 27. 8 B5 56430 46. 6 3453 3. 5 37. 6 B5 56430 63. 0 3035 4. 0 27. 8 B5 56430 40. 5 3970 3. 0 3. 2 85 56430 63. 0 3035 4. 0 27. 8 B5 56430 40. 5 3970 3. 0 43. 2 B5 56430 40. 6 4106 2. 9 37. 6 B5 56430 32. 8 4897 2. 5 53. 3 B5 56430 40. 6 6 4106 2. 9 37. 6 B5 56430 32. 8 4897 2. 5 53. 3 B5 56430 30. 1 6 6 5200 2. 3 47. 9 B5 56430 32. 8 4897 2. 5 53. 3 B5 56430 30. 1 6 6 5200 2. 3 8 32. 8 4897 2. 5 53. 3 B5 56430 30. 1 6 6 5200 2. 5 8 8 32. 8 4897 2. 5 53. 3 B5 56430 30. 1 6 6 5200 2. 5 8 8 32. 8 4897 2. 5 53. 3 B5 56430 30. 1 6 6 5200 2. 5 8 8 5 56430 32. 8 4897 2. 5 53. 3 B5 56430 30. 1 6 6 5200 2. 5 8 8 5 56430 32. 8 4897 2. 5 53. 3 B5 56430 30. 1 6 6 5200 2. 5 8 8 5 56430 32. 8 4897 2. 5 53. 3 B5 56430 30. 1 6 6 5200 2. 5 8		66. 0	2435		26. 5	ITH163	B5	48060								
41.6			l 1	2.5				I		66. 0	2895	2.6	26. 5	ITH163	B5	48060
37.4			l 1					I		53. 5		2.1	32. 7		B5	
33.4																
29, 7 5416 1, 4 59, 0 85 48060 29, 7 6440 1, 2 59, 0 85 48060 29, 7 6440 1, 2 59, 0 85 48060 29, 7 6440 1, 2 59, 0 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 48060 28, 6 7199 1, 0 65, 9 85 56430 46, 6 40, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2								l								
23. 1 6975 1. 1 75. 9								l								
84. 1 1974 6. 1 20. 8 1TH172 B5 56430 91. 5 21. 8 1. 1 20. 8 B5 56430 63. 0 25. 2 4. 7 27. 8 1TH173 B5 56430 70. 7 2793 4. 3 24. 8 B5 56430 63. 0 25. 7 3049 3. 9 33. 2 B5 56430 63. 0 305. 6 3. 3 32. 1 11173 B5 56430 40. 5 3970 3. 0 43. 2 B5 56430 46. 6 3453 3. 5 37. 6 B5 56430 46. 6 4106 2. 9 37. 6 B5 56430 36. 6 4398 2. 7 47. 9 B5 56430 46. 6 4106 2. 9 37. 6 B5 56430 30. 1 5336 2. 2 58. 1 B5 56430 40. 5 30. 1 5336 2. 2 58. 1 B5 56430 40. 5 30. 1 5336 2. 2 58. 1 B5 56430 30. 1 5336 2. 2 58. 1 B5 56430 30. 1 5336 2. 2 58. 1 B5 56430 30. 1 5336 2. 2 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 5336 2. 2 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 5336 2. 2 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 6345 1. 9 58. 1 B5 56430 30. 1 57. 5 6 B5 56430 30. 1 6. 7 11417 1. 1 104. 5 B5 56430 30. 1 57. 5 6 B5 56430 30. 1 67. 11417 1. 1 104. 5 B5 56430 30. 1 67. 11417 1. 1 104. 5 B5 56430 30. 1 67. 11417 1. 1 104. 5 B5 56430 30. 1 67. 11417 1. 1 104. 5 B5 56430 30. 1 67. 11417 1. 1 104. 5 B5 56430 30. 1 67. 11417 1. 1 104. 5 B5 56430 30. 1 67. 11417 1. 1 104. 5 B5 56430 30. 1 67. 11417 1. 1 104. 5 B5 56430 30. 1 67. 11417 1. 1 104. 5 B5 56430 30. 1 67. 11417 1. 1 104. 5 B5 108000 37. 0 4340 37. 7 47. 2 B5 108000 47. 5 4040 47. 5 4040 47. 5 58. 5 58. 1 108000 37. 0								I								
70. 7 2349 5. 1 24. 8 B5 56430 84. 1 2347 5. 1 20. 8 B5 56430 63. 0 2552 4. 7 27. 8 TTH173 B5 56430 70. 7 2793 4. 3 24. 8 B5 56430 52. 7 3049 3. 9 33. 2 B5 56430 63. 0 3035 4. 0 27. 8 BTH173 B5 56430 40. 5 3970 3. 0 43. 2 B5 56430 46. 6 4106 2. 9 37. 6 B5 56430 30. 6 4398 2. 7 47. 9 B5 56430 40. 5 4721 2.5 43. 2 B5 56430 30. 1 5336 2. 2 58. 1 B5 56430 32. 8 5823 2. 1 53. 3 B5 56430 20. 9 7696 1. 6 83. 8 B5 56430 30. 1 6345 1. 5 56. 6 85 56430						ITH170										
63.0 2552 4.7 27.8 ITH173 B5 56430 70.7 2793 4.3 24.8 B5 56430 52.7 3049 3.9 33.2 B5 56430 63.0 3035 4.0 27.8 ITH173 B5 56430 46.6 3453 35.5 37.6 B5 56430 52.7 3626 3.3 33.2 B5 56430 46.6 3453 32.8 4897 2.5 53.3 B5 56430 46.6 40.5 3970 30.0 43.2 B5 56430 46.6 40.5 3970 37.6 B5 56430 32.8 4897 2.5 53.3 B5 56430 46.6 5230 2.3 47.9 B5 56430 32.8 4897 2.5 53.3 B5 56430 32.8 8823 2.1 53.3 B5 56430 32.8 8823 32.1 53.3 B5 56430 32.8 8569 1.4 93.3 B5 56430 23.1 8263 1.5 75.6 B5 56430 32.8 8569 1.4 93.3 B5 56430 32.8 8263 1.5 75.6 B5 56430 32.8 8569 1.4 93.3 B5 56430 32.9 9152 1.3 83.8 B5 56430 32.9 9152 1.3 83.9						1111172		I						ITH172		
52.7 3049 3.9 33.2 B5 56430 63.0 3035 4.0 27.8 ITHI73 B5 56430 46.6 3453 3.5 37.6 B5 56430 46.6 4106 2.9 37.6 B5 56430 36.6 4398 2.7 47.9 B5 56430 40.5 4721 2.5 43.2 B5 56430 32.8 4897 2.5 53.3 B5 56430 36.6 5230 2.3 47.9 B5 56430 30.1 5336 2.2 58.1 B5 56430 30.1 6345 1.9 58.1 B5 56430 23.1 6948 1.7 75.6 B5 56430 20.8 76.8 1.9 58.1 B5 56430 20.9 7696 1.6 83.8 B5 56430 23.1 8263 1.5 75.6 B5 56430 18.5 36630 1		63.0	2552	4 7	27.8	ITU172	R5	56430								
46.6 3453 3.5 37.6 B5 56430 52.7 3626 3.3 33.2 B5 56430 40.5 3970 3.0 43.2 B5 56430 46.6 4106 2.9 37.6 B5 56430 32.8 4897 2.5 53.3 B5 56430 36.6 5230 2.3 47.9 B5 56430 30.1 5336 2.2 58.1 B5 56430 32.8 5823 2.1 53.3 B5 56430 26.6 6041 2.0 65.8 B5 56430 30.1 6345 1.9 58.1 B5 56430 23.1 6948 1.7 75.6 B5 56430 26.6 7184 1.7 65.8 B5 56430 20.9 7696 1.6 83.8 B5 56430 23.1 8263 1.5 75.6 B5 56430 18.8 8569 1.4 93.3 B5 56430 20.9 9152 1.3 83.8 B5 56430 16.7 9601 1.2 104.5 B5 56430 18.8 10190 1.2 93.3 B5 56430 15.3 10510 1.1 114.4 B5 56430 16.7 11417 1.1 104.5 B5 56430 47.5 3386 4.7 36.9 B5 108000 63.9 2991 5.3 27.4 1TH183 B5 108000 41.2 3902 4.1 42.5 B5 108000 47.5 4027 4.0 36.9 B5 108000 33.1 4854 3.3 52.8 B5 108000 37.0 5161 3.1 47.2 B5 108000 23.2 6934 2.3 75.5 B5 108000 20.8 77.5 28 52.8 B5 108000 24.1 42.2 B5 108000 37.0 5161 3.1 47.2 B5 108000 25.2 6934 2.3 75.5 B5 108000 20.8 97.1 75.5 B5 108000 26.7 6018 2.7 65.5 B5 108000 20.8 97.1 75.5 B5 108000 26.7 6018 2.7 65.5 B5 108000 20.8 97.1 75.5 B5 108000 26.7 6018 2.7 65.5 B5 108000 20.8 97.1 75.5 B5 108000 26.8 7712 2.1 83.9 B5 108000 20.8 97.1 75.5 B5 108000 26.6 6711 1.6 105.7 B5 108000 20.8 97.1 1.7 83.9 B5 108000 26.6 6711 1.6 105.7 B5 108000 16.6 11548 1.4 105.7 B5 108000 26.2 10565 1.5 115.0 B5 108000 15.2 12564 1.3 115.0 B5 108000 27.2 12.8 12577 1.3 136.9 B5 108000 15.2 12564 1.3 115.0 B5 108000 27.4 14076 1.1 154.3 B5 108000 15.2 1256			l 1			1111173		I		63. 0	3 0 35	4.0	27. 8	ITH173	B5	56430
36. 6 4398 2. 7 47. 9			l 1					l						1111110		
32. 8 4897 2. 5 53. 3 B5 56430 36. 6 5230 2. 3 47. 9 B5 56430 30. 1 5336 2. 2 58. 1 B5 56430 32. 8 5823 2. 1 53. 3 B5 56430 23. 1 6948 1. 7 75. 6 B5 56430 26. 6 7184 1. 7 75. 6 B5 56430 20. 9 7696 1. 6 83. 8 B5 56430 23. 1 8263 1. 5 75. 6 B5 108000 23. 2 8291 5. 3 27. 4 171182 85 108000 23. 2 8291 5. 3 27. 4 171182 85 108000 23. 2 8291 5. 3 27. 4 171182 85 108000 23. 2 8291 5. 3 27. 4 171183 85 108000 23. 2 8291 5. 3 27. 4 171183 85 108000 23. 2 8245 1. 9 75. 5 85 108000 23. 2 8245 1. 9 75. 5 85 108000 23. 2 8245			l 1					I								
30.1 5336 2.2 58.1																
23. 1 6948 1. 7 75. 6 B5 56430 26. 6 7184 1. 7 65. 8 B5 56430 20. 9 7696 1. 6 83. 8 B5 56430 23. 1 8263 1. 5 75. 6 B5 56430 18. 8 8569 1. 4 93. 3 B5 56430 20. 9 9152 1. 3 83. 8 B5 56430 16. 7 9601 1. 2 104. 5 B5 56430 18. 8 10190 1. 2 93. 3 B5 56430 15. 3 10510 1. 1 114. 4 B5 56430 16. 7 11417 1. 1 104. 5 B5 56430 63. 9 2515 6. 4 27. 4 ITH183 B5 108000 70. 3 2808 5. 7 24. 9 ITH182 B5 108000 47. 5 3386 4. 7 36. 9 B5 108000 53. 0 3606 4. 4 33. 0 B5 108000		3 0. 1	5336	2.2	58. 1		B5	56430								
20. 9 7696 1. 6 83. 8 B5 56430 23. 1 8263 1. 5 75. 6 B5 56430 18. 8 8569 1. 4 93. 3 B5 56430 20. 9 9152 1. 3 83. 8 B5 56430 15. 3 10510 1. 1 114. 4 B5 56430 18. 8 10190 1. 2 93. 3 B5 56430 63. 9 2515 6. 4 27. 4 ITH183 B5 108000 70. 3 2808 5. 7 24. 9 ITH182 B5 108000 53. 0 3033 5. 3 33. 0 B5 108000 63. 9 2991 5. 3 27. 4 ITH183 B5 108000 47. 5 3386 4. 7 36. 9 B5 108000 53. 0 3606 4. 4 33. 0 B5 108000 41. 2 3902 4. 1 42. 5 B5 108000 47. 5 4027 4. 0 36. 9 B5			l 1					I		3 0 . 1						
18.8 8569 1. 4 93. 3 B5 56430 20. 9 9152 1. 3 83. 8 B5 56430 16. 7 9601 1. 2 104. 5 B5 56430 18. 8 10190 1. 2 93. 3 B5 56430 15. 3 10510 1. 1 114. 4 B5 56430 16. 7 11417 1. 1 104. 5 B5 56430 63. 9 2515 6. 4 27. 4 ITH183 B5 108000 70. 3 2808 5. 7 24. 9 ITH182 B5 108000 53. 0 3033 5. 3 33. 0 B5 108000 63. 9 2991 5. 3 27. 4 ITH183 B5 108000 47. 5 3386 4. 7 36. 9 B5 108000 53. 0 3606 4. 4 33. 0 B5 108000 41. 2 3902 4. 1 42. 5 B5 108000 47. 5 4027 4. 0 36. 9 B5 108000 37. 0 4340 3. 7 47. 2 B5 108000 <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td>I</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								I								
16. 7 9601 1. 2 104. 5 B5 56430 18. 8 10190 1. 2 93. 3 B5 56430 15. 3 10510 1. 1 114. 4 B5 56430 16. 7 11417 1. 1 104. 5 B5 56430 63. 9 2515 6. 4 27. 4 ITH183 B5 108000 70. 3 2808 5. 7 24. 9 ITH182 B5 108000 47. 5 3386 4. 7 36. 9 B5 108000 53. 0 3606 4. 4 33. 0 B5 108000 41. 2 3902 4. 1 42. 5 B5 108000 47. 5 4027 4. 0 36. 9 B5 108000 37. 0 4340 3. 7 47. 2 B5 108000 37. 0 5161 3. 1 47. 2 B5 108000 29. 4 5465 2. 9 59. 5 B5 108000 33. 1 5772 2. 8 52. 8 B5 108000<		18.8	l 1				В5	56430								
63. 9 2515 6. 4 27. 4 ITH183 B5 108000 70. 3 2808 5. 7 24. 9 ITH182 B5 108000 63. 9 2991 5. 3 27. 4 ITH183 B5 108000 647. 5 3386 4. 7 36. 9 B5 108000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 30000 47. 5 3000			l 1					I								
53. 0 3033 5. 3 33. 0 B5 108000 63. 9 2991 5. 3 27. 4 ITH183 B5 108000 47. 5 3386 4. 7 36. 9 B5 108000 53. 0 3606 4. 4 33. 0 B5 108000 41. 2 3902 4. 1 42. 5 B5 108000 47. 5 4027 4. 0 36. 9 B5 108000 37. 0 4340 3. 7 47. 2 B5 108000 41. 2 4640 3. 4 42. 5 B5 108000 33. 1 4854 3. 3 52. 8 B5 108000 37. 0 5161 3. 1 47. 2 B5 108000 29. 4 5465 2. 9 59. 5 B5 108000 33. 1 5772 2. 8 52. 8 B5 108000 23. 2 6934 2. 3 75. 5 B5 108000 26. 7 7156 2. 2 65. 5 B5 108000						1711100										
47. 5 3386 4. 7 36. 9 B5 108000 53. 0 3606 4. 4 33. 0 B5 108000 41. 2 3902 4. 1 42. 5 B5 108000 47. 5 4027 4. 0 36. 9 B5 108000 37. 0 4340 3. 7 47. 2 B5 108000 41. 2 4640 3. 4 42. 5 B5 108000 33. 1 4854 3. 3 52. 8 B5 108000 37. 0 5161 3. 1 47. 2 B5 108000 29. 4 5465 2. 9 59. 5 B5 108000 33. 1 5772 2. 8 52. 8 B5 108000 26. 7 6018 2. 7 65. 5 B5 108000 29. 4 6499 2. 5 59. 5 B5 108000 23. 2 6934 2. 3 75. 5 B5 108000 26. 7 7156 2. 2 65. 5 B5 108000 18. 6 8625 1. 9 93. 9 B5 108000 20. 8 9171 1. 7						1 1H183		I								
37. 0 4340 3. 7 47. 2 B5 108000 41. 2 4640 3. 4 42. 5 B5 108000 33. 1 4854 3. 3 52. 8 B5 108000 37. 0 5161 3. 1 47. 2 B5 108000 29. 4 5465 2. 9 59. 5 B5 108000 33. 1 5772 2. 8 52. 8 B5 108000 26. 7 6018 2. 7 65. 5 B5 108000 29. 4 6499 2. 5 59. 5 B5 108000 23. 2 6934 2. 3 75. 5 B5 108000 26. 7 7156 2. 2 65. 5 B5 108000 20. 8 7712 2. 1 83. 9 B5 108000 23. 2 8245 1. 9 75. 5 B5 108000 18. 6 8625 1. 9 93. 9 B5 108000 20. 8 9171 1. 7 83. 9 B5 108000 15. 2 10565 1. 5 115. 0 B5 108000 18. 6 10257 1. 6 <td></td> <td>47.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ı</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1111100</td> <td></td> <td></td>		47.5						ı						1111100		
33. 1 4854 3. 3 52. 8 B5 108000 37. 0 5161 3. 1 47. 2 B5 108000 29. 4 5465 2. 9 59. 5 B5 108000 33. 1 5772 2. 8 52. 8 B5 108000 26. 7 6018 2. 7 65. 5 B5 108000 29. 4 6499 2. 5 59. 5 B5 108000 23. 2 6934 2. 3 75. 5 B5 108000 26. 7 7156 2. 2 65. 5 B5 108000 20. 8 7712 2. 1 83. 9 B5 108000 23. 2 8245 1. 9 75. 5 B5 108000 18. 6 8625 1. 9 93. 9 B5 108000 20. 8 9171 1. 7 83. 9 B5 108000 16. 6 9711 1. 6 105. 7 B5 108000 18. 6 10257 1. 6 93. 9 B5 108000 15. 2 10565 1. 5 115. 0 B5 108000 16. 6 11548 1. 4 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ı</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								ı								
29. 4 5465 2. 9 59. 5 B5 108000 33. 1 5772 2. 8 52. 8 B5 108000 26. 7 6018 2. 7 65. 5 B5 108000 29. 4 6499 2. 5 59. 5 B5 108000 23. 2 6934 2. 3 75. 5 B5 108000 26. 7 7156 2. 2 65. 5 B5 108000 20. 8 7712 2. 1 83. 9 B5 108000 23. 2 8245 1. 9 75. 5 B5 108000 18. 6 8625 1. 9 93. 9 B5 108000 20. 8 9171 1. 7 83. 9 B5 108000 16. 6 9711 1. 6 105. 7 B5 108000 18. 6 10257 1. 6 93. 9 B5 108000 15. 2 10565 1. 5 115. 0 B5 108000 16. 6 11548 1. 4 105. 7 B5 108000 12. 8 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>I</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								I								
26. 7 6018 2. 7 65. 5 B5 108000 29. 4 6499 2. 5 59. 5 B5 108000 23. 2 6934 2. 3 75. 5 B5 108000 26. 7 7156 2. 2 65. 5 B5 108000 20. 8 7712 2. 1 83. 9 B5 108000 23. 2 8245 1. 9 75. 5 B5 108000 18. 6 8625 1. 9 93. 9 B5 108000 20. 8 9171 1. 7 83. 9 B5 108000 16. 6 9711 1. 6 105. 7 B5 108000 18. 6 10257 1. 6 93. 9 B5 108000 15. 2 10565 1. 5 115. 0 B5 108000 16. 6 11548 1. 4 105. 7 B5 108000 12. 8 12577 1. 3 136. 9 B5 108000 15. 2 12564 1. 3 115. 0 B5 108000 11.								I								
20. 8 7712 2. 1 83. 9 B5 108000 23. 2 8245 1. 9 75. 5 B5 108000 18. 6 8625 1. 9 93. 9 B5 108000 20. 8 9171 1. 7 83. 9 B5 108000 16. 6 9711 1. 6 105. 7 B5 108000 18. 6 10257 1. 6 93. 9 B5 108000 15. 2 10565 1. 5 115. 0 B5 108000 16. 6 11548 1. 4 105. 7 B5 108000 12. 8 12577 1. 3 136. 9 B5 108000 15. 2 12564 1. 3 115. 0 B5 108000 11. 3 14176 1. 1 154. 3 B5 108000 12. 8 14957 1. 1 136. 9 B5 108000			l 1		65. 5		В5	108000		29. 4	6499	2.5	59. 5		B5	108000
18. 6 8625 1. 9 93. 9 B5 108000 20. 8 9171 1. 7 83. 9 B5 108000 16. 6 9711 1. 6 105. 7 B5 108000 18. 6 10257 1. 6 93. 9 B5 108000 15. 2 10565 1. 5 115. 0 B5 108000 16. 6 11548 1. 4 105. 7 B5 108000 12. 8 12577 1. 3 136. 9 B5 108000 15. 2 12564 1. 3 115. 0 B5 108000 11. 3 14176 1. 1 154. 3 B5 108000 12. 8 14957 1. 1 136. 9 B5 108000			l 1													
16. 6 9711 1. 6 105. 7 B5 108000 18. 6 10257 1. 6 93. 9 B5 108000 15. 2 10565 1. 5 115. 0 B5 108000 16. 6 11548 1. 4 105. 7 B5 108000 12. 8 12577 1. 3 136. 9 B5 108000 15. 2 12564 1. 3 115. 0 B5 108000 11. 3 14176 1. 1 154. 3 B5 108000 12. 8 14957 1. 1 136. 9 B5 108000			l 1					ı								
12. 8 12577 1. 3 136. 9 B5 108000 15. 2 12564 1. 3 115. 0 B5 108000 11. 3 14176 1. 1 154. 3 15. 2 12564 1. 3 115. 0 B5 108000 12. 8 14957 1. 1 136. 9 B5 108000		16. 6	9711	1.6	105.7		В5	108000					93. 9			108000
11. 3 14176 1. 1 154. 3 B5 108000 12. 8 14957 1. 1 136. 9 B5 108000			l 1					ı								
								I								
								I								



								[min ⁻¹				•		1]
		us se	2				37					· ·		
360. 1		3. 8	4. 9	ITH152	В5	26280			922	3. 1	4. 9	ITH152	B5	262
	923	3. 2	6. 0		В5	26280 1		91.7	1139	2.6	6. 0		B5	262
261. 2	1031	3. 1	6. 7		В5	26280		61.2	1272	2. 5	6. 7		B5	262
226. 7	1188	2. 8	7.7		В5	26280		26. 7	1465	2. 3	7. 7		B5	262
	1322	2. 6	8. 6		В5	26280		03.7	1630	2. 1	8.6		B5	262
164. 0	1642	2. 4	10.7		B5	26280		64. 0	2025	2. 0	10.7		B5	262
146. 8	1834	2. 3	11. 9		B5	26280		46.8	2262	1.9	11.9		B5	262
	2113	2. 0	13.7		B5	26280		27.5	2606	1.6	13.7		B5	262
	2350 2628	1.8	15. 3		B5	26280		14. 6 02. 5	2 898 3242	1.5 1.3	15. 3 17. 1		B5 B5	262 262
91. 0	2959	1.6	17. 1 19. 2		B5 B5	26280 26280		1.0	3650	1. 2	19. 2		B5	262
	3221	1. 3	20. 9		В5 В5	26280		3. 6	3973	1. 1	20. 9		B5	262
70.3	3832	1. 1	24. 9		B5	26280						177111.00		
				TTHICO				47. 2	957	4.7	5. 0	ITH162	B5	480
347. 2	776	5. 8	5. 0	ITH162	B5	48060		90.7	1143	4. 6	6. 0		B5	480
290. 7	926	5. 7	6. 0		B5	48060		56. 6	1294	4. 4	6.8		B5	480
256. 6 223. 2	1050	5. 4	6.8		B5	48060		23. 2	1488	3. 9	7.8		B5	480
	1207	4.8	7.8		B5	48060 48060		01.4	1649 2004	3.9	8.7		B5 B5	48
201. 4 165. 7	1337 1625	4. 3	8. 7 10. 6		B5 B5	48060		65. 7 46. 3	2270	3. 5 3. 3	10. 6 12. 0		вэ В5	48
146. 3	1841	4. 0	12. 0		В5	48060		27. 3	2610	3. 0	13.8		B5	48
	2116	3. 7	13. 8		B5	48060		14. 9	2891	2.7	15. 2		B5	48
114.9	2344	3. 3	15. 2		B5	48060		03. 2	3219	2. 4	17. 0		B5	48
	2610	3. 0	17. 0		B5	48060		2. 1	3606	2. 2	19. 0		B5	48
92. 1	2924	2. 7	19. 0		B5	48060		4. 1	3948	2. 0	20.8		B5	48
84. 1	3201	2. 4	20.8		В5	48060		0.7	4698	1. 7	24. 8		В5	48
70.7	3809	2. 1	24.8		В5	48060		c 0	4960	1 5	2 6 . 5	ITH163	B5	48
66.0	3948	1.8	26. 5	ITH163	B5	48060		6. 0 3. 5	4869 6010	1.5 1.3	32. 7	1111103	В5 В5	48
53. 5	4873	1. 6	32. 7	1111100	B5	48060		7. 9	6712	1. 1	36. 5		B5	48
47. 9	5442	1. 4	36. 5		B5	48060								1
41.6	6269	1. 2	42. 1		B5	48060		64. 9	2014	5. 7	10.6	ITH172	B5	56
37. 4	6974	1. 1	46. 8		B5	48060		47.7	2249	5. 6	11.9		B5	56
I				ITH179				28. 2	2591	4. 8	13. 7		B5	56
	2101 2336	5. 9	13. 7 15. 2	ITH172	B5	56430 56430		15. 3	2881	4.4	15. 2		B5	56
	2613	5. 4 4. 8	17. 0		B5 B5	56430		0 3. 1 1. 5	3223 3 6 29	3. 9 3. 2	17. 0 19. 1		B5 B5	56 56
	2942	4. 0	19. 1		B5	56430		4. 1	3948	3. 0	20.8		B5	56
84. 1	3201	3. 7	20. 8		B5	56430		0. 7	4698	2. 5	24. 8		B5	56
70. 7	3809	3. 1	24. 8		B5	56430								
				ITH170				3. 0	5104	2.4	27.8	ITH173	B5	56
63. 0 52. 7	4139 4945	3. 0 2. 5	27. 8	ITH173	B5 B5	56430		2.7	6098	2. 0	33. 2		B5	56
	5599	2. 2	33. 2 37. 6		вэ В5	56430 56430		6.6	6905	1.8	37. 6		B5	56
40. 5	6437	1. 9	43. 2		B5	56430		0. 5 6. 6	7939 8796	1.5	43.2		B5 B5	56 56
36.6	7132	1. 7	47. 9		B5	56430		2.8	9793	1. 4 1. 3	47. 9 53. 3		B5	56
	7941	1. 5	53. 3		B5	56430		0. 1	10672	1. 2	58. 1		B5	56
30. 1	8653	1. 4	58. 1		В5	56430		6.6	12083	1. 0	65. 8		B5	56
	9797	1.3	65. 8		В5	56430						177114.00		
23. 1	11267	1.1	75.6		В5	56430		14.7	2896	6. 1	15.3	ITH182	B5	10
102.9	2616	5. 6	17. 0	ITH182	В5	108000		02. 9	3227	4.5	17.0		B5	10
93. 1	2893	5. 4	18. 8	1111102	В5 В5	108000		3. 1	3568	4. 4	18.8		B5	10
83. 7	3219	4. 9	20. 9		B5	108000		3. 7 0 . 3	3971 4722	3. 9 3. 4	20. 9 24. 9		B5 B5	10
	3829	4. 2	24. 9		B5	108000	'	0.5	4122		24. 3		БЭ	
				TTHEO			6	3. 9	5 0 31	2. 9	27.4	ITH183	В5	10
63. 9	4079	3. 6	27. 4	ITH183	B5	108000		3. 0	6065	2.8	33. 0		B5	10
53. 0	4918	3.5	33. 0		B5	108000		7. 5	6773	2. 5	36. 9		B5	10
47. 5 41. 2	5491 6327	3. 1 2. 7	36. 9 42. 5		B5 B5	108000		1.2	7804	2. 2	42.5		B5	10
37. 0	7038	2. 4	47. 2		вэ В5	108000		7.0	8680	2. 0	47. 2		B5	10
	7871	2. 4	52. 8		В5	108000		3. 1	9707	1.8	52. 8		B5	10
29. 4	8863	1. 9	52. 6 59. 5		В5 В5	108000		9.4	10931	1.6	59. 5		B5	10
26. 7	9758	1. 7	65. 5		B5	108000		6.7	12035	1.4	65. 5		B5 B5	10
23. 2	11244	1. 5	75. 5		B5	108000		3. 2 0. 8	13867	1.2	75. 5 8 3. 9		B5	10
20. 8	12505	1. 4	83. 9		B5	108000	20	U. 0	15423	1. 1	00.9		DO	10
				I		1						l .	i	
18.6	13986	1.2	93. 9		B5	108000								





P ₁ n ₂ [min ⁻¹	M ₂	sf	i		(IEC)	R ₂ [N]	P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i	一国	(IEC)	R ₂ [N]
45							55							
225M4 360.1 1750min ⁻¹ 291.7 261.2 226.7	1122 1385 1547 1782	2. 5 2. 1 2. 1 1. 9	4. 9 6. 0 6. 7 7. 7	ITH152	B5 B5 B5 B5	26280 26280 26280 26280	25 0M4 175 0 min ⁻¹	347. 2 290. 7 256. 6 223. 2	1422 1698 1924 2212	3. 2 3. 1 2. 9 2. 6	5. 0 6. 0 6. 8 7. 8	ІТН162	B5 B5 B5 B5	48060 48060 48060 48060
203. 7 164. 0 146. 8 127. 5 114. 6	1983 2463 2752 3169 3525	1. 7 1. 6 1. 5 1. 3 1. 1	8. 6 10. 7 11. 9 13. 7 15. 3		B5 B5 B5 B5 B5	26280 26280 26280 26280 26280		201. 4 165. 7 146. 3 127. 3 114. 9	2452 2979 3374 3879 4297	2. 6 2. 3 2. 3 2. 0 1. 8	8. 7 10. 6 12. 0 13. 8 15. 2		B5 B5 B5 B5 B5	48060 48060 48060 48060 48060
102. 5 347. 2 290. 7 256. 6	3943 1163 1390 1574	1. 1 3. 9 3. 8 3. 6	17. 1 5. 0 6. 0 6. 8	ITH162	B5 B5 B5 B5	26280 48060 48060 48060		103. 2 92. 1 84. 1 70. 7	4785 5361 5868 6983	1. 6 1. 5 1. 3 1. 1	17. 0 19. 0 20. 8 24. 8		B5 B5 B5 B5	48060 48060 48060 48060
223. 2 201. 4 165. 7 -1146. 3	1810 2006 2438 2761	3. 2 3. 2 2. 8 2. 8	7. 8 8. 7 10. 6 12. 0		B5 B5 B5 B5	48060 48060 48060 48060		66. 0 350. 7 290. 7 260. 4	7238 1408 1698	1. 0 6. 0 5. 2 5. 0	26. 5 5. 0 6. 0	ITH1 6 3 ITH172	B5 B5 B5	48060 56430 56430 56430
127. 3 114. 9 103. 2 92. 1 84. 1	3174 3516 3915 4386 4801	2. 5 2. 2 2. 0 1. 8 1. 6	13. 8 15. 2 17. 0 19. 0 20. 8		B5 B5 B5 B5 B5	48060 48060 48060 48060 48060		226. 1 203. 3 164. 9 147. 7	1896 2184 2429 2993 3343	4. 5 4. 2 3. 9 3. 8	6. 7 7. 7 8. 6 10. 6 11. 9		B5 B5 B5 B5 B5	56430 56430 56430 56430
70. 7 66. 0 53. 5 260. 4	5713 5922 7310 1551	1. 4 1. 2 1. 0 6. 1	24. 8 26. 5 32. 7 6. 7	ITH1 6 3	B5 B5 B5 B5	48060 48060 48060 56430		128. 2 115. 3 103. 1 91. 5 84. 1	3851 4283 4791 5394 5868	3. 2 3. 0 2. 6 2. 2 2. 0	13. 7 15. 2 17. 0 19. 1 20. 8		B5 B5 B5 B5 B5	56430 56430 56430 56430 56430
226. 1 203. 3 164. 9 147. 7	1787 1988 2449 2735	5. 5 5. 2 4. 7 4. 6	7. 7 8. 6 10. 6 11. 9		B5 B5 B5 B5	56430 56430 56430 56430		70. 7 63. 0 52. 7 46. 6	6983 7588 9065 10264	1. 7 1. 6 1. 4 1. 2	24. 8 27. 8 33. 2 37. 6	ITH173	B5 B5 B5 B5	56430 56430 56430 56430
128. 2 115. 3 103. 1 91. 5 84. 1	3151 3504 3920 4414 4801	3. 9 3. 6 3. 2 2. 6 2. 4	13. 7 15. 2 17. 0 19. 1 20. 8		B5 B5 B5 B5 B5	56430 56430 56430 56430 56430		163. 4 141. 2 127. 6 114. 7	3022 3496 3871 4305	1. 0 5. 5 4. 7 4. 3 4. 1	43. 2 10. 7 12. 4 13. 7 15. 3	ITH182	B5 B5 B5 B5 B5	108000 108000 108000 108000 108000
70. 7 63. 0 52. 7 46. 6 40. 5	5713 6208 7417 8398 9656	2. 0 2. 0 1. 7 1. 5 1. 3	24. 8 27. 8 33. 2 37. 6 43. 2	ITH173	B5 B5 B5 B5 B5	56430 56430 56430 56430 56430		102. 9 93. 1 83. 7 70. 3	4796 5304 5902 7020	3. 0 2. 9 2. 7 2. 3	17. 0 18. 8 20. 9 24. 9		B5 B5 B5 B5	108000 108000 108000 108000
36. 6 32. 8 141. 2 127. 6	10698 11911 2860 3167	1. 2 1. 0 5. 8 5. 2	43. 2 47. 9 53. 3 12. 4 13. 7	ITH182	B5 B5 B5 B5	56430 56430 108000 108000		63. 9 53. 0 47. 5 41. 2	7478 9016 10068 11600	2. 0 1. 9 1. 7 1. 5	27. 4 33. 0 36. 9 42. 5	ITH183	B 5 B5 B5 B5	108000 108000 108000 108000
114. 7 102. 9 93. 1 83. 7	3523 3924 4340 4829	5. 0 3. 7 3. 6 3. 2	15. 3 17. 0 18. 8 20. 9		B5 B5 B5 B5 B5	108000 108000 108000 108000	7.5	37. 0 33. 1 29. 4	12903 14429 16249	1.3 1.2 1.0	47. 2 52. 8 59. 5		B5 B5 B5	108000 108000 108000
70. 3 63. 9 53. 0 47. 5	5743 6119 7377 8237	2. 8 2. 4 2. 3 2. 1	24. 9 27. 4 33. 0 36. 9	ITH183	B5 B5 B5 B5	108000 108000 108000 108000	75 280S4 1750min ⁻¹	347. 2 290. 7 256. 6 223. 2	1939 2316 2624 3016	2. 3 2. 3 2. 2 1. 9	5. 0 6. 0 6. 8 7. 8	ITH162	B5 B5 B5 B5	48060 48060 48060 48060
41. 2 37. 0 33. 1 29. 4 26. 7	9491 10557 11806 13294 14637	1. 8 1. 6 1. 4 1. 3 1. 2	42. 5 47. 2 52. 8 59. 5 65. 5		B5 B5 B5 B5 B5	108000 108000 108000 108000 108000		201. 4 165. 7 146. 3 127. 3	3343 4063 4601 5290	1. 9 1. 7 1. 7 1. 5	8. 7 10. 6 12. 0 13. 8		B5 B5 B5 B5	48060 48060 48060 48060 48060
23. 2	16865	1.0	75. 5		B5	108000		114. 9 103. 2 92. 1	5859 6525 7310	1. 3 1. 2 1. 1	15. 2 17. 0 19. 0		B5 B5 B5	48060 48060 48060



Helical in-line gearmotors

P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		(IEC)	R ₂ [N]	P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		(IEC)	R ₂ [N]
75								90							
280S4 ^{**} 1750min ⁻¹	350. 7 290. 7 260. 4 226. 1	1920 2316 2585 2978	4. 4 3. 8 3. 7 3. 3	5. 0 6. 0 6. 7 7. 7	ITH172	B5 B5 B5 B5	56430 56430 56430	280M4 1750min ⁻¹	63. 9 53. 0 47. 5	12237 14753 16474	1. 2 1. 2 1. 0	27. 4 33. 0 36. 9		B5 B5 B5	108000 108000 108000
	226. 1 203. 3 164. 9 147. 7 128. 2 115. 3 103. 1 91. 5 84. 1 70. 7 63. 0 196. 4 163. 4 141. 2 127. 6 114. 7 102. 9 93. 1 83. 7 70. 3 63. 9 53. 0 47. 5 41. 2	2978 3313 4082 4559 5252 5840 6533 7356 8002 9522 10347 3428 4120 4767 5278 5871 6540 7233 8049 9572 10198 12295 13729 15818	3.3 3.1 2.8 2.8 2.3 2.2 1.9 1.6 1.5 1.2 4.8 4.0 3.5 3.1 3.0 2.2 2.2 1.9 1.7 1.4 1.4 1.2	7. 7 8. 6 10. 6 11. 9 13. 7 15. 2 17. 0 19. 1 20. 8 24. 8 27. 8 8. 9 10. 7 12. 4 13. 7 15. 3 17. 0 18. 8 20. 9 24. 9 27. 4 33. 0 36. 9 42. 5	ITH173 ITH182	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B	56430 56430 56430 56430 56430 56430 56430 56430 56430 56430 108000	110 315S4 1750min ⁻¹	347. 2 290. 7 256. 6 223. 2 201. 4 165. 7 146. 3 350. 7 290. 7 260. 4 226. 1 203. 3 164. 9 147. 7 128. 2 115. 3 103. 1 91. 5 84. 1 196. 4 163. 4	2844 3397 3848 4424 4903 5959 6749 7759 2816 3397 3792 4367 4858 5987 6687 7702 8566 9581 10789 11737 5028 6043	1. 6 1. 6 1. 5 1. 3 1. 3 1. 2 1. 1 1. 0 3. 0 2. 6 2. 5 2. 2 2. 1 1. 9 1. 6 1. 5 1. 3 1. 1 1. 0	5. 0 6. 0 6. 8 7. 8 8. 7 10. 6 12. 0 13. 8 5. 0 6. 0 6. 7 7. 7 8. 6 10. 6 11. 9 13. 7 15. 2 17. 0 19. 1 20. 8 8. 9 10. 7	T ITH162 " ITH172 ITH172	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B	48060 48060 48060 48060 48060 48060 48060 48060 56430 56430 56430 56430 56430 56430 56430 56430 56430 56430
90 280M4 ^{*1} 1750min ⁻¹	347. 2 290. 7 256. 6 223. 2 201. 4 165. 7 146. 3	2327 2779 3149 3620 4012 4875 5522	1. 9 1. 9 1. 8 1. 6 1. 6 1. 4	5. 0 6. 0 6. 8 7. 8 8. 7 10. 6 12. 0	1TH162	B5 B5 B5 B5 B5 B5 B5	48060 48060 48060 48060 48060 48060 48060	100	103. 4 141. 2 127. 6 114. 7 102. 9 93. 1 83. 7 70. 3	6991 7742 8611 9593 10608 11804 14039	2. 4 2. 1 2. 0 1. 5 1. 5 1. 3 1. 1	12. 4 13. 7 15. 3 17. 0 18. 8 20. 9 24. 9		B5 B5 B5 B5 B5 B5 B5 B5	108000 108000 108000 108000 108000 108000 108000
	127. 3 114. 9 103. 2 350. 7 290. 7 260. 4 226. 1 203. 3 164. 9 147. 7 128. 2	6348 7031 7830 2304 2779 3102 3573 3975 4898 5471 6302	1. 4 1. 2 1. 1 1. 0 3. 7 3. 2 3. 0 2. 7 2. 6 2. 4 2. 3 2. 0	12. 0 13. 8 15. 2 17. 0 5. 0 6. 0 6. 7 7. 7 8. 6 10. 6 11. 9 13. 7	ITH172	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5	48060 48060 48060 56430 56430 56430 56430 56430 56430 56430	132 315M4 1750min ⁻¹	350. 7 290. 7 260. 4 226. 1 203. 3 164. 9 147. 7 128. 2 115. 3 103. 1	3379 4076 4550 5241 5830 7184 8024 9243 10279 11498	7 2. 5 2. 2 2. 1 1. 9 1. 8 1. 6 1. 3 1. 2 1. 1	7 5. 0 6. 0 6. 7 7. 7 8. 6 10. 6 11. 9 13. 7 15. 2 17. 0		B5 B5 B5 B5 B5 B5 B5 B5 B5 B5	56430 56430 56430 56430 56430 56430 56430 56430 56430 56430
	115. 3 103. 1 91. 5 84. 1 70. 7 196. 4 163. 4 141. 2 127. 6 114. 7 102. 9 93. 1 83. 7 70. 3	7008 7839 8827 9603 11426 4114 4945 5720 6334 7045 7848 8679 9658 11486	1. 8 1. 6 1. 3 1. 2 1. 0 4. 0 3. 4 2. 9 2. 6 2. 5 1. 9 1. 8 1. 6	15. 2 17. 0 19. 1 20. 8 24. 8 8. 9 10. 7 12. 4 13. 7 15. 3 17. 0 18. 8 20. 9 24. 9	ITH182	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B	56430 56430 56430 56430 56430 108000 108000 108000 108000 108000 108000 108000 108000		196. 4 163. 4 141. 2 127. 6 114. 7 102. 9 93. 1 83. 7	6033 7252 8390 9290 10333 11511 12730 14165	2.8 2.3 2.0 1.8 1.7 1.3 1.2	8. 9 10. 7 12. 4 13. 7 15. 3 17. 0 18. 8 20. 9		B5 B5 B5 B5 B5 B5 B5 B5	108000 108000 108000 108000 108000 108000 108000 108000





P ₁ [kw]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i	-	(IEC)	R ₂ [N]
160							
315LA4 1750min ⁻¹	350. 7 290. 7 260. 4 226. 1 203. 3 164. 9 147. 7 128. 2 115. 3 196. 4 163. 4 141. 2 127. 6 114. 7 102. 9 93. 1	4096 4941 5515 6353 7067 8708 9726 11203 12459 7313 8790 10169 11261 12525 13953 15430	2. 1 1. 8 1. 7 1. 5 1. 3 1. 3 1. 1 1. 0 2. 3 1. 9 1. 6 1. 5 1. 4 1. 1	5. 0 6. 0 6. 7 7. 7 8. 6 10. 6 11. 9 13. 7 15. 2 8. 9 10. 7 12. 4 13. 7 15. 3 17. 0 18. 8	ITH172	B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5 B	56430 56430 56430 56430 56430 56430 56430 108000 108000 108000 108000 108000
315LB4 - 1750min ⁻¹	196. 4 163. 4 141. 2 127. 6 114. 7	9141 10988 12711 14076 15656	1.8 1.5 1.3 1.2	8.9 10.7 12.4 13.7 15.3	ITH182	B5 B5 B5 B5 B5	108000 108000 108000 108000 108000

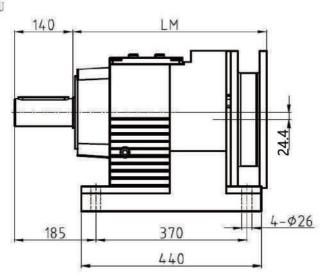


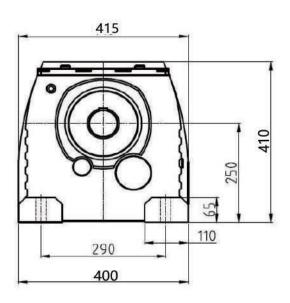


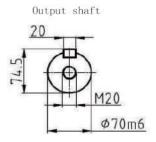
Dimensions

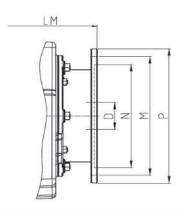
ITH 152 - ITH 153

ITH152U ITH153U









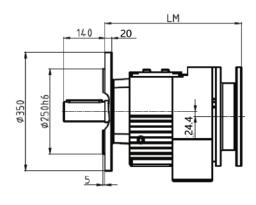
			IEC Din	ensions				
	100 B5/112 B5	100 B14/112B 14	132 B5	132 B14	160 B5	180 B5	200 B5	225 B5
LM	417	417	4	38	474		492	513
N	180	110	230	130	250		300	350
M	215	130	265	165	300		350	400
P	250	160	300	200	3	50	400	450
D		28	2	88	42	48	55	60

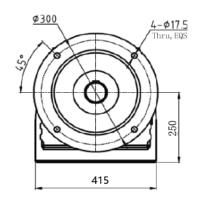


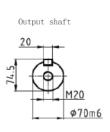


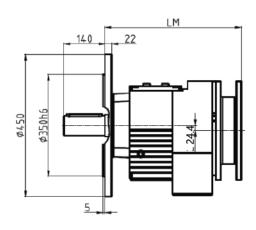
ITH 152 - ITH 153

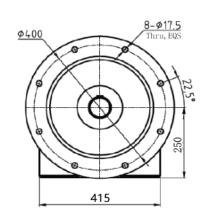
ITH152F... ITH153F...

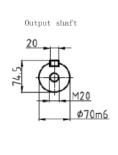




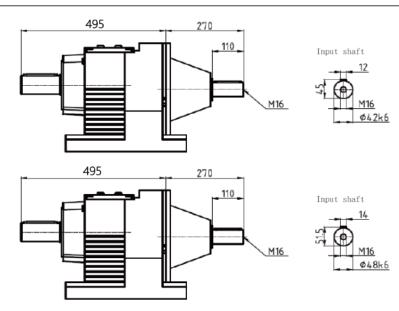








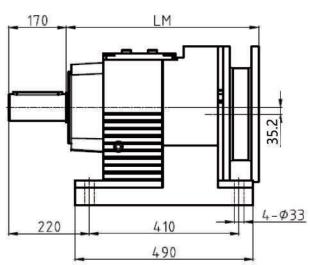
ITHIS152... ITHIS153...

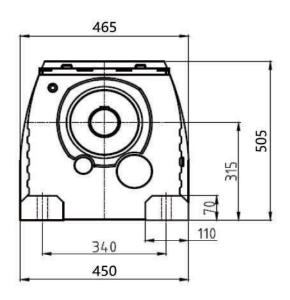


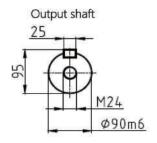


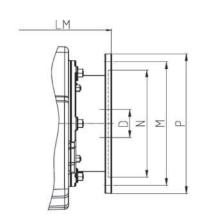
ITH 162 - ITH 163











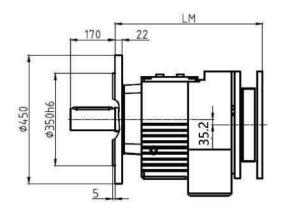
	IEC尺寸参数 / IEC Dimensions												
	132 B5	132 B14	160 B5	180 B5	200 B5	225 B5	250 B5						
LM	50	03	53	31	549	570	574						
N	493	130	250		300	350	450						
M	265	165	30	00	350	400	500						
P	300	200	33	50	400	450	550						
D	3	8	42	48	55	60	65						

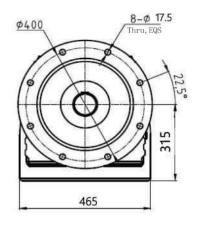


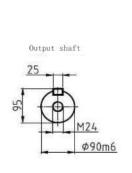


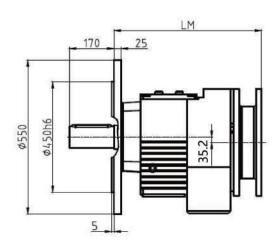
ITH 162 - ITH 163

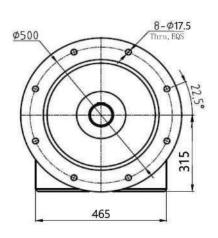
ITH162F... ITH163F...

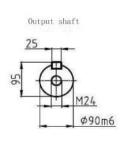




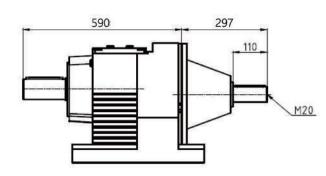


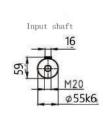






ITHIS162... ITHIS163...



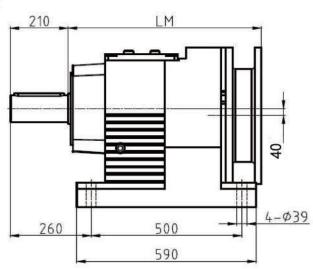


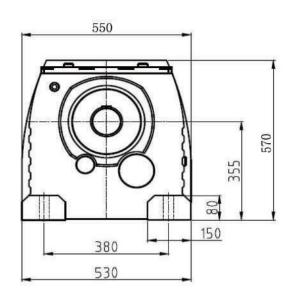


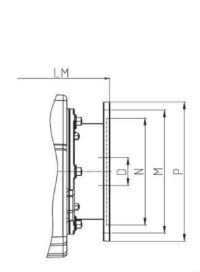


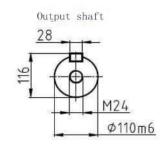
ITH 172 - ITH 173











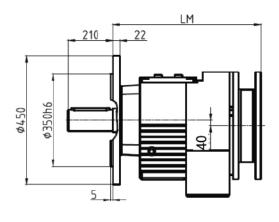
	IEC Dimensions											
	160 B5	180 B5	200 B5	225 B5	250 B5	280 B5						
LM	59	97	615	620	624 62							
N	28	50	300	350	450							
M	30	00	350	400	500							
P	350		400	450	550							
D	42	48	55	60	65	75						

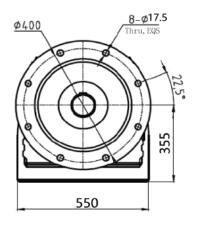


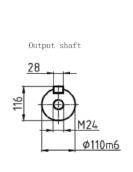


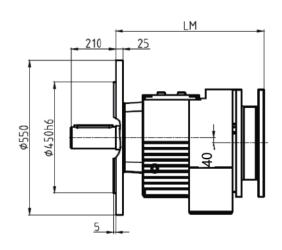
ITH 172 - ITH 173

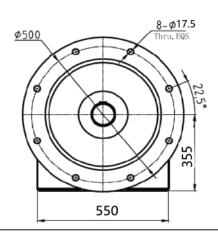
ITH172F... ITH173F...

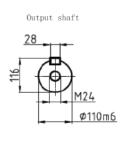




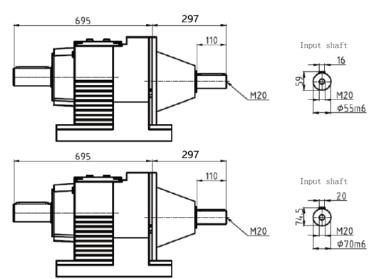








ITHIS172... ITHIS173...

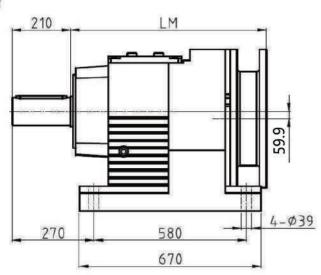


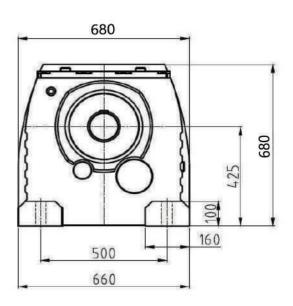


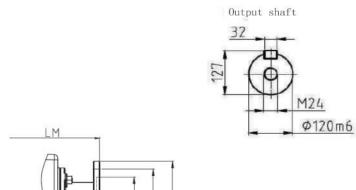


ITH 182 - ITH 183









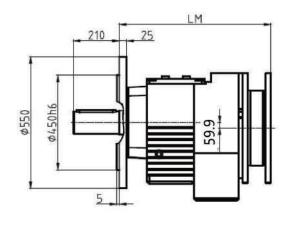
ΣΩ

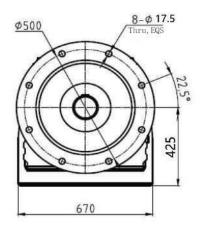
	IEC Dimensions											
	160 B5	180 B5	200 B5	225 B5	250 B5	280 B5	315 B5					
LM	681		691	696	700	700	750					
N	2	50	300	350	48	550						
M	30	00	350	400	500		600					
P	38	50	400	450	58	50	660					
D	42	48	55	60	65	75	80					

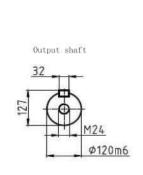


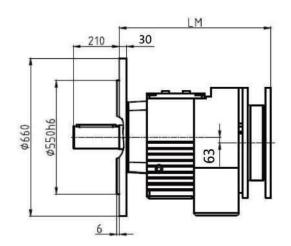
ITH 182 - ITH 183

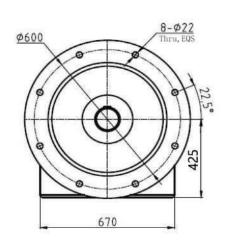
ITH182F... ITH183F...

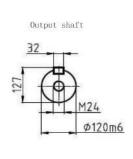












ITHIS182... ITHIS183...

