



# TH SERIES

## 1. SUMMARIZE

TH Helical Gear Box / Geared Motor series is a range of inline gear units which is a next generation mechano-electrical integrated product, designed based on the compact modular system. The TH series Helical Gear units are well known to be the unmatched range of helical geared motors and speed reducers as it is capable of exhibiting optimum torque density, product range, price effectiveness and gear compactness.

TH series Helical Gear units can be connected with wide variety of motors such as normal motor, brake motor, IEC motor and etc., This kind of product is widely used in drive fields such as textile, food processing units, beverage, chemical industry, material handling equipments, automobile, metallurgy, Pharma, environment- protection, logistics and many more.

Product development is assured by qualified professionals using latest design software/systems/tools.

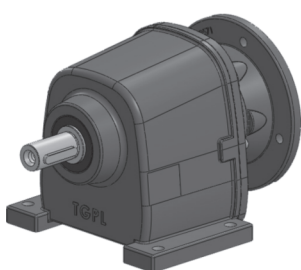
Significant production flexibility guarantees a rapid flow of components with high level quality with the usage of state of art machineries and equipments.

We have In-house well equipped testing facilities for quality check & development aimed to ensure effective performances.

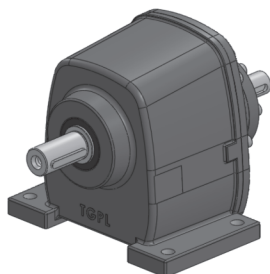
### 1.1 Product Features:

- High durability and reliability
- Effective space utility, refined design
- High torque
- Quite and noiseless operation
- Accepts standard IEC motors
- Very easy to dismantle motor from geared motor
- Wide range of ratios & Versatile mounting
- Gears from hardened and case-hardened steel
- Mechanical rating – 0.12KW to 37KW
- Powder coated blue colour grade of RAL 5015

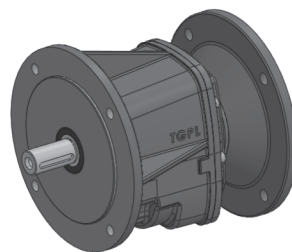
## 2. PRODUCT STRUCTURE PICTURE



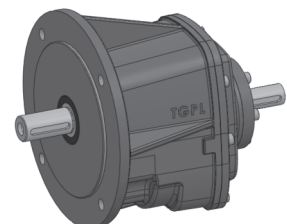
TH-F- - - IEC



TH-F- - - ISS



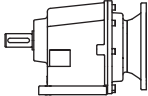
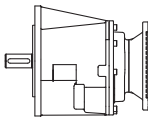
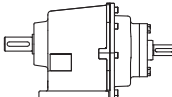
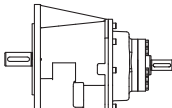
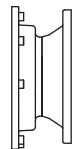
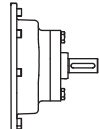
TH-FL- - - IEC



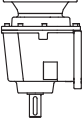
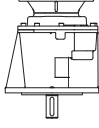
TH-FL- - - ISS

### 3. MODEL DESIGNATION

#### 3.1 GEARBOX MODEL DESIGNATION

TH	25	2	F	14	F80	B5	B3
GEAR BOX TYPE	GEAR BOX FRAME	NO.OF REDUCTION	MOUNTING	RATIO	GEARBOX INPUT FRAME SIZE	GEAR BOX INPUT FLANGE CONFIGURATION	GEAR BOX MOUNTING POSITION
	20 (or) 25 (or) 30 (or) 35 (or) 40 (or) 50 (or) 60 (or) 80	2 (or) 3	F- FOOT  (or) FL-FLANGE 		F63 (or) F71 (or) F80 (or) F90 (or) F100 (or) F112 (or) F132 (or) F160 (or) F180 (or) F200  (or) ISS (INPUT SOLID SHAFT)  	B5  (or) ISS 	B3 (or) B6 (or) B7 (or) B8 (or) V5 (or) V6 (or) B5 (or) V1 (or) V3
							REFER PAGE NO 11

### 3.2 GEARED MOTOR MODEL DESIGNATION

TH	25	2	F	14	F80	B5	B3	TM63A	4	B5	DCB	SPL. OPTIONS
GEAR BOX TYPE	GEAR BOX FRAME	NO.OF REDUCTION	MOUNTING	RATIO	GEARBOX INPUT FRAME SIZE	GEAR BOX INPUT FLANGE CONFIGURATION	GEAR BOX MOUNTING POSITION	MOTOR SIZE	NUMBER OF POLES	MOUNTING	DC BRAKE	OPTION - 1
	20 (or) 25 (or) 30 (or) 35 (or) 40 (or) 50 (or) 60 (or) 80	2 (or) 3	F-FOOT  (or) FL-FLANGE 		F63 (or) F71 (or) F80 (or) F90 (or) F100 (or) F112 (or) F132 (or) F160 (or) F180 (or) F200	ONLY B5	B3 (or) B6 (or) B7 (or) B8 (or) V5 (or) V6 (or) B5 (or) V1 (or) V3	TM63A (or) TM63B (or) TM71A (or) TM71B (or) TM80A (or) TM80B (or) TM90S (or) TM90L (or) TM100L (or) TM112M (or) TM132S (or) TM132M (or) TM160M (or) TM160L (or) TM180M (or) TM180L (or) TM200L	2 (or) 4 (or) 6	MOUNTING B5- FLANGE (or) B3/B5 FOOT WITH B5 FLANGE	DC BRAKE 190 DC VOLTS WITH RELEASE LEVER	OPTION - 1 TB1 (or) TB2 (or) TB3 (or) TB4 (or) TB4  OPTION -3 N-ES OPTION -4 FC
												FOR FULL DETAILS REFER PAGE NO: 143
												REFER PAGE NO 11



## 4. RELEVANT PARAMETER

### 4.1 Power P

$$P_1 = \frac{P_2}{\eta} \text{ [kW]}$$

$$P_{1n} \geq P_1 \cdot f_s \text{ [kW]}$$

- $P_1$  Input power
- $P_2$  Output power
- $P_{1n}$  Rated input motor power
- $f_s$  Service factor
- $\eta$  Transmission efficiency

The parameter can be found in the TH/ISS gearbox rating charts and represents the KW that can be safely transmitted to the gearbox, based on input speed  $n_1$  and service factor  $f_s=1$ .

### 4.2 Rotation speed n

- $n_1$  Gear units input speed
- $n_2$  Gear units output speed

If driven by the external gearing, 1400r/min or lower rotation speed is suggested so as to optimize the working conditions and prolong the service life.

### 4.3 Transmission ratio i

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

### 4.4 Torque M

$$M_2 = \frac{9550 \cdot P_1 \cdot \eta}{n_2} \text{ [Nm]}$$

$$M_{2n} \geq M_2 \times f_s \text{ [Nm]}$$

- $M_2$  Output torque
- $M_{2n}$  Rated output torque
- $P_1$  Input power
- $\eta$  Transmission efficiency
- $f_s$  Service factor

## 5. SERVICE FACTOR $f_s$

For deciding the proper size of gear unit portion of the geared motor, a suitable service factor is to be considered over the motor power. For finding out the service factor, mechanical service factor  $f_1$  and frequency starts factor  $f_2$ , as given in table 5.1 and 5.2 respectively are taken into consideration. For deciding mechanical service factor, the type of load of driven machine as given in table 7 is considered.

### 5.1 MECHANICAL SERVICE FACTOR - $f_1$

Duration of service (hours per day)	Load Classifications of Driven Machine		
	Uniform load U	Moderate shock load M	Heavy shock load H
up to 3	0.80	1.00	1.50
over 3 up to 10	1.00	1.25	1.75
over 10	1.25	1.50	2.00

### 5.2 FREQUENCY STARTS FACTOR - $f_2$

Starts Per Hour	Mechanical Service Factor - $f_1$					
	0.8	1.0	1.25	1.5	1.75	2.0
1	1.00	1.00	1.00	1.00	1.00	1.00
2 to 20	1.20	1.10	1.08	1.07	1.07	1.06
21 to 40	1.30	1.20	1.17	1.16	1.15	1.08
41 to 80	1.50	1.40	1.25	1.23	1.18	1.10
81 to 160	1.60	1.50	1.35	1.30	1.20	1.10
161 to 320	2.00	1.80	1.70	1.60	1.50	1.40

## 6. MASS ACCELERATION FACTOR

The mass acceleration factor is calculated as follows:

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

**fa** Mass acceleration factor

**Jc** All external mass moments of inertia [ $kgm^2$ ]

**Jm** Mass moment of inertia on the motor end [ $kgm^2$ ]

If mass acceleration factors  $fa > 10$ , please call our Technical Service.

Service factor  $f_s$  should be adjusted as followings:

- 1) Ambient temperature is 30 ~ 40°C:  $f_s \times (1.1 \sim 1.2)$
- 2) Ambient temperature is 40 ~ 50°C:  $f_s \times (1.3 \sim 1.4)$
- 3) Ambient temperature is 50 ~ 60°C:  $f_s \times (1.5 \sim 1.6)$
- 4) Ambient temperature >60°C, Please call our Technical Service.

## 7. LOAD CLASSIFICATION

U = Uniform load M = Medium shock load H = Heavy shock load

\* = Only on the basis of 24 hrs service

\*\* = Load can be exactly classified, for instance,

Load classification symbols listed acc. to applications and industries		
<b>Building machinery</b>	<b>Cranes **</b>	<b>Rolls</b>
M Hoists	M Derricking jib gears	M Chain transfers *
M Road construction machinery	H Hoisting gears	H Cold rolling mills *
	M Slewing gears	H Continuous casting plants *
<b>Cement industry</b>	H Travelling gears	M Cooling beds *
H Ball mills *		M Cross transfers *
H Beater mills *	<b>Dredgers</b>	H Descaling machines *
H Breakers	H Bucket conveyors	H Ingot handling machinery *
H Brick presses	H Bucket wheels	H Manipulators *
M Concrete mixers	H Cutter heads	H Reversing plate mills *
H Hammer mills *	M Manoeuvring winches	H Reversing sheet mills *
H Rotary kilns *	M Slewing gears	H Reversing slabbing mills *
	H Travelling gears (caterpillar)	M Roll adjustment drives
H Tube mills *	M Travelling gears (rails)	H Tube welding machines *
		M Winding machines (strip and wire) *
<b>Centrifugal compressors</b>		
M Centrifugal compressors	<b>Food industry machinery</b>	M Wire drawing benches
	U Bottling and container filling machines	<b>Shears</b>
<b>Chemical industry</b>	M Kneading machines	H Billet shears *
U Agitators (liquid material)	M Mash tubs, crystallizers	H Cropping shears *
M Agitators (semi-liquid material)	U Packaging machines	H Plate shears *
M Calenders *	<b>Beet sugar production</b>	M Trimming shears *
M Centrifuges (heavy)	M Sugar beet cutters	
	M Sugar beet washing machines	<b>Oil industry</b>
U Centrifuges (light)	<b>Cane sugar production</b>	M Pipeline pumps *
M Cooling drums *	M Cane crushers *	H Rotary drilling equipment
M Crushers	M Cane knives *	
H Dough mills *	M Cane mills *	<b>Paper machines</b>
M Drying drums *		H Paper machines of all kind *
H Extruders *	<b>Frequency converters</b>	
M Mixers	H Frequency converters	<b>Piston compressors</b>
H Rolling mills *	H Generators	H Piston compressors
	H Welding generators	
<b>Conveyors</b>		<b>Textile machines</b>
M Apron conveyors		M Batchers
M Ballast elevators	<b>Laundries</b>	M Looms
M Band pocket conveyors	M Tumblers	M Printing and dyeing machines
M Belt conveyors (bulk material)	M Washing machines	M Tanning vats
H Belt conveyors (piece goods)		
U Bucket conveyors for flour	<b>Metal working machines</b>	M Willows
M Chain conveyors	U Countershafts, line shafts	
M Circular conveyors	H Forging presses	<b>Waste water treatment</b>
M Goods lifts	H Hammers *	M Aerators *
	U Machine tools, auxiliary drives	<b>Pumps</b>
M Hauling winches	M Machine tools, main drives	U Centrifugal pumps (light liquids)
H Hoists *		M Centrifugal pumps (viscous liquids)
	H Metal planing machines	
H Inclined hoists *	H Plate straightening machines	H Piston pumps
M Link conveyors	H Presses	H Plunger pumps *
M Passenger lifts	H Punch presses	H Pressure pumps *
M Screw conveyors	M Shears	M Suction pumps
M Steel belt conveyors	M Sheet metal bending machines	
M Trough chain conveyors		<b>Wood working machines</b>
	<b>Metal working mills</b>	M Planing machines
<b>Cooling towers</b>	H Ingot pushers *	H Saw frames *
U Blowers (axial and radial)	M Plate tilters *	U Wood working machines
M Cooling tower fans		
	M Roller straighteners *	
	H Roller tables (heavy) *	
	M Roller tables (light) *	

## 8. RADIAL LOADS $F_r$

When determining the resulting radial loads, the type of transmission elements, mounted on the shaft end must be considered. Various transmission elements are corresponding with following transmission element factors  $f_z$ :

Transmission element	Transmission element factor $f_z$	Comments
Gears	1.00	$\geq 17$ / teeth
	1.15	$< 17$ / teeth
Chain sprockets	1.00	$\geq 20$ / teeth
	1.25	$< 20$ / teeth
	1.40	$< 13$ / teeth
Narrow V-belt pulleys	1.75	Influence of the tensile force
Flat belt pulleys	2.50	Influence of the tensile force
Toothed belt pulleys	2.50	Influence of the tensile force

The overhung loads exerted on the motor or gear shaft is then calculated as follows:

$$F_r = \frac{M \cdot 2000 \cdot f_z}{d_0} \quad [\text{N}]$$

**$F_r$**  Resulting radial load [N]

**$M$**  Torque on the shaft [Nm]

**$d_0$**  Mean diameter of the mounted transmission element in [mm]

**$f_z$**  Transmission element factor

The allowed radial load force on the shaft is calculated with the following formula:

$$F_x L \leq \frac{F_{r_2} \cdot a}{(b+x)} \quad [\text{N}]$$

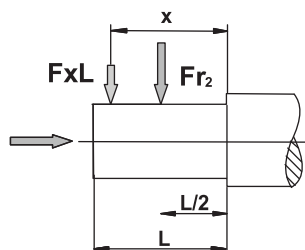
**$F_{r_2}$**  Permitted overhung load ( $x = L/2$ ) for foot-mounted gear units according to the selection tables in [N]

**$a, b$**  Gear unit constant for overhung load conversion [mm]

**$x$**  Distance from the shaft shoulder to the force application point in (mm)

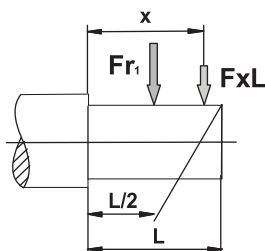
The values of  $a$ ,  $b$ ,  $F_{r_2}$  are given in the following tables:

### Output shafts radial loads



TH	20	25	30	35	40	50	60	80
<b>a</b>	99.5	116.5	132	147.5	163	204	240.5	258
<b>b</b>	79.5	91.5	102	112.5	123	154	180.5	178
<b>Fr<sub>2</sub> max</b>	2300	5000	5500	7000	10000	16000	25000	31000

### Input shafts radial loads



TH	20	25	30	35	40	50	60	80
<b>a</b>	78.5	78.5	82	89	117.5	134	163	214.5
<b>b</b>	58.5	58.5	57	64	87.5	94	108	159.5
<b>Fr<sub>1</sub> max</b>	1300	1300	2200	3500	3500	4700	7000	7000

## 9. POSSIBLE ASSEMBLING

### TH20

	i (RATIO)	IEC63	IEC71	IEC80	IEC90	
TWO S T A G E	(3.6) (4.6) (5.5) (7.7) (8.9) (11.3) (12.3) (14.4)					
	(16.7) (21.2) (23.1) (25.4) (28.0) (31.1) (34.8) (39.3)					
THREE S T A G E	(46.8) (51.1) (56.1) (61.9) (68.7) (76.9)					
	(87.8) (95.9) (105.2) (116.0) (128.8) (144.2) (163.0)					

### TH25

	i (RATIO)	IEC63	IEC71	IEC80	IEC90	
TWO S T A G E	(3.8) (5.0) (6.6) (7.9) (9.0) (10.3) (12.0) (14.9)					
	(17.0) (19.5) (22.6) (26.7)					
	(32.1) (35.5) (39.7) (44.7)					
THREE S T A G E	(49.5) (58.3) (61.3)					
	(69.8) (80.2) (93.2) (109.9) (132.2) (146.4)					
	(163.4) (184.2)					

### TH30

	i (RATIO)	IEC63	IEC71	IEC80	IEC90	IEC100	IEC112
TWO S T A G E	(3.6) (5.1) (6.1) (7.9) (9.2)						
	(10.7) (12.6) (15.0) (17.3) (20.1) (23.8)						
	(28.8) (31.9) (35.7)						
THREE S T A G E	(41.8) (48.0)						
	(55.8) (65.7) (78.8) (90.5) (105.1)						
	(123.9) (149.1) (165.0) (184.2) (207.6)						

### TH35

	i (RATIO)	IEC63	IEC71	IEC80	IEC90	IEC100	IEC112
TWO S T A G E	(3.7) (5.0) (6.1) (7.0) (8.1) (8.8)						
	(10.4) (12.4) (14.4) (18.4)						
	(22.1) (24.4) (27.1) (30.3) (34.3)						
THREE S T A G E	(36.6) (42.3) (49.3) (58.4) (70.4)						
	(87.5) (103.6) (125.0) (138.6) (155.0)						

### TH40

i (RATIO)		IEC71	IEC80	IEC90	IEC100	IEC112	IEC132
TWO S T A G E	(4.4) (5.6) (6.9) (7.4) (8.6) (10.0) (11.9) (13.4)						
	(15.7) (18.7) (20.5) (22.6) (24.6)						
	(27.1) (30.0) (33.5) (37.8)						
THREE S T A G E	(39.4) (42.6) (50.3) (60.3) (66.5)						
	(78.6) (94.3) (104.1) (115.6) (129.5) (146.5)						

### TH50

i (RATIO)		IEC80	IEC90	IEC100	IEC112	IEC132	IEC160
TWO S T A G E	(4.3) (5.6) (6.9) (8.0) (8.7) (10.2)						*
	(12.9) (15.0) (18.9) (21.9)						*
	(23.7) (25.7) (28.1) (30.9) (34.1) (38.0)						
THREE S T A G E	(41.2) (48.2)						
	(57.2) (69.3)						
	(83.7) (91.8) (101.3) (110.5)						
	(121.5) (134.6) (150.3) (169.4)						

### TH60

i (RATIO)		IEC90	IEC100	IEC112	IEC132	IEC160	IEC180
TWO S T A G E	(4.6) (5.8) (7.1) (8.7) (10.1) (11.9) (14.6)						*
	(17.2)						*
	(19.8) (21.5) (23.6) (25.9) (28.7) (32.1)						
THREE S T A G E	(36.6) (39.5)						
	(46.4) (58.8) (68.1) (80.1)						
	(87.5) (96.1) (106.5) (115.8)						
	(126.4) (138.8) (153.5) (171.2)						

### TH80

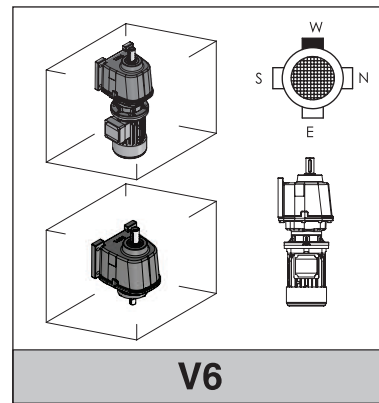
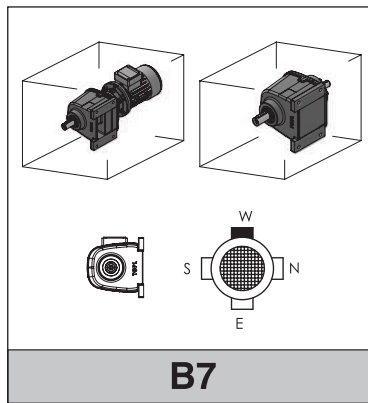
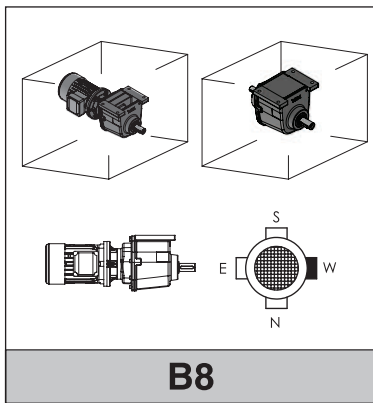
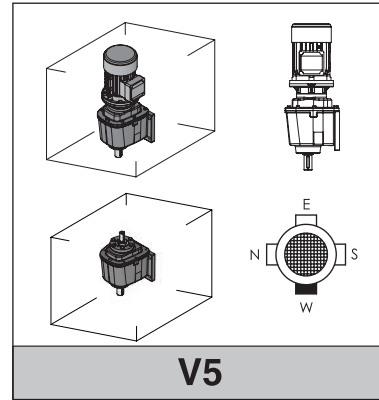
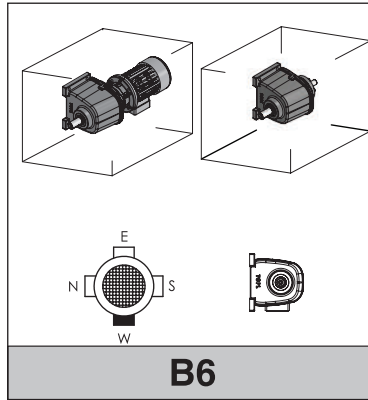
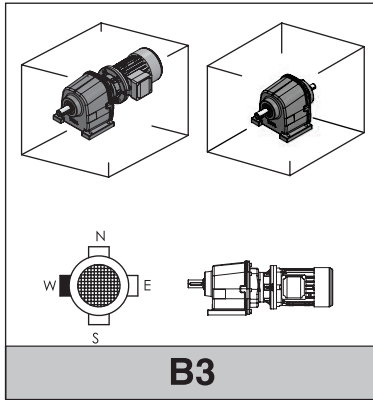
i (RATIO)		IEC100	IEC112	IEC132	IEC160	IEC180	IEC200
TWO S T A G E	(4.6)(5.8)(7.0)(8.7)(10.1)(11.9)(13.2)(15.3)						*
	(18.0)(20.3)						*
	(22.1)(24.2)(26.7)(29.6)(33.0)						
THREE S T A G E	(35.7) (44.0) (51.1)						
	(60.2) (66.8)						
	(77.7) (91.4) (104.9) (114.2) (125.0) (137.5)						
	(152.3) (170.1)						

\*Motor mounting should be B3/B5 (Foot Cum Flange) for Gear Box Mounting position B3, B5, B6, B7 & B8

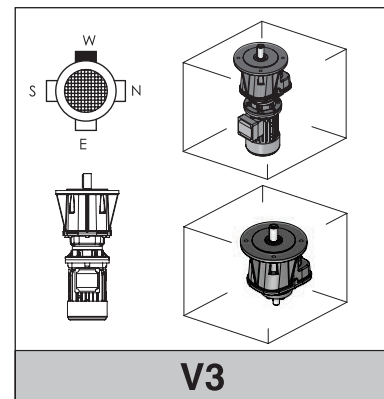
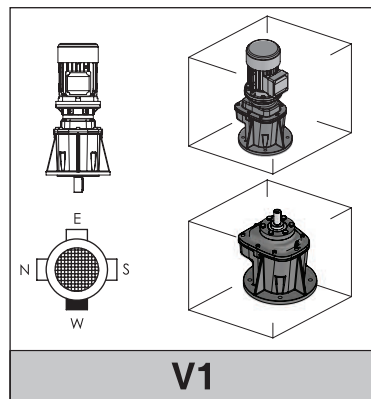
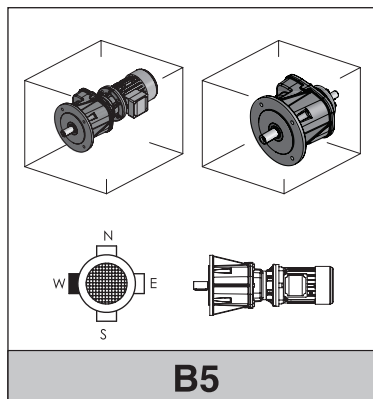
## 10. MOUNTING POSITIONS

### MOUNTING POSITION FOR GEAR BOX & GEARED MOTOR

#### F - FOOT MOUNTING



#### FL - FLANGE MOUNTING






## 11. LUBRICATION

TGPL – TH Series gearbox inner parts are flash lubricated and models TH20, 25, 30 & 35 are filled with long life Synthetic oil and the other models TH40, 50, 60 & 80 are filled with mineral oil. In case of ambient temperatures under -15°C or over 50°C, please consult our technical team.

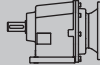


### 11.1 LUBRICANT DETAILS

MODEL	GRADE			OIL TYPE	AMBIENT TEMPERATURE	
	LIGHT DUTY	NORMAL DUTY	HEAVY DUTY			
TH20 TO TH35	150	220	320	SYNTHETIC OIL	-15°c	+50°c
TH40 TO TH80	220	220	320	MINERAL OIL		

### 11.2 Quantity of Lubricant (Ltrs)

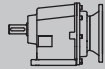


Model	MOUNTING POSITIONS								
	FOOT						FLANGE		
	B3	B6	B7	B8	V5	V6	B5	V1	V3
TH20-2	0.4	0.37	0.37	0.37	0.45	0.55	0.4	0.45	0.55
TH20-3	0.4	0.37	0.37	0.37	0.6	0.5	0.4	0.65	0.55
TH25-2	0.7	0.65	0.65	0.65	0.75	0.85	0.55	0.6	0.83
TH25-3	0.75	0.7	0.7	0.7	1.0	0.85	0.6	0.88	0.85
TH30-2	0.9	0.85	0.85	0.85	1.0	1.3	0.9	1.0	1.3
TH30-3	0.9	0.85	0.85	0.85	1.35	1.1	0.9	1.35	1.15
TH35-2	1.2	1.1	1.1	1.0	1.3	1.7	1.2	1.3	1.7
TH35-3	1.2	1.1	1.1	1.0	1.8	1.75	1.2	1.8	1.75
TH40-2	2.2	2.2	2.2	2.5	2.8	2.6	2.2	2.8	2.6
TH40-3	2.2	2.2	2.2	2.5	3.0	2.8	2.2	3.0	2.8
TH50-2	3.5	3.4	3.4	4.0	4.5	4.3	3.5	4.5	4.3
TH50-3	3.5	3.4	3.4	4.0	4.9	5.0	3.5	4.9	5.0
TH60-2	6.0	5.8	5.8	6.3	8.0	7.6	6.0	8.0	7.6
TH60-3	6.0	5.8	5.8	6.3	11.0	10.5	6.0	11.0	10.5
TH80-2	12.0	11.5	11.8	11.5	13.7	16.8	10.0	11.6	15.0
TH80-3	12.0	11.5	11.8	11.5	18.0	19.7	10.0	15.8	18.8

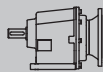
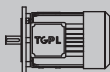

## 12. SYMBOLS AND UNITS OF MEASURE

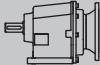


$P_{1n}$ [kW]	$n_2$ [r/min]	$M_{2n}$ [Nm]	$i$	$F_{r2}$ [N]	$f_s$			
Rated power driving motor	Output speed	Rated output torque	Gear unit ratio	Output Shaft radial load	Service factor	Gear unit Size	Motor Size	Page number - Dimension details

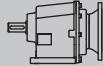


### 13. HELICAL GEAR UNIT SELECTION TABLES




#### 13.1 TH..(IEC).. Performance Parameter

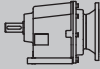


P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr2 [N]			
<b>0.12</b>	6.7	165.9	207.6	1.8	5500	TH30 3 63B5	TM 63 A4	63
	7.6	146.2	184.2	1.4	5000	TH25 3 63B5	TM 63 A4	61
	8.6	129.7	163.4	1.5	5000	TH25 3 63B5	TM 63 A4	61
	8.6	129.4	163.0	0.9	2300	TH20 3 63B5	TM 63 A4	59
	9.6	116.2	146.4	1.7	5000	TH25 3 63B5	TM 63 A4	61
	9.7	114.5	144.2	1.0	2300	TH20 3 63B5	TM 63 A4	59
	10.6	105.0	132.2	1.9	5000	TH25 3 63B5	TM 63 A4	61
	10.9	102.3	128.8	1.1	2300	TH20 3 63B5	TM 63 A4	59
	12.1	92.1	116.0	1.3	2300	TH20 3 63B5	TM 63 A4	59
	12.7	87.3	109.9	2.3	5000	TH25 3 63B5	TM 63 A4	61
	13.3	83.5	105.2	1.4	2300	TH20 3 63B5	TM 63 A4	59
	14.6	76.1	95.9	1.5	2300	TH20 3 63B5	TM 63 A4	59
	15.0	74.0	93.2	2.7	5000	TH25 3 63B5	TM 63 A4	61
	15.9	69.7	87.8	1.7	2300	TH20 3 63B5	TM 63 A4	59
	17.4	63.7	80.2	3.1	5000	TH25 3 63B5	TM 63 A4	61
	18.2	61.0	76.9	2.0	2300	TH20 3 63B5	TM 63 A4	59
	20.0	55.5	69.8	3.6	4920	TH25 3 63B5	TM 63 A4	61
	20.4	54.5	68.7	2.2	2300	TH20 3 63B5	TM 63 A4	59
	22.6	49.1	61.9	2.5	2300	TH20 3 63B5	TM 63 A4	59
	22.8	48.7	61.3	4.1	4760	TH25 3 63B5	TM 63 A4	61
	24.0	46.3	58.3	4.3	4400	TH25 3 63B5	TM 63 A4	61
	25.0	44.5	56.1	2.7	2300	TH20 3 63B5	TM 63 A4	59
	27.4	40.6	51.1	3.0	2300	TH20 3 63B5	TM 63 A4	59
	29.9	37.2	46.8	3.2	2300	TH20 3 63B5	TM 63 A4	59
	35.6	31.2	39.3	3.7	2100	TH20 2 63B5	TM 63 A4	59
	40.2	27.6	34.8	4.1	2100	TH20 2 63B5	TM 63 A4	59
	43.6	25.5	32.1	7.8	3250	TH25 2 63B5	TM 63 A4	61
	45.0	24.7	31.1	4.6	2100	TH20 2 63B5	TM 63 A4	59
	50.0	22.2	28.0	5.0	2050	TH20 2 63B5	TM 63 A4	59
	52.4	21.2	26.7	9.4	3090	TH25 2 63B5	TM 63 A4	61
	55.2	20.2	25.4	5.5	1900	TH20 2 63B5	TM 63 A4	59
	60.5	18.4	23.1	6.0	1810	TH20 2 63B5	TM 63 A4	59
	61.8	18.0	22.6	11.0	2810	TH25 2 63B5	TM 63 A4	61
	66.0	16.8	21.2	6.6	1750	TH20 2 63B5	TM 63 A4	59
	71.8	15.5	19.5	12.7	2760	TH25 2 63B5	TM 63 A4	61
	82.5	13.5	17.0	13.9	2560	TH25 2 63B5	TM 63 A4	61
	84.0	13.2	16.7	7.8	1650	TH20 2 63B5	TM 63 A4	59
	94.0	11.8	14.9	15.2	2450	TH25 2 63B5	TM 63 A4	61
	97.2	11.4	14.4	8.4	1600	TH20 2 63B5	TM 63 A4	59
	113.4	9.8	12.3	9.0	1550	TH20 2 63B5	TM 63 A4	59

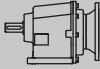


P <sub>1n</sub> [kW]	n <sub>2</sub> [RPM]	M <sub>2n</sub> [Nm]	i	f <sub>s</sub>	Fr <sub>2</sub> [N]			
<b>0.12</b>	116.6	9.5	12.0	17.1	2350	TH25 2 63B5	TM 63 A4	61
	123.8	9.0	11.3	10.2	1480	TH20 2 63B5	TM 63 A4	59
	135.4	8.2	10.3	18.3	2230	TH25 2 63B5	TM 63 A4	61
	155.6	7.1	9.0	20.7	2100	TH25 2 63B5	TM 63 A4	61
	157.5	7.1	8.9	10.8	1450	TH20 2 63B5	TM 63 A4	59
	177.2	6.3	7.9	24.1	1980	TH25 2 63B5	TM 63 A4	61
	182.3	6.1	7.7	11.6	1450	TH20 2 63B5	TM 63 A4	59
	212.4	5.2	6.6	26.3	1890	TH25 2 63B5	TM 63 A4	61
	254.4	4.4	5.5	12.8	1400	TH20 2 63B5	TM 63 A4	59
	281.1	4.0	5.0	26.4	1710	TH25 2 63B5	TM 63 A4	61
	306.3	3.6	4.6	13.6	1400	TH20 2 63B5	TM 63 A4	59
	365.5	3.0	3.8	28.3	1650	TH25 2 63B5	TM 63 A4	61
	388.9	2.9	3.6	14.4	1400	TH20 2 63B5	TM 63 A4	59
	<b>0.18</b>	4.9	341.3	184.2	0.9	5500	TH30 3 71B5	TM 71 A6
5.5		305.7	165.0	1.0	5500	TH30 3 71B5	TM 71 A6	63
5.8		287.1	155.0	1.8	7000	TH35 3 71B5	TM 71 A6	65
6.0		276.1	149.0	1.1	5500	TH30 3 71B5	TM 71 A6	63
6.1		273.3	146.4	0.7	5000	TH25 3 71B5	TM 71 A6	61
6.5		256.8	138.6	2.1	7000	TH35 3 71B5	TM 71 A6	65
6.8		245.2	132.2	0.8	5000	TH25 3 71B5	TM 71 A6	61
7.2		231.6	125.0	2.3	7000	TH35 3 71B5	TM 71 A6	65
7.3		229.6	123.9	1.3	5500	TH30 3 71B5	TM 71 A6	63
6.7		248.9	207.6	1.2	5500	TH30 3 63B5	TM 63 B4	63
7.6		219.3	184.2	0.9	5000	TH25 3 63B5	TM 63 B4	61
8.6		194.6	163.4	1.0	5000	TH25 3 63B5	TM 63 B4	61
9.6		174.3	146.4	1.1	5000	TH25 3 63B5	TM 63 B4	61
10.6		157.4	132.2	1.3	5000	TH25 3 63B5	TM 63 B4	61
12.1		138.1	116.0	0.8	2300	TH20 3 63B5	TM 63 B4	59
12.7		130.9	109.9	1.5	5000	TH25 3 63B5	TM 63 B4	61
13.3		125.2	105.2	0.9	2300	TH20 3 63B5	TM 63 B4	59
14.6		114.2	95.9	1.0	2300	TH20 3 63B5	TM 63 B4	59
15.0		111.0	93.2	1.8	5000	TH25 3 63B5	TM 63 B4	61
15.9		104.6	87.8	1.1	2300	TH20 3 63B5	TM 63 B4	59
17.4		95.6	80.2	2.1	5000	TH25 3 63B5	TM 63 B4	61
18.2		91.6	76.9	1.3	2300	TH20 3 63B5	TM 63 B4	59
20.0		83.2	69.8	2.4	4920	TH25 3 63B5	TM 63 B4	61
20.4		81.8	68.7	1.5	2300	TH20 3 63B5	TM 63 B4	59
22.6	73.7	61.9	1.6	2300	TH20 3 63B5	TM 63 B4	59	
22.8	73.1	61.3	2.7	4760	TH25 3 63B5	TM 63 B4	61	

P <sub>1n</sub> [kW]	n <sub>2</sub> [RPM]	M <sub>2n</sub> [Nm]	i	f <sub>s</sub>	Fr <sub>2</sub> [N]			
<b>0.18</b>	24.0	69.4	58.3	2.9	4400	TH25 3 63B5	TM 63 B4	61
	25.0	66.8	56.1	1.8	2300	TH20 3 63B5	TM 63 B4	59
	27.4	60.9	51.1	2.0	2300	TH20 3 63B5	TM 63 B4	59
	28.3	58.9	49.5	3.4	4320	TH25 3 63B5	TM 63 B4	61
	29.9	55.8	46.8	2.2	2300	TH20 3 63B5	TM 63 B4	59
	31.3	53.3	44.7	3.8	3940	TH25 2 63B5	TM 63 B4	61
	35.3	47.3	39.7	4.2	3720	TH25 2 63B5	TM 63 B4	61
	35.6	46.8	39.3	2.5	2100	TH20 2 63B5	TM 63 B4	59
	39.4	42.3	35.5	4.7	3550	TH25 2 63B5	TM 63 B4	61
	40.2	41.4	34.8	2.7	2100	TH20 2 63B5	TM 63 B4	59
	43.6	38.2	32.1	5.2	3250	TH25 2 63B5	TM 63 B4	61
	45.0	37.0	31.1	3.0	2100	TH20 2 63B5	TM 63 B4	59
	50.0	33.3	28.0	3.4	2050	TH20 2 63B5	TM 63 B4	59
	52.4	31.8	26.7	6.3	3090	TH25 2 63B5	TM 63 B4	61
	55.2	30.2	25.4	3.7	1900	TH20 2 63B5	TM 63 B4	59
	60.5	27.6	23.1	4.0	1810	TH20 2 63B5	TM 63 B4	59
	61.8	27.0	22.6	7.4	2810	TH25 2 63B5	TM 63 B4	61
	66.0	25.2	21.2	4.4	1750	TH20 2 63B5	TM 63 B4	59
	71.8	23.2	19.5	8.5	2760	TH25 2 63B5	TM 63 B4	61
	82.5	20.2	17.0	9.3	2560	TH25 2 63B5	TM 63 B4	61
	84.0	19.8	16.7	5.2	1650	TH20 2 63B5	TM 63 B4	59
	94.0	17.7	14.9	10.1	2450	TH25 2 63B5	TM 63 B4	61
	97.2	17.1	14.4	5.6	1600	TH20 2 63B5	TM 63 B4	59
	113.4	14.7	12.3	6.0	1550	TH20 2 63B5	TM 63 B4	59
	116.6	14.3	12.0	11.4	2350	TH25 2 63B5	TM 63 B4	61
	123.8	13.5	11.3	6.8	1480	TH20 2 63B5	TM 63 B4	59
	135.4	12.3	10.3	12.2	2230	TH25 2 63B5	TM 63 B4	61
	155.6	10.7	9.0	13.8	2100	TH25 2 63B5	TM 63 B4	61
	157.5	10.6	8.9	7.2	1450	TH20 2 63B5	TM 63 B4	59
	177.2	9.4	7.9	16.1	1980	TH25 2 63B5	TM 63 B4	61
	182.3	9.1	7.7	7.7	1450	TH20 2 63B5	TM 63 B4	59
	212.4	7.8	6.6	17.6	1890	TH25 2 63B5	TM 63 B4	61
	254.4	6.6	5.5	8.5	1400	TH20 2 63B5	TM 63 B4	59
	281.1	5.9	5.0	17.6	1710	TH25 2 63B5	TM 63 B4	61
306.3	5.4	4.6	9.1	1400	TH20 2 63B5	TM 63 B4	59	
365.5	4.6	3.8	18.9	1650	TH25 2 63B5	TM 63 B4	61	
388.9	4.3	3.6	9.6	1400	TH20 2 63B5	TM 63 B4	59	
424.9	3.9	6.6	23.3	1520	TH25 2 63B5	TM 63 A2	61	
508.7	3.3	5.5	11.7	1150	TH20 2 63B5	TM 63 A2	59	
562.2	3.0	5.0	24.4	1360	TH25 2 63B5	TM 63 A2	61	
612.5	2.7	4.6	12.8	1150	TH20 2 63B5	TM 63 A2	59	

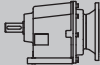


P <sub>1n</sub> [kW]	n <sub>2</sub> [RPM]	M <sub>2n</sub> [Nm]	i	f <sub>s</sub>	Fr <sub>2</sub> [N]			
<b>0.18</b>	731.1	2.3	3.8	27.2	1250	TH25 2 63B5	TM 63 A2	61
	777.8	2.1	3.6	16.5	1100	TH20 2 63B5	TM 63 A2	59
<b>0.25</b>	4.9	474.0	184.2	0.6	5500	TH30 3 71B5	TM 71 B6	63
	5.5	421.1	165.0	0.7	5500	TH30 3 71B5	TM 71 B6	63
	5.8	398.8	155.0	1.3	7000	TH35 3 71B5	TM 71 B6	65
	6.0	383.5	149.1	0.8	5500	TH30 3 71B5	TM 71 B6	63
	6.1	376.9	146.5	2.4	10000	TH40 3 71B5	TM 71 B6	67
	6.5	356.7	138.6	1.5	7000	TH35 3 71B5	TM 71 B6	65
	6.9	333.2	129.5	2.6	10000	TH40 3 71B5	TM 71 B6	67
	7.2	321.6	125.0	1.6	7000	TH35 3 71B5	TM 71 B6	65
	6.7	345.6	207.6	0.8	5500	TH30 3 71B5	TM 71 A4	63
	7.6	304.7	184.2	1.0	5500	TH30 3 71B5	TM 71 A4	63
	8.5	273.0	165.0	1.2	5500	TH30 3 71B5	TM 71 A4	63
	8.6	267.8	163.4	0.8	5000	TH25 3 71B5	TM 71 A4	61
	9.0	256.4	155.0	1.9	7000	TH35 3 71B5	TM 71 A4	65
	9.4	246.5	149.1	1.2	5500	TH30 3 71B5	TM 71 A4	63
	9.6	242.3	146.5	3.6	10000	TH40 3 71B5	TM 71 A4	67
	9.6	242.1	146.4	0.8	5000	TH25 3 71B5	TM 71 A4	61
	10.1	229.3	138.6	2.2	7000	TH35 3 71B5	TM 71 A4	65
	10.6	218.7	132.2	0.9	5000	TH25 3 71B5	TM 71 A4	61
	10.8	214.2	129.5	4.0	10000	TH40 3 71B5	TM 71 A4	67
	11.2	206.8	125.0	2.4	7000	TH35 3 71B5	TM 71 A4	65
	11.3	205.0	123.9	1.5	5500	TH30 3 71B5	TM 71 A4	63
	12.7	181.8	109.9	1.1	5000	TH25 3 71B5	TM 71 A4	61
	13.3	173.9	105.1	1.7	5500	TH30 3 71B5	TM 71 A4	63
	13.5	171.3	103.6	2.8	7000	TH35 3 71B5	TM 71 A4	65
	15.0	154.2	93.2	1.3	5000	TH25 3 71B5	TM 71 A4	61
	15.5	149.6	90.5	2.0	5500	TH30 3 71B5	TM 71 A4	63
	15.9	145.3	87.8	0.8	2300	TH20 3 71B5	TM 71 A4	59
	16.0	144.7	87.5	3.3	7000	TH35 3 71B5	TM 71 A4	65
	17.4	132.7	80.2	1.5	5000	TH25 3 71B5	TM 71 A4	61
	17.8	130.3	78.8	2.3	5500	TH30 3 71B5	TM 71 A4	63
	18.2	127.2	76.9	0.9	2300	TH20 3 71B5	TM 71 A4	59
	19.9	116.5	70.4	4.4	7000	TH35 3 71B5	TM 71 A4	65
	20.0	115.5	69.8	1.7	4920	TH25 3 71B5	TM 71 A4	61
20.4	113.6	68.7	1.1	2300	TH20 3 71B5	TM 71 A4	59	
21.3	108.7	65.7	2.8	5500	TH30 3 71B5	TM 71 A4	63	
22.6	102.3	61.9	1.2	2300	TH20 3 71B5	TM 71 A4	59	
22.8	101.5	61.3	2.0	4760	TH25 3 71B5	TM 71 A4	61	
24.0	96.4	58.3	2.1	4400	TH25 3 71B5	TM 71 A4	61	




P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr2 [N]			
<b>0.18</b>	731.1	2.3	3.8	27.2	1250	TH25 2 63B5	TM 63 A2	61
	777.8	2.1	3.6	16.5	1100	TH20 2 63B5	TM 63 A2	59
<b>0.25</b>	6.7	345.6	207.6	0.8	5500	TH30 3 71B5	TM 71 A4	63
	4.9	474.0	184.2	0.6	5500	TH30 3 71B5	TM 71 B6	63
	5.5	421.1	165.0	0.7	5500	TH30 3 71B5	TM 71 B6	63
	5.8	398.8	155.0	1.3	7000	TH35 3 71B5	TM 71 B6	65
	6.0	383.5	149.1	0.8	5500	TH30 3 71B5	TM 71 B6	63
	6.1	376.9	146.5	2.4	10000	TH40 3 71B5	TM 71 B6	67
	6.5	356.7	138.6	1.5	7000	TH35 3 71B5	TM 71 B6	65
	6.9	333.2	129.5	2.6	10000	TH40 3 71B5	TM 71 B6	67
	7.2	321.6	125.0	1.6	7000	TH35 3 71B5	TM 71 B6	65
	7.6	304.7	184.2	1.0	5500	TH30 3 71B5	TM 71 A4	63
	8.5	273.0	165.0	1.2	5500	TH30 3 71B5	TM 71 A4	63
	8.6	267.8	163.4	0.8	5000	TH25 3 71B5	TM 71 A4	61
	9.0	256.4	155.0	1.9	7000	TH35 3 71B5	TM 71 A4	65
	9.4	246.5	149.1	1.2	5500	TH30 3 71B5	TM 71 A4	63
	9.6	242.3	146.5	3.6	10000	TH40 3 71B5	TM 71 A4	67
	9.6	242.1	146.4	0.8	5000	TH25 3 71B5	TM 71 A4	61
	10.1	229.3	138.6	2.2	7000	TH35 3 71B5	TM 71 A4	65
	10.6	218.7	132.2	0.9	5000	TH25 3 71B5	TM 71 A4	61
	10.8	214.2	129.5	4.0	10000	TH40 3 71B5	TM 71 A4	67
	11.2	206.8	125.0	2.4	7000	TH35 3 71B5	TM 71 A4	65
	11.3	205.0	123.9	1.5	5500	TH30 3 71B5	TM 71 A4	63
	12.7	181.8	109.9	1.1	5000	TH25 3 71B5	TM 71 A4	61
	13.3	173.9	105.1	1.7	5500	TH30 3 71B5	TM 71 A4	63
	13.5	171.3	103.6	2.8	7000	TH35 3 71B5	TM 71 A4	65
	15.0	154.2	93.2	1.3	5000	TH25 3 71B5	TM 71 A4	61
	15.5	149.6	90.5	2.0	5500	TH30 3 71B5	TM 71 A4	63
	15.9	145.3	87.8	0.8	2300	TH20 3 71B5	TM 71 A4	59
	16.0	144.7	87.5	3.3	7000	TH35 3 71B5	TM 71 A4	65
	17.4	132.7	80.2	1.5	5000	TH25 3 71B5	TM 71 A4	61
	17.8	130.3	78.8	2.3	5500	TH30 3 71B5	TM 71 A4	63
	18.2	127.2	76.9	0.9	2300	TH20 3 71B5	TM 71 A4	59
	19.9	116.5	70.4	4.4	7000	TH35 3 71B5	TM 71 A4	65
	20.0	115.5	69.8	1.7	4920	TH25 3 71B5	TM 71 A4	61
20.4	113.6	68.7	1.1	2300	TH20 3 71B5	TM 71 A4	59	
21.3	108.7	65.7	2.8	5500	TH30 3 71B5	TM 71 A4	63	
22.6	102.3	61.9	1.2	2300	TH20 3 71B5	TM 71 A4	59	
22.8	101.5	61.3	2.0	4760	TH25 3 71B5	TM 71 A4	61	
24.0	96.4	58.3	2.1	4400	TH25 3 71B5	TM 71 A4	61	

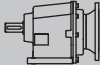


P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>0.25</b>	25.0	92.8	56.1	1.3	2300	TH20 3 71B5	TM 71 A4	59
	25.1	92.2	55.8	3.3	5500	TH30 3 71B5	TM 71 A4	63
	27.4	84.6	51.1	1.4	2300	TH20 3 71B5	TM 71 A4	59
	28.3	81.8	49.5	2.4	4320	TH25 3 71B5	TM 71 A4	61
	29.2	79.4	48.0	3.8	5500	TH30 3 71B5	TM 71 A4	63
	29.9	77.5	46.8	1.6	2300	TH20 3 71B5	TM 71 A4	59
	31.3	74.0	44.7	2.7	3940	TH25 2 71B5	TM 71 A4	61
	35.3	65.6	39.7	3.0	3720	TH25 2 71B5	TM 71 A4	61
	35.6	65.1	39.3	1.8	2100	TH20 2 71B5	TM 71 A4	59
	39.4	58.8	35.5	3.4	3550	TH25 2 71B5	TM 71 A4	61
	40.2	57.6	34.8	2.0	2100	TH20 2 71B5	TM 71 A4	59
	43.6	53.1	32.1	3.8	3250	TH25 2 71B5	TM 71 A4	61
	45.0	51.4	31.1	2.2	2100	TH20 2 71B5	TM 71 A4	59
	50.0	46.3	28.0	2.4	2050	TH20 2 71B5	TM 71 A4	59
	55.2	42.0	25.4	2.6	1900	TH20 2 71B5	TM 71 A4	59
	60.5	38.3	23.1	2.9	1810	TH20 2 71B5	TM 71 A4	59
	66.0	35.1	21.2	3.1	1750	TH20 2 71B5	TM 71 A4	59
	84.0	27.6	16.7	3.8	1650	TH20 2 71B5	TM 71 A4	59
	97.2	23.8	14.4	4.0	1600	TH20 2 71B5	TM 71 A4	59
	113.4	20.4	12.3	4.3	1550	TH20 2 71B5	TM 71 A4	59
	123.8	18.7	11.3	4.9	1480	TH20 2 71B5	TM 71 A4	59
	157.5	14.7	8.9	5.2	1450	TH20 2 71B5	TM 71 A4	59
	182.3	12.7	7.7	5.6	1450	TH20 2 71B5	TM 71 A4	59
	254.4	9.1	5.5	6.1	1400	TH20 2 71B5	TM 71 A4	59
	306.3	7.6	4.6	6.5	1400	TH20 2 71B5	TM 71 A4	59
	388.9	6.0	3.6	6.9	1400	TH20 2 71B5	TM 71 A4	59
	424.9	5.5	6.6	16.8	1520	TH25 2 63B5	TM 63 B2	61
	508.7	4.6	5.5	8.4	1150	TH20 2 63B5	TM 63 B2	59
	562.2	4.1	5.0	17.6	1360	TH25 2 63B5	TM 63 B2	61
	612.5	3.8	4.6	9.2	1150	TH20 2 63B5	TM 63 B2	59
731.1	3.2	3.8	19.6	1250	TH25 2 63B5	TM 63 B2	61	
777.8	3.0	3.6	11.9	1100	TH20 2 63B5	TM 63 B2	59	
<b>0.37</b>	5.3	645.1	169.4	2.2	16000	TH50 3 80B5	TM 80 A6	69
	5.8	590.2	155.0	0.9	7000	TH35 3 80B5	TM 80 A6	65
	6.0	572.2	150.3	2.5	16000	TH50 3 80B5	TM 80 A6	69
	6.1	557.8	146.5	1.6	10000	TH40 3 80B5	TM 80 A6	67
	6.5	527.9	138.6	1.0	7000	TH35 3 80B5	TM 80 A6	65
	6.7	512.5	134.6	2.8	16000	TH50 3 80B5	TM 80 A6	69
	6.9	493.2	129.5	1.8	10000	TH40 3 80B5	TM 80 A6	67
	7.2	476.0	125.0	1.1	7000	TH35 3 80B5	TM 80 A6	65

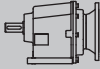


P <sub>1n</sub> [kW]	n <sub>2</sub> [RPM]	M <sub>2n</sub> [Nm]	i	f <sub>s</sub>	Fr <sub>2</sub> [N]			
<b>0.37</b>	7.6	450.9	184.2	0.7	5500	TH30 3 71B5	TM 71 B4	63
	8.5	403.2	165.0	0.7	5500	TH30 3 71B5	TM 71 B4	63
	9.0	380.8	155.0	1.2	7000	TH35 3 71B5	TM 71 B4	65
	9.4	364.9	149.1	0.8	5500	TH30 3 71B5	TM 71 B4	63
	9.6	357.0	146.5	2.4	10000	TH40 3 71B5	TM 71 B4	67
	10.1	339.4	138.6	1.5	7000	TH35 3 71B5	TM 71 B4	65
	10.8	317.0	129.5	2.7	10000	TH40 3 71B5	TM 71 B4	67
	11.2	306.0	125.0	1.6	7000	TH35 3 71B5	TM 71 B4	65
	11.3	303.4	123.9	1.0	5500	TH30 3 71B5	TM 71 B4	63
	12.1	283.1	115.6	3.0	10000	TH40 3 71B5	TM 71 B4	67
	12.7	269.9	109.9	0.7	5000	TH25 3 71B5	TM 71 B4	61
	13.3	257.3	105.1	1.2	5500	TH30 3 71B5	TM 71 B4	63
	13.5	254.8	104.1	3.3	10000	TH40 3 71B5	TM 71 B4	67
	13.5	253.5	103.6	1.9	7000	TH35 3 71B5	TM 71 B4	65
	14.8	230.8	94.3	3.7	10000	TH40 3 71B5	TM 71 B4	67
	15.0	228.2	93.2	0.9	5000	TH25 3 71B5	TM 71 B4	61
	15.5	221.5	90.5	1.4	5500	TH30 3 71B5	TM 71 B4	63
	16.0	214.2	87.5	2.3	7000	TH35 3 71B5	TM 71 B4	65
	17.4	196.4	80.2	1.0	5000	TH25 3 71B5	TM 71 B4	61
	17.8	192.8	78.8	1.6	5500	TH30 3 71B5	TM 71 B4	63
	19.9	172.5	70.4	3.0	7000	TH35 3 71B5	TM 71 B4	65
	20.0	171.0	69.8	1.2	4920	TH25 3 71B5	TM 71 B4	61
	21.3	160.9	65.7	1.9	5500	TH30 3 71B5	TM 71 B4	63
	22.6	151.5	61.9	0.8	2300	TH20 3 71B5	TM 71 B4	59
	22.8	150.2	61.3	1.3	4760	TH25 3 71B5	TM 71 B4	61
	24.0	142.9	58.4	3.7	7000	TH35 3 71B5	TM 71 B4	65
	24.0	142.7	58.3	1.4	4400	TH25 3 71B5	TM 71 B4	61
	25.0	137.3	56.1	0.9	2300	TH20 3 71B5	TM 71 B4	59
	25.1	136.5	55.8	2.2	5500	TH30 3 71B5	TM 71 B4	63
	27.4	125.2	51.1	1.0	2300	TH20 3 71B5	TM 71 B4	59
	28.3	121.1	49.5	1.7	4320	TH25 3 71B5	TM 71 B4	61
	29.2	117.5	48.0	2.6	5500	TH30 3 71B5	TM 71 B4	63
	29.9	114.7	46.8	1.0	2300	TH20 3 71B5	TM 71 B4	59
	31.3	109.5	44.7	1.8	3940	TH25 2 71B5	TM 71 B4	61
	33.5	102.3	41.8	2.9	5500	TH30 3 71B5	TM 71 B4	63
	35.3	97.1	39.7	2.1	3720	TH25 2 71B5	TM 71 B4	61
	35.6	96.3	39.3	1.2	2100	TH20 2 71B5	TM 71 B4	59
	39.3	87.3	35.7	3.4	5200	TH30 2 71B5	TM 71 B4	63
	39.4	87.0	35.5	2.3	3550	TH25 2 71B5	TM 71 B4	61

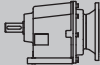







P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>0.37</b>	40.2	85.2	34.8	1.3	2100	TH20 2 71B5	TM 71 B4	59
	43.6	78.6	32.1	2.5	3250	TH25 2 71B5	TM 71 B4	61
	45.0	76.1	31.1	1.5	2100	TH20 2 71B5	TM 71 B4	59
	50.0	68.5	28.0	1.6	2050	TH20 2 71B5	TM 71 B4	59
	52.4	65.4	26.7	3.1	3090	TH25 2 71B5	TM 71 B4	61
	55.2	62.1	25.4	1.8	1900	TH20 2 71B5	TM 71 B4	59
	60.5	56.7	23.1	1.9	1810	TH20 2 71B5	TM 71 B4	59
	61.8	55.4	22.6	3.6	2810	TH25 2 71B5	TM 71 B4	61
	66.0	51.9	21.2	2.1	1750	TH20 2 71B5	TM 71 B4	59
	71.8	47.7	19.5	4.1	2760	TH25 2 71B5	TM 71 B4	61
	84.0	40.8	16.7	2.5	1650	TH20 2 71B5	TM 71 B4	59
	94.0	36.5	14.9	4.9	2450	TH25 2 71B5	TM 71 B4	61
	97.2	35.3	14.4	2.7	1600	TH20 2 71B5	TM 71 B4	59
	113.4	30.2	12.3	2.9	1550	TH20 2 71B5	TM 71 B4	59
	116.6	29.4	12.0	5.6	2350	TH25 2 71B5	TM 71 B4	61
	123.8	27.7	11.3	3.3	1480	TH20 2 71B5	TM 71 B4	59
	135.4	25.3	10.3	5.9	2230	TH25 2 71B5	TM 71 B4	61
	155.6	22.0	9.0	6.7	2100	TH25 2 71B5	TM 71 B4	61
	157.5	21.8	8.9	3.5	1450	TH20 2 71B5	TM 71 B4	59
	177.2	19.3	7.9	7.8	1980	TH25 2 71B5	TM 71 B4	61
	182.3	18.8	7.7	3.8	1450	TH20 2 71B5	TM 71 B4	59
	212.4	16.1	6.6	8.5	1890	TH25 2 71B5	TM 71 B4	61
	254.4	13.5	5.5	4.2	1400	TH20 2 71B5	TM 71 B4	59
	281.1	12.2	5.0	8.6	1710	TH25 2 71B5	TM 71 B4	61
	306.3	11.2	4.6	4.4	1400	TH20 2 71B5	TM 71 B4	59
	365.5	9.4	3.8	9.2	1650	TH25 2 71B5	TM 71 B4	61
	388.9	8.8	3.6	4.7	1400	TH20 2 71B5	TM 71 B4	59
	424.9	8.1	6.6	11.4	1520	TH25 2 71B5	TM 71 A2	61
	508.7	6.7	5.5	5.7	1150	TH20 2 71B5	TM 71 A2	59
	562.2	6.1	5.0	11.9	1360	TH25 2 71B5	TM 71 A2	61
	612.5	5.6	4.6	6.2	1150	TH20 2 71B5	TM 71 A2	59
	731.1	4.7	3.8	13.2	1250	TH25 2 71B5	TM 71 A2	61
777.8	4.4	3.6	8.0	1100	TH20 2 71B5	TM 71 A2	59	
<b>0.55</b>	5.3	959.0	169.4	1.5	16000	TH50 3 80B5	TM 80 B6	69
	6.0	850.6	150.3	1.7	16000	TH50 3 80B5	TM 80 B6	69
	6.1	829.1	146.5	1.1	10000	TH40 3 80B5	TM 80 B6	67
	6.7	761.9	134.6	1.9	16000	TH50 3 80B5	TM 80 B6	69
	6.9	733.1	129.5	1.2	10000	TH40 3 80B5	TM 80 B6	67
	7.4	688.0	121.5	2.1	16000	TH50 3 80B5	TM 80 B6	69
	8.3	616.5	169.4	2.3	16000	TH50 3 80B5	TM 80 A4	69


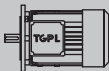

P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr2 [N]			
<b>0.55</b>	9.0	564.0	155.0	0.9	7000	TH35 3 80B5	TM 80 A4	65
	9.3	546.8	150.3	2.5	16000	TH50 3 80B5	TM 80 A4	69
	9.6	533.0	146.5	1.6	10000	TH40 3 80B5	TM 80 A4	67
	10.1	504.5	138.6	1.0	7000	TH35 3 80B5	TM 80 A4	65
	10.4	489.8	134.6	2.9	16000	TH50 3 80B5	TM 80 A4	69
	10.8	471.3	129.5	1.8	10000	TH40 3 80B5	TM 80 A4	67
	11.2	454.9	125.0	1.1	7000	TH35 3 80B5	TM 80 A4	65
	11.5	442.3	121.5	3.1	16000	TH50 3 80B5	TM 80 A4	69
	12.1	420.8	115.6	2.0	10000	TH40 3 80B5	TM 80 A4	67
	12.7	402.0	110.5	3.4	16000	TH50 3 80B5	TM 80 A4	69
	13.3	382.5	105.1	0.8	5500	TH30 3 80B5	TM 80 A4	63
	13.5	378.7	104.1	2.2	10000	TH40 3 80B5	TM 80 A4	67
	13.5	376.9	103.6	1.3	7000	TH35 3 80B5	TM 80 A4	65
	13.8	368.5	101.3	3.7	16000	TH50 3 80B5	TM 80 A4	69
	14.8	343.1	94.3	2.5	10000	TH40 3 80B5	TM 80 A4	67
	15.5	329.2	90.5	0.9	5500	TH30 3 80B5	TM 80 A4	63
	16.0	318.4	87.5	1.5	7000	TH35 3 80B5	TM 80 A4	65
	17.8	286.6	78.8	1.0	5500	TH30 3 80B5	TM 80 A4	63
	17.8	286.1	78.6	2.9	10000	TH40 3 80B5	TM 80 A4	67
	19.9	256.3	70.4	2.0	7000	TH35 3 80B5	TM 80 A4	65
	20.0	254.2	69.8	0.8	4920	TH25 3 80B5	TM 80 A4	61
	21.0	242.0	66.5	3.7	10000	TH40 3 80B5	TM 80 A4	67
	21.3	239.2	65.7	1.3	5500	TH30 3 80B5	TM 80 A4	63
	22.8	223.2	61.3	0.9	4760	TH25 3 80B5	TM 80 A4	61
	24.0	212.4	58.4	2.5	7000	TH35 3 80B5	TM 80 A4	65
	24.0	212.2	58.3	0.9	4400	TH25 3 80B5	TM 80 A4	61
	25.1	202.9	55.8	1.5	5500	TH30 3 80B5	TM 80 A4	63
	28.3	179.9	49.5	1.1	4320	TH25 3 80B5	TM 80 A4	61
	28.4	179.4	49.3	2.9	6650	TH35 3 80B5	TM 80 A4	65
	29.2	174.6	48.0	1.7	5500	TH30 3 80B5	TM 80 A4	63
	31.3	162.7	44.7	1.2	3940	TH25 2 80B5	TM 80 A4	61
	33.1	153.8	42.3	3.4	6450	TH35 3 80B5	TM 80 A4	65
	33.5	152.0	41.8	2.0	5500	TH30 3 80B5	TM 80 A4	63
	35.3	144.4	39.7	1.4	3720	TH25 2 80B5	TM 80 A4	61
	35.6	143.1	39.3	0.8	2100	TH20 2 80B5	TM 80 A4	59
	38.2	133.3	36.6	3.4	6450	TH35 3 80B5	TM 80 A4	65
	39.3	129.7	35.7	2.3	5200	TH30 2 80B5	TM 80 A4	63
	39.4	129.3	35.5	1.5	3550	TH25 2 80B5	TM 80 A4	61
	40.2	126.6	34.8	0.9	2100	TH20 2 80B5	TM 80 A4	59
	43.6	116.8	32.1	1.7	3250	TH25 2 80B5	TM 80 A4	61
43.9	116.0	31.9	2.6	5200	TH30 2 80B5	TM 80 A4	63	




P <sub>1n</sub> [kW]	n <sub>2</sub> [RPM]	M <sub>2n</sub> [Nm]	i	f <sub>s</sub>	Fr <sub>2</sub> [N]			
<b>0.55</b>	45.0	113.1	31.1	1.0	2100	TH20 2 80B5	TM 80 A4	59
	48.7	104.6	28.8	2.9	5000	TH30 2 80B5	TM 80 A4	63
	50.0	101.9	28.0	1.1	2050	TH20 2 80B5	TM 80 A4	59
	52.4	97.1	26.7	2.1	3090	TH25 2 80B5	TM 80 A4	61
	55.2	92.4	25.4	1.2	1900	TH20 2 80B5	TM 80 A4	59
	58.8	86.7	23.8	3.5	4700	TH30 2 80B5	TM 80 A4	63
	60.5	84.2	23.1	1.3	1810	TH20 2 80B5	TM 80 A4	59
	61.8	82.4	22.6	2.4	2810	TH25 2 80B5	TM 80 A4	61
	66.0	77.1	21.2	1.4	1750	TH20 2 80B5	TM 80 A4	59
	69.6	73.2	20.1	4.1	4500	TH30 2 80B5	TM 80 A4	63
	71.8	70.9	19.5	2.8	2760	TH25 2 80B5	TM 80 A4	61
	82.5	61.7	17.0	3.0	2560	TH25 2 80B5	TM 80 A4	61
	84.0	60.6	16.7	1.7	1650	TH20 2 80B5	TM 80 A4	59
	94.0	54.2	14.9	3.3	2450	TH25 2 80B5	TM 80 A4	61
	97.2	52.4	14.4	1.8	1600	TH20 2 80B5	TM 80 A4	59
	113.4	44.9	12.3	2.0	1550	TH20 2 80B5	TM 80 A4	59
	116.6	43.7	12.0	3.7	2350	TH25 2 80B5	TM 80 A4	61
	123.8	41.1	11.3	2.2	1480	TH20 2 80B5	TM 80 A4	59
	157.5	32.3	8.9	2.4	1450	TH20 2 80B5	TM 80 A4	59
	182.3	27.9	7.7	2.5	1450	TH20 2 80B5	TM 80 A4	59
	254.4	20.0	5.5	2.8	1400	TH20 2 80B5	TM 80 A4	59
	306.3	16.6	4.6	3.0	1400	TH20 2 80B5	TM 80 A4	59
	388.9	13.1	3.6	3.1	1400	TH20 2 80B5	TM 80 A4	59
	424.9	12.0	6.6	7.6	1520	TH25 2 71B5	TM 71 B2	61
	508.7	10.0	5.5	3.8	1150	TH20 2 71B5	TM 71 B2	59
	562.2	9.1	5.0	8.0	1360	TH25 2 71B5	TM 71 B2	61
	612.5	8.3	4.6	4.2	1150	TH20 2 71B5	TM 71 B2	59
	731.1	7.0	3.8	8.9	1250	TH25 2 71B5	TM 71 B2	61
777.8	6.6	3.6	5.4	1100	TH20 2 71B5	TM 71 B2	59	
<b>0.75</b>	5.3	1321.4	171.2	1.7	25000	TH60 3 90B5	TM 90 S6	71
	5.3	1307.7	169.4	1.1	16000	TH50 3 90B5	TM 90 S6	69
	5.9	1185.2	153.5	1.9	25000	TH60 3 90B5	TM 90 S6	71
	6.0	1159.9	150.3	1.2	16000	TH50 3 90B5	TM 90 S6	69
	6.1	1130.6	146.5	0.8	10000	TH40 3 90B5	TM 90 S6	67
	6.5	1071.8	138.8	2.1	25000	TH60 3 90B5	TM 90 S6	71
	6.7	1038.9	134.6	1.4	16000	TH50 3 90B5	TM 90 S6	69
	6.9	999.7	129.5	0.9	10000	TH40 3 90B5	TM 90 S6	67
	7.1	975.8	126.4	2.4	25000	TH60 3 90B5	TM 90 S6	71
	7.4	938.1	121.5	1.5	16000	TH50 3 90B5	TM 90 S6	69
	7.8	893.5	115.8	2.6	25000	TH60 3 90B5	TM 90 S6	71

P <sub>1n</sub> [kW]	n <sub>2</sub> [RPM]	M <sub>2n</sub> [Nm]	i	f <sub>s</sub>	Fr <sub>2</sub> [N]			
<b>0.75</b>	7.8	892.6	115.6	1.0	10000	TH40 3 90B5	TM 90 S6	67
	8.3	840.6	169.4	1.7	16000	TH50 3 80B5	TM 80 B4	69
	9.3	745.6	150.3	1.9	16000	TH50 3 80B5	TM 80 B4	69
	9.6	726.8	146.5	1.2	10000	TH40 3 80B5	TM 80 B4	67
	10.4	667.9	134.6	2.1	16000	TH50 3 80B5	TM 80 B4	69
	10.8	642.6	129.5	1.3	10000	TH40 3 80B5	TM 80 B4	67
	11.5	603.1	121.5	2.3	16000	TH50 3 80B5	TM 80 B4	69
	12.1	573.8	115.6	1.5	10000	TH40 3 80B5	TM 80 B4	67
	12.7	548.2	110.5	2.5	16000	TH50 3 80B5	TM 80 B4	69
	13.5	513.9	103.6	0.9	7000	TH35 3 80B5	TM 80 B4	65
	13.5	516.4	104.1	1.6	10000	TH40 3 80B5	TM 80 B4	67
	13.8	502.6	101.3	2.7	16000	TH50 3 80B5	TM 80 B4	69
	14.8	467.9	94.3	1.8	10000	TH40 3 80B5	TM 80 B4	67
	15.3	455.5	91.8	3.0	16000	TH50 3 80B5	TM 80 B4	69
	16.0	434.2	87.5	1.1	7000	TH35 3 80B5	TM 80 B4	65
	16.7	415.1	83.7	3.3	16000	TH50 3 80B5	TM 80 B4	69
	17.8	390.8	78.8	0.8	5500	TH30 3 80B5	TM 80 B4	63
	17.8	390.2	78.6	2.2	10000	TH40 3 80B5	TM 80 B4	67
	19.9	349.6	70.4	1.5	7000	TH35 3 80B5	TM 80 B4	65
	21.0	330.1	66.5	2.7	10000	TH40 3 80B5	TM 80 B4	67
	21.3	326.2	65.7	0.9	5500	TH30 3 80B5	TM 80 B4	63
	23.2	299.0	60.3	3.0	10000	TH40 3 80B5	TM 80 B4	67
	24.0	289.6	58.4	1.8	7000	TH35 3 80B5	TM 80 B4	65
	24.0	289.3	58.3	0.7	4400	TH25 3 80B5	TM 80 B4	61
	25.1	276.7	55.8	1.1	5500	TH30 3 80B5	TM 80 B4	63
	27.9	249.4	50.3	3.5	10000	TH40 3 80B5	TM 80 B4	67
	28.3	245.4	49.5	0.8	4320	TH25 3 80B5	TM 80 B4	61
	28.4	244.7	49.3	2.2	7000	TH35 3 80B5	TM 80 B4	65
	29.2	238.1	48.0	1.3	5500	TH30 3 80B5	TM 80 B4	63
	31.3	221.9	44.7	0.9	3940	TH25 2 80B5	TM 80 B4	61
	33.1	209.7	42.3	2.5	7000	TH35 3 80B5	TM 80 B4	65
	33.5	207.3	41.8	1.4	5500	TH30 3 80B5	TM 80 B4	63
	35.3	196.9	39.7	1.0	3720	TH25 2 80B5	TM 80 B4	61
	38.2	181.8	36.6	2.5	7000	TH35 3 80B5	TM 80 B4	65
	39.3	176.9	35.7	1.7	5200	TH30 2 80B5	TM 80 B4	63
	39.4	176.4	35.5	1.1	3550	TH25 2 80B5	TM 80 B4	61
	40.8	170.2	34.3	2.8	7000	TH35 2 80B5	TM 80 B4	65
	43.6	159.3	32.1	1.3	3250	TH25 2 80B5	TM 80 B4	61
	43.9	158.2	31.9	1.9	5200	TH30 2 80B5	TM 80 B4	63
	46.2	150.5	30.3	3.0	7000	TH35 2 80B5	TM 80 B4	65
48.7	142.7	28.8	2.1	5000	TH30 2 80B5	TM 80 B4	63	

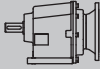


<b>P<sub>1n</sub></b> [kW]	<b>n<sub>2</sub></b> [RPM]	<b>M<sub>2n</sub></b> [Nm]	<b>i</b>	<b>f<sub>s</sub></b>	<b>Fr<sub>2</sub></b> [N]			
<b>0.75</b>	50.0	138.9	28.0	0.8	2050	TH20 2 80B5	TM 80 B4	59
	51.7	134.4	27.1	3.4	7000	TH35 2 80B5	TM 80 B4	65
	52.4	132.5	26.7	1.5	3090	TH25 2 80B5	TM 80 B4	61
	55.2	126.0	25.4	0.9	1900	TH20 2 80B5	TM 80 B4	59
	58.8	118.2	23.8	2.5	4700	TH30 2 80B5	TM 80 B4	63
	60.5	114.8	23.1	1.0	1810	TH20 2 80B5	TM 80 B4	59
	61.8	112.3	22.6	1.8	2810	TH25 2 80B5	TM 80 B4	61
	66.0	105.2	21.2	1.0	1750	TH20 2 80B5	TM 80 B4	59
	69.6	99.9	20.1	3.0	4500	TH30 2 80B5	TM 80 B4	63
	71.8	96.7	19.5	2.0	2760	TH25 2 80B5	TM 80 B4	61
	81.2	85.6	17.3	3.5	4200	TH30 2 80B5	TM 80 B4	63
	82.5	84.2	17.0	2.2	2560	TH25 2 80B5	TM 80 B4	61
	84.0	82.7	16.7	1.3	1650	TH20 2 80B5	TM 80 B4	59
	94.0	73.9	14.9	2.4	2450	TH25 2 80B5	TM 80 B4	61
	97.2	71.5	14.4	1.3	1600	TH20 2 80B5	TM 80 B4	59
	113.4	61.2	12.3	1.4	1550	TH20 2 80B5	TM 80 B4	59
	116.6	59.6	12.0	2.7	2350	TH25 2 80B5	TM 80 B4	61
	123.8	56.1	11.3	1.6	1480	TH20 2 80B5	TM 80 B4	59
	135.4	51.3	10.3	2.9	2230	TH25 2 80B5	TM 80 B4	61
	155.6	44.6	9.0	3.3	2100	TH25 2 80B5	TM 80 B4	61
	157.5	44.1	8.9	1.7	1450	TH20 2 80B5	TM 80 B4	59
	177.2	39.2	7.9	3.9	1980	TH25 2 80B5	TM 80 B4	61
	182.3	38.1	7.7	1.9	1450	TH20 2 80B5	TM 80 B4	59
	212.4	32.7	6.6	4.2	1890	TH25 2 80B5	TM 80 B4	61
	254.4	27.3	5.5	2.0	1400	TH20 2 80B5	TM 80 B4	59
	281.1	24.7	5.0	4.2	1710	TH25 2 80B5	TM 80 B4	61
	306.3	22.7	4.6	2.2	1400	TH20 2 80B5	TM 80 B4	59
	365.5	19.0	3.8	4.5	1650	TH25 2 80B5	TM 80 B4	61
	388.9	17.9	3.6	2.3	1400	TH20 2 80B5	TM 80 B4	59
	424.9	16.4	6.6	5.6	1520	TH25 2 80B5	TM 80 A2	61
	508.7	13.7	5.5	2.8	1150	TH20 2 80B5	TM 80 A2	59
	562.2	12.4	5.0	5.9	1360	TH25 2 80B5	TM 80 A2	61
	612.5	11.3	4.6	3.1	1150	TH20 2 80B5	TM 80 A2	59
731.1	9.5	3.8	6.5	1250	TH25 2 80B5	TM 80 A2	61	
777.8	8.9	3.6	4.0	1100	TH20 2 80B5	TM 80 A2	59	
<b>1.1</b>	5.3	1938.0	171.2	1.2	25000	TH60 3 90B5	TM 90 L6	71
	5.9	1738.3	153.5	1.3	25000	TH60 3 90B5	TM 90 L6	71
	6.0	1701.1	150.3	0.8	16000	TH50 3 90B5	TM 90 L6	69
	6.5	1571.9	138.8	1.5	25000	TH60 3 90B5	TM 90 L6	71
	6.7	1523.7	134.6	0.9	16000	TH50 3 90B5	TM 90 L6	69

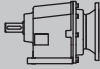


P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr2 [N]			
<b>1.1</b>	7.1	1431.1	126.4	1.6	25000	TH60 3 90B5	TM 90 L6	71
	7.4	1375.9	121.5	1.0	16000	TH50 3 90B5	TM 90 L6	69
	7.8	1310.4	115.8	1.8	25000	TH60 3 90B5	TM 90 L6	71
	8.2	1245.8	171.2	1.8	25000	TH60 3 90B5	TM 90 S4	71
	8.3	1233.0	169.4	1.1	16000	TH50 3 90B5	TM 90 S4	69
	9.1	1117.5	153.5	2.0	25000	TH60 3 90B5	TM 90 S4	71
	9.3	1093.6	150.3	1.3	16000	TH50 3 90B5	TM 90 S4	69
	9.6	1066.0	146.5	0.8	10000	TH40 3 90B5	TM 90 S4	67
	10.1	1010.5	138.8	2.2	25000	TH60 3 90B5	TM 90 S4	71
	10.4	979.5	134.6	1.4	16000	TH50 3 90B5	TM 90 S4	69
	10.8	942.5	129.5	0.9	10000	TH40 3 90B5	TM 90 S4	67
	11.1	920.0	126.4	2.4	25000	TH60 3 90B5	TM 90 S4	71
	11.5	884.5	121.5	1.6	16000	TH50 3 90B5	TM 90 S4	69
	12.1	842.4	115.8	2.7	25000	TH60 3 90B5	TM 90 S4	71
	12.1	841.6	115.6	1.0	10000	TH40 3 90B5	TM 90 S4	67
	12.7	804.1	110.5	1.7	16000	TH50 3 90B5	TM 90 S4	69
	13.1	775.2	106.5	2.9	25000	TH60 3 90B5	TM 90 S4	71
	13.5	757.4	104.1	1.1	10000	TH40 3 90B5	TM 90 S4	67
	13.8	737.1	101.3	1.9	16000	TH50 3 90B5	TM 90 S4	69
	14.6	699.4	96.1	3.1	25000	TH60 3 90B5	TM 90 S4	71
	14.8	686.2	94.3	1.2	10000	TH40 3 90B5	TM 90 S4	67
	15.3	668.0	91.8	2.0	16000	TH50 3 90B5	TM 90 S4	69
	16.0	636.8	87.5	3.4	25000	TH60 3 90B5	TM 90 S4	71
	16.7	608.8	83.7	2.2	16000	TH50 3 90B5	TM 90 S4	69
	17.8	572.3	78.6	1.5	10000	TH40 3 90B5	TM 90 S4	67
	19.9	512.7	70.4	1.0	7000	TH35 3 90B5	TM 90 S4	65
	20.2	504.4	69.3	3.2	16000	TH50 3 90B5	TM 90 S4	69
	21.0	484.1	66.5	1.9	10000	TH40 3 90B5	TM 90 S4	67
	23.2	438.6	60.3	2.1	10000	TH40 3 90B5	TM 90 S4	67
	24.0	424.8	58.4	1.2	7000	TH35 3 90B5	TM 90 S4	65
	24.5	416.6	57.2	3.8	16000	TH50 3 90B5	TM 90 S4	69
	25.1	405.8	55.8	0.7	5500	TH30 3 90B5	TM 90 S4	63
	27.9	365.7	50.3	2.4	10000	TH40 3 90B5	TM 90 S4	67
	28.4	358.9	49.3	1.5	7000	TH35 3 90B5	TM 90 S4	65
	29.2	349.3	48.0	0.9	5500	TH30 3 90B5	TM 90 S4	63
	32.9	310.1	42.6	2.8	10000	TH40 3 90B5	TM 90 S4	67
	33.1	307.6	42.3	1.7	7000	TH35 3 90B5	TM 90 S4	65
	33.5	304.0	41.8	1.0	5500	TH30 3 90B5	TM 90 S4	63
35.5	286.9	39.4	2.9	10000	TH40 3 90B5	TM 90 S4	67	
37.1	275.0	37.8	3.0	10000	TH40 2 90B5	TM 90 S4	67	
38.2	266.6	36.6	1.7	7000	TH35 3 90B5	TM 90 S4	65	




P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr2 [N]			
<b>1.1</b>	39.3	259.5	35.7	1.2	5200	TH30 2 90B5	TM 90 S4	63
	39.4	258.7	35.5	0.8	3550	TH25 2 90B5	TM 90 S4	61
	40.8	249.7	34.3	1.9	7000	TH35 2 90B5	TM 90 S4	65
	41.8	243.9	33.5	3.3	10000	TH40 2 90B5	TM 90 S4	67
	43.6	233.7	32.1	0.9	3250	TH25 2 90B5	TM 90 S4	61
	43.9	232.1	31.9	1.3	5200	TH30 2 90B5	TM 90 S4	63
	46.2	220.8	30.3	2.1	7000	TH35 2 90B5	TM 90 S4	65
	46.6	218.5	30.0	3.7	10000	TH40 2 90B5	TM 90 S4	67
	48.7	209.2	28.8	1.4	5000	TH30 2 90B5	TM 90 S4	63
	51.7	197.1	27.1	2.3	7000	TH35 2 90B5	TM 90 S4	65
	52.4	194.3	26.7	1.0	3090	TH25 2 90B5	TM 90 S4	61
	58.8	173.4	23.8	1.7	4700	TH30 2 90B5	TM 90 S4	63
	61.8	164.8	22.6	1.2	2810	TH25 2 90B5	TM 90 S4	61
	63.4	160.7	22.1	2.8	6320	TH35 2 90B5	TM 90 S4	65
	69.6	146.5	20.1	2.0	4500	TH30 2 90B5	TM 90 S4	63
	71.8	141.8	19.5	1.4	2760	TH25 2 90B5	TM 90 S4	61
	76.0	134.0	18.4	3.2	5450	TH35 2 90B5	TM 90 S4	65
	81.2	125.5	17.3	2.4	4200	TH30 2 90B5	TM 90 S4	63
	82.5	123.5	17.0	1.5	2560	TH25 2 90B5	TM 90 S4	61
	84.0	121.3	16.7	0.9	1650	TH20 2 90B5	TM 90 S4	59
	93.6	108.8	15.0	2.8	3850	TH30 2 90B5	TM 90 S4	63
	94.0	108.4	14.9	1.7	2450	TH25 2 90B5	TM 90 S4	61
	97.2	104.8	14.4	0.9	1600	TH20 2 90B5	TM 90 S4	59
	110.8	92.0	12.6	2.9	3750	TH30 2 90B5	TM 90 S4	63
	113.4	89.8	12.3	1.0	1550	TH20 2 90B5	TM 90 S4	59
	116.6	87.4	12.0	1.9	2350	TH25 2 90B5	TM 90 S4	61
	123.8	82.3	11.3	1.1	1480	TH20 2 90B5	TM 90 S4	59
	131.1	77.7	10.7	3.2	3600	TH30 2 90B5	TM 90 S4	63
	135.4	75.2	10.3	2.0	2230	TH25 2 90B5	TM 90 S4	61
	153.0	66.6	9.2	3.4	3500	TH30 2 90B5	TM 90 S4	63
	155.6	65.5	9.0	2.3	2100	TH25 2 90B5	TM 90 S4	61
	157.5	64.7	8.9	1.2	1450	TH20 2 90B5	TM 90 S4	59
	177.2	57.5	7.9	2.6	1980	TH25 2 90B5	TM 90 S4	61
	182.3	55.9	7.7	1.3	1450	TH20 2 90B5	TM 90 S4	59
	212.4	48.0	6.6	2.9	1890	TH25 2 90B5	TM 90 S4	61
	254.4	40.1	5.5	1.4	1400	TH20 2 90B5	TM 90 S4	59
281.1	36.2	5.0	2.9	1710	TH25 2 90B5	TM 90 S4	61	
306.3	33.3	4.6	1.5	1400	TH20 2 90B5	TM 90 S4	59	
365.5	27.9	3.8	3.1	1650	TH25 2 90B5	TM 90 S4	61	
388.9	26.2	3.6	1.6	1400	TH20 2 90B5	TM 90 S4	59	
424.9	24.0	6.6	3.8	1520	TH25 2 80B5	TM 80 B2	61	




P <sub>1n</sub> [kW]	n <sub>2</sub> [RPM]	M <sub>2n</sub> [Nm]	i	f <sub>s</sub>	Fr <sub>2</sub> [N]			
<b>1.1</b>	508.7	20.0	5.5	1.9	1150	TH20 2 80B5	TM 80 B2	59
	562.2	18.1	5.0	4.0	1360	TH25 2 80B5	TM 80 B2	61
	612.5	16.6	4.6	2.1	1150	TH20 2 80B5	TM 80 B2	59
	731.1	13.9	3.8	4.5	1250	TH25 2 80B5	TM 80 B2	61
	777.8	13.1	3.6	2.7	1100	TH20 2 80B5	TM 80 B2	59
<b>1.5</b>	5.3	2625.7	170.1	1.6	31000	TH80 3 100B5	TM 100 L6	73
	5.3	2642.7	171.2	0.9	25000	TH60 3 100B5	TM 100 L6	71
	5.9	2351.3	152.3	1.8	31000	TH80 3 100B5	TM 100 L6	73
	5.9	2370.4	153.5	1.0	25000	TH60 3 100B5	TM 100 L6	71
	6.5	2122.7	137.5	2.0	31000	TH80 3 100B5	TM 100 L6	73
	6.5	2143.5	138.8	1.1	25000	TH60 3 100B5	TM 100 L6	71
	7.2	1929.3	125.0	2.2	31000	TH80 3 100B5	TM 100 L6	73
	7.1	1951.5	126.4	1.2	25000	TH60 3 100B5	TM 100 L6	71
	7.9	1763.5	114.2	2.4	31000	TH80 3 100B5	TM 100 L6	73
	7.8	1787.0	115.8	1.3	25000	TH60 3 100B5	TM 100 L6	71
	8.2	1698.9	171.2	1.3	25000	TH60 3 90B5	TM 90 L4	71
	8.3	1681.3	169.4	0.8	16000	TH50 3 90B5	TM 90 L4	69
	9.1	1523.8	153.5	1.4	25000	TH60 3 90B5	TM 90 L4	71
	9.3	1491.2	150.3	0.9	16000	TH50 3 90B5	TM 90 L4	69
	10.1	1378.0	138.8	1.6	25000	TH60 3 90B5	TM 90 L4	71
	10.4	1335.7	134.6	1.1	16000	TH50 3 90B5	TM 90 L4	69
	11.1	1254.6	126.4	1.8	25000	TH60 3 90B5	TM 90 L4	71
	11.5	1206.1	121.5	1.1	16000	TH50 3 90B5	TM 90 L4	69
	12.1	1148.8	115.8	2.0	25000	TH60 3 90B5	TM 90 L4	71
	12.7	1096.5	110.5	1.3	16000	TH50 3 90B5	TM 90 L4	69
	13.1	1057.1	106.5	2.2	25000	TH60 3 90B5	TM 90 L4	71
	13.5	1032.8	104.1	0.8	10000	TH40 3 90B5	TM 90 L4	67
	13.8	1005.1	101.3	1.4	16000	TH50 3 90B5	TM 90 L4	69
	14.6	953.8	96.1	2.3	25000	TH60 3 90B5	TM 90 L4	71
	14.8	935.7	94.3	0.9	10000	TH40 3 90B5	TM 90 L4	67
	15.3	910.9	91.8	1.5	16000	TH50 3 90B5	TM 90 L4	69
	16.0	868.4	87.5	2.5	25000	TH60 3 90B5	TM 90 L4	71
	16.7	830.2	83.7	1.6	16000	TH50 3 90B5	TM 90 L4	69
	17.5	795.1	80.1	2.9	25000	TH60 3 90B5	TM 90 L4	71
	17.8	780.4	78.6	1.1	10000	TH40 3 90B5	TM 90 L4	67
	20.2	687.8	69.3	2.3	16000	TH50 3 90B5	TM 90 L4	69
	20.5	676.1	68.1	3.4	25000	TH60 3 90B5	TM 90 L4	71
21.0	660.1	66.5	1.4	10000	TH40 3 90B5	TM 90 L4	67	
23.2	598.0	60.3	1.5	10000	TH40 3 90B5	TM 90 L4	67	
24.0	579.3	58.4	0.9	7000	TH35 3 90B5	TM 90 L4	65	

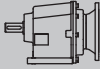







P <sub>1n</sub> [kW]	n <sub>2</sub> [RPM]	M <sub>2n</sub> [Nm]	i	f <sub>s</sub>	Fr <sub>2</sub> [N]			
<b>1.5</b>	24.5	568.1	57.2	2.8	16000	TH50 3 90B5	TM 90 L4	69
	27.9	498.7	50.3	1.8	10000	TH40 3 90B5	TM 90 L4	67
	28.4	489.4	49.3	1.1	7000	TH35 3 90B5	TM 90 L4	65
	29.0	478.4	48.2	3.3	15500	TH50 3 90B5	TM 90 L4	69
	32.9	422.8	42.6	2.0	10000	TH40 3 90B5	TM 90 L4	67
	33.1	419.5	42.3	1.2	7000	TH35 3 90B5	TM 90 L4	65
	34.0	408.5	41.2	3.8	14300	TH50 3 90B5	TM 90 L4	69
	35.5	391.2	39.4	2.1	10000	TH40 3 90B5	TM 90 L4	67
	37.1	375.0	37.8	2.2	10000	TH40 2 90B5	TM 90 L4	67
	38.2	363.5	36.6	1.2	7000	TH35 3 90B5	TM 90 L4	65
	39.3	353.8	35.7	0.8	5200	TH30 2 90B5	TM 90 L4	63
	40.8	340.5	34.3	1.4	7000	TH35 2 90B5	TM 90 L4	65
	41.8	332.6	33.5	2.4	10000	TH40 2 90B5	TM 90 L4	67
	43.9	316.5	31.9	0.9	5200	TH30 2 90B5	TM 90 L4	63
	46.2	301.0	30.3	1.5	7000	TH35 2 90B5	TM 90 L4	65
	46.6	297.9	30.0	2.7	10000	TH40 2 90B5	TM 90 L4	67
	48.7	285.3	28.8	1.1	5000	TH30 2 90B5	TM 90 L4	63
	51.6	269.0	27.1	3.0	10000	TH40 2 90B5	TM 90 L4	67
	51.7	268.8	27.1	1.7	7000	TH35 2 90B5	TM 90 L4	65
	52.4	264.9	26.7	0.8	3090	TH25 2 90B5	TM 90 L4	61
	56.8	244.6	24.6	3.2	10000	TH40 2 90B5	TM 90 L4	67
	57.4	241.9	24.4	1.9	6650	TH35 2 90B5	TM 90 L4	65
	58.8	236.4	23.8	1.3	4700	TH30 2 90B5	TM 90 L4	63
	61.8	224.7	22.6	0.9	2810	TH25 2 90B5	TM 90 L4	61
	63.4	219.2	22.1	2.0	6320	TH35 2 90B5	TM 90 L4	65
	69.6	199.7	20.1	1.5	4500	TH30 2 90B5	TM 90 L4	63
	71.8	193.4	19.5	1.0	2760	TH25 2 90B5	TM 90 L4	61
	76.0	182.8	18.4	2.4	5450	TH35 2 90B5	TM 90 L4	65
	81.2	171.2	17.3	1.8	4200	TH30 2 90B5	TM 90 L4	63
	82.5	168.3	17.0	1.1	2560	TH25 2 90B5	TM 90 L4	61
	93.6	148.4	15.0	2.0	3850	TH30 2 90B5	TM 90 L4	63
	94.0	147.9	14.9	1.2	2450	TH25 2 90B5	TM 90 L4	61
	96.9	143.4	14.4	2.8	5050	TH35 2 90B5	TM 90 L4	65
	110.8	125.4	12.6	2.1	3750	TH30 2 90B5	TM 90 L4	63
116.6	119.2	12.0	1.4	2350	TH25 2 90B5	TM 90 L4	61	
123.8	112.2	11.3	0.8	1480	TH20 2 90B5	TM 90 L4	59	
131.1	105.9	10.7	2.3	3600	TH30 2 90B5	TM 90 L4	63	
135.4	102.6	10.3	1.5	2230	TH25 2 90B5	TM 90 L4	61	
153.0	90.8	9.2	2.5	3500	TH30 2 90B5	TM 90 L4	63	
155.6	89.3	9.0	1.7	2100	TH25 2 90B5	TM 90 L4	61	
157.5	88.2	8.9	0.9	1450	TH20 2 90B5	TM 90 L4	59	

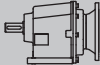


P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>1.5</b>	176.5	78.7	7.9	3.1	2950	TH30 2 90B5	TM 90 L4	63
	177.2	78.4	7.9	1.9	1980	TH25 2 90B5	TM 90 L4	61
	182.3	76.2	7.7	0.9	1450	TH20 2 90B5	TM 90 L4	59
	212.4	65.4	6.6	2.1	1890	TH25 2 90B5	TM 90 L4	61
	229.5	60.5	6.1	3.4	2900	TH30 2 90B5	TM 90 L4	63
	254.4	54.6	5.5	1.0	1400	TH20 2 90B5	TM 90 L4	59
	275.4	50.4	5.1	4.0	2850	TH30 2 90B5	TM 90 L4	63
	281.1	49.4	5.0	2.1	1710	TH25 2 90B5	TM 90 L4	61
	306.3	45.4	4.6	1.1	1400	TH20 2 90B5	TM 90 L4	59
	365.5	38.0	3.8	2.3	1650	TH25 2 90B5	TM 90 L4	61
	388.9	35.7	3.6	1.2	1400	TH20 2 90B5	TM 90 L4	59
	424.9	32.7	6.6	2.8	1520	TH25 2 90B5	TM 90 S2	61
	508.7	27.3	5.5	1.4	1150	TH20 2 90B5	TM 90 S2	59
	562.2	24.7	5.0	2.9	1360	TH25 2 90B5	TM 90 S2	61
	612.5	22.7	4.6	1.5	1150	TH20 2 90B5	TM 90 S2	59
	731.1	19.0	3.8	3.3	1250	TH25 2 90B5	TM 90 S2	61
	777.8	17.9	3.6	2.0	1100	TH20 2 90B5	TM 90 S2	59
	<b>2.2</b>	5.3	3851.0	170.1	1.1	31000	TH80 3 112B5	TM 112 M6
5.9		3448.6	152.3	1.2	31000	TH80 3 112B5	TM 112 M6	73
5.9		3476.6	153.5	0.7	25000	TH60 3 112B5	TM 112 M6	71
6.5		3113.3	137.5	1.3	31000	TH80 3 112B5	TM 112 M6	73
6.5		3143.8	138.8	0.7	25000	TH60 3 112B5	TM 112 M6	71
7.1		2862.3	126.4	0.8	25000	TH60 3 112B5	TM 112 M6	71
7.2		2829.6	125.0	1.5	31000	TH80 3 112B5	TM 112 M6	73
7.8		2620.9	115.8	0.9	25000	TH60 3 112B5	TM 112 M6	71
8.2		2475.6	170.1	1.7	31000	TH80 3 100B5	TM 100 L4	73
8.2		2491.7	171.2	0.9	25000	TH60 3 100B5	TM 100 L4	71
9.1		2235.0	153.5	1.0	25000	TH60 3 100B5	TM 100 L4	71
9.2		2217.0	152.3	1.9	31000	TH80 3 100B5	TM 100 L4	73
10.1		2021.0	138.8	1.1	25000	TH60 3 100B5	TM 100 L4	71
10.2		2001.4	137.5	2.1	31000	TH80 3 100B5	TM 100 L4	73
11.1		1840.0	126.4	1.2	25000	TH60 3 100B5	TM 100 L4	71
11.2		1819.1	125.0	2.3	31000	TH80 3 100B5	TM 100 L4	73
12.1		1684.9	115.8	1.3	25000	TH60 3 100B5	TM 100 L4	71
12.3		1662.7	114.2	2.5	31000	TH80 3 100B5	TM 100 L4	73
12.7		1608.2	110.5	0.9	16000	TH50 3 100B5	TM 100 L4	69
13.1		1550.4	106.5	1.5	25000	TH60 3 100B5	TM 100 L4	71
13.3	1527.2	104.9	2.8	31000	TH80 3 100B5	TM 100 L4	73	




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<b>2.2</b>	13.8	1474.2	101.3	0.9	16000	TH50 3 100B5	TM 100 L4	69
	14.6	1398.9	96.1	1.6	25000	TH60 3 100B5	TM 100 L4	71
	15.3	1330.2	91.4	3.2	31000	TH80 3 100B5	TM 100 L4	73
	15.3	1336.0	91.8	1.0	16000	TH50 3 100B5	TM 100 L4	69
	16.0	1273.6	87.5	1.7	25000	TH60 3 100B5	TM 100 L4	71
	16.7	1217.6	83.7	1.1	16000	TH50 3 100B5	TM 100 L4	69
	17.5	1166.2	80.1	2.0	25000	TH60 3 100B5	TM 100 L4	71
	18.0	1130.2	77.7	3.7	31000	TH80 3 100B5	TM 100 L4	73
	20.2	1008.8	69.3	1.6	16000	TH50 3 100B5	TM 100 L4	69
	20.5	991.7	68.1	2.3	25000	TH60 3 100B5	TM 100 L4	71
	21.0	968.2	66.5	0.9	10000	TH40 3 100B5	TM 100 L4	67
	23.2	877.1	60.3	1.0	10000	TH40 3 100B5	TM 100 L4	67
	23.8	855.9	58.8	2.7	25000	TH60 3 100B5	TM 100 L4	71
	24.5	833.3	57.2	1.9	16000	TH50 3 100B5	TM 100 L4	69
	27.9	731.5	50.3	1.2	10000	TH40 3 100B5	TM 100 L4	67
	29.0	701.6	48.2	2.2	15500	TH50 3 100B5	TM 100 L4	69
	30.2	675.5	46.4	3.4	23800	TH60 3 100B5	TM 100 L4	71
	32.9	620.1	42.6	1.4	10000	TH40 3 100B5	TM 100 L4	67
	33.1	615.2	42.3	0.8	7000	TH35 3 100B5	TM 100 L4	65
	34.0	599.2	41.2	2.6	14300	TH50 3 100B5	TM 100 L4	69
	35.5	573.7	39.4	1.4	10000	TH40 3 100B5	TM 100 L4	67
	36.8	553.6	38.0	2.3	13800	TH50 2 100B5	TM 100 L4	69
	37.1	550.0	37.8	1.5	10000	TH40 2 100B5	TM 100 L4	67
	38.2	533.0	36.6	0.8	7000	TH35 3 100B5	TM 100 L4	65
	40.8	499.3	34.3	0.9	7000	TH35 2 100B5	TM 100 L4	65
	41.0	496.6	34.1	2.6	13700	TH50 2 100B5	TM 100 L4	69
	41.8	487.8	33.5	1.7	10000	TH40 2 100B5	TM 100 L4	67
	45.4	449.1	30.9	2.9	13600	TH50 2 100B5	TM 100 L4	69
	46.2	441.5	30.3	1.0	7000	TH35 2 100B5	TM 100 L4	65
	46.6	437.0	30.0	1.8	10000	TH40 2 100B5	TM 100 L4	67
	48.7	418.5	28.8	0.7	5000	TH30 2 100B5	TM 100 L4	63
	49.8	408.8	28.1	3.1	13400	TH50 2 100B5	TM 100 L4	69
	51.6	394.6	27.1	2.0	10000	TH40 2 100B5	TM 100 L4	67
	51.7	394.2	27.1	1.2	7000	TH35 2 100B5	TM 100 L4	65
	54.4	374.4	25.7	3.4	12600	TH50 2 100B5	TM 100 L4	69
	56.8	358.7	24.6	2.2	10000	TH40 2 100B5	TM 100 L4	67
	57.4	354.8	24.4	1.3	6650	TH35 2 100B5	TM 100 L4	65
	58.8	346.7	23.8	0.9	4700	TH30 2 100B5	TM 100 L4	63
	62.0	328.8	22.6	2.4	10000	TH40 2 100B5	TM 100 L4	67
	63.4	321.4	22.1	1.4	6320	TH35 2 100B5	TM 100 L4	65
68.4	298.0	20.5	2.6	10000	TH40 2 100B5	TM 100 L4	67	

P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]				
<b>2.2</b>	69.6	292.9	20.1	1.0	4500	TH30 2 100B5	TM 100 L4	63	
	75.0	271.6	18.7	2.8	10000	TH40 2 100B5	TM 100 L4	67	
	76.0	268.1	18.4	1.6	5450	TH35 2 100B5	TM 100 L4	65	
	81.2	251.1	17.3	1.2	4200	TH30 2 100B5	TM 100 L4	63	
	89.1	228.7	15.7	3.4	9560	TH40 2 100B5	TM 100 L4	67	
	93.6	217.6	15.0	1.4	3850	TH30 2 100B5	TM 100 L4	63	
	96.9	210.3	14.4	1.9	5050	TH35 2 100B5	TM 100 L4	65	
	110.8	183.9	12.6	1.4	3750	TH30 2 100B5	TM 100 L4	63	
	112.5	181.2	12.4	2.3	4710	TH35 2 100B5	TM 100 L4	65	
	131.1	155.4	10.7	1.6	3600	TH30 2 100B5	TM 100 L4	63	
	134.9	151.1	10.4	2.8	4350	TH35 2 100B5	TM 100 L4	65	
	153.0	133.2	9.2	1.7	3500	TH30 2 100B5	TM 100 L4	63	
	159.1	128.1	8.8	3.1	4160	TH35 2 100B5	TM 100 L4	65	
	176.5	115.4	7.9	2.1	2950	TH30 2 100B5	TM 100 L4	63	
	229.5	88.8	6.1	2.3	2900	TH30 2 100B5	TM 100 L4	63	
	275.4	74.0	5.1	2.7	2850	TH30 2 100B5	TM 100 L4	63	
	388.4	52.5	3.6	2.8	2850	TH30 2 100B5	TM 100 L4	63	
	424.9	48.0	6.6	1.9	1520	TH25 2 90B5	TM 90 L2	61	
	459.0	44.4	6.1	3.4	2130	TH30 2 90B5	TM 90 L2	63	
	508.7	40.1	5.5	1.0	1150	TH20 2 90B5	TM 90 L2	59	
	550.8	37.0	5.1	3.8	1990	TH30 2 90B5	TM 90 L2	63	
	562.2	36.2	5.0	2.0	1360	TH25 2 90B5	TM 90 L2	61	
	612.5	33.3	4.6	1.0	1150	TH20 2 90B5	TM 90 L2	59	
	731.1	27.9	3.8	2.2	1250	TH25 2 90B5	TM 90 L2	61	
	776.8	26.2	3.6	4.5	1830	TH30 2 90B5	TM 90 L2	63	
	777.8	26.2	3.6	1.4	1100	TH20 2 90B5	TM 90 L2	59	
	<b>3.7</b>	5.3	6476.6	170.1	0.7	31000	TH80 3 132B5	TM 132 S6	73
		5.9	5800.0	152.3	0.7	31000	TH80 3 132B5	TM 132 S6	73
		6.5	5236.1	137.5	0.8	31000	TH80 3 132B5	TM 132 S6	73
		7.2	4758.9	125.0	0.9	31000	TH80 3 132B5	TM 132 S6	73
7.9		4350.0	114.2	1.0	31000	TH80 3 132B5	TM 132 S6	73	
8.2		4163.5	170.1	1.1	31000	TH80 3 112B5	TM 112 M4	73	
9.2		3728.5	152.3	1.1	31000	TH80 3 112B5	TM 112 M4	73	
10.2		3366.0	137.5	1.2	31000	TH80 3 112B5	TM 112 M4	73	
11.2		3059.3	125.0	1.4	31000	TH80 3 112B5	TM 112 M4	73	
12.1		2833.6	115.8	0.8	25000	TH60 3 112B5	TM 112 M4	71	
12.3		2796.4	114.2	1.5	31000	TH80 3 112B5	TM 112 M4	73	
13.1		2607.5	106.5	0.9	25000	TH60 3 112B5	TM 112 M4	71	
13.3		2568.5	104.9	1.6	31000	TH80 3 112B5	TM 112 M4	73	
14.6		2352.7	96.1	0.9	25000	TH60 3 112B5	TM 112 M4	71	

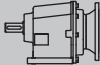


P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>3.7</b>	15.3	2237.1	91.4	1.9	31000	TH80 3 112B5	TM 112 M4	73
	16.0	2142.0	87.5	1.0	25000	TH60 3 112B5	TM 112 M4	71
	17.5	1961.3	80.1	1.2	25000	TH60 3 112B5	TM 112 M4	71
	18.0	1900.8	77.7	2.2	31000	TH80 3 112B5	TM 112 M4	73
	20.2	1696.7	69.3	0.9	16000	TH50 3 112B5	TM 112 M4	69
	20.5	1667.8	68.1	1.4	25000	TH60 3 112B5	TM 112 M4	71
	21.0	1635.3	66.8	2.6	31000	TH80 3 112B5	TM 112 M4	73
	23.8	1439.5	58.8	1.6	25000	TH60 3 112B5	TM 112 M4	71
	24.5	1401.4	57.2	1.1	16000	TH50 3 112B5	TM 112 M4	69
	29.0	1180.0	48.2	1.3	15500	TH50 3 112B5	TM 112 M4	69
	30.2	1136.1	46.4	2.0	23800	TH60 3 112B5	TM 112 M4	71
	32.9	1042.9	42.6	0.8	10000	TH40 3 112B5	TM 112 M4	67
	34.0	1007.7	41.2	1.5	14300	TH50 3 112B5	TM 112 M4	69
	35.4	966.9	39.5	2.4	22800	TH60 3 112B5	TM 112 M4	71
	35.5	964.9	39.4	0.8	10000	TH40 3 112B5	TM 112 M4	67
	36.8	931.1	38.0	1.4	13800	TH50 2 112B5	TM 112 M4	69
	37.1	925.0	37.8	0.9	10000	TH40 2 112B5	TM 112 M4	67
	38.3	895.6	36.6	2.6	22150	TH60 3 112B5	TM 112 M4	71
	41.0	835.2	34.1	1.6	13700	TH50 2 112B5	TM 112 M4	69
	41.8	820.4	33.5	1.0	10000	TH40 2 112B5	TM 112 M4	67
	43.7	784.9	32.1	2.4	21000	TH60 2 112B5	TM 112 M4	71
	45.4	755.2	30.9	1.7	13600	TH50 2 112B5	TM 112 M4	69
	46.6	734.9	30.0	1.1	10000	TH40 2 112B5	TM 112 M4	67
	48.8	702.9	28.7	2.7	19200	TH60 2 112B5	TM 112 M4	71
	49.8	687.6	28.1	1.8	13400	TH50 2 112B5	TM 112 M4	69
	51.6	663.6	27.1	1.2	10000	TH40 2 112B5	TM 112 M4	67
	54.0	634.6	25.9	3.2	18500	TH60 2 112B5	TM 112 M4	71
	54.4	629.6	25.7	2.0	12600	TH50 2 112B5	TM 112 M4	69
	56.8	603.3	24.6	1.3	10000	TH40 2 112B5	TM 112 M4	67
	59.2	579.4	23.7	2.2	11900	TH50 2 112B5	TM 112 M4	69
	59.4	576.8	23.6	3.5	17900	TH60 2 112B5	TM 112 M4	71
	62.0	553.0	22.6	1.4	10000	TH40 2 112B5	TM 112 M4	67
	63.4	540.6	22.1	0.8	6320	TH35 2 112B5	TM 112 M4	65
	64.0	535.4	21.9	2.4	11500	TH50 2 112B5	TM 112 M4	69
	68.4	501.2	20.5	1.6	10000	TH40 2 112B5	TM 112 M4	67
	74.0	463.1	18.9	2.7	11000	TH50 2 112B5	TM 112 M4	69
	75.0	456.8	18.7	1.7	10000	TH40 2 112B5	TM 112 M4	67
	76.0	450.8	18.4	1.0	5450	TH35 2 112B5	TM 112 M4	65
	89.1	384.6	15.7	2.0	9560	TH40 2 112B5	TM 112 M4	67
	93.5	366.4	15.0	3.7	9430	TH50 2 112B5	TM 112 M4	69
93.6	366.0	15.0	0.8	3850	TH30 2 112B5	TM 112 M4	63	

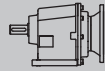
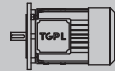

P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>3.7</b>	96.9	353.6	14.4	1.1	5050	TH35 2 112B5	TM 112 M4	65
	104.0	329.5	13.4	2.3	9100	TH40 2 112B5	TM 112 M4	67
	110.8	309.3	12.6	0.9	3750	TH30 2 112B5	TM 112 M4	63
	112.5	304.7	12.4	1.4	4710	TH35 2 112B5	TM 112 M4	65
	117.4	291.9	11.9	2.5	8150	TH40 2 112B5	TM 112 M4	67
	131.1	261.3	10.7	0.9	3600	TH30 2 112B5	TM 112 M4	63
	134.9	254.1	10.4	1.7	4350	TH35 2 112B5	TM 112 M4	65
	139.4	245.8	10.0	2.8	7560	TH40 2 112B5	TM 112 M4	67
	153.0	224.0	9.2	1.0	3500	TH30 2 112B5	TM 112 M4	63
	159.1	215.4	8.8	1.8	4160	TH35 2 112B5	TM 112 M4	65
	163.3	209.9	8.6	3.2	6680	TH40 2 112B5	TM 112 M4	67
	172.0	199.3	8.1	1.9	3980	TH35 2 112B5	TM 112 M4	65
	176.5	194.1	7.9	1.3	2950	TH30 2 112B5	TM 112 M4	63
	189.1	181.2	7.4	3.4	6050	TH40 2 112B5	TM 112 M4	67
	199.4	171.9	7.0	2.1	3806	TH35 2 112B5	TM 112 M4	65
	202.9	168.9	6.9	3.6	5980	TH40 2 112B5	TM 112 M4	67
	229.3	149.5	6.1	2.2	3550	TH35 2 112B5	TM 112 M4	65
	229.5	149.3	6.1	1.4	2900	TH30 2 112B5	TM 112 M4	63
	248.1	138.2	5.6	3.9	5650	TH40 2 112B5	TM 112 M4	67
	275.4	124.4	5.1	1.6	2850	TH30 2 112B5	TM 112 M4	63
	279.6	122.6	5.0	2.4	3210	TH35 2 112B5	TM 112 M4	65
	319.1	107.4	4.4	4.5	5360	TH40 2 112B5	TM 112 M4	67
	382.2	89.7	3.7	3.0	3100	TH35 2 112B5	TM 112 M4	65
	388.4	88.2	3.6	1.7	2850	TH30 2 112B5	TM 112 M4	63
	398.8	85.9	7.0	3.5	2650	TH35 2 100B5	TM 100 L2	65
	458.6	74.7	6.1	4.0	2050	TH35 2 100B5	TM 100 L2	65
	459.0	74.7	6.1	2.0	2130	TH30 2 100B5	TM 100 L2	63
	550.8	62.2	5.1	2.2	1990	TH30 2 100B5	TM 100 L2	63
	559.3	61.3	5.0	4.9	1850	TH35 2 100B5	TM 100 L2	65
	776.8	44.1	3.6	2.7	1830	TH30 2 100B5	TM 100 L2	63
<b>5.5</b>	7.9	6466.2	114.2	0.7	31000	TH80 3 132B5	TM 132 M6	73
	8.2	6189.0	170.1	0.7	31000	TH80 3 132B5	TM 132 S4	73
	9.2	5542.4	152.3	0.8	31000	TH80 3 132B5	TM 132 S4	73
	10.2	5003.6	137.5	0.8	31000	TH80 3 132B5	TM 132 S4	73
	11.2	4547.6	125.0	0.9	31000	TH80 3 132B5	TM 132 S4	73
	12.3	4156.8	114.2	1.0	31000	TH80 3 132B5	TM 132 S4	73
	13.3	3818.1	104.9	1.1	31000	TH80 3 132B5	TM 132 S4	73
	15.3	3325.5	91.4	1.3	31000	TH80 3 132B5	TM 132 S4	73
	17.5	2915.5	80.1	0.8	25000	TH60 3 132B5	TM 132 S4	71
	18.0	2825.5	77.7	1.5	31000	TH80 3 132B5	TM 132 S4	73


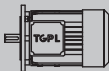

P <sub>1n</sub> [kW]	n <sub>2</sub> [RPM]	M <sub>2n</sub> [Nm]	i	f <sub>s</sub>	Fr <sub>2</sub> [N]			
<b>5.5</b>	20.5	2479.2	68.1	0.9	25000	TH60 3 132B5	TM 132 S4	71
	21.0	2430.9	66.8	1.7	31000	TH80 3 132B5	TM 132 S4	73
	23.3	2190.9	60.2	1.9	31000	TH80 3 132B5	TM 132 S4	73
	23.8	2139.9	58.8	1.1	25000	TH60 3 132B5	TM 132 S4	71
	27.4	1861.5	51.2	2.3	31000	TH80 3 132B5	TM 132 S4	73
	29.0	1754.0	48.2	0.9	15500	TH50 3 132B5	TM 132 S4	69
	30.2	1688.7	46.4	1.4	23800	TH60 3 132B5	TM 132 S4	71
	31.8	1601.5	44.0	2.6	31000	TH80 3 132B5	TM 132 S4	73
	34.0	1498.0	41.2	1.0	14300	TH50 3 132B5	TM 132 S4	69
	35.4	1437.2	39.5	1.6	22800	TH60 3 132B5	TM 132 S4	71
	36.8	1384.1	38.0	0.9	13800	TH50 2 132B5	TM 132 S4	69
	38.3	1331.3	36.6	1.7	22150	TH60 3 132B5	TM 132 S4	71
	39.2	1300.1	35.7	3.2	31000	TH80 3 132B5	TM 132 S4	73
	41.0	1241.5	34.1	1.0	13700	TH50 2 132B5	TM 132 S4	69
	42.4	1201.0	33.0	3.5	30000	TH80 2 132B5	TM 132 S4	73
	43.7	1166.8	32.1	1.6	21000	TH60 2 132B5	TM 132 S4	71
	45.4	1122.7	30.9	1.2	13600	TH50 2 132B5	TM 132 S4	69
	47.4	1075.1	29.6	3.8	29000	TH80 2 132B5	TM 132 S4	73
	48.8	1044.9	28.7	1.8	19200	TH60 2 132B5	TM 132 S4	71
	49.8	1022.1	28.1	1.2	13400	TH50 2 132B5	TM 132 S4	69
	51.6	986.4	27.1	0.8	10000	TH40 2 132B5	TM 132 S4	67
	54.4	935.9	25.7	1.4	12600	TH50 2 132B5	TM 132 S4	69
	56.8	896.7	24.6	0.9	10000	TH40 2 132B5	TM 132 S4	67
	59.2	861.2	23.7	1.5	11900	TH50 2 132B5	TM 132 S4	69
	59.4	857.4	23.6	2.4	17900	TH60 2 132B5	TM 132 S4	71
	62.0	822.0	22.6	1.0	10000	TH40 2 132B5	TM 132 S4	67
	64.0	795.9	21.9	1.6	11500	TH50 2 132B5	TM 132 S4	69
	65.0	783.7	21.5	2.6	17200	TH60 2 132B5	TM 132 S4	71
	68.4	745.0	20.5	1.0	10000	TH40 2 132B5	TM 132 S4	67
	70.8	719.8	19.8	2.8	15600	TH60 2 132B5	TM 132 S4	71
	74.0	688.5	18.9	1.8	11000	TH50 2 132B5	TM 132 S4	69
	75.0	679.0	18.7	1.1	10000	TH40 2 132B5	TM 132 S4	67
	81.3	626.9	17.2	3.2	13800	TH60 2 132B5	TM 132 S4	71
	89.1	571.7	15.7	1.4	9560	TH40 2 132B5	TM 132 S4	67
	93.5	544.6	15.0	2.5	9430	TH50 2 132B5	TM 132 S4	69
	104.0	489.9	13.4	1.5	9100	TH40 2 132B5	TM 132 S4	67
	108.4	470.1	12.9	3.0	8530	TH50 2 132B5	TM 132 S4	69
	117.4	433.9	11.9	1.7	8150	TH40 2 132B5	TM 132 S4	67
	137.3	371.0	10.2	3.5	7710	TH50 2 132B5	TM 132 S4	69
	139.4	365.4	10.0	1.9	7560	TH40 2 132B5	TM 132 S4	67
163.3	312.0	8.6	2.1	6680	TH40 2 132B5	TM 132 S4	67	




P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>5.5</b>	189.1	269.4	7.4	2.3	6050	TH40 2 132B5	TM 132 S4	67
	202.9	251.1	6.9	2.4	5980	TH40 2 132B5	TM 132 S4	67
	248.1	205.4	5.6	2.6	5650	TH40 2 132B5	TM 132 S4	67
	319.1	159.7	4.4	3.0	5360	TH40 2 132B5	TM 132 S4	67
	326.5	156.0	8.6	3.6	5100	TH40 2 132B5	TM 132 SA2	67
	378.3	134.7	7.4	3.8	4900	TH40 2 132B5	TM 132 SA2	67
	405.8	125.5	6.9	4.0	4750	TH40 2 132B5	TM 132 SA2	67
	496.1	102.7	5.6	4.3	4360	TH40 2 132B5	TM 132 SA2	67
	638.2	79.8	4.4	4.9	4010	TH40 2 132B5	TM 132 SA2	67
	<b>7.5</b>	12.3	5668.4	114.2	0.7	31000	TH80 3 132B5	TM 132 M4
13.3		5206.5	104.9	0.8	31000	TH80 3 132B5	TM 132 M4	73
15.3		4534.7	91.4	0.9	31000	TH80 3 132B5	TM 132 M4	73
18.0		3853.0	77.7	1.1	31000	TH80 3 132B5	TM 132 M4	73
21.0		3314.8	66.8	1.3	31000	TH80 3 132B5	TM 132 M4	73
23.3		2987.6	60.2	1.4	31000	TH80 3 132B5	TM 132 M4	73
23.8		2918.0	58.8	0.8	25000	TH60 3 132B5	TM 132 M4	71
27.4		2538.5	51.2	1.7	31000	TH80 3 132B5	TM 132 M4	73
30.2		2302.8	46.4	1.0	23800	TH60 3 132B5	TM 132 M4	71
31.8		2183.9	44.0	1.9	31000	TH80 3 132B5	TM 132 M4	73
35.4		1959.8	39.5	1.2	22800	TH60 3 132B5	TM 132 M4	71
38.3		1815.4	36.6	1.3	22150	TH60 3 132B5	TM 132 M4	71
39.2		1772.9	35.7	2.4	31000	TH80 3 132B5	TM 132 M4	73
42.4		1637.7	33.0	2.5	30000	TH80 2 132B5	TM 132 M4	73
43.7		1591.1	32.1	1.2	21000	TH60 2 132B5	TM 132 M4	71
45.4		1530.9	30.9	0.8	13600	TH50 2 132B5	TM 132 M4	69
47.4		1466.1	29.6	2.8	29000	TH80 2 132B5	TM 132 M4	73
48.8		1424.9	28.7	1.3	19200	TH60 2 132B5	TM 132 M4	71
49.8		1393.8	28.1	0.9	13400	TH50 2 132B5	TM 132 M4	69
52.5		1323.3	26.7	3.0	28200	TH80 2 132B5	TM 132 M4	73
54.0		1286.3	25.9	1.6	18500	TH60 2 132B5	TM 132 M4	71
54.4		1276.3	25.7	1.0	12600	TH50 2 132B5	TM 132 M4	69
57.8		1202.4	24.2	3.3	27500	TH80 2 132B5	TM 132 M4	73
59.2		1174.4	23.7	1.1	11900	TH50 2 132B5	TM 132 M4	69
59.4		1169.1	23.6	1.7	17900	TH60 2 132B5	TM 132 M4	71
63.2		1098.8	22.1	3.5	25500	TH80 2 132B5	TM 132 M4	73
64.0		1085.3	21.9	1.2	11500	TH50 2 132B5	TM 132 M4	69
65.0		1068.7	21.5	1.9	17200	TH60 2 132B5	TM 132 M4	71
68.9		1009.0	20.3	3.9	24100	TH80 2 132B5	TM 132 M4	73









<b>P1n</b> [kW]	<b>n2</b> [RPM]	<b>M2n</b> [Nm]	<b>i</b>	<b>fs</b>	<b>Fr<sub>2</sub></b> [N]			
<b>7.5</b>	70.8	981.6	19.8	2.1	15600	TH60 2 132B5	TM 132 M4	71
	74.0	938.8	18.9	1.3	11000	TH50 2 132B5	TM 132 M4	69
	75.0	925.9	18.7	0.8	10000	TH40 2 132B5	TM 132 M4	67
	81.3	854.9	17.2	2.4	13800	TH60 2 132B5	TM 132 M4	71
	89.1	779.6	15.7	1.0	9560	TH40 2 132B5	TM 132 M4	67
	93.5	742.7	15.0	1.8	9430	TH50 2 132B5	TM 132 M4	69
	95.6	726.4	14.6	2.8	12100	TH60 2 132B5	TM 132 M4	71
	104.0	667.9	13.4	1.1	9100	TH40 2 132B5	TM 132 M4	67
	108.4	641.0	12.9	2.2	8530	TH50 2 132B5	TM 132 M4	69
	117.4	591.7	11.9	3.6	9350	TH60 2 132B5	TM 132 M4	71
	117.4	591.7	11.9	1.3	8150	TH40 2 132B5	TM 132 M4	67
	137.3	505.9	10.2	2.6	7710	TH50 2 132B5	TM 132 M4	69
	138.2	502.8	10.1	4.1	8750	TH60 2 132B5	TM 132 M4	71
	139.4	498.2	10.0	1.4	7560	TH40 2 132B5	TM 132 M4	67
	160.6	432.6	8.7	4.7	7680	TH60 2 132B5	TM 132 M4	71
	161.4	430.5	8.7	2.9	7540	TH50 2 132B5	TM 132 M4	69
	163.3	425.5	8.6	1.6	6680	TH40 2 132B5	TM 132 M4	67
	174.2	398.8	8.0	3.0	7060	TH50 2 132B5	TM 132 M4	69
	189.1	367.3	7.4	1.7	6050	TH40 2 132B5	TM 132 M4	67
	197.8	351.2	7.1	5.2	7400	TH60 2 132B5	TM 132 M4	71
	201.7	344.4	6.9	3.2	6850	TH50 2 132B5	TM 132 M4	69
	202.9	342.4	6.9	1.8	5980	TH40 2 132B5	TM 132 M4	67
	240.1	289.3	5.8	5.8	7350	TH60 2 132B5	TM 132 M4	71
	248.1	280.1	5.6	1.9	5650	TH40 2 132B5	TM 132 M4	67
	248.2	279.9	5.6	3.3	6550	TH50 2 132B5	TM 132 M4	69
	306.4	226.7	4.6	6.9	7100	TH60 2 132B5	TM 132 M4	71
	319.1	217.7	4.4	2.2	5360	TH40 2 132B5	TM 132 M4	67
	322.7	215.3	4.3	3.5	6100	TH50 2 132B5	TM 132 M4	69
	378.3	183.7	7.4	2.8	4900	TH40 2 132B5	TM 132 SB2	67
	405.8	171.2	6.9	2.9	4750	TH40 2 132B5	TM 132 SB2	67
	496.1	140.0	5.6	3.2	4360	TH40 2 132B5	TM 132 SB2	67
	638.2	108.9	4.4	3.6	4010	TH40 2 132B5	TM 132 SB2	67

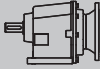


P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>9.3</b>	15.3	5623.0	91.4	0.8	31000	TH80 3 160B5	TM 160 MA4	73
	18.0	4777.7	77.7	0.9	31000	TH80 3 160B5	TM 160 MA4	73
	21.0	4110.4	66.8	1.0	31000	TH80 3 160B5	TM 160 MA4	73
	23.3	3704.6	60.2	1.1	31000	TH80 3 160B5	TM 160 MA4	73
	27.4	3147.7	51.2	1.3	31000	TH80 3 160B5	TM 160 MA4	73
	30.2	2855.5	46.4	0.8	23800	TH60 3 160B5	TM 160 MA4	71
	31.8	2708.0	44.0	1.6	31000	TH80 3 160B5	TM 160 MA4	73
	35.4	2430.2	39.5	0.9	22800	TH60 3 160B5	TM 160 MA4	71
	38.3	2251.1	36.6	1.0	22150	TH60 3 160B5	TM 160 MA4	71
	39.2	2198.4	35.7	1.9	31000	TH80 3 160B5	TM 160 MA4	73
	42.4	2030.7	33.0	2.0	30000	TH80 2 160B5	TM 160 MA4	73
	43.7	1973.0	32.1	1.0	21000	TH60 2 160B5	TM 160 MA4	71
	47.4	1818.0	29.6	2.2	29000	TH80 2 160B5	TM 160 MA4	73
	48.8	1766.8	28.7	1.1	19200	TH60 2 160B5	TM 160 MA4	71
	52.5	1640.8	26.7	2.5	28200	TH80 2 160B5	TM 160 MA4	73
	54.0	1595.1	25.9	1.3	18500	TH60 2 160B5	TM 160 MA4	71
	54.4	1582.6	25.7	0.8	12600	TH50 2 160B5	TM 160 MA4	69
	57.8	1491.0	24.2	2.7	27500	TH80 2 160B5	TM 160 MA4	73
	59.2	1456.2	23.7	0.9	11900	TH50 2 160B5	TM 160 MA4	69
	59.4	1449.7	23.6	1.4	17900	TH60 2 160B5	TM 160 MA4	71
	63.2	1362.5	22.1	2.9	25500	TH80 2 160B5	TM 160 MA4	73
	64.0	1345.7	21.9	0.9	11500	TH50 2 160B5	TM 160 MA4	69
	65.0	1325.1	21.5	1.5	17200	TH60 2 160B5	TM 160 MA4	71
	68.9	1251.1	20.3	3.2	24100	TH80 2 160B5	TM 160 MA4	73
	70.8	1217.2	19.8	1.7	15600	TH60 2 160B5	TM 160 MA4	71
	74.0	1164.1	18.9	1.1	10300	TH50 2 160B5	TM 160 MA4	69
	77.8	1107.6	18.0	3.5	23600	TH80 2 160B5	TM 160 MA4	73
	81.3	1060.1	17.2	1.9	13800	TH60 2 160B5	TM 160 MA4	71
	93.5	920.9	15.0	1.5	9430	TH50 2 160B5	TM 160 MA4	69
	95.6	900.7	14.6	2.2	12100	TH60 2 160B5	TM 160 MA4	71
	108.4	794.9	12.9	1.8	8530	TH50 2 160B5	TM 160 MA4	69
	117.4	733.8	11.9	2.9	9350	TH60 2 160B5	TM 160 MA4	71
	137.3	627.3	10.2	2.1	7710	TH50 2 160B5	TM 160 MA4	69
	138.2	623.5	10.1	3.3	8750	TH60 2 160B5	TM 160 MA4	71
	160.6	536.4	8.7	3.8	7680	TH60 2 160B5	TM 160 MA4	71
	161.4	533.9	8.7	2.3	7540	TH50 2 160B5	TM 160 MA4	69
174.2	494.5	8.0	2.4	7060	TH50 2 160B5	TM 160 MA4	69	
201.7	427.1	6.9	2.6	6850	TH50 2 160B5	TM 160 MA4	69	
248.2	347.0	5.6	2.7	6550	TH50 2 160B5	TM 160 MA4	69	
322.7	266.9	4.3	2.8	6100	TH50 2 160B5	TM 160 MA4	69	
326.5	263.8	8.6	2.1	5100	TH40 2 132B5	TM 132 M2	67	

P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>9.3</b>	378.3	227.7	7.4	2.2	4900	TH40 2 132B5	TM 132 M2	67
	405.8	212.3	6.9	2.3	4750	TH40 2 132B5	TM 132 M2	67
	496.1	173.6	5.6	2.6	4360	TH40 2 132B5	TM 132 M2	67
	638.2	135.0	4.4	2.9	4010	TH40 2 132B5	TM 132 M2	67
<b>11</b>	14.9	6816.1	60.2	0.6	31000	TH80 3 160B5	TM 160 L6	73
	17.6	5791.5	51.2	0.7	31000	TH80 3 160B5	TM 160 L6	73
	18.0	5651.1	77.7	0.7	31000	TH80 3 160B5	TM 160 M4	73
	21.0	4861.8	66.8	0.9	31000	TH80 3 160B5	TM 160 M4	73
	23.3	4381.8	60.2	1.0	31000	TH80 3 160B5	TM 160 M4	73
	27.4	3723.1	51.2	1.1	31000	TH80 3 160B5	TM 160 M4	73
	31.8	3203.1	44.0	1.3	31000	TH80 3 160B5	TM 160 M4	73
	35.4	2874.4	39.5	0.8	22800	TH60 3 160B5	TM 160 M4	71
	38.3	2662.6	36.6	0.9	22150	TH60 3 160B5	TM 160 M4	71
	39.2	2600.3	35.7	1.6	31000	TH80 3 160B5	TM 160 M4	73
	42.4	2402.0	33.0	1.7	30000	TH80 2 160B5	TM 160 M4	73
	43.7	2333.6	32.1	0.8	21000	TH60 2 160B5	TM 160 M4	71
	47.4	2150.3	29.6	1.9	29000	TH80 2 160B5	TM 160 M4	73
	48.8	2089.8	28.7	0.9	19200	TH60 2 160B5	TM 160 M4	71
	52.5	1940.8	26.7	2.1	28200	TH80 2 160B5	TM 160 M4	73
	54.0	1886.6	25.9	1.1	18500	TH60 2 160B5	TM 160 M4	71
	57.8	1763.5	24.2	2.2	27500	TH80 2 160B5	TM 160 M4	73
	59.4	1714.7	23.6	1.2	17900	TH60 2 160B5	TM 160 M4	71
	63.2	1611.5	22.1	2.4	25500	TH80 2 160B5	TM 160 M4	73
	64.0	1591.7	21.9	0.8	11500	TH50 2 160B5	TM 160 M4	69
	65.0	1567.4	21.5	1.3	17200	TH60 2 160B5	TM 160 M4	71
	68.9	1479.8	20.3	2.7	24100	TH80 2 160B5	TM 160 M4	73
	70.8	1439.6	19.8	1.4	15600	TH60 2 160B5	TM 160 M4	71
	74.0	1376.9	18.9	0.9	11000	TH50 2 160B5	TM 160 M4	69
	77.8	1310.0	18.0	2.9	23600	TH80 2 160B5	TM 160 M4	73
	81.3	1253.9	17.2	1.6	13800	TH60 2 160B5	TM 160 M4	71
	91.5	1113.1	15.3	3.4	22800	TH80 2 160B5	TM 160 M4	73
	93.5	1089.3	15.0	1.2	9430	TH50 2 160B5	TM 160 M4	69
	95.6	1065.4	14.6	1.9	12100	TH60 2 160B5	TM 160 M4	71
	106.4	957.6	13.2	3.6	22100	TH80 2 160B5	TM 160 M4	73
	108.4	940.2	12.9	1.5	8530	TH50 2 160B5	TM 160 M4	69
	117.4	867.9	11.9	2.4	9350	TH60 2 160B5	TM 160 M4	71
137.3	742.0	10.2	1.7	7710	TH50 2 160B5	TM 160 M4	69	
138.2	737.4	10.1	2.8	8750	TH60 2 160B5	TM 160 M4	71	
160.6	634.4	8.7	3.2	7680	TH60 2 160B5	TM 160 M4	71	
161.4	631.5	8.7	2.0	7540	TH50 2 160B5	TM 160 M4	69	

P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>11</b>	174.2	584.9	8.0	2.1	7060	TH50 2 160B5	TM 160 M4	69
	197.8	515.0	7.1	3.6	7400	TH60 2 160B5	TM 160 M4	71
	201.7	505.2	6.9	2.2	6850	TH50 2 160B5	TM 160 M4	69
	248.2	410.5	5.6	2.3	6550	TH50 2 160B5	TM 160 M4	69
	322.7	315.7	4.3	2.4	6100	TH50 2 160B5	TM 160 M4	69
	348.4	292.5	8.0	3.3	6000	TH50 2 160B5	TM 160 MR2	69
	403.4	252.6	6.9	3.5	5620	TH50 2 160B5	TM 160 MR2	69
	496.5	205.2	5.6	3.7	5420	TH50 2 160B5	TM 160 MR2	69
	645.4	157.9	4.3	4.1	5250	TH50 2 160B5	TM 160 MR2	69
<b>15</b>	20.4	6794.4	44.0	0.6	31000	TH80 3 180B5	TM 180 L6	73
	23.3	5975.1	60.2	0.7	31000	TH80 3 160B5	TM 160 L4	73
	27.4	5076.9	51.2	0.8	31000	TH80 3 160B5	TM 160 L4	73
	31.8	4367.8	44.0	1.0	31000	TH80 3 160B5	TM 160 L4	73
	39.2	3545.9	35.7	1.2	31000	TH80 3 160B5	TM 160 L4	73
	42.4	3275.4	33.0	1.3	30000	TH80 2 160B5	TM 160 L4	73
	47.4	2932.2	29.6	1.4	29000	TH80 2 160B5	TM 160 L4	73
	52.5	2646.5	26.7	1.5	28200	TH80 2 160B5	TM 160 L4	73
	54.0	2572.7	25.9	0.8	18500	TH60 2 160B5	TM 160 L4	71
	57.8	2404.8	24.2	1.6	27500	TH80 2 160B5	TM 160 L4	73
	59.4	2338.2	23.6	0.9	17900	TH60 2 160B5	TM 160 L4	71
	63.2	2197.6	22.1	1.8	25500	TH80 2 160B5	TM 160 L4	73
	65.0	2137.3	21.5	1.0	17200	TH60 2 160B5	TM 160 L4	71
	68.9	2018.0	20.3	2.0	24100	TH80 2 160B5	TM 160 L4	73
	70.8	1963.2	19.8	1.0	15600	TH60 2 160B5	TM 160 L4	71
	77.8	1786.4	18.0	2.2	23600	TH80 2 160B5	TM 160 L4	73
	81.3	1709.8	17.2	1.2	13800	TH60 2 160B5	TM 160 L4	71
	91.5	1517.9	15.3	2.5	22800	TH80 2 160B5	TM 160 L4	73
	93.5	1485.4	15.0	0.9	9430	TH50 2 160B5	TM 160 L4	69
	95.6	1452.8	14.6	1.4	12100	TH60 2 160B5	TM 160 L4	71
	106.4	1305.8	13.2	2.7	22100	TH80 2 160B5	TM 160 L4	73
	108.4	1282.1	12.9	1.1	8530	TH50 2 160B5	TM 160 L4	69
	117.4	1183.5	11.9	1.8	9350	TH60 2 160B5	TM 160 L4	71
	118.1	1176.9	11.9	3.2	20400	TH80 2 160B5	TM 160 L4	73
	137.3	1011.8	10.2	1.3	7710	TH50 2 160B5	TM 160 L4	69
	138.2	1005.6	10.1	2.1	8750	TH60 2 160B5	TM 160 L4	71
	138.9	1000.0	10.1	3.5	19200	TH80 2 160B5	TM 160 L4	73
	160.6	865.1	8.7	2.3	7680	TH60 2 160B5	TM 160 L4	71
	161.4	861.1	8.7	1.4	7540	TH50 2 160B5	TM 160 L4	69
	161.5	860.3	8.7	4.2	17600	TH80 2 160B5	TM 160 L4	73
174.2	797.6	8.0	1.5	7060	TH50 2 160B5	TM 160 L4	69	

P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>15</b>	197.8	702.3	7.1	2.6	7400	TH60 2 160B5	TM 160 L4	71
	201.7	688.9	6.9	1.6	6850	TH50 2 160B5	TM 160 L4	69
	240.1	578.6	5.8	2.9	7350	TH60 2 160B5	TM 160 L4	71
	248.2	559.7	5.6	1.7	6550	TH50 2 160B5	TM 160 L4	69
	306.4	453.4	4.6	3.4	7100	TH60 2 160B5	TM 160 L4	71
	322.7	430.5	4.3	1.7	6100	TH50 2 160B5	TM 160 L4	69
	348.4	398.8	8.0	2.4	6000	TH50 2 160B5	TM 160 MB2	69
	403.4	344.4	6.9	2.6	5620	TH50 2 160B5	TM 160 MB2	69
	496.5	279.9	5.6	2.7	5420	TH50 2 160B5	TM 160 MB2	69
	645.4	215.3	4.3	3.0	5250	TH50 2 160B5	TM 160 MB2	69
<b>18.5</b>	27.4	6261.5	51.2	0.7	31000	TH80 3 180B5	TM 180 M4	73
	31.8	5387.0	44.0	0.8	31000	TH80 3 180B5	TM 180 M4	73
	39.2	4373.2	35.7	1.0	31000	TH80 3 180B5	TM 180 M4	73
	42.4	4039.7	33.0	1.0	30000	TH80 2 180B5	TM 180 M4	73
	47.4	3616.4	29.6	1.1	29000	TH80 2 180B5	TM 180 M4	73
	52.5	3264.0	26.7	1.2	28200	TH80 2 180B5	TM 180 M4	73
	57.8	2965.9	24.2	1.3	27500	TH80 2 180B5	TM 180 M4	73
	63.2	2710.3	22.1	1.4	25500	TH80 2 180B5	TM 180 M4	73
	65.0	2636.0	21.5	0.8	17200	TH60 2 180B5	TM 180 M4	71
	68.9	2488.8	20.3	1.6	24100	TH80 2 180B5	TM 180 M4	73
	70.8	2421.2	19.8	0.8	15600	TH60 2 180B5	TM 180 M4	71
	77.8	2203.2	18.0	1.7	23600	TH80 2 180B5	TM 180 M4	73
	81.3	2108.8	17.2	1.0	13800	TH60 2 180B5	TM 180 M4	71
	91.5	1872.0	15.3	2.0	22800	TH80 2 180B5	TM 180 M4	73
	95.6	1791.8	14.6	1.1	12100	TH60 2 180B5	TM 180 M4	71
	106.4	1610.5	13.2	2.2	22100	TH80 2 180B5	TM 180 M4	73
	117.4	1459.6	11.9	1.5	9350	TH60 2 180B5	TM 180 M4	71
	118.1	1451.5	11.9	2.6	20400	TH80 2 180B5	TM 180 M4	73
	138.2	1240.2	10.1	1.7	8750	TH60 2 180B5	TM 180 M4	71
	138.9	1233.3	10.1	2.8	19200	TH80 2 180B5	TM 180 M4	73
	160.6	1067.0	8.7	1.9	7680	TH60 2 180B5	TM 180 M4	71
	161.5	1061.1	8.7	3.4	17600	TH80 2 180B5	TM 180 M4	73
	197.8	866.2	7.1	2.1	7400	TH60 2 180B5	TM 180 M4	71
	198.9	861.4	7.0	4.1	16800	TH80 2 180B5	TM 180 M4	73
	240.1	713.6	5.8	2.3	7350	TH60 2 180B5	TM 180 M4	71
	241.5	709.6	5.8	4.4	16300	TH80 2 180B5	TM 180 M4	73
	274.6	623.9	10.2	1.8	6580	TH50 2 160B5	TM 160 L2	69
	276.3	620.1	10.1	3.2	7150	TH60 2 160B5	TM 160 L2	71
	306.4	559.2	4.6	2.8	7100	TH60 2 180B5	TM 180 M4	71
	308.1	556.1	4.5	4.9	14200	TH80 2 180B5	TM 180 M4	73

P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr <sub>2</sub> [N]			
<b>18.5</b>	321.2	533.5	8.7	3.3	6850	TH60 2 160B5	TM 160 L2	71
	322.7	531.0	8.7	1.9	6120	TH50 2 160B5	TM 160 L2	69
	348.4	491.9	8.0	2.0	6000	TH50 2 160B5	TM 160 L2	69
	395.7	433.1	7.1	3.6	6750	TH60 2 160B5	TM 160 L2	71
	403.4	424.8	6.9	2.1	5620	TH50 2 160B5	TM 160 L2	69
	480.3	356.8	5.8	3.9	5600	TH60 2 160B5	TM 160 L2	71
	496.5	345.2	5.6	2.2	5420	TH50 2 160B5	TM 160 L2	69
	612.8	279.6	4.6	4.2	5590	TH60 2 160B5	TM 160 L2	71
	645.4	265.5	4.3	2.4	5250	TH50 2 160B5	TM 160 L2	69
<b>22</b>	31.8	6406.1	44.0	0.7	31000	TH80 3 180B5	TM 180 L4	73
	39.2	5200.6	35.7	0.8	31000	TH80 3 180B5	TM 180 L4	73
	42.4	4803.9	33.0	0.9	30000	TH80 2 180B5	TM 180 L4	73
	47.4	4300.6	29.6	1.0	29000	TH80 2 180B5	TM 180 L4	73
	52.5	3881.6	26.7	1.0	28200	TH80 2 180B5	TM 180 L4	73
	57.8	3527.0	24.2	1.1	27500	TH80 2 180B5	TM 180 L4	73
	63.2	3223.1	22.1	1.2	25500	TH80 2 180B5	TM 180 L4	73
	68.9	2959.7	20.3	1.3	24100	TH80 2 180B5	TM 180 L4	73
	77.8	2620.1	18.0	1.5	23600	TH80 2 180B5	TM 180 L4	73
	81.3	2507.8	17.2	0.8	13800	TH60 2 180B5	TM 180 L4	71
	91.5	2226.2	15.3	1.7	22800	TH80 2 180B5	TM 180 L4	73
	95.6	2130.8	14.6	0.9	12100	TH60 2 180B5	TM 180 L4	71
	106.4	1915.2	13.2	1.8	22100	TH80 2 180B5	TM 180 L4	73
	117.4	1735.8	11.9	1.2	9350	TH60 2 180B5	TM 180 L4	71
	118.1	1726.2	11.9	2.2	20400	TH80 2 180B5	TM 180 L4	73
	138.2	1474.9	10.1	1.4	8750	TH60 2 180B5	TM 180 L4	71
	138.9	1466.7	10.1	2.4	19200	TH80 2 180B5	TM 180 L4	73
	160.6	1268.8	8.7	1.6	7680	TH60 2 180B5	TM 180 L4	71
	161.5	1261.8	8.7	2.9	17600	TH80 2 180B5	TM 180 L4	73
	197.8	1030.1	7.1	1.8	7400	TH60 2 180B5	TM 180 L4	71
	198.9	1024.4	7.0	3.5	16800	TH80 2 180B5	TM 180 L4	73
	240.1	848.6	5.8	2.0	7350	TH60 2 180B5	TM 180 L4	71
	241.5	843.9	5.8	3.7	16300	TH80 2 180B5	TM 180 L4	73
	276.3	737.4	10.1	2.7	7150	TH60 2 180B5	TM 180 M2	71
	306.4	665.1	4.6	2.3	7100	TH60 2 180B5	TM 180 L4	71
	308.1	661.4	4.5	4.1	14200	TH80 2 180B5	TM 180 L4	73
	321.2	634.4	8.7	2.8	6850	TH60 2 180B5	TM 180 M2	71
395.7	515.0	7.1	3.1	6750	TH60 2 180B5	TM 180 M2	71	
480.3	424.3	5.8	3.3	5600	TH60 2 180B5	TM 180 M2	71	
612.8	332.5	4.6	3.5	5590	TH60 2 180B5	TM 180 M2	71	

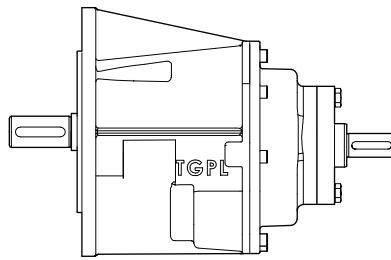
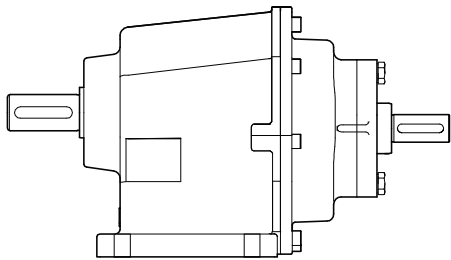
P1n [kW]	n2 [RPM]	M2n [Nm]	i	fs	Fr2 [N]			
<b>30</b>	52.5	5293.0	26.7	0.8	28200	TH80 2 200B5	TM 200 L4	73
	57.8	4809.5	24.2	0.8	27500	TH80 2 200B5	TM 200 L4	73
	63.2	4395.1	22.1	0.9	25500	TH80 2 200B5	TM 200 L4	73
	68.9	4035.9	20.3	1.0	24100	TH80 2 200B5	TM 200 L4	73
	77.8	3572.8	18.0	1.1	23600	TH80 2 200B5	TM 200 L4	73
	91.5	3035.7	15.3	1.2	22800	TH80 2 200B5	TM 200 L4	73
	106.4	2611.7	13.2	1.3	22100	TH80 2 200B5	TM 200 L4	73
	118.1	2353.8	11.9	1.6	20400	TH80 2 200B5	TM 200 L4	73
	138.9	2000.0	10.1	1.7	19200	TH80 2 200B5	TM 200 L4	73
	161.5	1720.6	8.7	2.1	17600	TH80 2 200B5	TM 200 L4	73
	198.9	1396.9	7.0	2.5	16800	TH80 2 200B5	TM 200 L4	73
	241.5	1150.8	5.8	2.7	16300	TH80 2 200B5	TM 200 L4	73
	308.1	901.9	4.5	3.0	14200	TH80 2 200B5	TM 200 L4	73
	323.0	860.3	8.7	3.5	13500	TH60 2 200B5	TM 200 L2	71
	397.9	698.4	7.0	3.7	13200	TH60 2 200B5	TM 200 L2	71
	483.0	575.4	5.8	4.1	12600	TH60 2 200B5	TM 200 L2	71
616.0	450.9	4.5	4.6	12400	TH60 2 200B5	TM 200 L2	71	
<b>37</b>	68.9	4977.7	20.3	0.8	24100	TH80 2 225B5	TM 225 S4	73
	77.8	4406.5	18.0	0.9	23600	TH80 2 225B5	TM 225 S4	73
	91.5	3744.0	15.3	1.0	22800	TH80 2 225B5	TM 225 S4	73
	106.4	3221.1	13.2	1.1	22100	TH80 2 225B5	TM 225 S4	73
	118.1	2903.1	11.9	1.3	20400	TH80 2 225B5	TM 225 S4	73
	138.9	2466.7	10.1	1.4	19200	TH80 2 225B5	TM 225 S4	73
	161.5	2122.1	8.7	1.7	17600	TH80 2 225B5	TM 225 S4	73
	198.9	1722.8	7.0	2.1	16800	TH80 2 225B5	TM 225 S4	73
	241.5	1419.3	5.8	2.2	16300	TH80 2 225B5	TM 225 S4	73
	308.1	1112.3	4.5	2.4	14200	TH80 2 225B5	TM 225 S4	73
	323.0	1061.1	8.7	2.8	13500	TH60 2 200B5	TM 200 L2	71
	397.9	861.4	7.0	3.0	13200	TH60 2 200B5	TM 200 L2	71
	483.0	709.6	5.8	3.3	12600	TH60 2 200B5	TM 200 L2	71
	616.3	556.1	4.5	3.7	12400	TH60 2 200B5	TM 200 L2	71



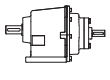



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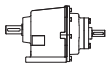
## Performance Parameter



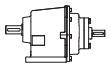

### 13.2 TH..ISS.. Performance Parameter

TH 20		120 Nm										
	i	n <sub>1</sub> =2800[r/min]					n <sub>1</sub> =1400[r/min]					
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH20 2	3.6	778	35	2.98	700	1100	389	41	1.73	910	1400	60
TH20 2	4.6	613	35	2.30	720	1150	306	49	1.63	940	1400	60
TH20 2	5.5	509	38	2.11	750	1150	254	56	1.54	980	1400	60
TH20 2	7.7	365	46	1.82	780	1200	182	71	1.39	1010	1450	60
TH20 2	8.9	315	49	1.68	810	1200	158	76	1.30	1260	1450	60
TH20 2	11.3	248	57	1.54	830	1250	124	92	1.23	1300	1480	60
TH20 2	12.3	227	59	1.44	870	1280	113	88	1.08	1300	1550	60
TH20 2	14.4	194	64	1.34	940	1320	97	96	1.01	1300	1600	60
TH20 2	16.7	168	66	1.20	1010	1340	84	104	0.94	1300	1650	60
TH20 2	21.2	132	74	1.06	1060	1380	66	110	0.79	1300	1750	60
TH20 2	23.1	121	73	0.96	1090	1400	60	110	0.72	1300	1810	60
TH20 2	25.4	110	77	0.91	1120	1430	55	111	0.66	1300	1900	60
TH20 2	28.0	100	80	0.86	1160	1480	50	112	0.60	1300	2050	60
TH20 2	31.1	90	84	0.82	1170	1550	45	113	0.55	1300	2100	60
TH20 2	34.8	80	88	0.77	1190	1760	40	113	0.49	1300	2100	60
TH20 2	39.3	71	94	0.72	1190	1790	36	115	0.44	1300	2100	60
TH20 3	46.8	60	102	0.66	1200	2150	30	120	0.39	1300	2300	60
TH20 3	51.1	55	107	0.63	1200	2250	27	120	0.36	1300	2300	60
TH20 3	56.1	50	113	0.61	1200	2300	25	120	0.32	1300	2300	60
TH20 3	61.9	45	119	0.58	1200	2300	23	120	0.29	1300	2300	60
TH20 3	68.7	41	120	0.53	1200	2300	20	120	0.27	1300	2300	60
TH20 3	76.9	36	120	0.47	1200	2300	18	120	0.24	1300	2300	60
TH20 3	87.8	32	112	0.39	1200	2300	16	120	0.21	1300	2300	60
TH20 3	95.9	29	113	0.36	1200	2300	15	113	0.18	1300	2300	60
TH20 3	105.2	27	114	0.33	1200	2300	13	118	0.17	1300	2300	60
TH20 3	116.0	24	115	0.30	1200	2300	12	115	0.15	1300	2300	60
TH20 3	128.8	22	116	0.27	1200	2300	11	112	0.13	1300	2300	60
TH20 3	144.2	19	117	0.24	1200	2300	10	117	0.12	1300	2300	60
TH20 3	163.0	17	117	0.22	1200	2300	9	120	0.11	1300	2300	60

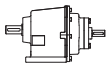

**TH..ISS.. Performance Parameter**

TH 20												120 Nm
	i	n <sub>1</sub> =900[r/min]					n <sub>1</sub> =500[r/min]					↔
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH20 2	3.6	250	50	1.34	980	1650	139	77	1.15	1300	1750	60
TH20 2	4.6	197	59	1.25	1010	1850	109	81	0.96	1300	1780	60
TH20 2	5.5	164	60	1.06	1040	1850	91	88	0.86	1300	1780	60
TH20 2	7.7	117	72	0.91	1250	1900	65	116	0.82	1300	1950	60
TH20 2	8.9	101	75	0.82	1300	1920	56	120	0.73	1300	1980	60
TH20 2	11.3	80	84	0.72	1300	1980	44	109	0.52	1300	2040	60
TH20 2	12.3	73	85	0.67	1300	2050	41	119	0.52	1300	2080	60
TH20 2	14.4	63	92	0.62	1300	2050	35	115	0.43	1300	2150	60
TH20 2	16.7	54	99	0.58	1300	2300	30	116	0.37	1300	2300	60
TH20 2	21.2	42	113	0.52	1300	2300	24	117	0.30	1300	2300	60
TH20 2	23.1	39	114	0.48	1300	2300	22	119	0.28	1300	2300	60
TH20 2	25.4	35	115	0.44	1300	2300	20	117	0.25	1300	2300	60
TH20 2	28.0	32	116	0.40	1300	2300	18	120	0.23	1300	2300	60
TH20 2	31.1	29	117	0.36	1300	2300	16	120	0.21	1300	2300	60
TH20 2	34.8	26	117	0.33	1300	2300	14	120	0.19	1300	2300	60
TH20 2	39.3	23	117	0.29	1300	2300	13	119	0.16	1300	2300	60
TH20 3	46.8	19	120	0.25	1300	2300	11	120	0.14	1300	2300	60
TH20 3	51.1	18	120	0.23	1300	2300	10	120	0.13	1300	2300	60
TH20 3	56.1	16	120	0.21	1300	2300	9	120	0.12	1300	2300	60
TH20 3	61.9	15	120	0.19	1300	2300	8	120	0.11	1300	2300	60
TH20 3	68.7	13	120	0.17	1300	2300	7	120	0.09	1300	2300	60
TH20 3	76.9	12	120	0.15	1300	2300	7	120	0.08	1300	2300	60
TH20 3	87.8	10	120	0.13	1300	2300	6	120	0.07	1300	2300	60
TH20 3	95.9	9	120	0.12	1300	2300	5	120	0.07	1300	2300	60
TH20 3	105.2	9	120	0.11	1300	2300	5	120	0.06	1300	2300	60
TH20 3	116.0	8	120	0.10	1300	2300	4	120	0.06	1300	2300	60
TH20 3	128.8	7	120	0.09	1300	2300	4	120	0.05	1300	2300	60
TH20 3	144.2	6	120	0.08	1300	2300	3	120	0.05	1300	2300	60
TH20 3	163.0	6	120	0.07	1300	2300	3	120	0.04	1300	2300	60

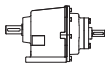

**TH..ISS.. Performance Parameter**

TH 25		200 Nm										
	i	n <sub>1</sub> =2800[r/min]					n <sub>1</sub> =1400[r/min]					
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH25 2	3.8	731	62	4.90	850	1250	366	86	3.40	850	1650	62
TH25 2	5.0	562	72	4.40	850	1360	281	104	3.17	850	1710	62
TH25 2	6.6	425	92	4.20	900	1520	212	138	3.16	900	1890	62
TH25 2	7.9	354	99	3.80	950	1550	177	151	2.89	950	1980	62
TH25 2	9.0	311	107	3.60	1100	1620	156	148	2.49	1100	2100	62
TH25 2	10.3	271	113	3.30	1150	1720	135	150	2.20	1150	2230	62
TH25 2	12.0	233	119	3.00	1150	1860	117	163	2.05	1150	2350	62
TH25 2	14.9	188	133	2.70	1200	1920	94	180	1.82	1200	2450	62
TH25 2	17.0	165	135	2.40	1200	2010	83	187	1.67	1200	2560	62
TH25 2	19.5	144	135	2.10	1250	2120	72	197	1.53	1250	2760	62
TH25 2	22.6	124	142	1.90	1250	2220	62	198	1.32	1250	2810	62
TH25 2	26.7	105	150	1.70	1250	2370	52	200	1.13	1250	3090	62
TH25 2	32.1	87	165	1.55	1250	2560	44	200	0.94	1250	3250	62
TH25 2	35.5	79	165	1.40	1250	2650	39	198	0.84	1250	3550	62
TH25 2	39.7	71	161	1.23	1250	2850	35	200	0.76	1250	3720	62
TH25 2	44.7	63	157	1.06	1250	2900	31	200	0.68	1250	3940	62
TH25 3	49.5	57	159	0.97	1300	3220	28	200	0.61	1300	4320	62
TH25 3	58.3	48	160	0.83	1300	3350	24	200	0.52	1300	4400	62
TH25 3	61.3	46	150	0.74	1300	3450	23	200	0.49	1300	4760	62
TH25 3	69.8	40	152	0.66	1300	3650	20	200	0.43	1300	4920	62
TH25 3	80.2	35	154	0.58	1300	3760	17	200	0.38	1300	5000	62
TH25 3	93.2	30	151	0.49	1300	3870	15	200	0.32	1300	5000	62
TH25 3	109.9	26	153	0.42	1300	4150	13	200	0.27	1300	5000	62
TH25 3	132.2	21	166	0.38	1300	4450	11	200	0.23	1300	5000	62
TH25 3	146.4	19	160	0.33	1300	5000	10	200	0.21	1300	5000	62
TH25 3	163.4	17	157	0.29	1300	5000	9	200	0.19	1300	5000	62
TH25 3	184.2	15	158	0.26	1300	5000	8	200	0.16	1300	5000	62

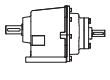
**TH..ISS.. Performance Parameter**

TH 25		200 Nm										
	i	n <sub>1</sub> =900 [r/min]					n <sub>1</sub> =500 [r/min]					
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH25 2	3.8	235	103	2.62	980	1750	131	128	1.80	980	2350	62
TH25 2	5.0	181	132	2.58	1010	1980	100	162	1.76	1010	2650	62
TH25 2	6.6	137	172	2.53	1210	2160	76	194	1.59	1210	2660	62
TH25 2	7.9	114	195	2.40	1260	2320	63	198	1.35	1260	2760	62
TH25 2	9.0	100	195	2.10	1300	2420	56	198	1.19	1300	2940	62
TH25 2	10.3	87	196	1.84	1300	2560	48	200	1.05	1300	3250	62
TH25 2	12.0	75	197	1.59	1300	2710	42	201	0.90	1300	3450	62
TH25 2	14.9	60	181	1.18	1300	2860	34	185	0.67	1300	3720	62
TH25 2	17.0	53	183	1.05	1300	3160	29	187	0.60	1300	3860	62
TH25 2	19.5	46	185	0.92	1300	3350	26	191	0.53	1300	4050	62
TH25 2	22.6	40	186	0.80	1300	3450	22	193	0.46	1300	4460	62
TH25 2	26.7	34	187	0.68	1300	3760	19	195	0.39	1300	4900	62
TH25 2	32.1	28	187	0.57	1300	4150	16	194	0.33	1300	5000	62
TH25 2	35.5	25	187	0.51	1300	4350	14	191	0.29	1300	5000	62
TH25 2	39.7	23	188	0.46	1300	4650	13	198	0.27	1300	5000	62
TH25 2	44.7	20	189	0.41	1300	4750	11	199	0.24	1300	5000	62
TH25 3	49.5	18	200	0.39	1300	5000	10	200	0.22	1300	5000	62
TH25 3	58.3	15	200	0.33	1300	5000	9	200	0.19	1300	5000	62
TH25 3	61.3	15	200	0.32	1300	5000	8	200	0.18	1300	5000	62
TH25 3	69.8	13	200	0.28	1300	5000	7	200	0.15	1300	5000	62
TH25 3	80.2	11	200	0.24	1300	5000	6	196	0.13	1300	5000	62
TH25 3	93.2	10	200	0.21	1300	5000	5	200	0.12	1300	5000	62
TH25 3	109.9	8	200	0.18	1300	5000	5	200	0.10	1300	5000	62
TH25 3	132.2	7	200	0.15	1300	5000	4	200	0.08	1300	5000	62
TH25 3	146.4	6	200	0.13	1300	5000	3	200	0.07	1300	5000	62
TH25 3	163.4	6	200	0.12	1300	5000	3	200	0.07	1300	5000	62
TH25 3	184.2	5	200	0.11	1300	5000	3	200	0.06	1300	5000	62

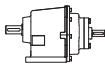
**TH..ISS.. Performance Parameter**

<b>TH 30</b>		<b>300 Nm</b>										
	i	<b>n<sub>1</sub>=2800 [r/min]</b>					<b>n<sub>1</sub>=1400 [r/min]</b>					
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH30 2	3.6	777	118	9.90	560	1830	388	146	6.14	940	2850	64
TH30 2	5.1	551	142	8.42	470	1990	275	200	5.94	1100	2850	64
TH30 2	6.1	459	152	7.52	300	2130	230	208	5.15	1450	2900	64
TH30 2	7.9	353	182	6.93	1870	2480	177	244	4.65	2200	2950	64
TH30 2	9.2	306	177	5.84	1910	2580	153	228	3.76	2200	3500	64
TH30 2	10.7	262	196	5.54	1800	2700	131	245	3.47	2200	3600	64
TH30 2	12.6	222	211	5.05	1910	2820	111	265	3.17	2200	3750	64
TH30 2	15.0	187	225	4.55	1880	3000	94	300	3.03	2200	3850	64
TH30 2	17.3	162	232	4.06	1900	3100	81	300	2.63	2200	4200	64
TH30 2	20.1	139	244	3.66	1900	3290	70	300	2.25	2200	4500	64
TH30 2	23.8	118	257	3.27	1900	3560	59	300	1.90	2200	4700	64
TH30 2	28.8	97	273	2.87	1900	3770	49	300	1.58	2200	5000	64
TH30 2	31.9	88	292	2.77	1900	3850	44	300	1.42	2200	5200	64
TH30 2	35.7	79	300	2.54	1900	4030	39	300	1.27	2200	5200	64
TH30 3	41.8	67	300	2.17	1010	4160	34	300	1.09	1300	5500	64
TH30 3	48.0	58	300	1.89	1030	4420	29	300	0.94	1300	5500	64
TH30 3	55.8	50	300	1.63	1060	4650	25	300	0.81	1300	5500	64
TH30 3	65.7	43	300	1.38	1120	5500	21	300	0.69	1300	5500	64
TH30 3	78.8	36	300	1.15	1180	5500	18	300	0.58	1300	5500	64
TH30 3	90.5	31	300	1.00	1200	5500	16	300	0.50	1300	5500	64
TH30 3	105.1	27	300	0.86	1200	5500	13	300	0.43	1300	5500	64
TH30 3	123.9	23	300	0.73	1300	5500	11	300	0.37	1300	5500	64
TH30 3	149.1	19	300	0.61	1300	5500	9	300	0.30	1300	5500	64
TH30 3	165.0	17	300	0.55	1300	5500	9	300	0.27	1300	5500	64
TH30 3	184.2	15	300	0.49	1300	5500	8	300	0.25	1300	5500	64
TH30 3	207.6	13	300	0.44	1300	5500	6	300	0.22	1300	5500	64

**TH..ISS.. Performance Parameter**

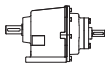

TH 30		300 Nm										
	i	n <sub>1</sub> =900[r/min]					n <sub>1</sub> =500[r/min]					↔
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH30 2	3.6	250	154	4.16	1500	2790	139	192	2.87	2200	3480	64
TH30 2	5.1	177	171	3.27	1700	3210	98	224	2.38	2200	3790	64
TH30 2	6.1	148	180	2.87	2200	3350	82	235	2.08	2200	4120	64
TH30 2	7.9	113	259	3.17	2200	3400	63	291	1.98	2200	4410	64
TH30 2	9.2	98	261	2.77	2200	3750	55	300	1.77	2200	4640	64
TH30 2	10.7	84	283	2.57	2200	3930	47	300	1.52	2200	4990	64
TH30 2	12.6	71	296	2.28	2200	4120	40	300	1.28	2200	5250	64
TH30 2	15.0	60	289	1.88	2200	4210	33	300	1.08	2200	5500	64
TH30 2	17.3	52	299	1.68	2200	4780	29	300	0.94	2200	5500	64
TH30 2	20.1	45	300	1.45	2200	5030	25	300	0.80	2200	5500	64
TH30 2	23.8	38	300	1.22	2200	5200	21	300	0.68	2200	5500	64
TH30 2	28.8	31	300	1.01	2200	5500	17	300	0.56	2200	5500	64
TH30 2	31.9	28	300	0.91	2200	5500	16	300	0.51	2200	5500	64
TH30 2	35.7	25	300	0.82	2200	5500	14	300	0.45	2200	5500	64
TH30 3	41.8	22	300	0.70	1300	5500	12	300	0.39	1300	5500	64
TH30 3	48.0	19	300	0.61	1300	5500	10	300	0.34	1300	5500	64
TH30 3	55.8	16	300	0.52	1300	5500	9	300	0.29	1300	5500	64
TH30 3	65.7	14	300	0.44	1300	5500	8	300	0.25	1300	5500	64
TH30 3	78.8	11	300	0.37	1300	5500	6	300	0.21	1300	5500	64
TH30 3	90.5	10	300	0.32	1300	5500	6	300	0.18	1300	5500	64
TH30 3	105.1	9	300	0.28	1300	5500	5	300	0.15	1300	5500	64
TH30 3	123.9	7	300	0.24	1300	5500	4	300	0.13	1300	5500	64
TH30 3	149.1	6	300	0.20	1300	5500	3	300	0.11	1300	5500	64
TH30 3	165.0	5	300	0.18	1300	5500	3	300	0.10	1300	5500	64
TH30 3	184.2	5	300	0.16	1300	5500	3	300	0.09	1300	5500	64
TH30 3	207.6	4	300	0.14	1300	5500	2	300	0.08	1300	5500	64

**TH..ISS.. Performance Parameter**

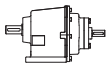

TH 35		600 Nm										
	i	n <sub>1</sub> =2800 [r/min]					n <sub>1</sub> =1400[r/min]					↔
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH35 2	3.7	764	264	21.78	1050	1450	382	266	10.99	1850	2210	66
TH35 2	5.0	559	298	18.02	1160	1850	280	289	8.71	2550	2650	66
TH35 2	6.1	459	302	14.95	2250	2050	229	324	8.02	2620	3100	66
TH35 2	7.0	399	297	12.77	2300	2650	199	363	7.82	2900	3380	66
TH35 2	8.1	344	315	11.68	2330	2800	172	379	7.03	3010	3550	66
TH35 2	8.8	318	314	10.79	2390	2950	159	392	6.73	3050	3750	66
TH35 2	10.4	270	333	9.70	2450	3050	135	428	6.24	3100	3800	66
TH35 2	12.4	225	367	8.91	2460	3250	112	424	5.15	3120	4120	66
TH35 2	14.4	194	374	7.82	2470	3400	97	397	4.16	3180	4300	66
TH35 2	18.4	152	416	6.83	2480	3610	76	434	3.56	3200	4760	66
TH35 2	22.1	127	434	5.94	2500	3950	63	448	3.07	3230	5100	66
TH35 2	24.4	115	447	5.54	2550	4150	57	463	2.87	3230	5420	66
TH35 2	27.1	103	452	5.05	2550	4290	52	461	2.57	3250	5660	66
TH35 2	30.3	92	457	4.55	2550	4550	46	457	2.28	3300	5750	66
TH35 2	34.3	82	465	4.10	2550	4560	41	472	2.08	3320	6170	66
TH35 3	36.6	76	511	4.21	3050	4750	38	451	1.86	3500	6450	66
TH35 3	42.3	66	532	3.80	3050	4900	33	521	1.86	3500	6450	66
TH35 3	49.3	57	534	3.27	3050	5150	28	528	1.62	3500	6650	66
TH35 3	58.4	48	536	2.77	3050	5360	24	530	1.37	3500	7000	66
TH35 3	70.4	40	537	2.30	3050	5550	20	512	1.10	3500	7000	66
TH35 3	87.5	32	482	1.67	3050	6000	16	482	0.83	3500	7000	66
TH35 3	103.6	27	490	1.43	3050	6300	14	484	0.71	3500	7000	66
TH35 3	125.0	22	511	1.23	3050	6700	11	494	0.60	3500	7000	66
TH35 3	138.6	20	494	1.08	3050	7000	10	494	0.54	3500	7000	66
TH35 3	155.0	18	503	0.98	3050	7000	9	492	0.48	3500	7000	66



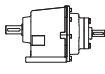
**TH..ISS.. Performance Parameter**

<b>TH 35</b>		<b>600 Nm</b>										
	i	<b>n<sub>1</sub>=900[r/min]</b>					<b>n<sub>1</sub>=500[r/min]</b>					
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH35 2	3.7	246	287	7.62	2650	3100	136	289	4.26	3500	3960	66
TH35 2	5.0	180	326	6.34	2850	3210	100	367	3.96	3500	4350	66
TH35 2	6.1	147	379	6.04	3300	3550	82	425	3.76	3500	4520	66
TH35 2	7.0	128	415	5.74	3360	3860	71	464	3.56	3500	4720	66
TH35 2	8.1	111	440	5.25	3450	3980	61	493	3.27	3500	5150	66
TH35 2	8.8	102	439	4.85	3500	4160	57	516	3.17	3500	5280	66
TH35 2	10.4	87	476	4.46	3500	4350	48	543	2.82	3500	5750	66
TH35 2	12.4	72	520	4.06	3500	4710	40	543	2.36	3500	6320	66
TH35 2	14.4	62	471	3.17	3500	5050	35	487	1.82	3500	6750	66
TH35 2	18.4	49	479	2.52	3500	5450	27	493	1.45	3500	7000	66
TH35 2	22.1	41	482	2.12	3500	6320	23	494	1.21	3500	7000	66
TH35 2	24.4	37	487	1.94	3500	6650	21	501	1.11	3500	7000	66
TH35 2	27.1	33	488	1.75	3500	7000	18	502	1.00	3500	7000	66
TH35 2	30.3	30	491	1.57	3500	7000	16	506	0.90	3500	7000	66
TH35 2	34.3	26	496	1.41	3500	7000	15	510	0.80	3500	7000	66
TH35 3	36.6	25	517	1.37	3500	7000	14	545	0.80	3500	7000	66
TH35 3	42.3	21	546	1.25	3500	7000	12	553	0.71	3500	7000	66
TH35 3	49.3	18	552	1.09	3500	7000	10	555	0.61	3500	7000	66
TH35 3	58.4	15	553	0.92	3500	7000	9	551	0.51	3500	7000	66
TH35 3	70.4	13	554	0.76	3500	7000	7	550	0.42	3500	7000	66
TH35 3	87.5	10	521	0.58	3500	7000	6	540	0.33	3500	7000	66
TH35 3	103.6	9	522	0.49	3500	7000	5	526	0.27	3500	7000	66
TH35 3	125.0	7	530	0.41	3500	7000	4	522	0.23	3500	7000	66
TH35 3	138.6	6	531	0.37	3500	7000	4	554	0.22	3500	7000	66
TH35 3	155.0	6	516	0.32	3500	7000	3	535	0.19	3500	7000	66

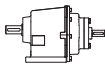

**TH..ISS.. Performance Parameter**

<b>TH 40</b>		<b>1000 Nm</b>										
	i	<b>n<sub>1</sub>=2800 [r/min]</b>					<b>n<sub>1</sub>=1400[r/min]</b>					
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH40 2	4.4	638	388	26.73	1150	4010	319	480	16.53	2010	5360	68
TH40 2	5.6	496	444	23.76	1290	4360	248	540	14.45	2400	5650	68
TH40 2	6.9	406	497	21.78	2250	4750	203	612	13.41	2850	5980	68
TH40 2	7.4	378	509	20.79	2280	4900	189	618	12.62	2880	6050	68
TH40 2	8.6	327	562	19.80	2310	5100	163	663	11.68	2900	6680	68
TH40 2	10.0	279	598	18.02	2310	5310	139	681	10.26	3010	7560	68
TH40 2	11.9	235	668	16.93	2360	5890	117	742	9.41	3070	8150	68
TH40 2	13.4	209	721	16.24	2380	5950	104	756	8.51	3100	9100	68
TH40 2	15.7	178	700	13.46	2390	6320	89	772	7.43	3120	9560	68
TH40 2	18.7	150	709	11.48	2390	6580	75	770	6.24	3150	10000	68
TH40 2	20.5	137	731	10.79	2410	7100	68	778	5.74	3180	10000	68
TH40 2	22.6	124	747	10.00	2410	7160	62	784	5.25	3250	10000	68
TH40 2	24.6	114	759	9.31	2450	7550	57	791	4.85	3400	10000	68
TH40 2	27.1	103	763	8.51	2460	7680	52	799	4.46	3500	10000	68
TH40 2	30.0	93	767	7.72	2480	7810	47	802	4.04	3500	10000	68
TH40 2	33.5	84	768	6.93	2510	8150	42	808	3.64	3500	10000	68
TH40 2	37.8	74	780	6.24	2510	8350	37	814	3.26	3500	10000	68
TH40 3	39.4	71	792	6.08	2760	9530	36	818	3.14	3500	10000	68
TH40 3	42.6	66	829	5.88	2810	10000	33	856	3.04	3500	10000	68
TH40 3	50.3	56	834	5.02	2840	10000	28	880	2.65	3500	10000	68
TH40 3	60.3	47	840	4.21	2860	10000	23	906	2.27	3500	10000	68
TH40 3	66.5	42	841	3.82	2990	10000	21	906	2.06	3500	10000	68
TH40 3	78.6	36	808	3.11	3010	10000	18	841	1.62	3500	10000	68
TH40 3	94.3	30	816	2.62	3030	10000	15	850	1.36	3500	10000	68
TH40 3	104.1	27	820	2.38	3060	10000	13	850	1.23	3500	10000	68
TH40 3	115.6	24	825	2.16	3100	10000	12	855	1.12	3500	10000	68
TH40 3	129.5	22	827	1.93	3100	10000	11	865	1.01	3500	10000	68
TH40 3	146.5	19	836	1.72	3100	10000	10	874	0.90	3500	10000	68

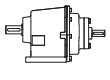
**TH..ISS.. Performance Parameter**

TH 40												1000 Nm
	i	n <sub>1</sub> =900[r/min]					n <sub>1</sub> =500[r/min]					↔
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH40 2	4.4	205	465	10.30	2900	6300	114	491	6.04	3500	8100	68
TH40 2	5.6	159	581	10.00	3080	6850	89	569	5.45	3500	8400	68
TH40 2	6.9	130	682	9.60	3310	6950	72	633	4.95	3500	8760	68
TH40 2	7.4	122	709	9.31	3450	7200	68	638	4.65	3500	9150	68
TH40 2	8.6	105	786	8.91	3480	7400	58	692	4.36	3500	9680	68
TH40 2	10.0	90	859	8.32	3500	7780	50	755	4.06	3500	10000	68
TH40 2	11.9	75	838	6.83	3500	8900	42	809	3.66	3500	10000	68
TH40 2	13.4	67	779	5.64	3500	9250	37	813	3.27	3500	10000	68
TH40 2	15.7	57	784	4.85	3500	9800	32	821	2.82	3500	10000	68
TH40 2	18.7	48	798	4.16	3500	10000	27	832	2.41	3500	10000	68
TH40 2	20.5	44	805	3.82	3500	10000	24	834	2.20	3500	10000	68
TH40 2	22.6	40	812	3.49	3500	10000	22	841	2.01	3500	10000	68
TH40 2	24.6	37	819	3.23	3500	10000	20	845	1.85	3500	10000	68
TH40 2	27.1	33	820	2.94	3500	10000	18	840	1.67	3500	10000	68
TH40 2	30.0	30	823	2.66	3500	10000	17	853	1.53	3500	10000	68
TH40 2	33.5	27	830	2.41	3500	10000	15	854	1.38	3500	10000	68
TH40 2	37.8	24	835	2.15	3500	10000	13	866	1.24	3500	10000	68
TH40 3	39.4	23	910	2.24	3500	10000	13	923	1.26	3500	10000	68
TH40 3	42.6	21	907	2.07	3500	10000	12	928	1.18	3500	10000	68
TH40 3	50.3	18	912	1.76	3500	10000	10	912	0.98	3500	10000	68
TH40 3	60.3	15	918	1.48	3500	10000	8	930	0.83	3500	10000	68
TH40 3	66.5	14	912	1.33	3500	10000	8	906	0.74	3500	10000	68
TH40 3	78.6	11	857	1.06	3500	10000	6	885	0.61	3500	10000	68
TH40 3	94.3	10	875	0.90	3500	10000	5	890	0.51	3500	10000	68
TH40 3	104.1	9	861	0.80	3500	10000	5	869	0.45	3500	10000	68
TH40 3	115.6	8	875	0.74	3500	10000	4	882	0.41	3500	10000	68
TH40 3	129.5	7	875	0.66	3500	10000	4	917	0.38	3500	10000	68
TH40 3	146.5	6	886	0.59	3500	10000	3	931	0.34	3500	10000	68

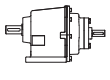
**TH..ISS.. Performance Parameter**

<b>TH 50</b>		<b>1600 Nm</b>										
	i	<b>n<sub>1</sub>=2800 [r/min]</b>					<b>n<sub>1</sub>=1400[r/min]</b>					
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH50 2	4.3	645	639	44.55	2000	5250	323	745	25.94	2100	6100	70
TH50 2	5.6	496	757	40.59	2000	5420	248	924	24.75	2350	6550	70
TH50 2	6.9	403	887	38.61	2200	5620	202	1091	23.76	2650	6850	70
TH50 2	8.0	348	974	36.63	2280	6000	174	1206	22.67	2860	7060	70
TH50 2	8.7	323	1023	35.64	2380	6120	161	1245	21.68	2920	7540	70
TH50 2	10.2	275	1102	32.67	2650	6580	137	1295	19.21	2960	7710	70
TH50 2	12.9	217	1269	29.70	2450	7220	108	1392	16.29	2980	8530	70
TH50 2	15.0	187	1323	26.73	2520	7850	94	1353	13.66	3400	9430	70
TH50 2	18.8	148	1187	19.01	2450	7950	74	1249	10.00	3620	11000	70
TH50 2	21.9	128	1203	16.63	2850	8750	64	1261	8.71	3750	11500	70
TH50 2	23.7	118	1209	15.44	2600	9350	59	1271	8.12	3850	11900	70
TH50 2	25.7	109	1213	14.26	2750	9750	54	1280	7.52	3950	12600	70
TH50 2	28.1	100	1223	13.17	2950	10250	50	1269	6.83	3980	13400	70
TH50 2	30.9	91	1233	12.08	3650	11000	45	1293	6.34	4020	13600	70
TH50 2	34.1	82	1240	10.99	3700	11500	41	1296	5.74	4050	13700	70
TH50 2	38.0	74	1252	9.95	3750	12100	37	1296	5.15	4050	13800	70
TH50 3	41.2	68	1468	10.78	3800	13000	34	1548	5.68	4700	14300	70
TH50 3	48.2	58	1500	9.41	3820	13500	29	1563	4.90	4700	15500	70
TH50 3	57.2	49	1522	8.04	3850	14500	24	1581	4.17	4700	16000	70
TH50 3	69.3	40	1528	6.66	3850	15200	20	1595	3.48	4700	16000	70
TH50 3	83.7	33	1307	4.72	3850	16000	17	1356	2.45	4700	16000	70
TH50 3	91.8	31	1315	4.33	3850	16000	15	1369	2.25	4700	16000	70
TH50 3	101.3	28	1313	3.92	3850	16000	14	1372	2.05	4700	16000	70
TH50 3	110.5	25	1325	3.63	3850	16000	13	1375	1.88	4700	16000	70
TH50 3	121.5	23	1340	3.33	3850	16000	12	1379	1.72	4700	16000	70
TH50 3	134.6	21	1309	2.94	3850	16000	10	1405	1.58	4700	16000	70
TH50 3	150.3	19	1345	2.70	3850	16000	9	1393	1.40	4700	16000	70
TH50 3	169.4	17	1351	2.41	3850	16000	8	1417	1.26	4700	16000	70

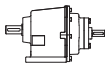

**TH..ISS.. Performance Parameter**

TH 50												1600 Nm
	i	n <sub>1</sub> =900[r/min]					n <sub>1</sub> =500[r/min]					↔
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH50 2	4.3	207	972	21.78	2850	7950	115	1042	12.97	4700	9600	70
TH50 2	5.6	160	1207	20.79	3100	8150	89	1241	11.88	4700	10500	70
TH50 2	6.9	130	1414	19.80	3250	8250	72	1426	11.09	4700	11200	70
TH50 2	8.0	112	1458	17.62	3850	8350	62	1504	10.10	4700	11500	70
TH50 2	8.7	104	1468	16.43	4050	8950	58	1448	9.01	4700	12200	70
TH50 2	10.2	88	1475	14.06	4250	10200	49	1496	7.92	4700	12800	70
TH50 2	12.9	70	1501	11.29	4460	10800	39	1493	6.24	4700	14000	70
TH50 2	15.0	60	1510	9.80	4470	11500	33	1400	5.05	4700	15000	70
TH50 2	18.8	48	1288	6.63	4620	13500	26	1340	3.83	4700	16000	70
TH50 2	21.9	41	1306	5.80	4700	14000	23	1352	3.34	4700	16000	70
TH50 2	23.7	38	1302	5.35	4700	14600	21	1354	3.09	4700	16000	70
TH50 2	25.7	35	1310	4.95	4700	14900	19	1354	2.84	4700	16000	70
TH50 2	28.1	32	1316	4.55	4700	15200	18	1365	2.62	4700	16000	70
TH50 2	30.9	29	1333	4.20	4700	16000	16	1375	2.41	4700	16000	70
TH50 2	34.1	26	1331	3.79	4700	16000	15	1377	2.18	4700	16000	70
TH50 2	38.0	24	1349	3.45	4700	16000	13	1395	1.98	4700	16000	70
TH50 3	41.2	22	1574	3.71	4700	16000	12	1594	2.09	4700	16000	70
TH50 3	48.2	19	1597	3.22	4700	16000	10	1589	1.78	4700	16000	70
TH50 3	57.2	16	1599	2.71	4700	16000	9	1598	1.51	4700	16000	70
TH50 3	69.3	13	1598	2.24	4700	16000	7	1600	1.25	4700	16000	70
TH50 3	83.7	11	1401	1.63	4700	16000	6	1412	0.91	4700	16000	70
TH50 3	91.8	10	1407	1.49	4700	16000	5	1450	0.85	4700	16000	70
TH50 3	101.3	9	1410	1.35	4700	16000	5	1416	0.75	4700	16000	70
TH50 3	110.5	8	1404	1.23	4700	16000	5	1444	0.71	4700	16000	70
TH50 3	121.5	7	1434	1.15	4700	16000	4	1456	0.65	4700	16000	70
TH50 3	134.6	7	1425	1.03	4700	16000	4	1442	0.58	4700	16000	70
TH50 3	150.3	6	1409	0.91	4700	16000	3	1446	0.52	4700	16000	70
TH50 3	169.4	5	1435	0.82	4700	16000	3	1446	0.46	4700	16000	70

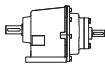

**TH..ISS.. Performance Parameter**

TH 60		2300 Nm										
	i	n <sub>1</sub> =2800 [r/min]					n <sub>1</sub> =1400[r/min]					↔
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH60 2	4.6	613	1167	77.22	1650	5590	306	1556	51.48	1860	7100	72
TH60 2	5.8	480	1394	72.27	1850	5600	240	1673	43.36	2100	7350	72
TH60 2	7.1	396	1576	67.32	1850	6750	198	1836	39.20	2530	7400	72
TH60 2	8.7	321	1770	61.38	1860	6850	161	2027	35.15	2680	7680	72
TH60 2	10.1	276	1958	58.41	1870	7150	138	2077	30.99	3560	8750	72
TH60 2	11.9	235	1992	50.49	1900	7860	117	2125	26.93	4250	9350	72
TH60 2	14.6	191	2062	42.57	1920	9390	96	2023	20.89	5120	12100	72
TH60 2	17.2	163	2201	38.61	1920	9860	81	2031	17.82	5320	13800	72
TH60 2	19.8	142	2300	35.15	2380	10200	71	2047	15.64	6000	15600	72
TH60 2	21.5	130	2186	30.69	2950	10600	65	2045	14.36	6200	17200	72
TH60 2	23.6	119	2161	27.72	3100	11600	59	2037	13.07	6350	17900	72
TH60 2	25.9	108	2148	25.05	3420	12800	54	2038	11.88	6700	18500	72
TH60 2	28.7	98	2163	22.77	3650	13400	49	1918	10.10	6860	19200	72
TH60 2	32.1	87	2205	20.79	3960	14200	44	1890	8.91	6950	21000	72
TH60 3	36.6	77	2300	19.00	5250	16800	38	2300	9.50	7000	22150	72
TH60 3	39.5	71	2300	17.60	5650	17800	35	2300	8.80	7000	22800	72
TH60 3	46.4	60	2300	14.98	5700	18600	30	2300	7.49	7000	23800	72
TH60 3	58.8	48	2300	11.82	5700	19800	24	2300	5.91	7000	25000	72
TH60 3	68.1	41	2300	10.20	5700	20900	21	2300	5.10	7000	25000	72
TH60 3	80.1	35	2300	8.68	5700	22100	17	2300	4.34	7000	25000	72
TH60 3	87.5	32	2300	7.95	5700	23500	16	2156	3.72	7000	25000	72
TH60 3	96.1	29	2300	7.23	5700	25000	15	2181	3.43	7000	25000	72
TH60 3	106.5	26	2300	6.53	5700	25000	13	2279	3.23	7000	25000	72
TH60 3	115.8	24	2300	6.01	5700	25000	12	2252	2.94	7000	25000	72
TH60 3	126.4	22	2300	5.50	5700	25000	11	2213	2.65	7000	25000	72
TH60 3	138.8	20	2300	5.01	5700	25000	10	2251	2.45	7000	25000	72
TH60 3	153.5	18	2300	4.53	5700	25000	9	2190	2.16	7000	25000	72
TH60 3	171.2	16	2300	4.06	5700	25000	8	2220	1.96	7000	25000	72

**TH..ISS.. Performance Parameter**

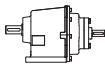

TH 60		2300 Nm										
	i	n <sub>1</sub> =900[r/min]					n <sub>1</sub> =500[r/min]					
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH60 2	4.6	197	1844	39.20	1560	9350	109	1927	22.77	5500	13200	72
TH60 2	5.8	154	2008	33.46	1650	9980	86	2245	20.79	5650	13500	72
TH60 2	7.1	127	2163	29.70	1710	10600	71	2206	16.83	5760	15200	72
TH60 2	8.7	103	2185	24.35	1760	12400	57	2300	14.24	5950	17100	72
TH60 2	10.1	89	2168	20.79	1810	13500	49	2156	11.48	6320	17900	72
TH60 2	11.9	75	2090	17.03	2460	14500	42	2100	9.50	6850	18600	72
TH60 2	14.6	61	2300	15.27	3250	17600	34	2255	8.32	7000	21800	72
TH60 2	17.2	52	2124	11.98	4360	18200	29	2149	6.73	7000	23800	72
TH60 2	19.8	45	2157	10.59	5960	20500	25	2177	5.94	7000	25000	72
TH60 2	21.5	42	2128	9.60	6350	21500	23	2212	5.54	7000	25000	72
TH60 2	23.6	38	2161	8.91	7000	23500	21	2290	5.25	7000	25000	72
TH60 2	25.9	35	2166	8.12	7000	25000	19	2300	4.79	7000	25000	72
TH60 2	28.7	31	2282	7.72	7000	25000	17	2300	4.32	7000	25000	72
TH60 2	32.1	28	2287	6.93	7000	25000	16	2300	3.87	7000	25000	72
TH60 3	36.6	25	2300	6.11	7000	25000	14	2300	3.39	7000	25000	72
TH60 3	39.5	23	2300	5.66	7000	25000	13	2300	3.14	7000	25000	72
TH60 3	46.4	19	2300	4.82	7000	25000	11	2300	2.68	7000	25000	72
TH60 3	58.8	15	2300	3.80	7000	25000	9	2300	2.11	7000	25000	72
TH60 3	68.1	13	2300	3.28	7000	25000	7	2300	1.82	7000	25000	72
TH60 3	80.1	11	2300	2.79	7000	25000	6	2300	1.55	7000	25000	72
TH60 3	87.5	10	2300	2.55	7000	25000	6	2300	1.42	7000	25000	72
TH60 3	96.1	9	2300	2.33	7000	25000	5	2300	1.29	7000	25000	72
TH60 3	106.5	8	2300	2.10	7000	25000	5	2300	1.17	7000	25000	72
TH60 3	115.8	8	2300	1.93	7000	25000	4	2300	1.07	7000	25000	72
TH60 3	126.4	7	2300	1.77	7000	25000	4	2300	0.98	7000	25000	72
TH60 3	138.8	6	2300	1.61	7000	25000	4	2300	0.89	7000	25000	72
TH60 3	153.5	6	2300	1.46	7000	25000	3	2300	0.81	7000	25000	72
TH60 3	171.2	5	2300	1.31	7000	25000	3	2300	0.73	7000	25000	72

**TH..ISS.. Performance Parameter**

<b>TH 80</b>		<b>4200 Nm</b>										
	i	<b>n<sub>1</sub>=2800[r/min]</b>					<b>n<sub>1</sub>=1400[r/min]</b>					
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH80 2	4.5	616	2071	137.75	1900	12400	308	2713	90.25	2100	14200	74
TH80 2	5.8	483	2332	121.60	1920	12600	241	3097	80.75	2680	16300	74
TH80 2	7.0	398	2566	110.20	1980	13200	199	3539	76.00	3550	16800	74
TH80 2	8.7	323	2997	104.50	2050	13500	161	3596	62.70	4250	17600	74
TH80 2	10.1	278	3103	93.10	2100	15800	139	3483	52.25	5100	19200	74
TH80 2	11.9	236	3354	85.50	2200	16100	118	3727	47.50	5300	20400	74
TH80 2	13.2	213	3350	76.95	2200	16800	106	3474	39.90	5500	22100	74
TH80 2	15.3	183	3605	71.25	2300	17600	92	3749	37.05	6000	23600	74
TH80 2	18.0	156	3734	62.70	2300	18500	78	3847	32.30	6000	22800	74
TH80 2	20.3	138	3770	56.05	2450	19100	69	3962	29.45	6200	24100	74
TH80 2	22.1	126	3827	52.25	2450	19500	63	3897	26.60	6350	25500	74
TH80 2	24.2	116	3884	48.45	2450	19900	58	3960	24.70	6700	27500	74
TH80 2	26.7	105	3939	44.65	2800	20300	52	4023	22.80	6860	28200	74
TH80 2	29.6	95	4178	42.75	2900	21400	47	4086	20.90	6950	29000	74
TH80 2	33.0	85	4200	38.47	3000	21600	42	4148	19.00	6950	30000	74
TH80 3	35.7	78	4200	35.53	4500	23500	39	4200	17.77	7000	31000	74
TH80 3	44.0	64	4200	28.85	5700	24800	32	4200	14.42	7000	31000	74
TH80 3	51.2	55	4200	24.82	5850	26400	27	4200	12.41	7000	31000	74
TH80 3	60.2	47	4200	21.09	5850	29200	23	4200	10.54	7000	31000	74
TH80 3	66.8	42	4200	19.01	5850	31000	21	4200	9.50	7000	31000	74
TH80 3	77.7	36	4200	16.35	5850	31000	18	4200	8.18	7000	31000	74
TH80 3	91.4	31	4200	13.89	5850	31000	15	4200	6.95	7000	31000	74
TH80 3	104.9	27	4200	12.10	5850	31000	13	4200	6.05	7000	31000	74
TH80 3	114.2	25	4200	11.11	5850	31000	12	4200	5.56	7000	31000	74
TH80 3	125.0	22	4200	10.16	5850	31000	11	4200	5.08	7000	31000	74
TH80 3	137.5	20	4200	9.23	5850	31000	10	4200	4.62	7000	31000	74
TH80 3	152.3	18	4200	8.34	5850	31000	9	4200	4.17	7000	31000	74
TH80 3	170.1	16	4200	7.46	5850	31000	8	4200	3.73	7000	31000	74

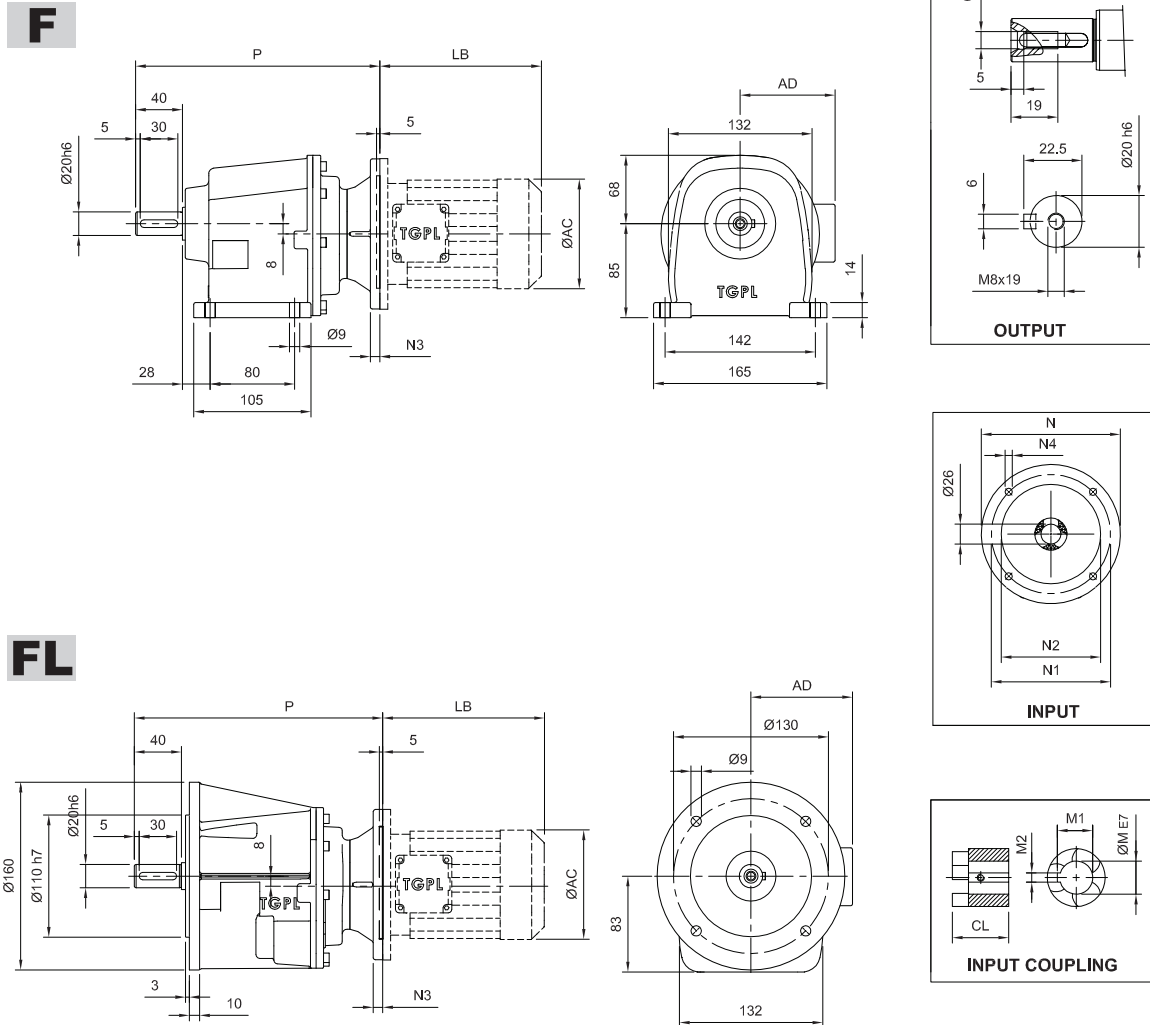


**TH..ISS.. Performance Parameter**

<b>TH 80</b>		<b>4200 Nm</b>										
	i	<b>n<sub>1</sub>=900[r/min]</b>					<b>n<sub>1</sub>=500[r/min]</b>					
		n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	n <sub>2</sub> [r/min]	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Fr <sub>1</sub> N	Fr <sub>2</sub> N	
TH80 2	4.5	198	3598	76.95	1560	14500	110	4200	49.90	5500	19800	74
TH80 2	5.8	155	3911	65.55	1650	14800	86	4200	39.10	5650	21600	74
TH80 2	7.0	128	4200	57.99	1710	15500	71	4200	32.22	5760	26800	74
TH80 2	8.7	104	4200	47.07	1760	16200	58	4200	26.15	5950	31000	74
TH80 2	10.1	89	4200	40.50	1810	19800	50	4200	22.50	6320	31000	74
TH80 2	11.9	76	4200	34.41	2460	21200	42	4200	19.12	6850	31000	74
TH80 2	13.2	68	3731	27.55	3250	24600	38	4200	17.23	7000	31000	74
TH80 2	15.3	59	3738	23.75	4360	26700	33	4200	14.82	7000	31000	74
TH80 2	18.0	50	4048	21.85	5960	27800	28	4200	12.60	7000	31000	74
TH80 2	20.3	44	4175	19.95	6350	29500	25	4200	11.15	7000	31000	74
TH80 2	22.1	41	4200	18.43	7000	31000	23	4200	10.24	7000	31000	74
TH80 2	24.2	37	4200	16.84	7000	31000	21	4200	9.36	7000	31000	74
TH80 2	26.7	34	4200	15.30	7000	31000	19	4200	8.50	7000	31000	74
TH80 2	29.6	30	4200	13.81	7000	31000	17	4200	7.67	7000	31000	74
TH80 2	33.0	27	4200	12.37	7000	31000	15	4200	6.87	7000	31000	74
TH80 3	35.7	25	4200	11.42	7000	31000	14	4200	6.35	7000	31000	74
TH80 3	44.0	20	4200	9.27	7000	31000	11	4200	5.15	7000	31000	74
TH80 3	51.2	18	4200	7.98	7000	31000	10	4200	4.43	7000	31000	74
TH80 3	60.2	15	4200	6.78	7000	31000	8	4200	3.77	7000	31000	74
TH80 3	66.8	13	4200	6.11	7000	31000	7	4200	3.39	7000	31000	74
TH80 3	77.7	12	4200	5.26	7000	31000	6	4200	2.92	7000	31000	74
TH80 3	91.4	10	4200	4.47	7000	31000	5	4200	2.48	7000	31000	74
TH80 3	104.9	9	4200	3.89	7000	31000	5	4200	2.16	7000	31000	74
TH80 3	114.2	8	4200	3.57	7000	31000	4	4200	1.98	7000	31000	74
TH80 3	125.0	7	4200	3.27	7000	31000	4	4200	1.81	7000	31000	74
TH80 3	137.5	7	4200	2.97	7000	31000	4	4200	1.65	7000	31000	74
TH80 3	152.3	6	4200	2.68	7000	31000	3	4200	1.49	7000	31000	74
TH80 3	170.1	5	4200	2.40	7000	31000	3	4200	1.33	7000	31000	74

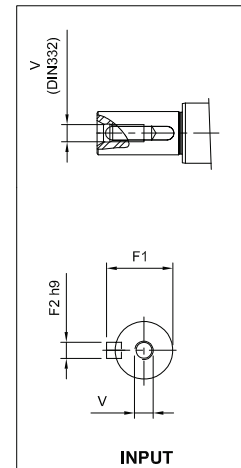
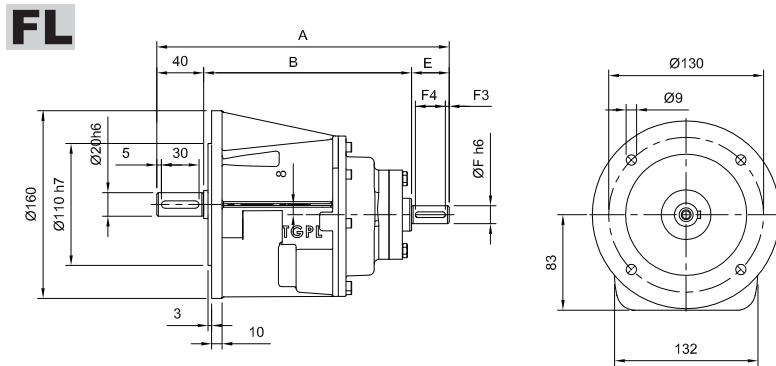
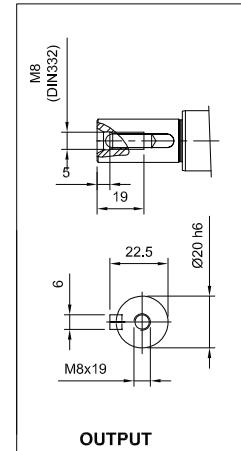
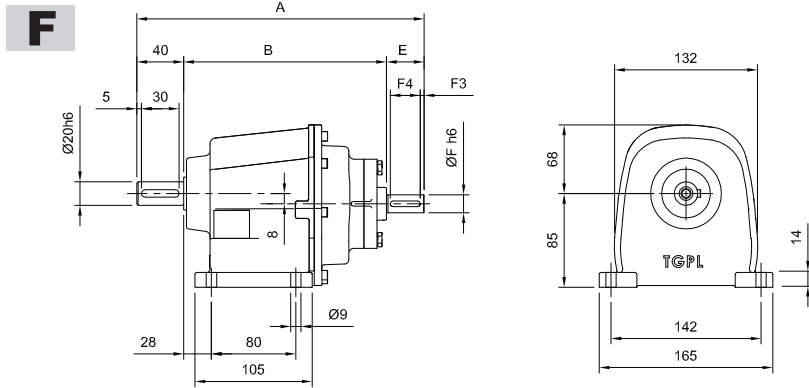
## 14. OUT LINE DIMENSIONS

### TH20 - - - IEC



Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	Kg		TM	TM - DCB					
												TM	DCB		LB	AC	AD			
TH20-2	F63	11	12.8	4	23.7	140	115	95	10	9	234	10.5	11.2	TM63	184	120	98	247	120	100
TH20-2	F71	14	16.3	5	26.7	160	130	110	10	9	237	10.7	11.4	TM71	200	139	109	258	140	112
TH20-2	F80	19	21.8	6	36.7	200	165	130	12	12	247	10.9	11.6	TM80	224	156	131	290	156	133
TH20-2	F90S	24	27.3	8	36.7	200	165	130	12	12	247	11.0	11.7	TM90S	242	172	136	315	172	136
TH20-2	F90L	24	27.3	8	36.7	200	165	130	12	12	247	11.0	11.7	TM90L	265	172	136	336	172	136
Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	Kg		TM	TM - DCB					
TH20-3	F63	11	12.8	4	23.7	140	115	95	10	9	248	11.2	11.9	TM63	184	120	98	247	120	100
TH20-3	F71	14	16.3	5	26.7	160	130	110	10	9	251	11.4	12.0	TM71	200	139	109	258	140	112

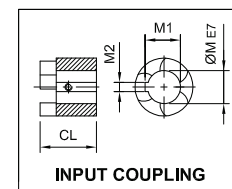
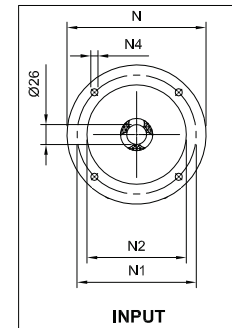
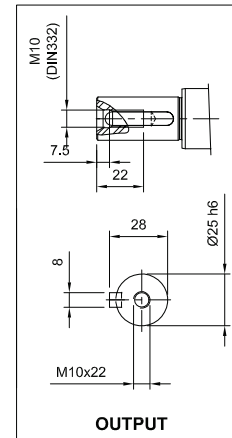
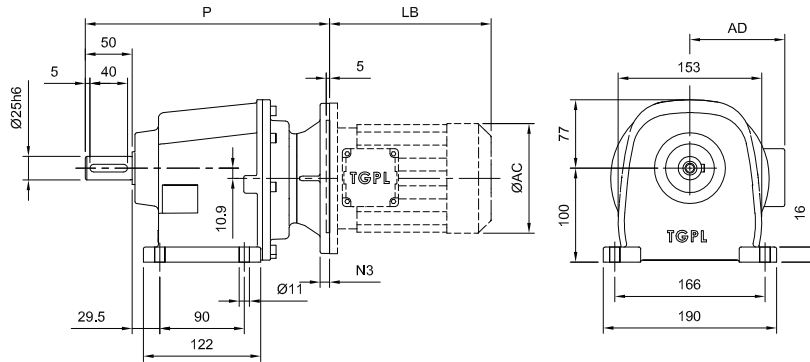
**TH20 - - - ISS**



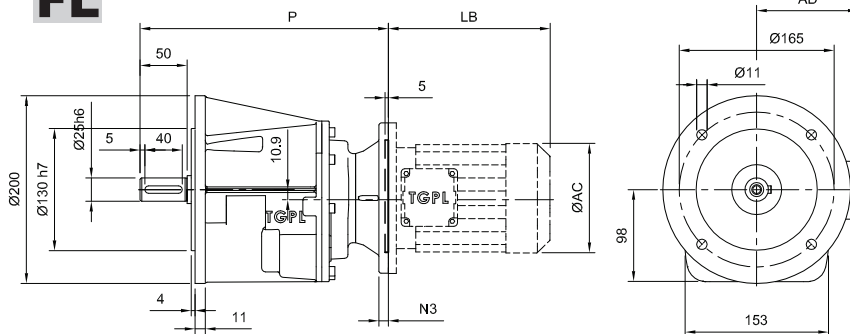
		A	B	E	F	F1	F2	F3	F4	V	Kg		
	<b>TH20-2</b>	<b>ISS</b>	266	186	40	19	21.5	6	5	30	M6x16	10.5	11.2
	<b>TH20-3</b>	<b>ISS</b>	280	200	40	16	18	5	5	30	M6x16	11.2	11.9

**TH25 - - - IEC**

**F**

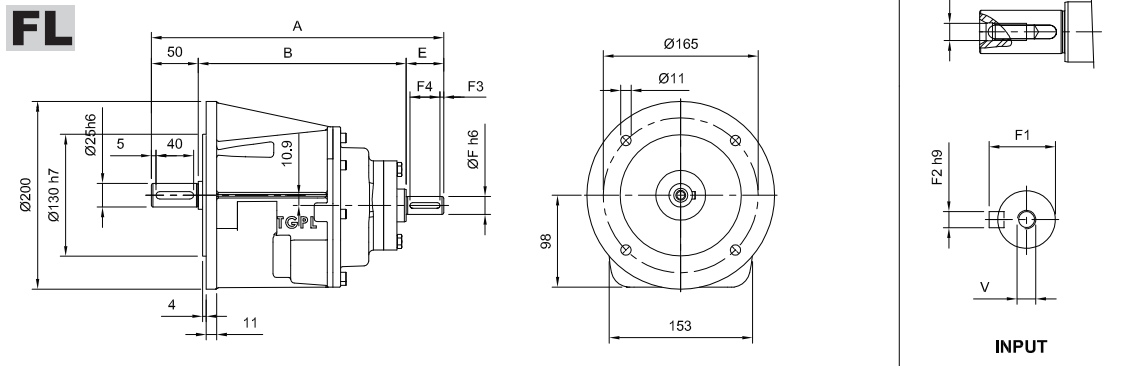
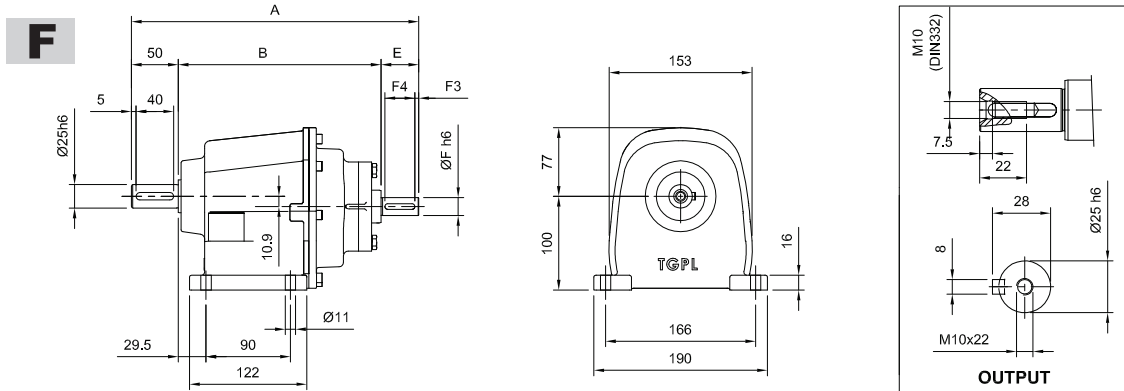


**FL**



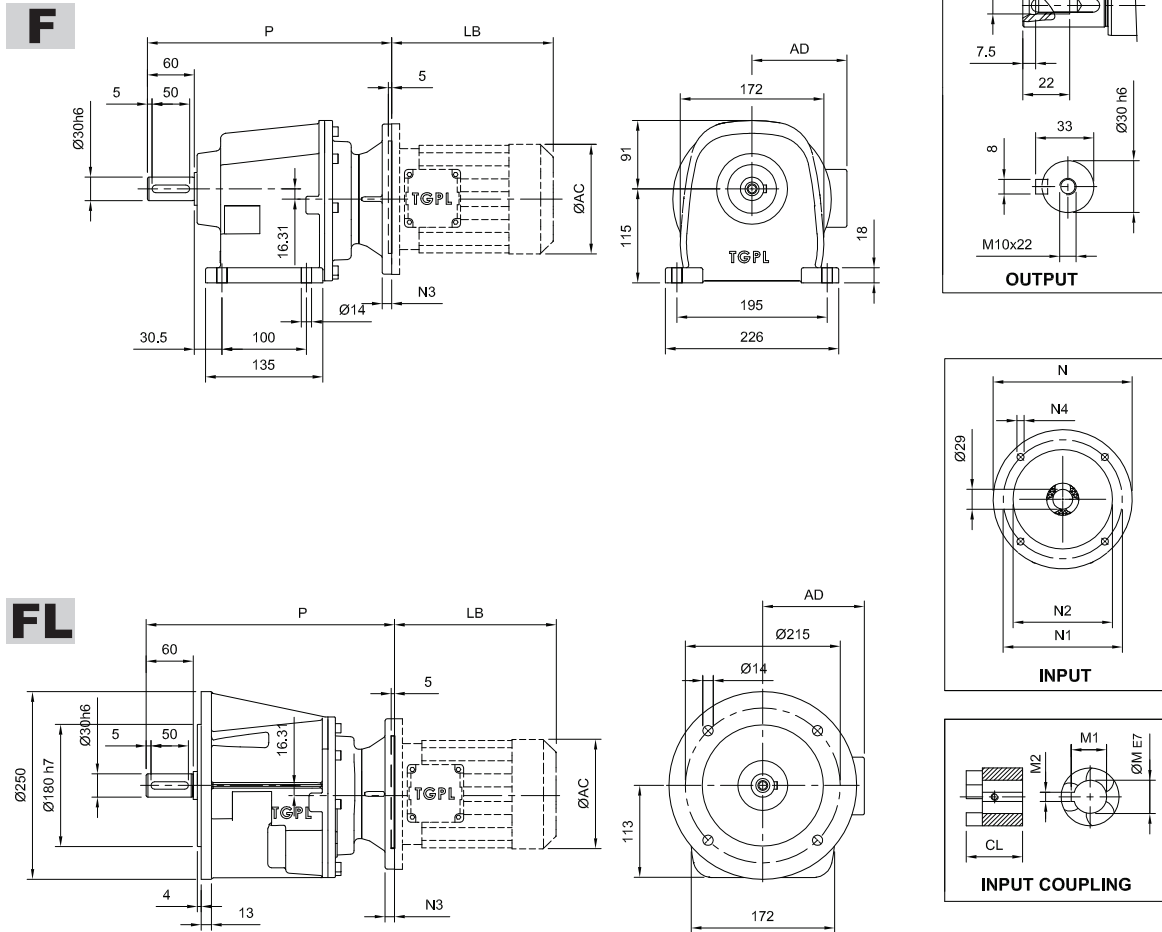
Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	Weight (kg)		TM			TM - DCB			
												TM	DCB	LB	AC	AD	LB	AC	AD	
TH25-2	F63	11	12.8	4	23.7	140	115	95	10	9	257	14.2	15.7	TM63	184	120	98	247	120	100
TH25-2	F71	14	16.3	5	26.7	160	130	110	10	9	260	14.3	15.8	TM71	200	139	109	258	140	112
TH25-2	F80	19	21.8	6	36.7	200	165	130	12	12	270	14.5	16.0	TM80	224	156	131	290	156	133
TH25-2	F90S	24	27.3	8	36.7	200	165	130	12	12	270	14.6	16.1	TM90S	224	172	136	315	172	136
TH25-2	F90L	24	27.3	8	36.7	200	165	130	12	12	270	14.6	16.1	TM90L	265	172	136	336	172	136
Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	Weight (kg)		TM			TM - DCB			
TH25-3	F63	11	12.8	4	23.7	140	115	95	10	9	274	15.5	17.1	TM63	184	120	98	247	120	100
TH25-3	F71	14	16.3	5	26.7	160	130	110	10	9	277	15.6	17.2	TM71	200	139	109	258	140	112
TH25-3	F80	19	21.8	6	36.7	200	165	130	12	12	287	15.8	17.4	TM80	224	156	131	290	156	133

**TH25 - - - ISS**



		A	B	E	F	F1	F2	F3	F4	V			
	<b>TH25-2</b>	<b>ISS</b>	289	199	40	19	21.5	6	5	30	M6x16	14.2	16.7
	<b>TH25-3</b>	<b>ISS</b>	306	216	40	16	18	5	5	30	M6x16	15.5	17.1

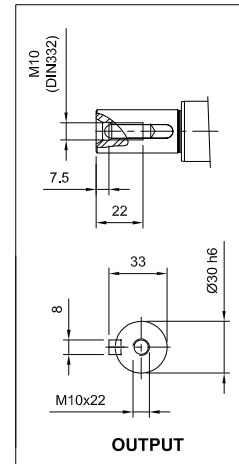
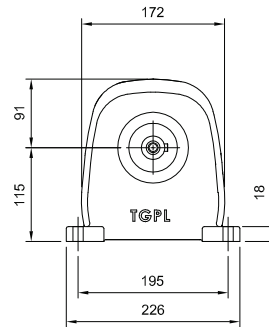
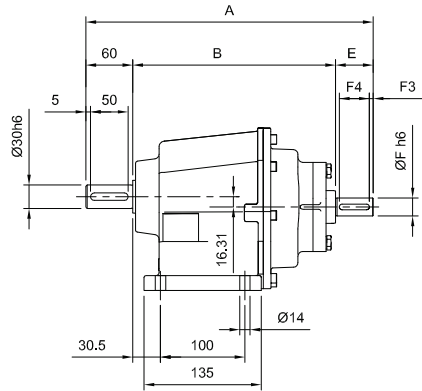
**TH30 - - - IEC**



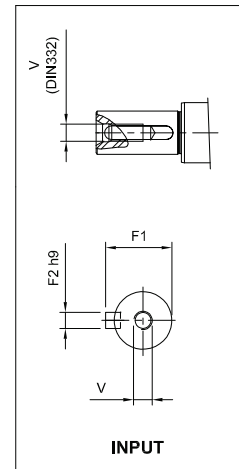
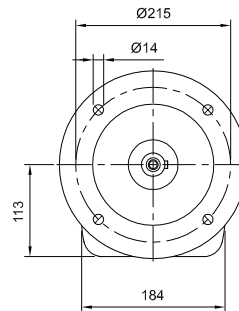
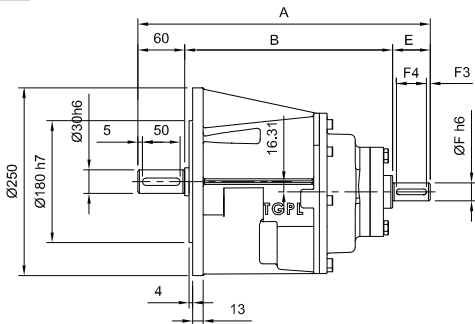
Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	K <sub>G</sub>		TM	TM			TM - DCB		
												LB	AC		AD	LB	AC	AD		
TH30-2	F71	14	16.3	5	26.7	160	130	110	10	9	289	21.0	22.0	TM71	200	139	109	258	140	112
TH30-2	F80	19	21.8	6	36.7	200	165	130	12	12	299	21.3	22.3	TM80	224	156	131	290	156	133
TH30-2	F90S	24	27.3	8	36.7	200	165	130	12	12	299	21.4	22.4	TM90S	242	172	136	315	172	136
TH30-2	F90L	24	27.3	8	36.7	200	165	130	12	12	299	21.4	22.4	TM90L	265	172	136	336	172	136
TH30-2	F100	28	31.3	8	43.7	250	215	180	14	15	308	22.1	23.1	TM100	297	196	145	387	198	146
TH30-2	F112	28	31.3	8	43.7	250	215	180	14	15	308	22.1	23.1	TM112	316	216	154	395	217	156
Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	K <sub>G</sub>		TM	TM			TM - DCB		
TH30-3	F63	11	12.8	4	23.7	140	115	95	10	9	300	21.1	22.1	TM63	184	120	98	247	120	100
TH30-3	F71	14	16.3	5	26.7	160	130	110	10	9	303	21.7	22.7	TM71	200	139	109	258	140	112
TH30-3	F80	19	21.8	6	36.7	200	165	130	12	12	313	22.1	23.1	TM80	224	156	131	290	156	133
TH30-3	F90S	24	27.3	8	36.7	200	165	130	12	12	313	22.2	23.2	TM90S	242	172	136	315	172	136
TH30-3	F90L	24	27.3	8	36.7	200	165	130	12	12	313	22.2	23.2	TM90L	265	172	136	336	172	136

**TH30 - - - ISS**

**F**



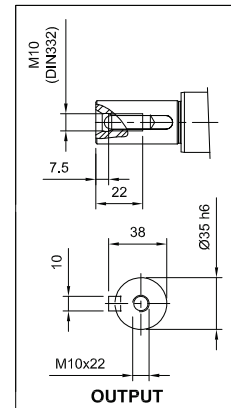
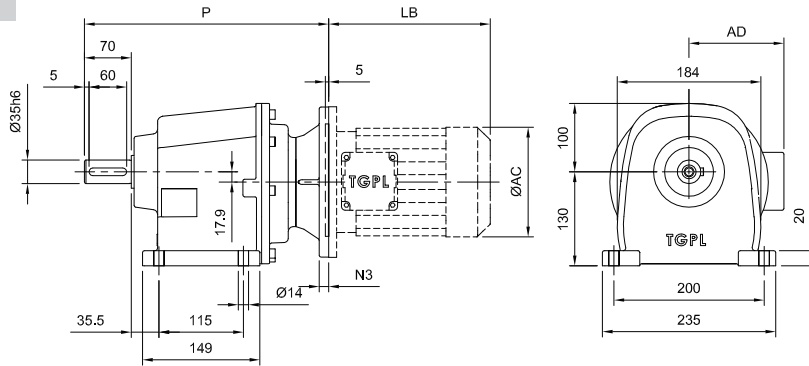
**FL**



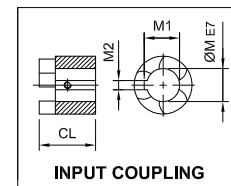
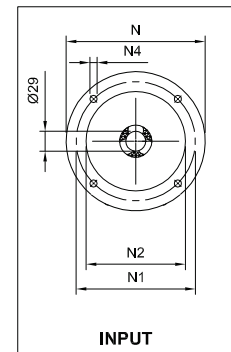
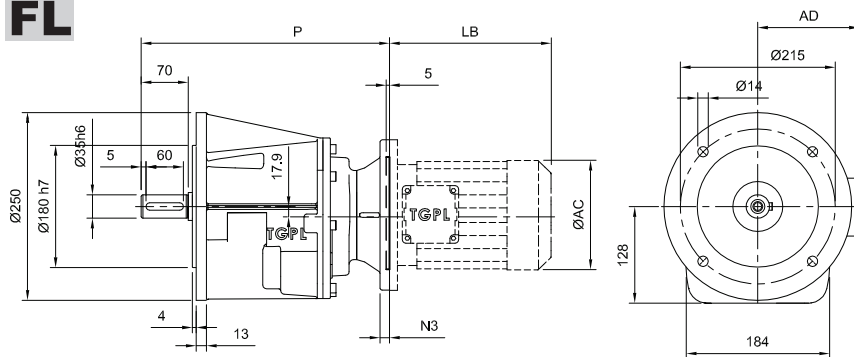
		A	B	E	F	F1	F2	F3	F4	V	Kg		
	<b>TH30-2</b>	<b>ISS</b>	327	217	50	24	27	8	5	40	M8x19	21.0	22.0
	<b>TH30-3</b>	<b>ISS</b>	332	232	40	19	21.5	6	5	30	M6x16	21.7	22.7

**TH35 - - - IEC**

**F**



**FL**

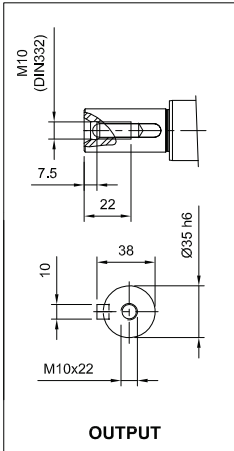
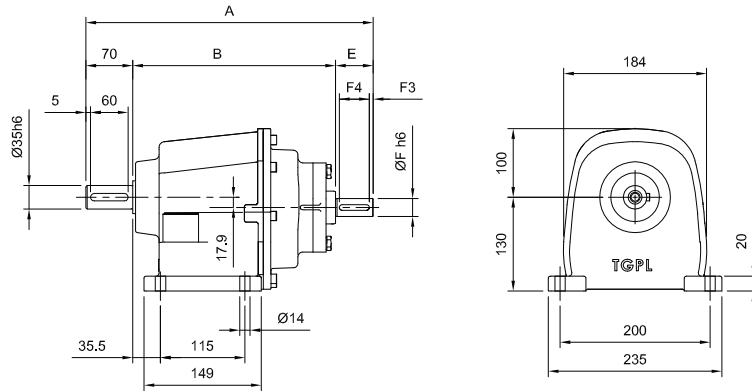


Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	Kg		Motor Type	TM			TM - DCB		
												IP	IP		LB	AC	AD	LB	AC	AD
TH35-2	F71	14	16.3	5	26.7	160	130	110	10	9	325	26.7	29.2	TM71	200	139	109	258	140	112
TH35-2	F80	19	21.8	6	36.7	200	165	130	12	12	335	26.9	29.5	TM80	224	156	131	290	156	133
TH35-2	F90S	24	27.3	8	36.7	200	165	130	12	12	335	27.1	29.6	TM90S	242	172	136	315	172	136
TH35-2	F90L	24	27.3	8	36.7	200	165	130	12	12	335	27.1	29.6	TM90L	265	172	136	336	172	136
TH35-2	F100	28	31.3	8	43.7	250	215	180	14	15	343	27.8	29.8	TM100	297	196	145	387	198	146
TH35-2	F112	28	31.3	8	43.7	250	215	180	14	15	343	27.8	29.8	TM112	316	216	154	395	217	156
Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	Kg		Motor Type	TM			TM - DCB		
TH35-3	F71	14	16.3	5	26.7	160	130	110	10	9	334	27.7	30.2	TM71	200	139	109	258	140	112
TH35-3	F80	19	21.8	6	36.7	200	165	130	12	12	344	28.0	30.5	TM80	224	156	131	290	156	133
TH35-3	F90S	24	27.3	8	36.7	200	165	130	12	12	344	28.1	30.6	TM90S	242	172	136	305	172	136
TH35-3	F90L	24	27.3	8	36.7	200	165	130	12	12	344	28.1	30.6	TM90L	265	172	136	336	172	136

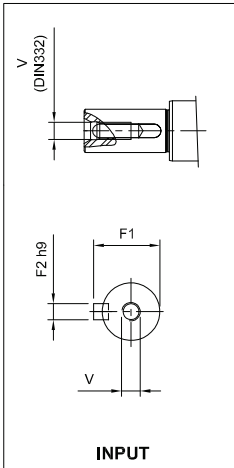
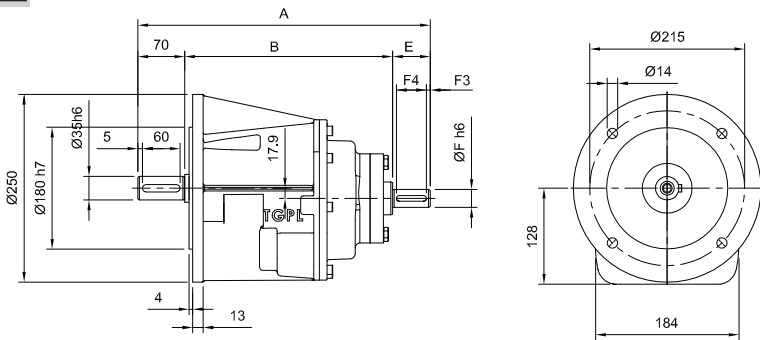


**TH35 - - - ISS**

**F**

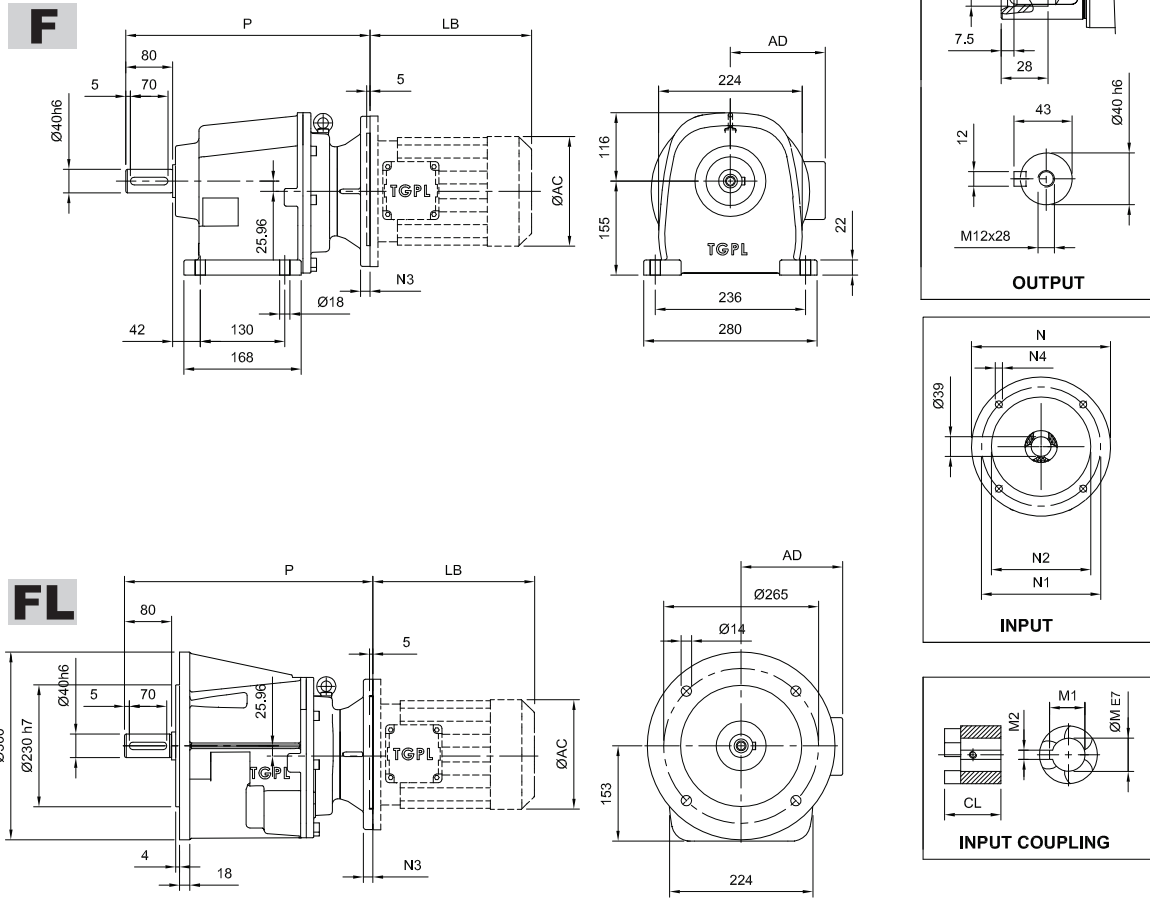


**FL**



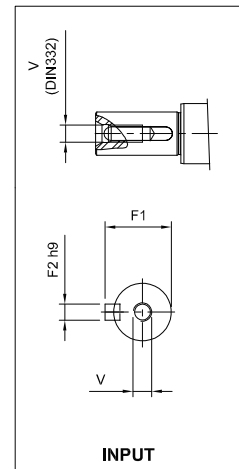
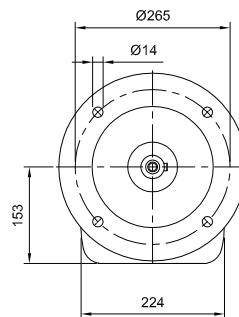
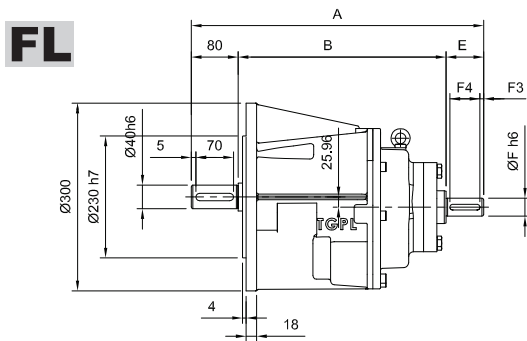
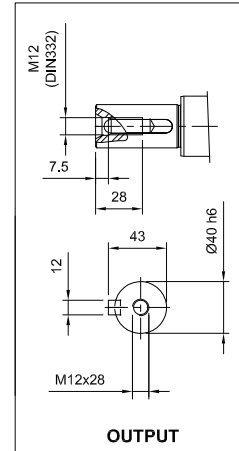
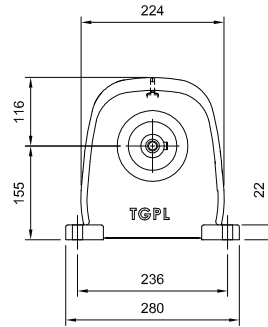
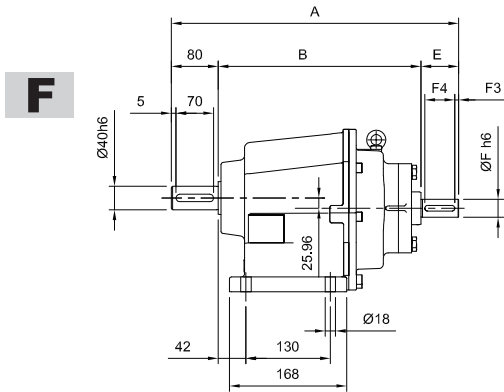
		A	B	E	F	F1	F2	F3	F4	V	Kg		
	<b>TH35-2</b>	<b>ISS</b>	363	243	50	24	27	8	5	40	M8x19	26.7	29.2
	<b>TH35-3</b>	<b>ISS</b>	372	252	50	24	27	8	5	40	M8x19	27.7	30.2

**TH40 - - - IEC**



Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	kg		TM	TM			TM - DCB		
												LB	AC		AD	LB	AC	AD		
TH40-2	F80	19	21.8	6	42.2	200	165	130	12	12	391	47.4	49.5	TM80	224	156	131	290	156	133
TH40-2	F90S	24	27.3	8	42.2	200	165	130	12	12	391	47.5	49.7	TM90S	242	172	136	315	172	136
TH40-2	F90L	24	27.3	8	42.2	200	165	130	12	12	391	47.5	49.7	TM90L	265	172	136	336	172	136
TH40-2	F100	28	31.3	8	49.2	250	215	180	14	15	398	48.7	50.6	TM100	297	196	145	387	198	146
TH40-2	F112	28	31.3	8	49.2	250	215	180	14	15	398	48.7	50.6	TM112	316	216	154	395	217	156
TH40-2	F132	38	41.3	10	61.2	300	265	230	16	15	410	50.1	52.7	TM132						
Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	kg		TM	TM			TM - DCB		
												LB	AC		AD	LB	AC	AD		
TH40-3	F71	14	16.3	5	26.7	160	130	110	10	9	375	45.8	48.6	TM71	200	139	109	258	140	112
TH40-3	F80	19	21.8	6	36.7	200	165	130	12	12	385	45.9	48.7	TM80	224	156	131	290	156	133
TH40-3	F90S	24	27.3	8	36.7	200	165	130	12	12	385	46.0	48.8	TM90S	242	172	136	315	172	136
TH40-3	F90L	24	27.3	8	36.7	200	165	130	12	12	385	46.0	48.8	TM90L	265	172	136	336	172	136
TH40-3	F100	28	31.3	8	43.7	250	215	180	14	15	392	45.0	47.7	TM100	297	196	145	387	198	146

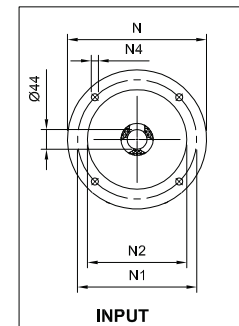
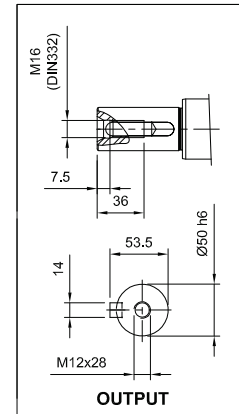
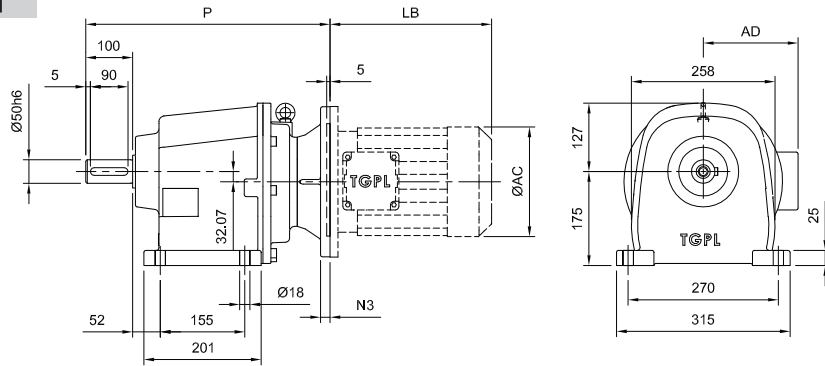
**TH40 - - - ISS**



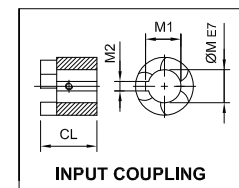
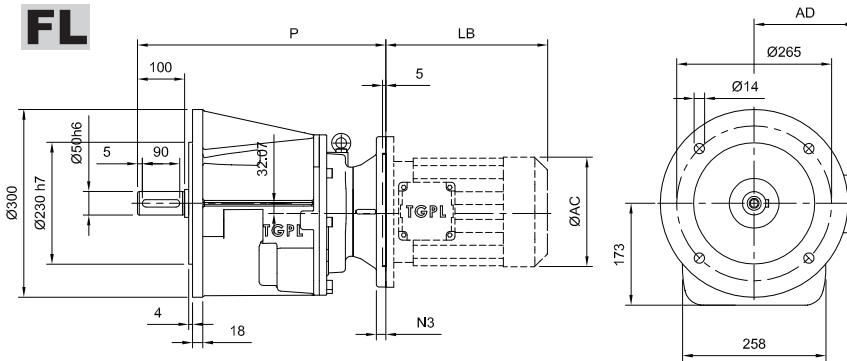
		A	B	E	F	F1	F2	F3	F4	V	Kg		
	<b>TH40-2</b>	<b>ISS</b>	428	288	60	28	31	8	5	50	M10X22	47.4	49.5
		A	B	E	F	F1	F2	F3	F4	V	Kg		
	<b>TH40-3</b>	<b>ISS</b>	413	283	50	24	27	8	5	40	M8x19	45.8	48.6

**TH50 - - - IEC**

**F**

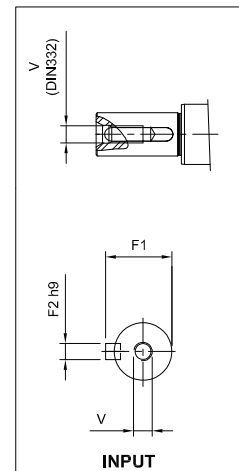
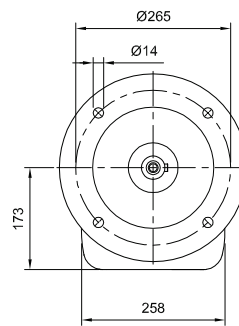
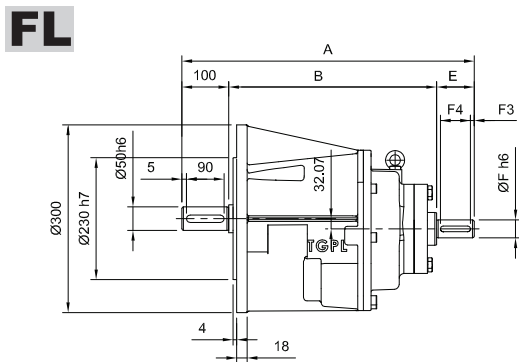
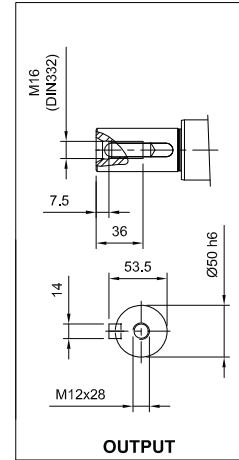
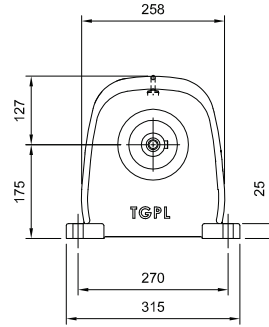
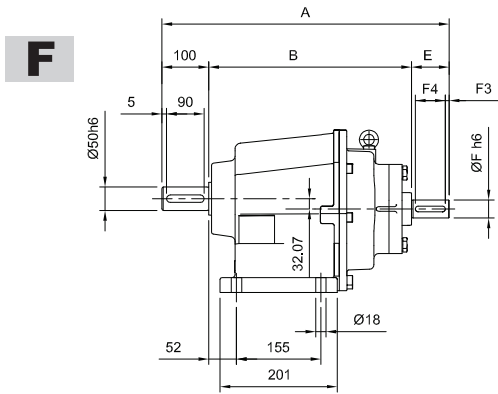


**FL**



Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	Kg		Motor Type	TM			TM - DCB		
												LB	AC		AD	LB	AC	AD		
TH50-2	F90S	24	27.3	8	48.7	200	165	130	12	12	462	71.3	74.1	TM90S	242	172	136	315	172	136
TH50-2	F90L	24	27.3	8	48.7	200	165	130	12	12	462	71.3	74.1	TM90L	265	172	136	336	172	136
TH50-2	F100	28	31.3	8	52.7	250	215	180	14	15	466	73.2	76.0	TM100	297	196	145	387	198	146
TH50-2	F112	28	31.3	8	52.7	250	215	180	14	15	466	73.2	76.0	TM112	316	216	154	395	217	156
TH50-2	F132	38	41.3	10	62.7	300	265	230	16	15	476	76.0	78.9	TM132						
TH50-2	F160	42	45.3	12	70.2	350	300	250	20	19	484	80.3	83.1	TM160						
Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	Kg		Motor Type	TM			TM - DCB		
TH50-3	F80	19	21.8	6	42.2	200	165	130	12	12	475	73.2	76.0	TM80	224	156	131	290	156	133
TH50-3	F90S	24	27.3	8	42.2	200	165	130	12	12	475	73.2	76.0	TM90S	242	172	136	315	172	136
TH50-3	F90L	24	27.3	8	42.2	200	165	130	12	12	475	73.2	76.0	TM90L	265	172	136	336	172	136
TH50-3	F100	28	31.3	8	49.2	250	215	180	14	15	482	75.8	78.6	TM100	297	196	145	387	198	146
TH50-3	F112	28	31.3	8	49.2	250	215	180	14	15	482	75.8	78.6	TM112	316	216	154	395	217	156
TH50-3	F132	38	41.3	10	61.2	300	265	230	16	15	494	78.6	81.4	TM132						

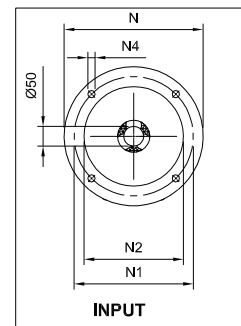
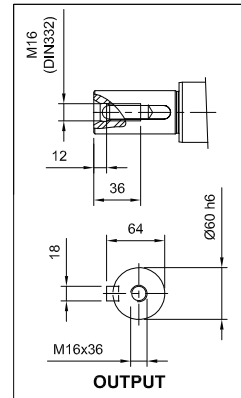
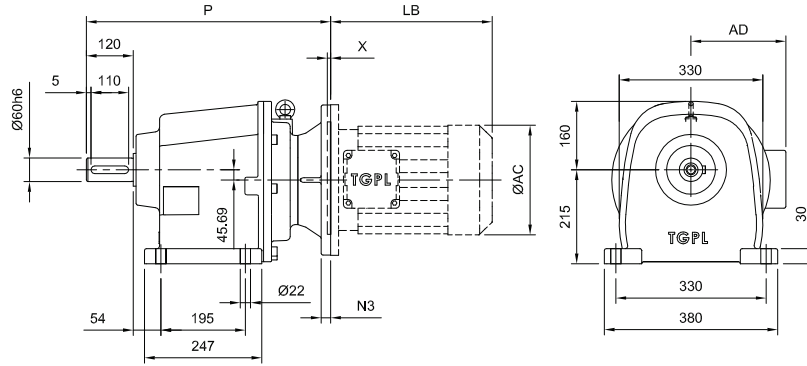
**TH50 - - - ISS**



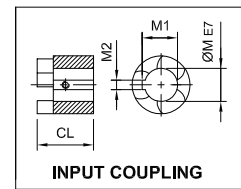
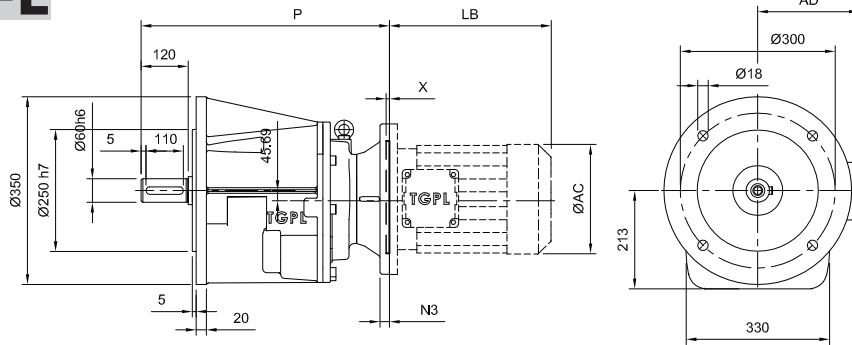
		A	B	E	F	F1	F2	F3	F4	V	Kg		
	<b>TH50-2</b>	<b>ISS</b>	516	336	80	38	41	10	10	60	M10X22	69.4	72.2
	<b>TH50-3</b>	<b>ISS</b>	512	352	60	28	31	8	5	50	M10x22	71.3	74.1

**TH60 - - - IEC**

**F**



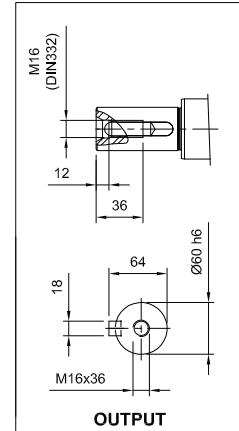
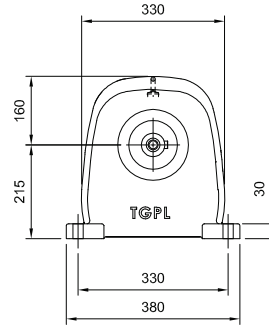
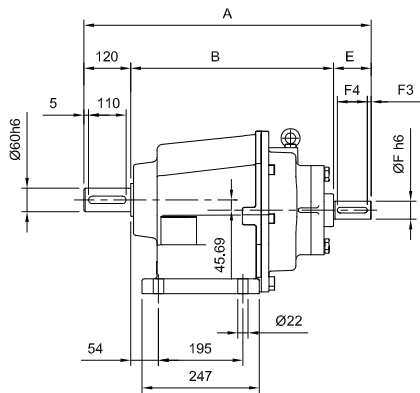
**FL**



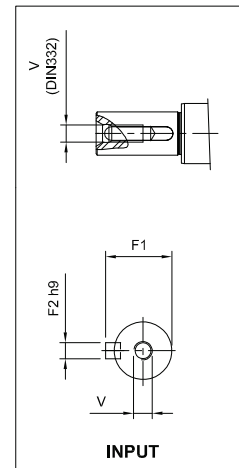
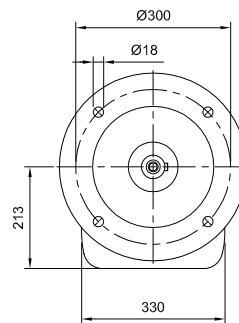
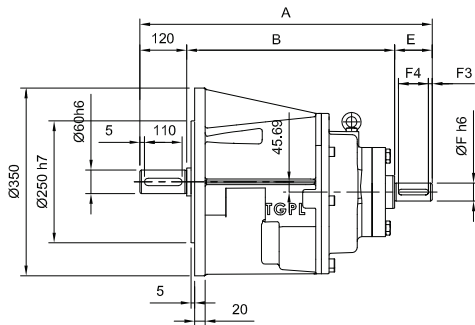
Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	X	Kg	Motor Type	TM			TM - DCB			
															LB	AC	AD	LB	AC	AD	
TH60-2	F100	28	31.3	8	52.7	250	215	180	14	15	535	5	122.1	122.5	TM100	297	196	145	387	198	146
TH60-2	F112	28	31.3	8	52.7	250	215	180	14	15	535	5	122.1	122.5	TM112	316	216	154	395	217	156
TH60-2	F132	38	41.3	10	62.7	300	265	230	16	15	545	5	122.6	122.6	TM132						
TH60-2	F160	42	45.3	12	70.2	350	300	250	20	19	553	5	126.4	126.4	TM160						
TH60-2	F180	48	51.8	14	70.2	350	300	250	20	19	553	6	126.4	126.4	TM180						
TH60-3	F90S	24	27.3	8	48.7	200	165	130	12	12	552	5	115.9	115.9	TM90S	242	172	136	315	172	136
TH60-3	F90L	24	27.3	8	48.7	200	165	130	12	12	552	5	115.9	115.9	TM90L	265	172	136	336	172	136
TH60-3	F100	28	31.3	8	52.7	250	215	180	14	15	556	5	117.8	117.8	TM100	297	196	145	387	198	146
TH60-3	F112	28	31.3	8	52.7	250	215	180	14	15	556	5	117.8	117.8	TM112	316	216	154	395	217	156
TH60-3	F132	38	41.3	10	62.7	300	265	230	16	15	566	5	122.6	122.6	TM132						
TH60-3	F160	42	45.3	12	70.2	350	300	250	20	19	574	5	126.4	126.4	TM160						

**TH60 - - - ISS**

**F**



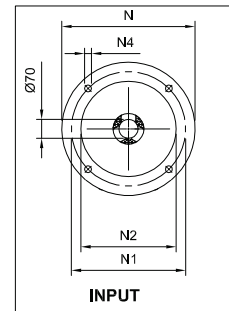
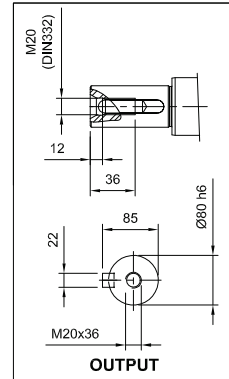
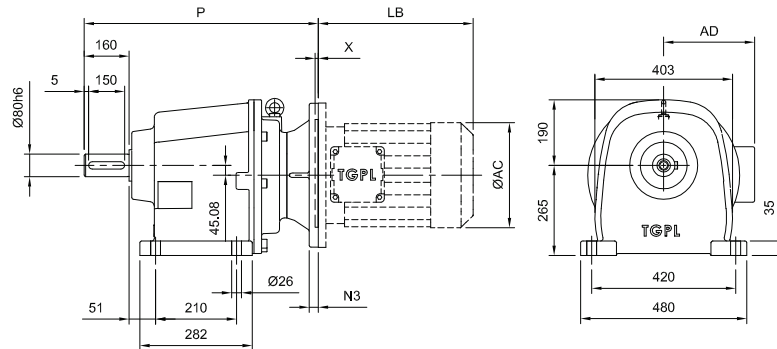
**FL**



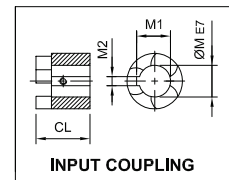
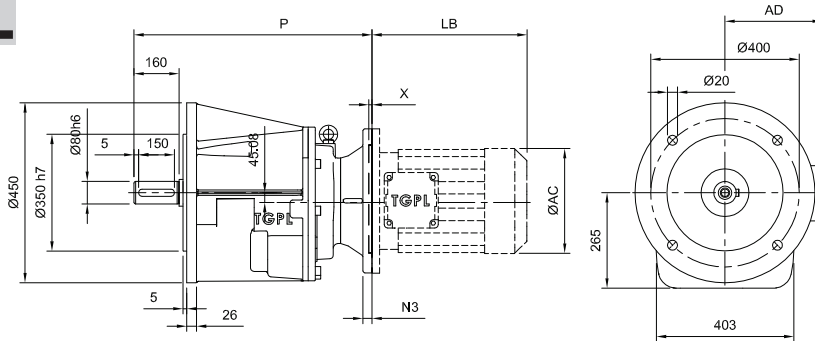
		A	B	E	F	F1	F2	F3	F4	V	Kg		
	<b>TH60-2</b>	<b>ISS</b>	616	386	110	42	45	12	10	90	M12X28	120.7	120.7
	<b>TH60-3</b>	<b>ISS</b>	607	407	80	38	41	10	10	60	M10x22	114.0	114.0

**TH80 - - - IEC**

**F**



**FL**

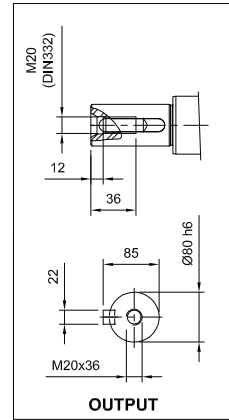
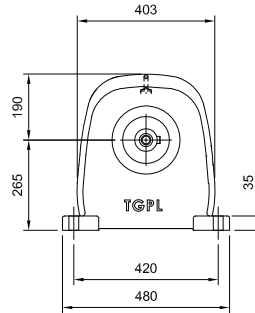
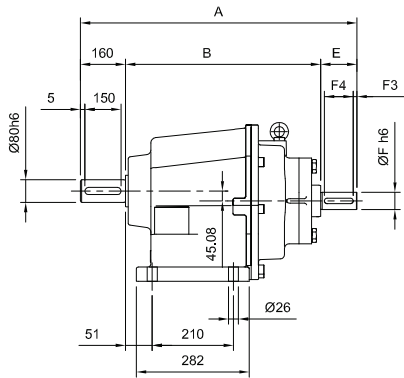


Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	X	Kg	Motor Type	TM			TM - DCB			
															LB	AC	AD	LB	AC	AD	
TH80-2	F160	42	45.3	12	72.2	350	300	250	20	19	634	6	172.9	180.5							
TH80-2	F180	48	51.8	14	72.2	350	300	250	20	19	634	6	172.9	180.5							
TH80-2	F200	55	59.3	16	79.2	400	350	300	20	19	641	6	176.7	184.3							
TH80-2	F225	60	64.4	18	81.2	450	400	350	22	19	643	6	181.5	189.1							
Motor Type	IEC	M	M1	M2	CL	N	N1	N2	N3	N4	P	X	Kg	Motor Type	TM			TM - DCB			
TH80-3	F100	28	31.3	8	52.7	250	215	180	14	15	640	5	175.8	183.4	TM100	297	196	145	387	198	146
TH80-3	F112	28	31.3	8	52.7	250	215	180	14	15	640	5	175.8	183.4	TM112	316	216	154	395	217	156
TH80-3	F132	38	41.3	10	62.7	300	265	230	16	15	650	5	178.6	186.2							
TH80-3	F160	42	45.3	12	70.2	350	300	250	20	19	658	6	181.5	189.1							
TH80-3	F180	48	51.8	14	70.2	350	350	300	20	19	658	6	181.5	189.1							

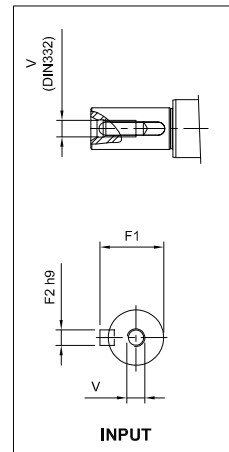
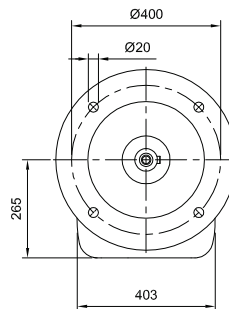
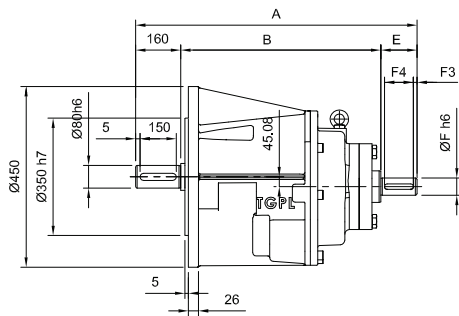


**TH80 - - - ISS**

**F**



**FL**



		A	B	E	F	F1	F2	F3	F4	V	Kg		
	<b>TH80-2</b>	<b>ISS</b>	700	430	110	48	51.5	14	10	90	M16x36	169.1	176.7
		A	B	E	F	F1	F2	F3	F4	V	Kg		
	<b>TH80-3</b>	<b>ISS</b>	720	450	110	42	45	12	10	90	M12x28	173.9	181.5