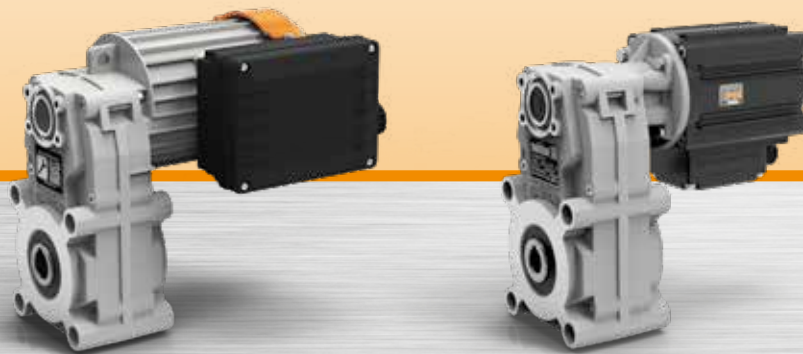
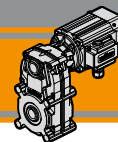


Motoriduttori CA pendolari
AC Helical parallel gearmotors

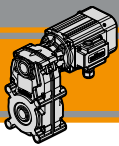




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Sensi di rotazione	<i>Direction of rotation</i>	AD3
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**KFT105
FT**

**Motoriduttori CA pendolari
AC Helical parallel gearmotors**



Caratteristiche tecniche

Technical features

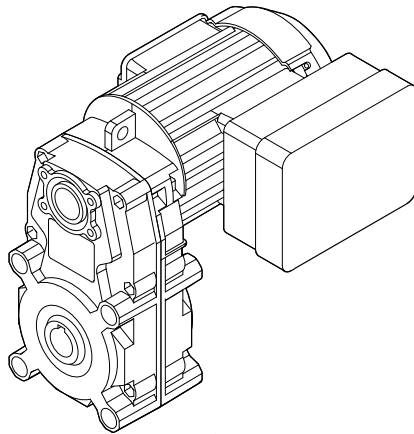
Le caratteristiche principali dei motoriduttori KFT e FT sono:

KFT and FT gearmotor range has the following main features:

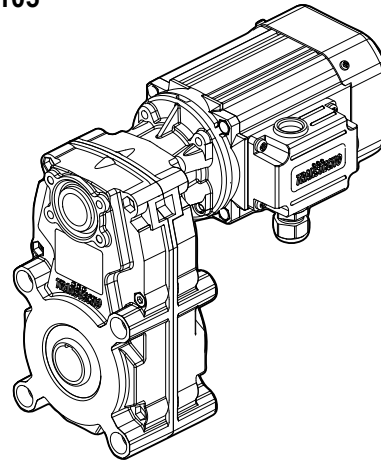
- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa motore estrusa in alluminio anodizzato nero
- Carcasse dei riduttori in pressofusione di alluminio
- Motore elettrico AC con grado di protezione IP66
- Lubrificazione permanente con olio sintetico
- Ingranaggi sempre rettificati
- Disponibili sia nella versione ventilata TEFC (servizio S1) che non ventilata TENV (servizio S3)
- Protezioni termiche per le taglie 56 e 63
- SMT56 e SMT63 adatti al funzionamento con alimentazione da inverter

- *Compact design*
- *AC single phase and three phase motors available*
- *Motor extruded aluminum housing black anodized*
- *Gearbox die-cast aluminum housing*
- *AC electric motor in IP66 protection Standard*
- *Permanent synthetic oil long-life lubrication*
- *Ground helical gears*
- *Fan cooled TEFC (duty S1) and not ventilated TENV (duty S3) versions available*
- *Thermal protection for motor sizes 56 and 63*
- *SMT56 and SMT63 are suitable for running with inverter*

KFT105

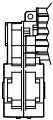


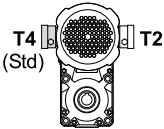
FT105

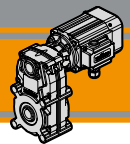


Designazione

Classification

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

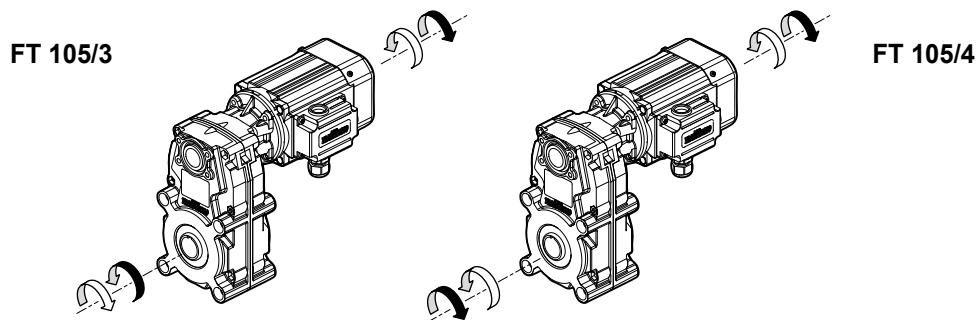
MOTORE / MOTOR						
40W	4p	3ph	230/400V	50Hz	T1	TEFC
Potenza Power	Poli Poles	Fasi Phases	Tensione Voltage	Frequenza Frequency	Pos. morsetti Terminal box pos.	Ventilazione Fan cooling
vedi tabelle see tables	2p 4p 6p	1ph 3ph	230V ... 230/400V ...	50Hz 60Hz		TEFC TENV


Designazione
Classification

RIDUTTORE / GEARBOX						
FT	105/3	U	77.07	O20	56	B5
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	Albero cavo uscita Hollow output shaft	IEC 	Forma costruttiva Version
FT 	105/3 105/4	U...	vedi tabelle see tables	vedi tabelle see tables	56	B14

SMT	56	2	4	B14	230-400 V	50 Hz	TEFC	T1
Tipo Type	Grandezza Size	Indicativo potenza Power coefficient	Poli Poles	Forma costruttiva Version	Tensione Voltage	Frequenza Frequency	Ventilazione Fan cooling	Pos. morsetteria Terminal box pos.
SMT trifase threephase	vedi tabelle see tables	1-2-3-4-5	4	B14	230-400 V	50Hz 60Hz	TEFC TENV	T1 (Std)

SMM	56	2	4	B14	230 V	50 Hz	TEFC	T1
Tipo Type	Grandezza Size	Indicativo potenza Power coefficient	Poli Poles	Forma costruttiva Version	Tensione Voltage	Frequenza Frequency	Ventilazione Fan cooling	Pos. morsetteria Terminal box pos.
SMM monofase singlephase	vedi tabelle see tables	1-2-3-4	4	B14	230 V	50Hz	TEFC TENV	T1 (Std)

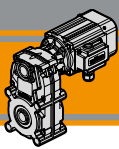
Sensi di rotazione
Direction of rotation

Simbologia
Symbols

n_1	[min^{-1}]	Velocità in ingresso / <i>Input speed</i>
n_2	[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 P_1</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 P_{n1}</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.



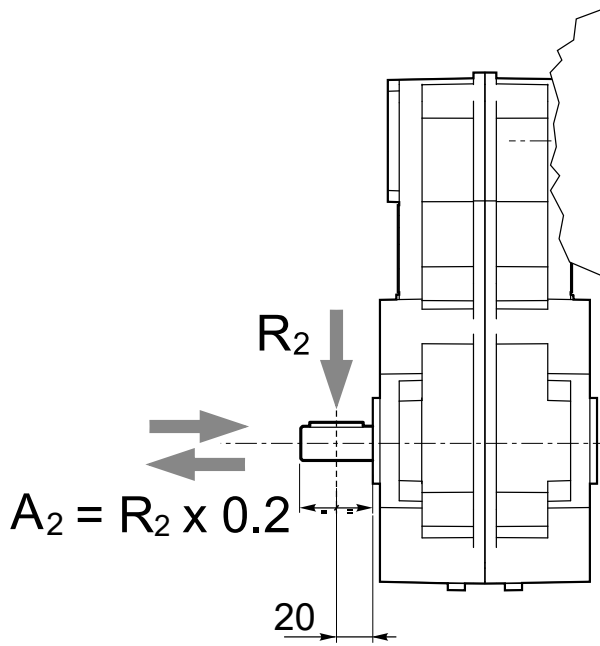
**KFT105
FT**

**Motoriduttori CA pendolari
AC Helical parallel gearmotors**



Carichi radiali

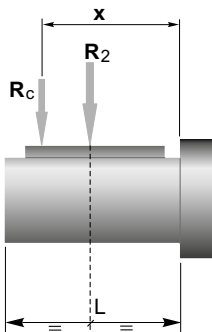
Radial loads



n_2 [min ⁻¹]	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

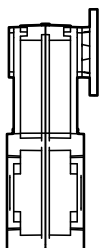
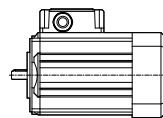
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

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

$$R \leq R_c$$

Motori applicabili

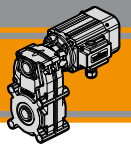
IEC Motor adapters



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

20.57 - 929.4

Rapporti di riduzione i
Ratio i



Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	M _n [Nm]	i	
------------------------	----------------------------------------	------------------------	----	------------------------	---	--

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	M _n [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	

0.12

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	

0.04

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	

0.06

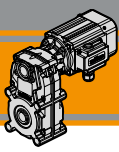
68	8	5.1	40	20.57	KFT105/3
42	13	3.9	50	33.32	
32	17	3.8	65	44.36	
26	21	3.1	65	54.87	
19	28	2.4	65	71.84	
18	30	2.2	65	77.07	
16	34	1.9	65	88.87	
11	48	1.4	65	124.81	
7.7	70	0.9	65	181.35	
6.2	86	0.8	65	224.32	
4.4	110	0.6	65	315.05	
3.8	120	0.5	65	368.19	KFT105/4



N.B.



Verificare sempre che la coppia M₂ utilizzata non ecceda il valore indicato nelle caselle in grigio

N.B.

Please check that the output torque M₂ does not exceed the value in the grey areas

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

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
0.04							
SMT5014	68	5	7.6	20.57	FT105/3	B14	
SMM5014	42	9	5.9	33.32			B14
(1400 min ⁻¹)	32	11	5.7	44.36			B14
	26	14	4.6	54.87			B14
	19	18	3.5	71.84			B14
	18	20	3.3	77.07			B14
	16	23	2.9	88.87			B14
	11	32	2.0	124.81			B14
	7.7	47	1.4	181.35			B14
	6.2	58	1.1	224.32			B14
	4.4	81	0.8	315.05			B14
	3.8	92	0.7	368.19	FT105/4	B14	
	2.6	120	0.5	534.98			B14
	2.1	120	0.5	661.76			B14

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
0.12							
SMT5044	68	16	2.5	20.57	FT105/3	B14	
SMT5634	42	26	2.0	33.32			B14
SMM5624	32	34	1.9	44.36			B14
(1400 min ⁻¹)	26	42	1.5	54.87			B14
	19	55	1.2	71.84			B14
	18	59	1.1	77.07			B14
	16	68	1.0	88.87			B14
	11	96	0.7	124.81			B14
	7.7	110	0.6	181.35			B14

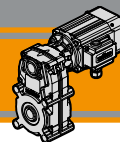
0.06							
SMT5024	68	8	5.1	20.57	FT105/3	B14	
SMM5024	42	13	3.9	33.32			B14
(1400 min ⁻¹)	32	17	3.8	44.36			B14
	26	21	3.1	54.87			B14
	19	28	2.4	71.84			B14
	18	30	2.2	77.07			B14
	16	34	1.9	88.87			B14
	11	48	1.4	124.81			B14
	7.7	70	0.9	181.35			B14
	6.2	86	0.8	224.32			B14
	4.4	92	0.7	315.05			B14

0.18							
SMT5644	68	24	1.7	20.57	FT105/3	B14	
SMM5644	42	38	1.3	33.32			B14
(1400 min ⁻¹)	32	51	1.3	44.36			B14
	26	63	1.0	54.87			B14
	19	83	0.8	71.84			B14
	18	89	0.7	77.07			B14
	16	92	0.7	88.87			B14
	11	110	0.6	124.81			B14

0.09							
SMT5034	68	12	3.4	20.57	FT105/3	B14	
SMM5034	42	19	2.6	33.32			B14
SMT5624	32	26	2.5	44.36			B14
SMM5624	26	32	2.1	54.87			B14
(1400 min ⁻¹)	19	41	1.6	71.84			B14
	18	44	1.5	77.07			B14
	16	51	1.3	88.87			B14
	11	72	0.9	124.81			B14
	7.7	105	0.6	181.35			B14
	6.2	110	0.6	224.32			B14

N.B.
Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio

N.B.
Please check that the output torque M2 does not exceed the value in the grey areas


Dati tecnici elettrici
Electrical technical data

1 Ph	P _n [W]	V [V]	F [Hz]	I _n [A]	I _s [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 _n [W]	V [V]	F [Hz]	I _n [A]	I _s [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:

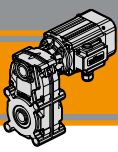
Classe di rendimento Standard IE1

Note:

Standard efficiency IE1

Normative di riferimento
Reference standards

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

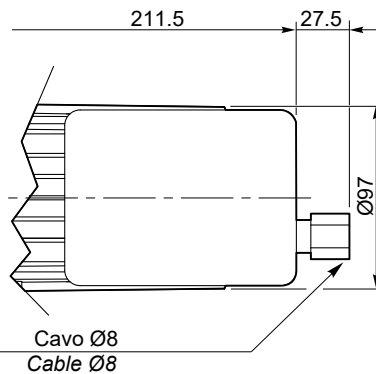
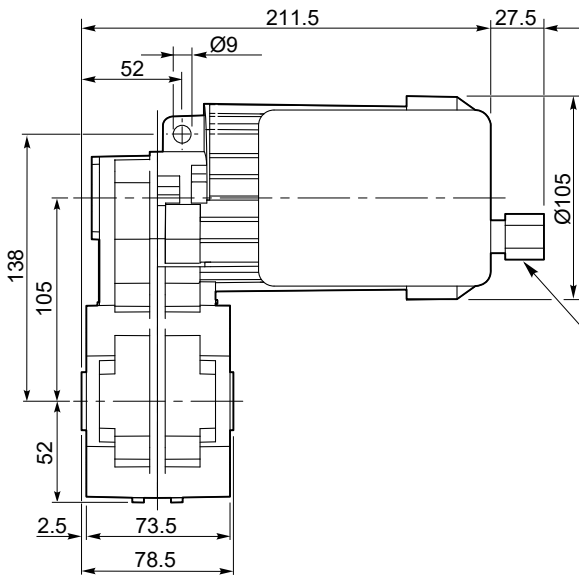


KFT 105... 25W - 40W - 60W - 90W

KFT 105...1 Ph...TEFC

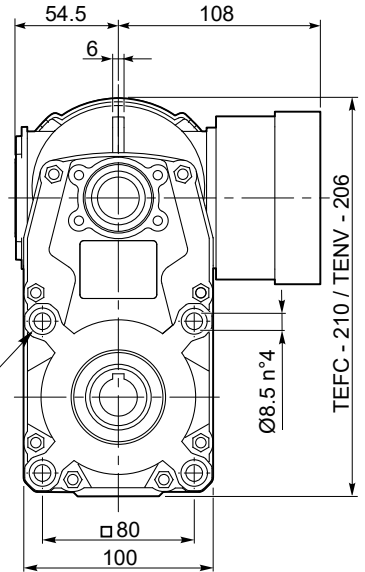
KFT 105...1 Ph...TENV

S3 servizio duty 30%



Lamature $\varnothing 14$
Prof. 10 mm n°4
Spot-facing $\varnothing 14$
Deep 10 mm n°4

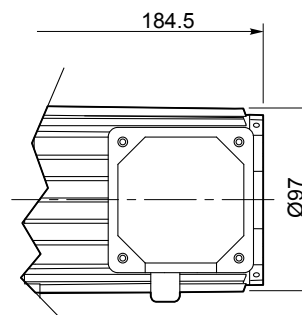
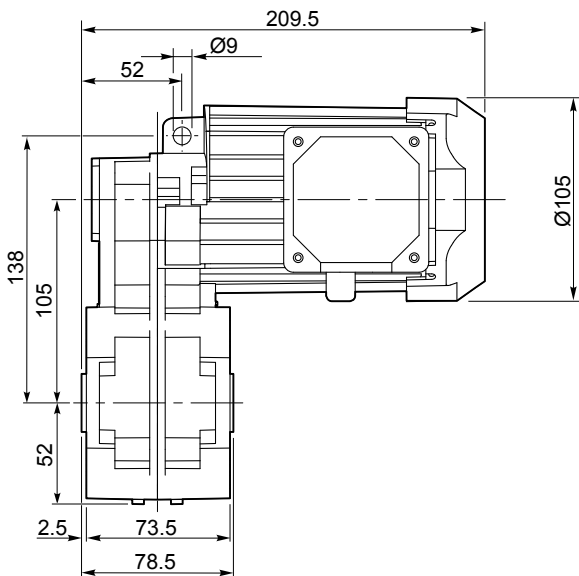
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides



KFT 105...3 Ph... TEFC

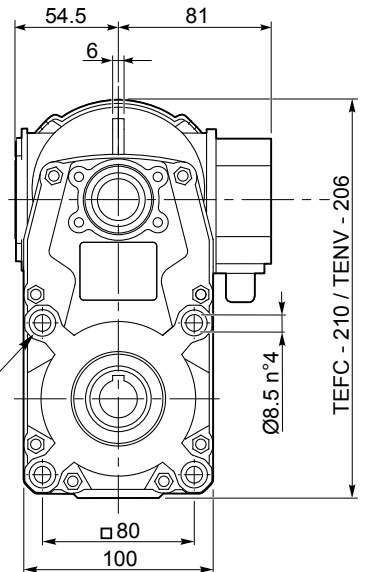
KFT 105...3 Ph... TENV

S3 servizio duty 30%

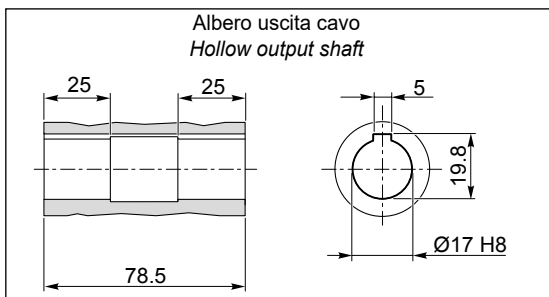


Lamature $\varnothing 14$
Prof. 10 mm n°4
Spot-facing $\varnothing 14$
Deep 10 mm n°4

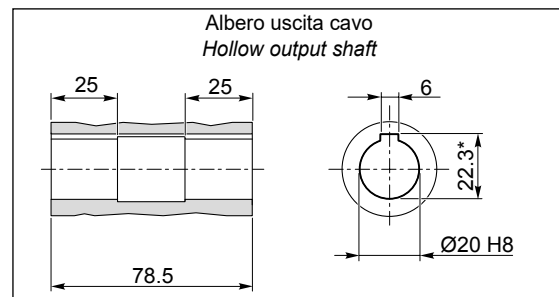
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides



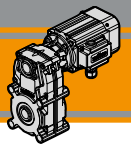
O17



O20



*Sede linguetta ribassata / Special Keyway



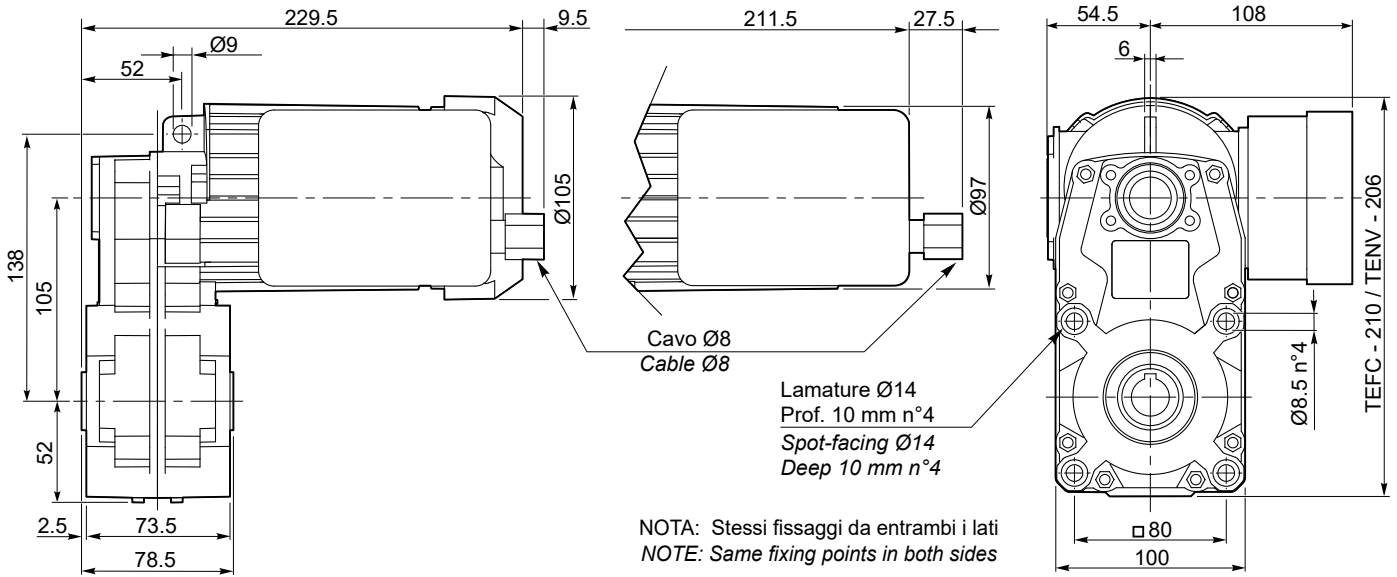
Dimensioni

Dimensions

KFT 105... 120W

KFT 105...1 Ph... TEFC

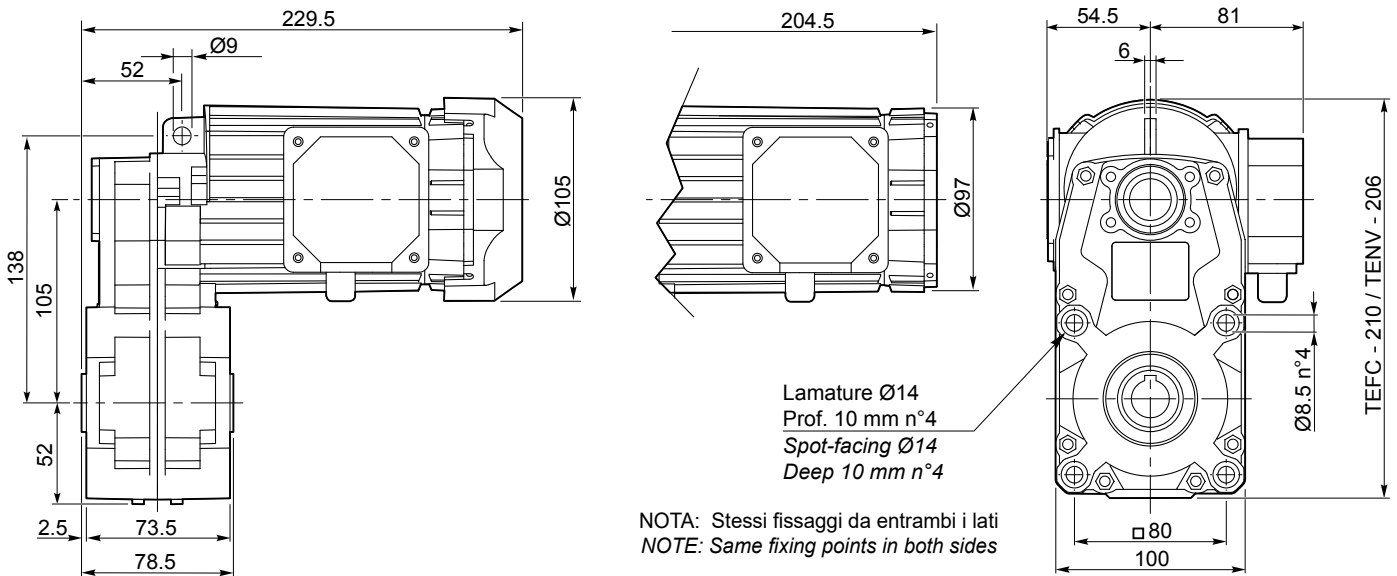
KFT 105...1 Ph...TENV S3 ^{servizio}duty 30%



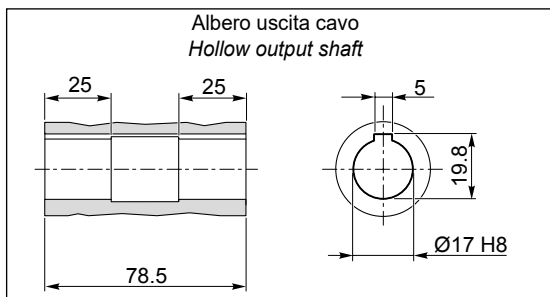
AC

KFT 105...3 Ph... TEFC

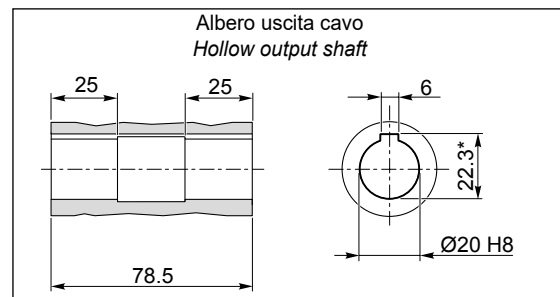
KFT 105...3 Ph... TENV S3 ^{servizio}duty 30%



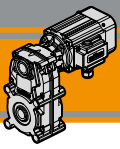
O17



O20



*Sede linguetta ribassata/ Special Keyway



FT

Motoriduttori CA pendolari
AC Helical parallel gearmotors

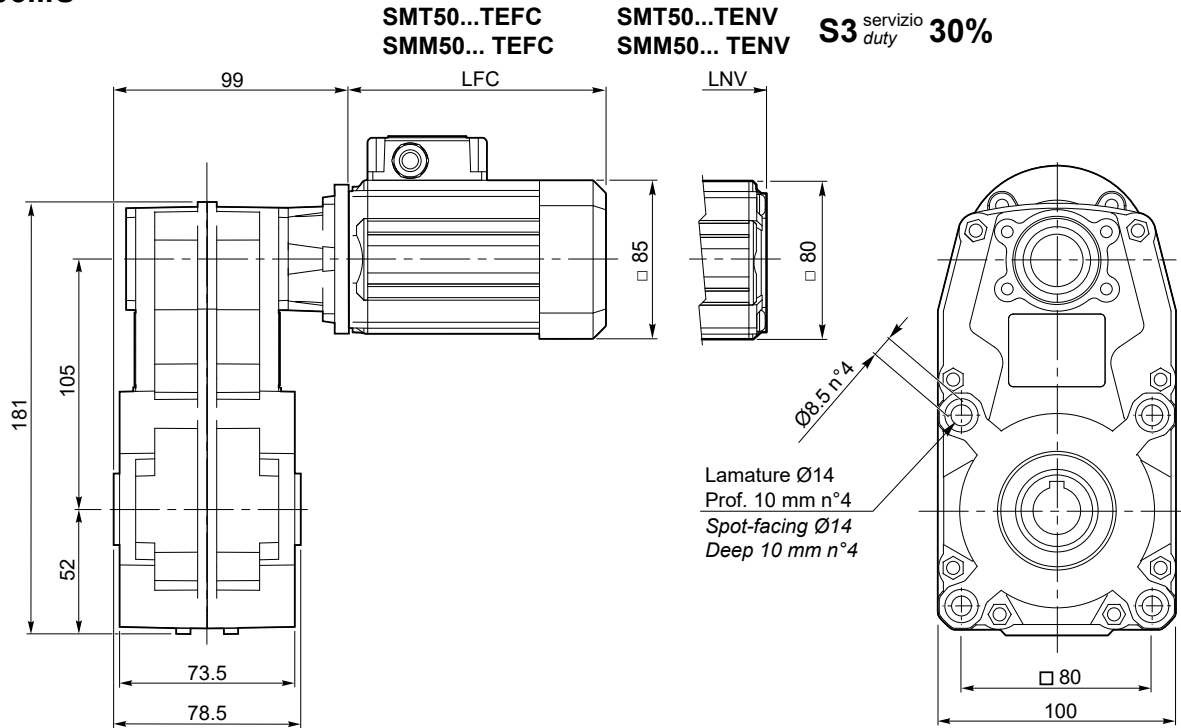


Dimensioni

Dimensions

FT105 U

FT 105...U



S3 servizio 30%
duty

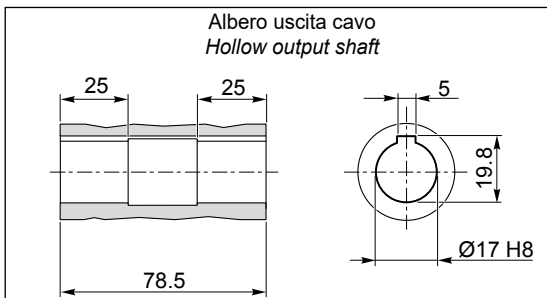
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

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	

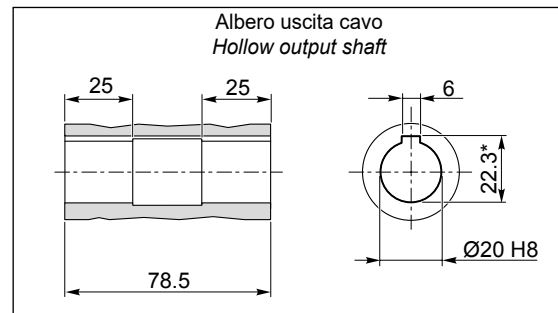
SMM	LFC	LNV	Kg	
5014	150.5	123.5	6.9	
5024	175.5	148.5	7.7	
5034	200.5	173.5	8.4	

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

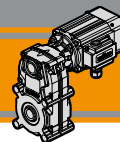
O17



O20



*: Sede linguetta ribassata / Special keyway



Dimensioni

Dimensions

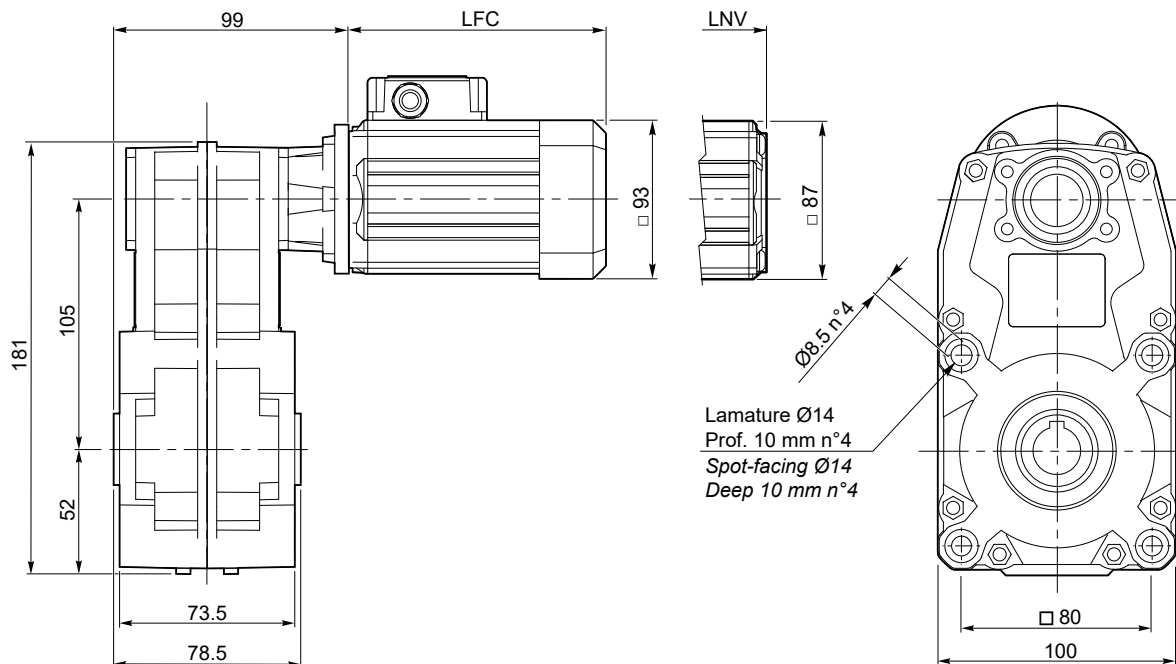
FT105 U

FT 105...U

SMT56...TEFC
SMM56... TEFC

SMT56...TENV
SMM56... TENV

S3 servizio 30%
duty



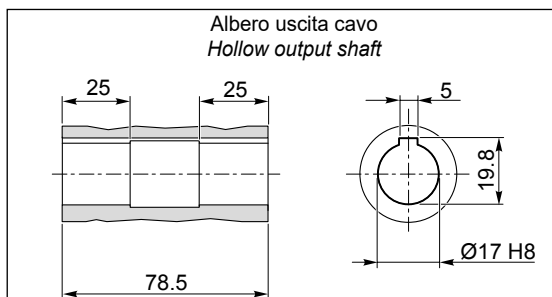
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

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

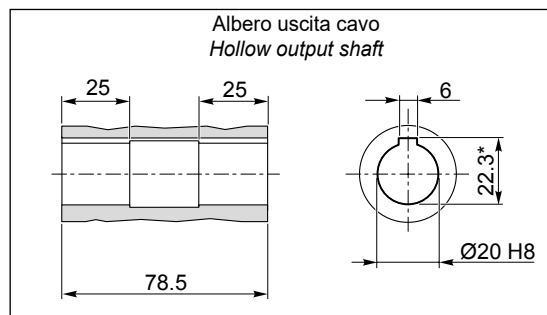
SMM	LFC	LNV	Kg	
5624	151	127	7.3	
5634	171	147	7.9	
5644	206	182	9.2	

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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