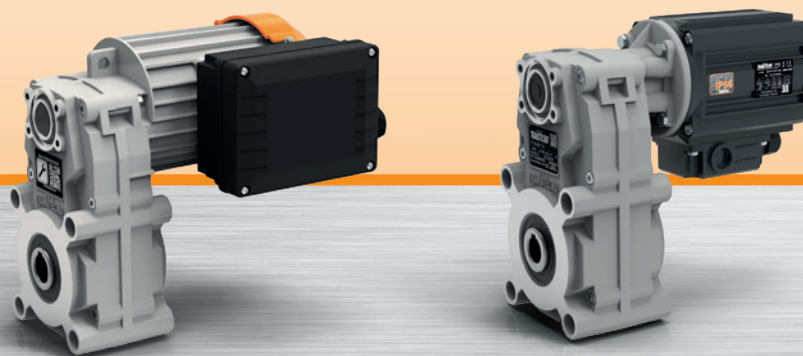


**MINI**  **TECNO**™  
**small** but strong

# KFT105 - FT

Motoriduttori CA pendolari  
AC Helical parallel gearmotors

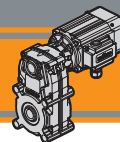


**MINI**  **TECNO**™ brand of  
**TRANSTECNO**®



AC

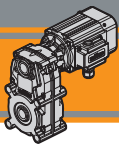




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**KFT105  
FT**

**Motoriduttori CA pendolari  
AC Helical parallel gearmotors**



**Caratteristiche tecniche**

**Technical features**

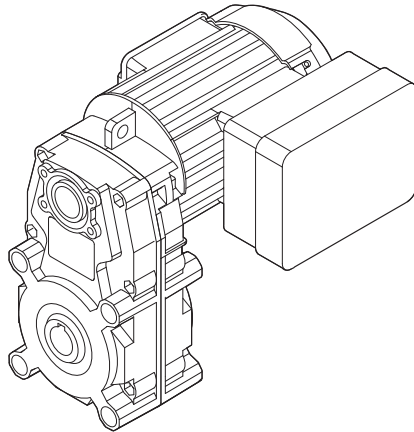
Le caratteristiche principali dei motoriduttori KFT e FT sono:

*KFT and FT gearmotor range has the following main features:*

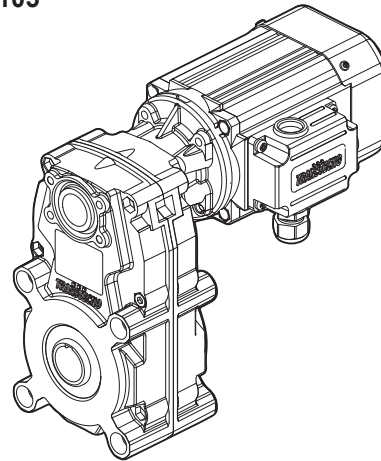
- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa motore SMT e SMM estrusa in alluminio anodizzato nero
- Carcasse dei riduttori in pressofusione di alluminio
- Motore elettrico SMT e SMM con grado di protezione IP66
- Lubrificazione permanente con olio sintetico
- Ingranaggi cilindrici a denti elicoidali, induriti e rettificati
- Disponibili sia nella versione ventilata TEFC (servizio S1) che non ventilata TENV (servizio S3)
- Protezione termica PTO 150°C per la taglia motore 56.
- SMT56 adatto al funzionamento con alimentazione da inverter
- SMT e SMM Disponibili nelle versioni autofrenante, servoven-tilata e con certificazione UL.
- Versione KFT105 con motore monofase integrato

- *Compact design*
- *AC single phase and three phase motors available*
- *SMT and SMM motors extruded aluminum housing black ano-dized*
- *Gearbox die-cast aluminum housing*
- *SMT and SMM electric motors in IP66 protection Standard*
- *Permanent synthetic oil long-life lubrication*
- *Ground-hardened helical gears*
- *Fan cooled TEFC (duty S1) and not ventilated TENV (duty S3) versions available*
- *PTO 150°C thermal protection for motor size 56.*
- *SMT56 is suitable for inverter duty*
- *Brake motors, forced ventilation motors and UL compliance versions available for SMT and SMM motors.*
- *KFT105 version with integrated single motor phase*

**KFT105**



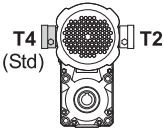
**FT105**

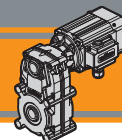


**Designazione**

**Classification**

RIDUTTORE / GEARBOX				
<b>KFT</b>	<b>105/3</b>	<b>U</b>	<b>88.87</b>	<b>O20</b>
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	Albero cavo uscita Hollow output shaft
<b>KFT</b> 	<b>105/3</b> <b>105/4</b>	<b>U...</b> <b>F...</b>	vedi tabelle see tables	vedi tabelle see tables

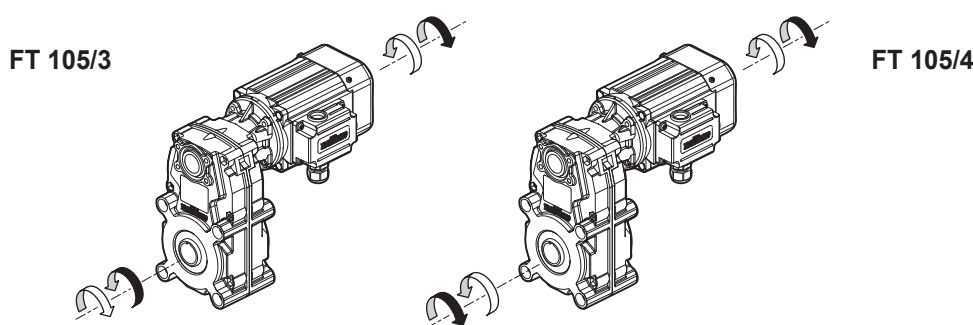
MOTORE / MOTOR						
<b>40W</b>	<b>4p</b>	<b>3ph</b>	<b>230/400V</b>	<b>50Hz</b>	<b>T1</b>	<b>TEFC</b>
Potenza Power	Poli Poles	Fasi Phases	Tensione Voltage	Frequenza Frequency	Pos. morsetti- Terminal box pos.	Ventilazione Fan cooling
vedi tabelle see tables	<b>4p</b>	<b>1ph</b> <b>3ph</b>	<b>230V</b> ... <b>230/400V</b> ...	<b>50Hz</b> <b>60Hz</b>		<b>TEFC</b> <b>TENV</b>


**Designazione**
**Classification**

RIDUTTORE / GEARBOX						
<b>FT</b>	<b>105/3</b>	<b>U</b>	<b>77.07</b>	<b>O20</b>	<b>56</b>	<b>B14</b>
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	Albero cavo uscita Hollow output shaft	IEC 	Forma costruttiva Version
<b>FT</b> 	<b>105/3</b> <b>105/4</b>	<b>U...</b>	vedi tabelle see tables	vedi tabelle see tables	<b>56</b>	<b>B14</b>

MOTORE TRIFASE / THREE PHASE MOTOR										
<b>SMT</b>	<b>56</b>	<b>4</b>	<b>4</b>	<b>0.18 kW</b>	<b>B14</b>	<b>230-400 V</b>	<b>50 Hz</b>	<b>TEFC</b>	<b>BR</b>	<b>T1</b>
Tipo Type	Grandezza Size	Indicativo potenza Power coefficient	Poli Poles	Potenza Power	Forma costruttiva Version	Tensione Voltage	Frequenza Frequency	Ventilazione Fan cooling	Opzioni Options	Pos. Morsettiera Terminal box pos.
<b>SMT</b> 	Vedere tab. See tab.	<b>1-2-3-4-5</b>	<b>4</b>	<b>0.04 kW</b> ... <b>0.25 kW</b>	<b>B14</b>	<b>230-400 V</b>  <b>460V</b>	<b>50Hz</b>  <b>60Hz</b>	<b>TEFC</b>  <b>TENV</b>	 <b>AB1</b> <b>AC1</b> <b>AD1</b>	<b>T1 (Std)</b>  <b>T4</b> <b>T2</b> <b>T3</b>

MOTORE MONOFASE / SINGLE PHASE MOTOR										
<b>SMM</b>	<b>56</b>	<b>4</b>	<b>4</b>	<b>0.18 kW</b>	<b>B14</b>	<b>230 V</b>	<b>50 Hz</b>	<b>TEFC</b>	<b>UL-CSA</b>	<b>T1</b>
Tipo Type	Grandezza Size	Indicativo potenza Power coefficient	Poli Poles	Potenza Power	Forma costruttiva Version	Tensione Voltage	Frequenza Frequency	Ventilazione Fan cooling	Opzioni Options	Pos. Morsettiera Terminal box pos.
<b>SMM</b> 	Vedere tab. See tab.	<b>1-2-3-4</b>	<b>4</b>	<b>0.04 kW</b> ... <b>0.18 kW</b>	<b>B14</b>	<b>230V</b>	<b>50Hz</b>	<b>TEFC</b>  <b>TENV</b>	 <b>AD1</b>	<b>T1 (Std)</b>  <b>T4</b> <b>T2</b> <b>T3</b>

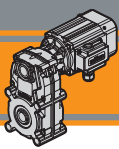
**Sensi di rotazione**
**Direction of rotation**

**Simbologia**
**Symbols**

$n_1$	[ $\text{min}^{-1}$ ]	Velocità in ingresso / <i>Input speed</i>
$n_2$	[ $\text{min}^{-1}$ ]	Velocità in uscita / <i>Output speed</i>
$i$		Rapporto di riduzione / <i>Ratio</i>
$P_1$	[kW]	Potenza in entrata / <i>Input power</i>
$M_2$	[Nm]	Coppia nominale in uscita in funzione di $P_1$ / <i>Output torque referred to <math>P_1</math></i>
$P_{n1}$	[kW]	Potenza nominale in entrata / <i>Nominal input power</i>
$M_{n2}$	[Nm]	Coppia nominale in uscita in funzione di $P_{n1}$ / <i>Nominal output torque referred to <math>P_{n1}</math></i>
$sf$		Fattore di servizio / <i>Service factor</i>
$R_2$	[N]	Carico radiale ammissibile in uscita / <i>Permitted output radial load</i>
$A_2$	[N]	Carico assiale ammissibile in uscita / <i>Permitted output axial load</i>

**Lubrificazione**
**Lubrication**

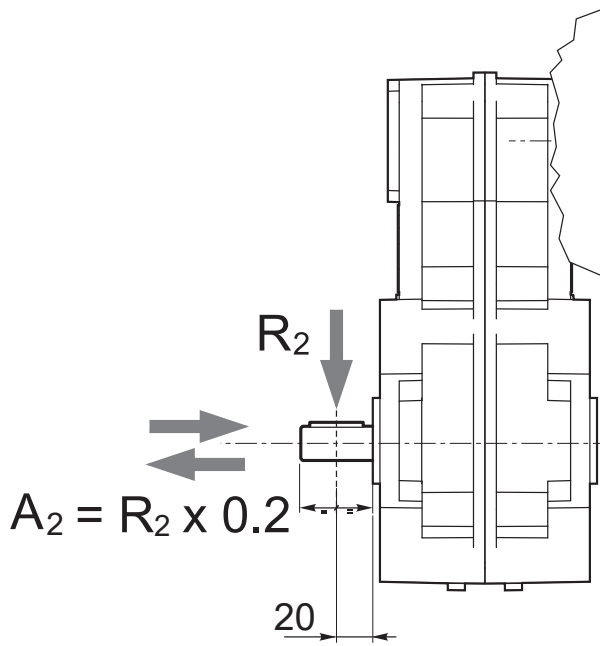
Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

*Permanent synthetic oil long-life lubrication ( viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.*



**Carichi radiali**

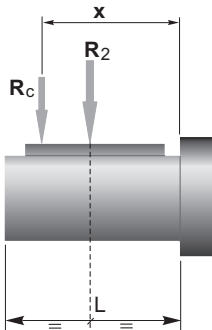
**Radial loads**



$n_2$ [min <sup>-1</sup> ]	$R_2$ [N]
	KFT105 FT105
70	1500
40	1700
30	1850
20	2000
10	2000
5	2000

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



	KFT105 FT105
a	82
b	62
$R_{2MAX}$	2000

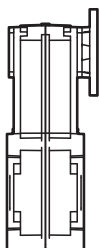
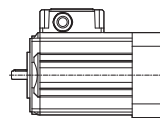
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

a, b = valori riportati nella tabella  
a, b = values given in the table

$$R \leq R_c$$

**Motori applicabili**

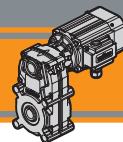
**IEC Motor adapters**



		SMT		SMM	
		5014	5624	5014	5624
		5024	5634	5024	5634
		5034	5644	5034	5644
		5044	5654		
<b>FT</b>	<b>105/3</b>	20.57 - 315.05			
<b>FT</b>	<b>105/4</b>	368.19 - 929.4			

20.57 - 929.4

Rapporti di riduzione i  
Ratio i



### Dati tecnici

### Technical data

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	M <sub>n</sub> [Nm]	i	
------------------------	--	------------------------	----	------------------------	---	--

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	M <sub>n</sub> [Nm]	i	
------------------------	--	------------------------	----	------------------------	---	--

#### 0.025

68	3	12.1	40	20.57	KFT105/3
42	5	9.4	50	33.32	
32	7	9.1	65	44.36	
26	9	7.4	65	54.87	
19	12	5.6	65	71.84	
18	12	5.3	65	77.07	
16	14	4.6	65	88.87	
11	20	3.2	65	124.81	
7.7	29	2.2	65	181.35	
6.2	36	1.8	65	224.32	
4.4	51	1.3	65	315.05	
3.8	58	1.1	65	368.19	KFT105/4
2.6	84	0.8	65	534.98	
2.1	104	0.6	65	661.76	
1.5	120	0.5	65	929.40	

#### 0.09

68	12	3.4	40	20.57	KFT105/3
42	19	2.6	50	33.32	
32	26	2.5	65	44.36	
26	32	2.1	65	54.87	
19	41	1.6	65	71.84	
18	44	1.5	65	77.07	
16	51	1.3	65	88.87	
11	72	0.9	65	124.81	
7.7	105	0.6	65	181.35	
6.2	110	0.6	65	224.32	

#### 0.04

68	5	7.6	40	20.57	KFT105/3
42	9	5.9	50	33.32	
32	11	5.7	65	44.36	
26	14	4.6	65	54.87	
19	18	3.5	65	71.84	
18	20	3.3	65	77.07	
16	23	2.9	65	88.87	
11	32	2.0	65	124.81	
7.7	47	1.4	65	181.35	
6.2	58	1.1	65	224.32	
4.4	81	0.8	65	315.05	
3.8	92	0.7	65	368.19	KFT105/4
2.6	120	0.5	65	534.98	
2.1	120	0.5	65	661.76	

#### 0.12

68	16	2.5	40	20.57	KFT105/3
42	26	2.0	50	33.32	
32	34	1.9	65	44.36	
26	42	1.5	65	54.87	
19	55	1.2	65	71.84	
18	59	1.1	65	77.07	
16	68	1.0	65	88.87	
11	96	0.7	65	124.81	
7.7	110	0.6	65	181.35	

#### 0.06

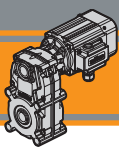
68	8	5.1	40	20.57	KFT105/3
42	13	3.9	50	33.32	
32	17	3.8	65	44.36	
26	21	3.1	65	54.87	
19	28	2.4	65	71.84	
18	30	2.2	65	77.07	
16	34	1.9	65	88.87	
11	48	1.4	65	124.81	
7.7	70	0.9	65	181.35	
6.2	86	0.8	65	224.32	
4.4	110	0.6	65	315.05	
3.8	120	0.5	65	368.19	KFT105/4

N.B.

Verificare sempre che la coppia M<sub>2</sub> utilizzata non ecceda il valore indicato nelle caselle in grigio

N.B.

Please check that the output torque M<sub>2</sub> does not exceed the value in the grey areas

**FT****Motoriduttori CA pendolari**  
**AC Helical parallel gearmotors****Dati tecnici****Technical data**

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i	
<b>0.04</b>					
SMT5014	<b>68</b>	5	7.6	20.57	<b>FT105/3</b>
SMM5014	<b>42</b>	9	5.9	33.32	
(1400 min <sup>-1</sup> )	<b>32</b>	11	5.7	44.36	
	<b>26</b>	14	4.6	54.87	
	<b>19</b>	18	3.5	71.84	
	<b>18</b>	20	3.3	77.07	
	<b>16</b>	23	2.9	88.87	
	<b>11</b>	32	2.0	124.81	
	<b>7.7</b>	47	1.4	181.35	
	<b>6.2</b>	58	1.1	224.32	
	<b>4.4</b>	81	0.8	315.05	
	<b>3.8</b>	92	0.7	368.19	<b>FT105/4</b>
	<b>2.6</b>	120	0.5	534.98	
	<b>2.1</b>	120	0.5	661.76	

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i	
<b>0.12</b>					
SMT5044	<b>68</b>	16	2.5	20.57	<b>FT105/3</b>
SMT5634	<b>42</b>	26	2.0	33.32	
SMM5624	<b>32</b>	34	1.9	44.36	
(1400 min <sup>-1</sup> )	<b>26</b>	42	1.5	54.87	
	<b>19</b>	55	1.2	71.84	
	<b>18</b>	59	1.1	77.07	
	<b>16</b>	68	1.0	88.87	
	<b>11</b>	96	0.7	124.81	
	<b>7.7</b>	110	0.6	181.35	

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i	
<b>0.06</b>					
SMT5024	<b>68</b>	8	5.1	20.57	<b>FT105/3</b>
SMM5024	<b>42</b>	13	3.9	33.32	
(1400 min <sup>-1</sup> )	<b>32</b>	17	3.8	44.36	
	<b>26</b>	21	3.1	54.87	
	<b>19</b>	28	2.4	71.84	
	<b>18</b>	30	2.2	77.07	
	<b>16</b>	34	1.9	88.87	
	<b>11</b>	48	1.4	124.81	
	<b>7.7</b>	70	0.9	181.35	
	<b>6.2</b>	86	0.8	224.32	
	<b>4.4</b>	92	0.7	315.05	

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i	
<b>0.18</b>					
SMT5644	<b>68</b>	24	1.7	20.57	<b>FT105/3</b>
SMM5644	<b>42</b>	38	1.3	33.32	
(1400 min <sup>-1</sup> )	<b>32</b>	51	1.3	44.36	
	<b>26</b>	63	1.0	54.87	
	<b>19</b>	83	0.8	71.84	
	<b>18</b>	89	0.7	77.07	
	<b>16</b>	92	0.7	88.87	
	<b>11</b>	110	0.6	124.81	

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i	
<b>0.25</b>					
SMT5654	<b>68</b>	33	1.2	20.57	<b>FT105/3</b>
(1400 min <sup>-1</sup> )	<b>42</b>	53	0.9	33.32	
	<b>32</b>	71	0.9	44.36	

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i	
<b>0.09</b>					
SMT5034	<b>68</b>	12	3.4	20.57	<b>FT105/3</b>
SMM5034	<b>42</b>	19	2.6	33.32	
SMT5624	<b>32</b>	26	2.5	44.36	
SMM5624	<b>26</b>	32	2.1	54.87	
(1400 min <sup>-1</sup> )	<b>19</b>	41	1.6	71.84	
	<b>18</b>	44	1.5	77.07	
	<b>16</b>	51	1.3	88.87	
	<b>11</b>	72	0.9	124.81	
	<b>7.7</b>	105	0.6	181.35	
	<b>6.2</b>	110	0.6	224.32	

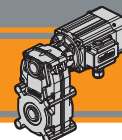
N.B.  
Verificare sempre che la coppia M<sub>2</sub> utilizzata non ecceda il valore indicato nelle caselle in grigio  
N.B.  
*Please check that the output torque M<sub>2</sub> does not exceed the value in the grey areas*



Motori Motors	SMT		SMM	
		5014 5024 5034 5044	5624 5634 5644 5654	5014 5024 5034
IEC	56 B14		56 B14	

**Dati tecnici elettrici****Electrical technical data**




**Dati tecnici elettrici - KFT 105**
**KFT 105 - Electrical technical data**

1 Ph	P <sub>n</sub> [W]	V [V]	F [Hz]	I <sub>n</sub> [A]	I <sub>s</sub> [A]	cosØ	C [µF]	TEFC Servizio Duty	TENV Servizio Duty
	25	230	50	0.42	0.84	0.87	6.0	S1 100%	S3 30%
	40			0.47	0.86	0.91	6.3		
	60			0.74	1.50	0.82	8.0		
	90			0.82	1.60	0.93	12.5		
	120			1.38	3.10	0.81	14.0		

3 Ph	P <sub>n</sub> [W]	V [V]	F [Hz]	I <sub>n</sub> [A]	I <sub>s</sub> [A]	cosØ	TEFC Servizio Duty	TENV Servizio Duty
	25	230	50	0.41	0.97	0.54	S1 100%	S3 30%
		400						
	40	230	50	0.43	0.97	0.62		
		400						
	60	230	50	0.72	1.80	0.48		
		400						
	90	230	50	0.74	1.80	0.60		
		400						
	120	230	50	1.34	3.70	0.50		
		400						

**Nota:**

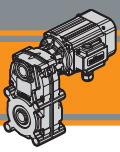
Classe di rendimento Standard IE1

**Note:**

Standard efficiency IE1

**Normative di riferimento**
**Reference standards**

	Europe EN	World IEC	Italy CEI
<b>Requisiti generali per macchine elettriche</b> <i>General requirements electrical machines</i>	EN 60034-1:2010	IEC 60034-1:2010	CEI EN 60034-1:2010
<b>Classificazione del grado di protezione</b> <i>Classification degree of protection provided by enclosures</i>	EN 60034-5:2001	IEC 60034-5:2001	CEI EN 60034-5:2001
<b>Sistema di raffreddamento</b> <i>Cooling system</i>	EN 60034-6:1993	IEC 60034-6:1993	CEI EN 60034-6:1993
<b>Modalità di montaggio</b> <i>Mounting arrangements</i>	EN 60034-7:1993	IEC 60034-7:1993	CEI EN 60034-7:1993



### Dimensioni

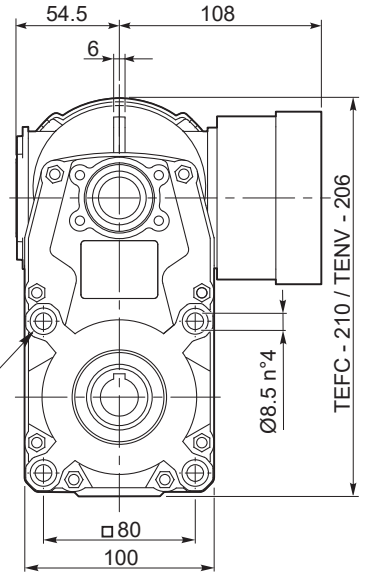
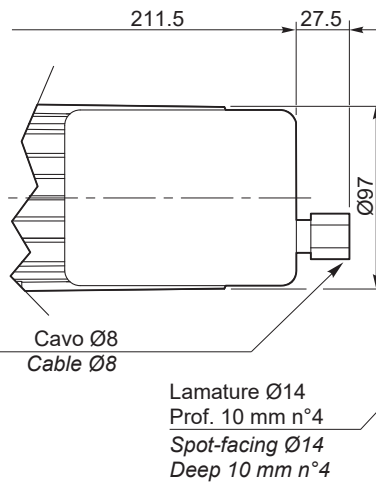
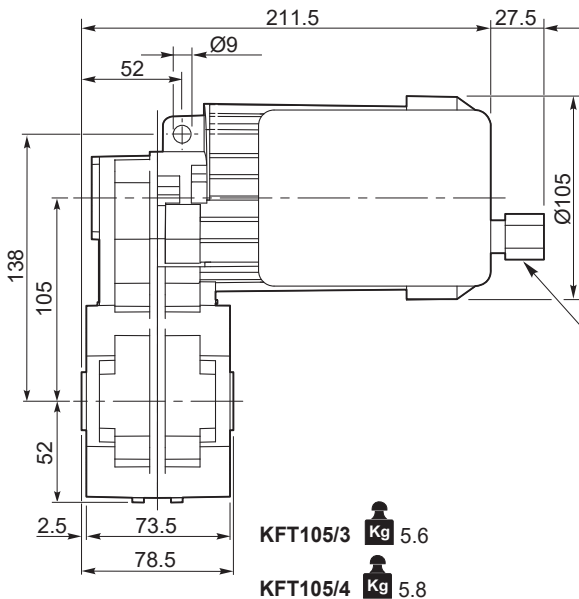
### Dimensions

## KFT 105... 25W - 40W - 60W - 90W

### KFT 105...1 Ph...TEFC

### KFT 105...1 Ph...TENV

S3 servizio duty 30%

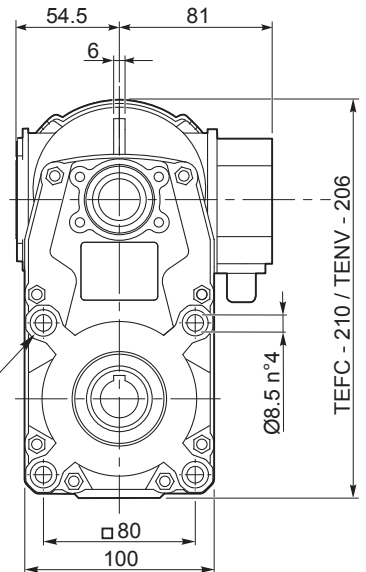
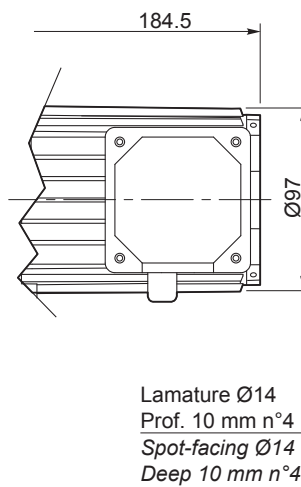
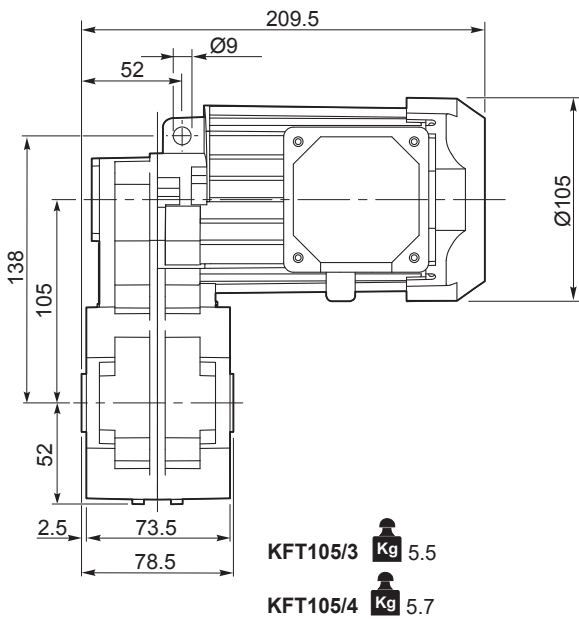


NOTA: Stessi fissaggi da entrambi i lati  
NOTE: Same fixing points in both sides

### KFT 105...3 Ph... TEFC

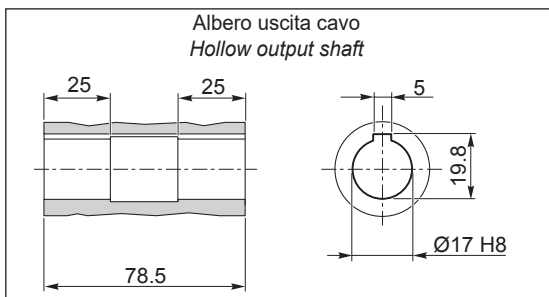
### KFT 105...3 Ph... TENV

S3 servizio duty 30%

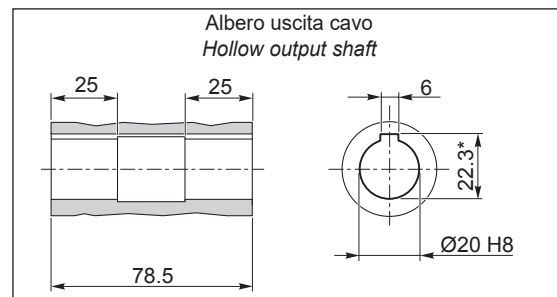


NOTA: Stessi fissaggi da entrambi i lati  
NOTE: Same fixing points in both sides

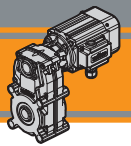
### O17



### O20



\*Sede linguetta ribassata / Special Keyway



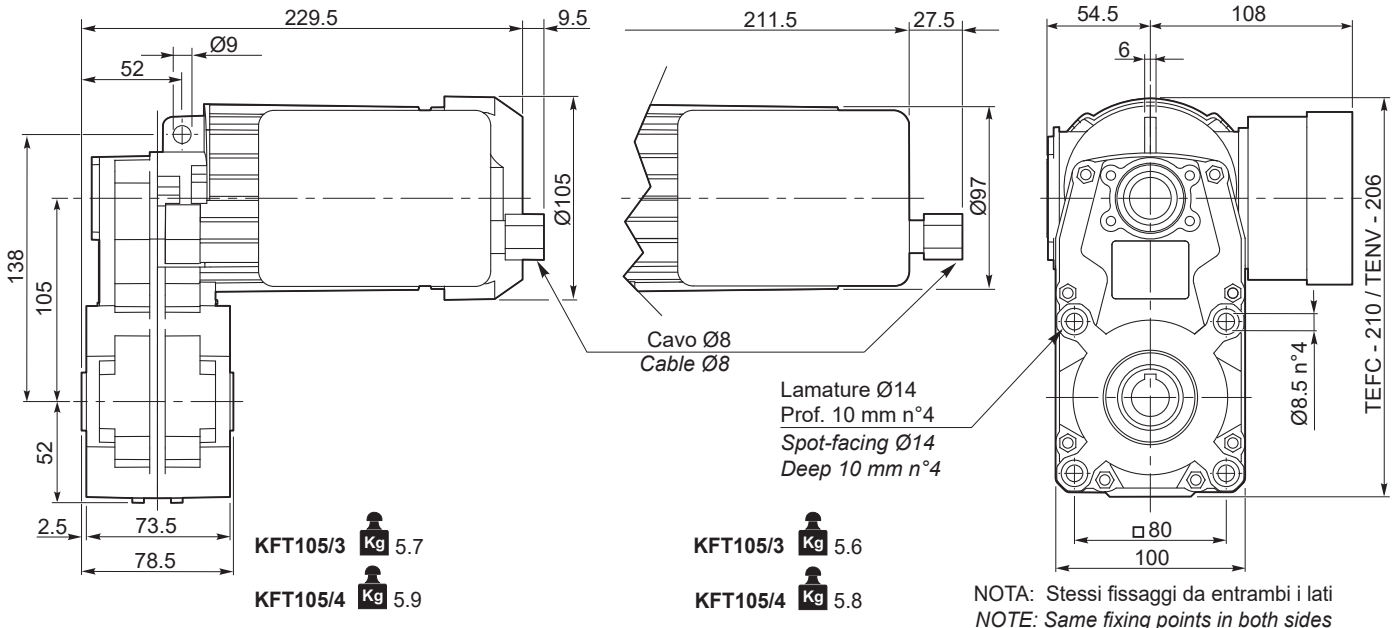
Dimensioni

Dimensions

**KFT 105... 120W**

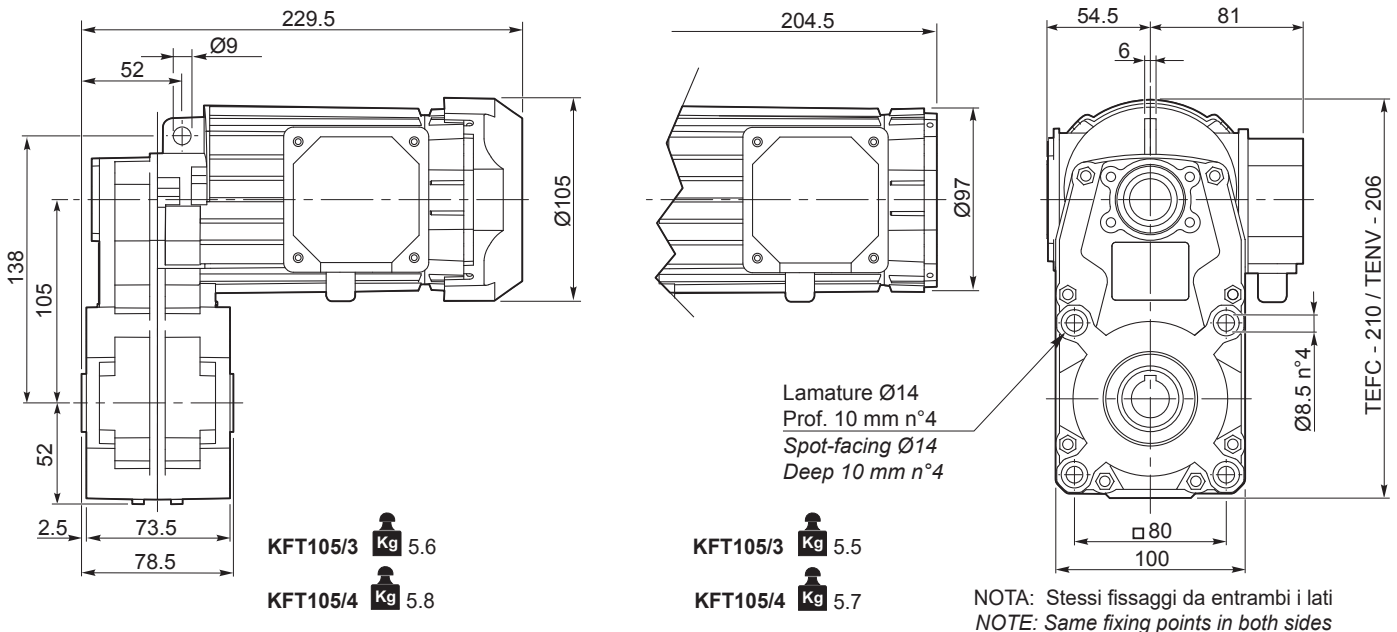
**KFT 105...1 Ph... TEFC**

**KFT 105...1 Ph...TENV S3 servizio duty 30%**

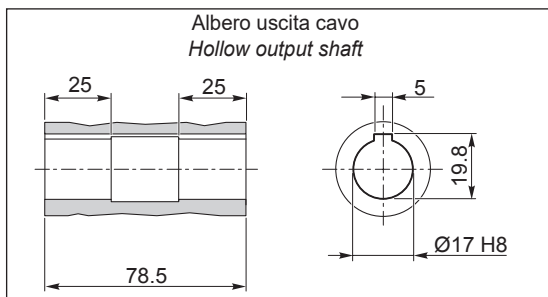


**KFT 105...3 Ph... TEFC**

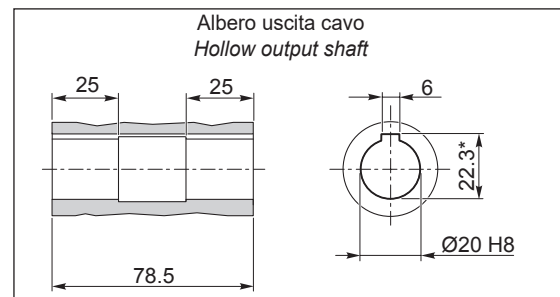
**KFT 105...3 Ph... TENV S3 servizio duty 30%**



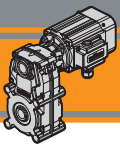
**O17**



**O20**



\*Sede linguetta ribassata/ Special Keyway



**FT**

**Motoriduttori CA pendolari**  
**AC Helical parallel gearmotors**

**MINI**  
**TECNO**

**Dimensioni**

**Dimensions**

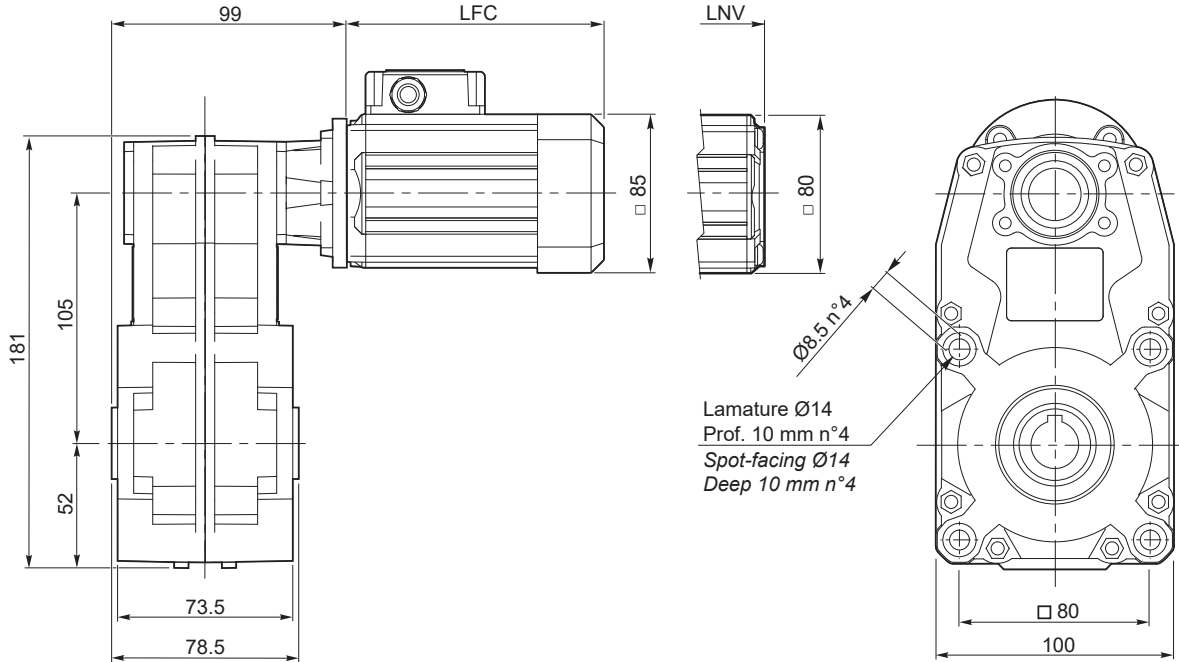
**FT105 U**

**FT 105...U**

**SMT50...TEFC**  
**SMM50... TEFC**

**SMT50...TENV**  
**SMM50... TENV**

**S3** servizio **30%**  
duty

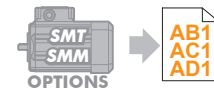


NOTA: Stessi fissaggi da entrambi i lati  
NOTE: Same fixing points in both sides

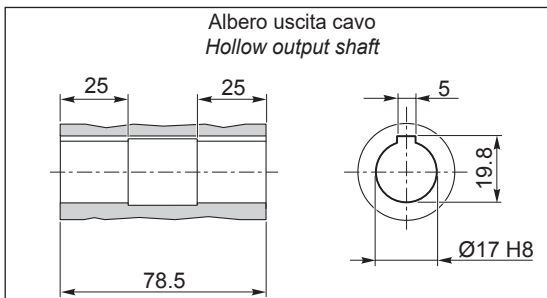
SMT	LFC	LNV	Kg	
5014	135.5	108.5	6.5	
5024	150.5	123.5	6.9	
5034	175.5	148.5	7.7	
5044	200.5	173.5	8.4	

SMM	LFC	LNV	Kg	
5014	150.5	123.5	6.9	
5024	175.5	148.5	7.7	
5034	200.5	173.5	8.4	

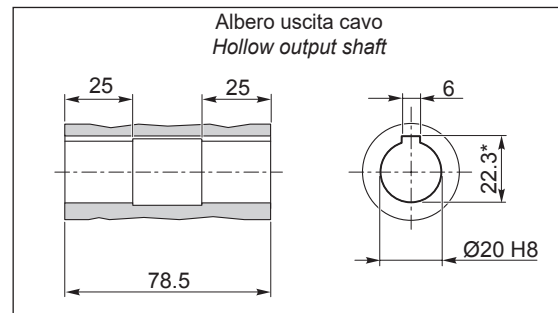
**Nota:**  
il condensatore sarà fornito a corredo  
**Note:**  
the capacitor will be supplied separately



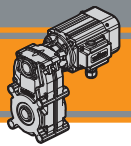
**O17**



**O20**



\*: Sede linguetta ribassata / Special keyway

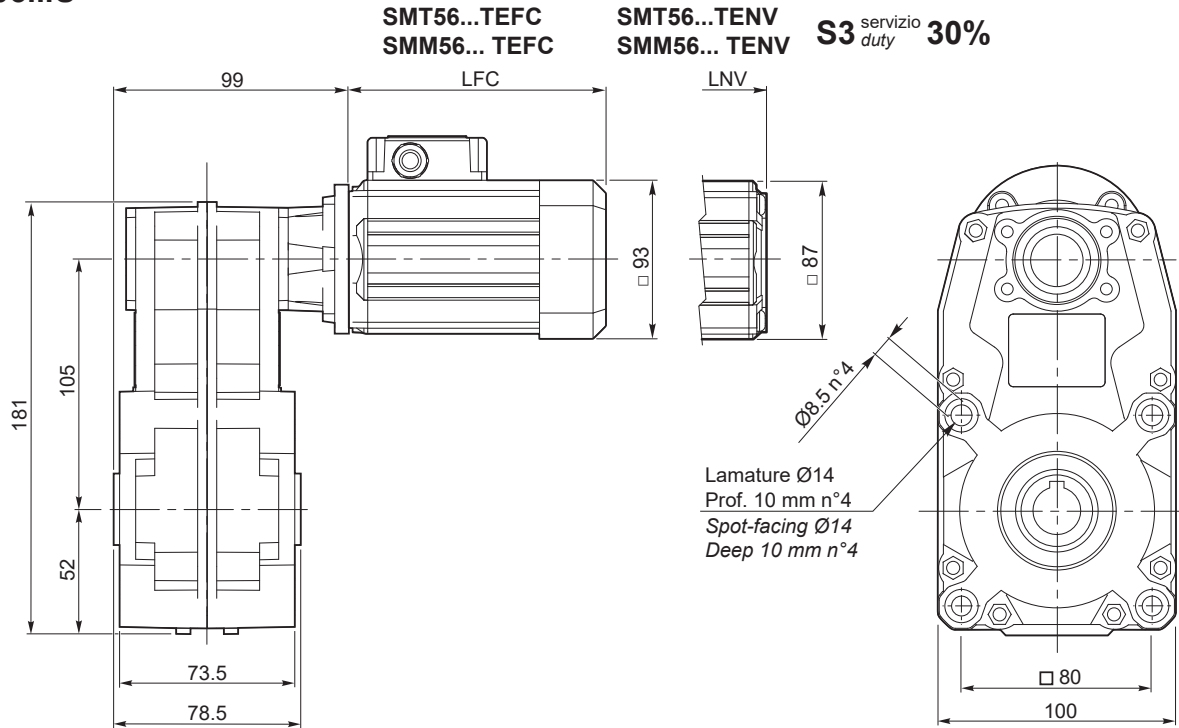


Dimensioni

Dimensions

FT105 U

FT 105...U



S3 servizio duty 30%

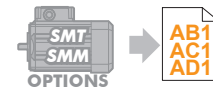
NOTA: Stessi fissaggi da entrambi i lati  
NOTE: Same fixing points in both sides

SMT	LFC	LNV	Kg	
5624	141	117	7	
5634	151	127	7.4	
5644	186	162	8.6	
5654	206	182	9.3	

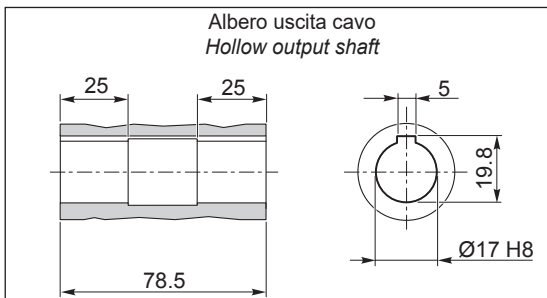
SMM	LFC	LNV	Kg	
5624	151	127	7.3	
5634	171	147	7.9	
5644	206	182	9.2	

Nota:  
il condensatore sarà fornito a corredo

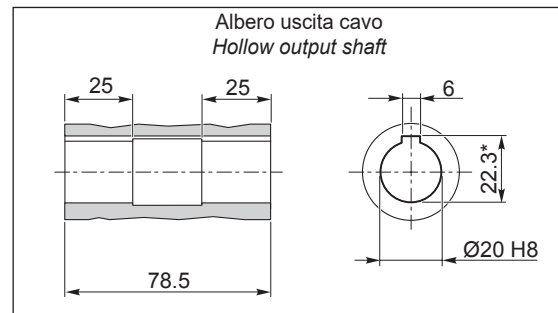
Note:  
the capacitor will be supplied separately



O17



O20



\*: Sede linguetta ribassata / Special keyway





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