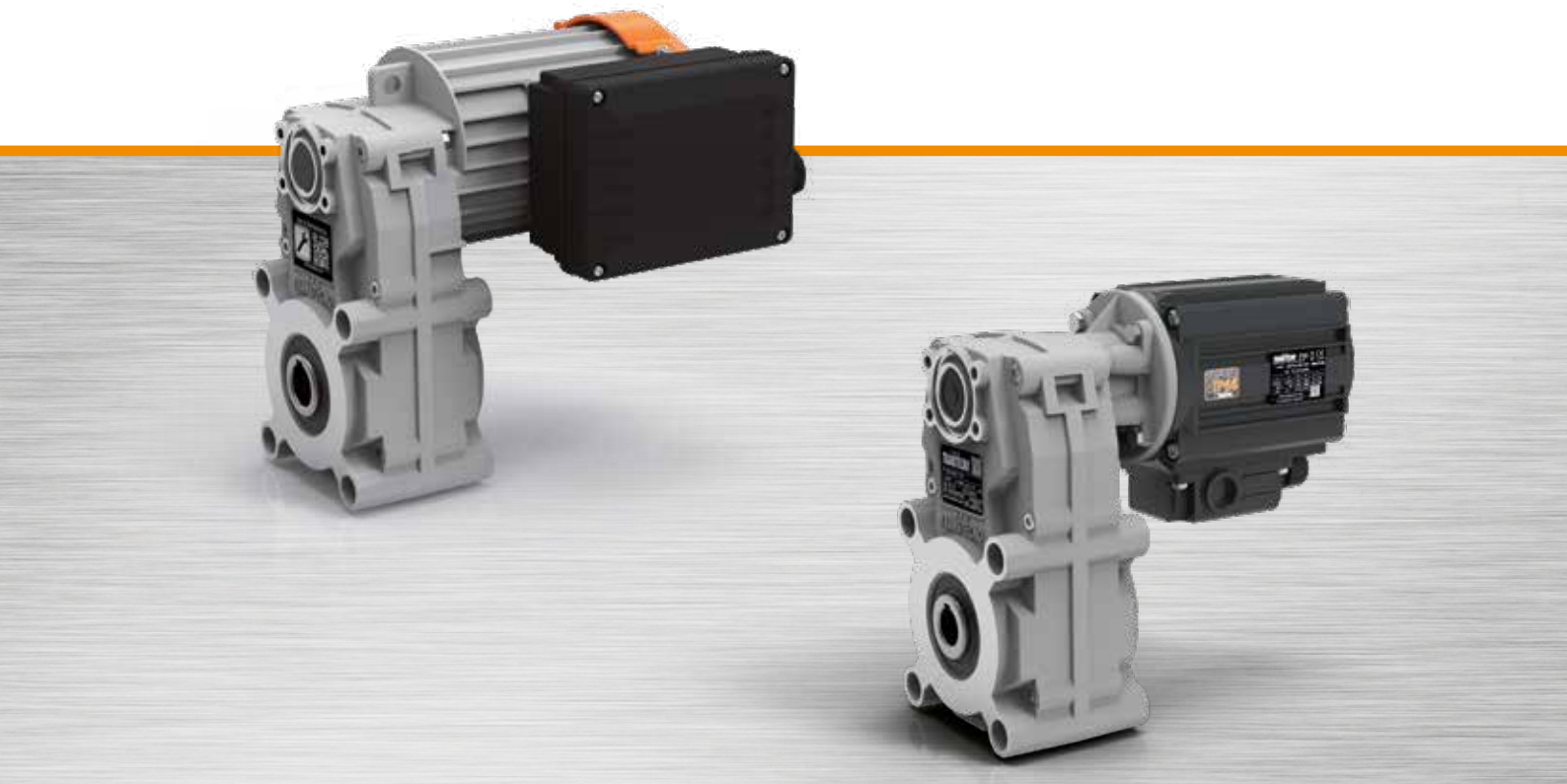
TRANSTECNO®
the modular gearmotor

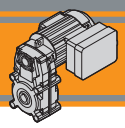
KFT105

KFT105

KFT105 Alù

Motoriduttori pendolari
Helical parallel gearmotors





ENERGY SAVING

Caratteristiche tecniche

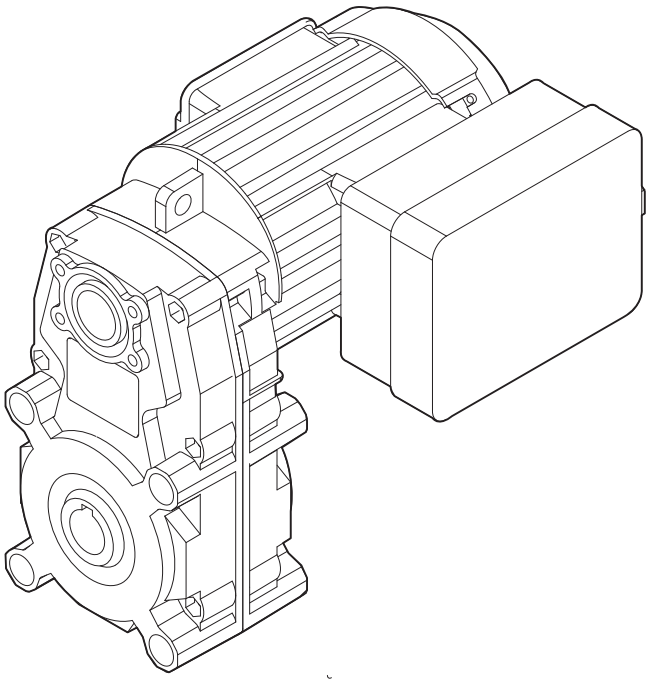
Technical features

I motoriduttori pendolari della serie KFT105 hanno le seguenti caratteristiche principali:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase
- Carcassa in pressofusione di alluminio
- Ingranaggi cilindrici a denti elicoidali, induriti e rettificati
- Lubrificazione permanente con olio sintetico
- Disponibili a 3 e 4 stadi di riduzione

KFT105 helical parallel gearmotors range has the following main features:

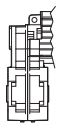
- *Compact design*
- *AC single phase motors available*
- *Die-cast aluminium housings*
- *Ground-hardened helical gears*
- *Permanent synthetic oil long-life lubrication*
- *Available with 3 and 4 reduction stages*



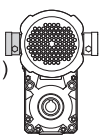
Designazione

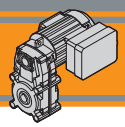
Classification

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	1ph	230	50Hz	T1	TEFC
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*	Ventilazione *Fan cooling*
vedi tabelle *see tables*	**4p**	**1ph**	**230V**	**50Hz**	**T4** (Std)  **T2**	**TEFC** **TENV**



Simbologia — *Symbols*

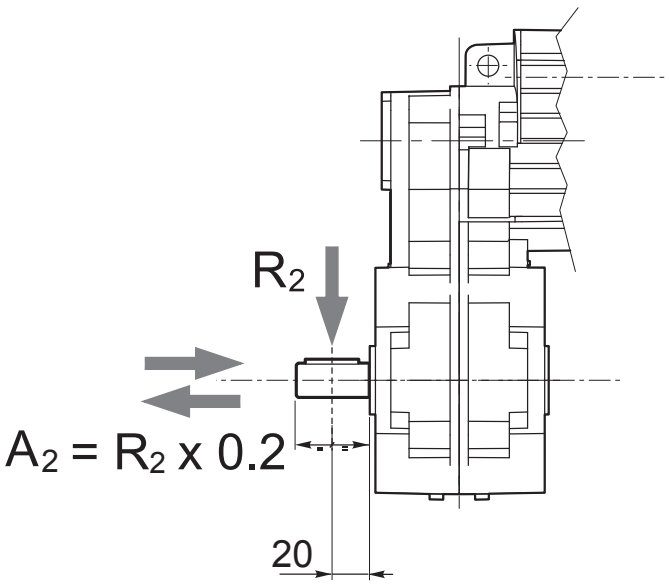
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to P_1*
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*
Mn	[Nm]	Coppia nominale / *Nominal torque*
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*
V	[N]	Tensione / *Voltage*
F	[Hz]	Frequenza / *Frequency*
I_n	[A]	Corrente nominale / *Nominal current*
I_s	[A]	Corrente di spunto / *Start current*
cosØ		Fattore di potenza / *Power factor*
C	[µ]	Capacità del condensatore / *Capacitor*

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.

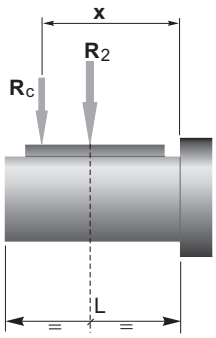
Carichi radiali — *Radial loads*



n_2 [min^{-1}]	R_2 [N]
	KFT105
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
a	82
b	62
R_{2MAX}	2000

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

$$R \leq R_c$$

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

Dati tecnici

Technical data

25

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
	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	92	0.7	65	661.76	
	1.5	92	0.7	65	929.40	

40

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
	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	92	0.7	65	534.98	

60

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
	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	92	0.7	65	315.05	

90

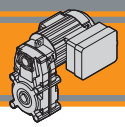
P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
	68	12	3.4	40	20.57	**KFT105/3**
	42	19	2.6	50	33.32	
	32	26	2.5	65	44.36	
	26	32	2.1	65	54.87	
	19	41	1.6	65	71.84	
	18	44	1.5	65	77.07	
	16	51	1.3	65	88.87	
	11	72	0.9	65	124.81	
	7.7	92	0.7	65	181.35	
	6.2	92	0.7	65	224.32	

120

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
	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	92	0.7	65	124.81	

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

	P_n [W]	V [V]	F [Hz]	I_n [A]	I_s [A]	cosØ	C [µF]
1 Ph	25	230	50	0.42	0.84	0.87	6.0
	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

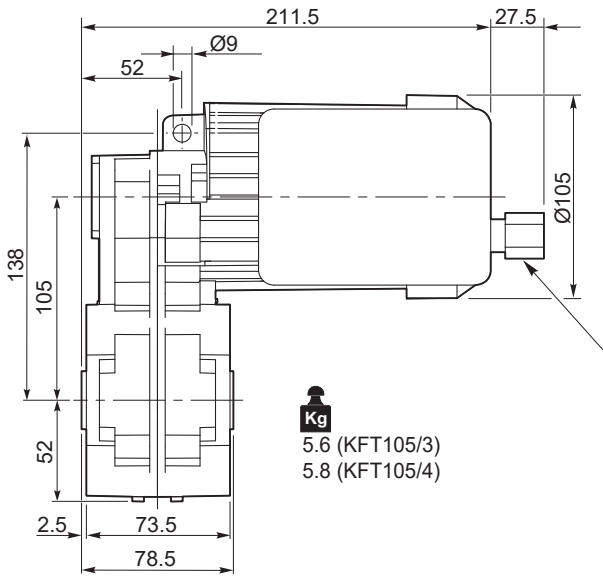
Nota:
La versione trifase è disponibile a richiesta.
Si prega di contattare il servizio tecnico.

Note:
Three-phase version available upon request.
Please contact our technical service.

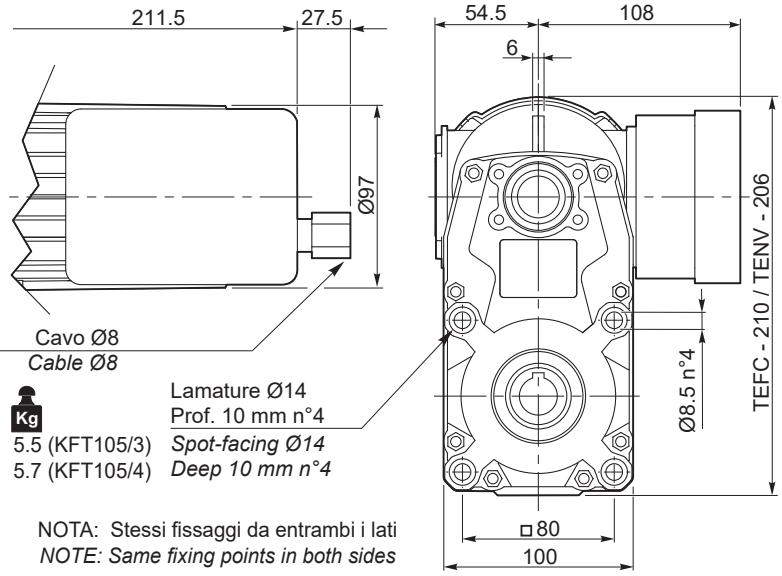
Dimensioni ***Dimensions***

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

KFT 105...1 Ph...TEFC



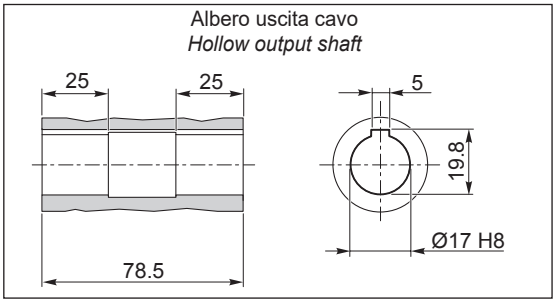
KFT 105...1 Ph...TENV



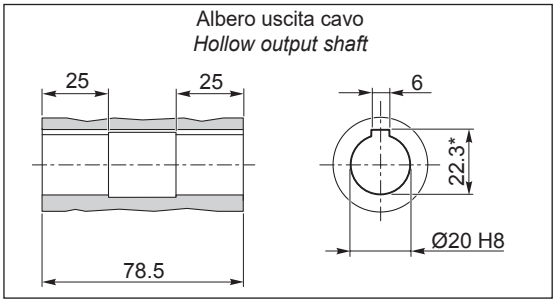
Nota:
La versione trifase è disponibile a richiesta.
Si prega di contattare il servizio tecnico.

Note:
Three-phase version available upon request.
Please contact our technical service.

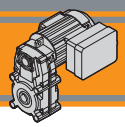
Ø17



Ø20

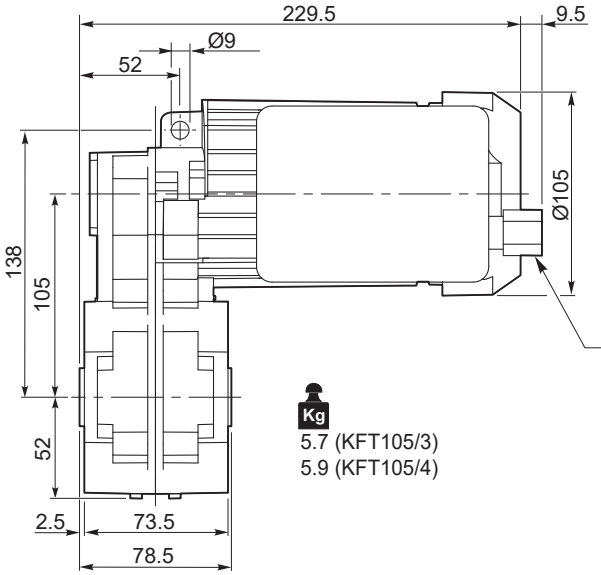


*Sede linguetta ribassata / *Special Keyway*

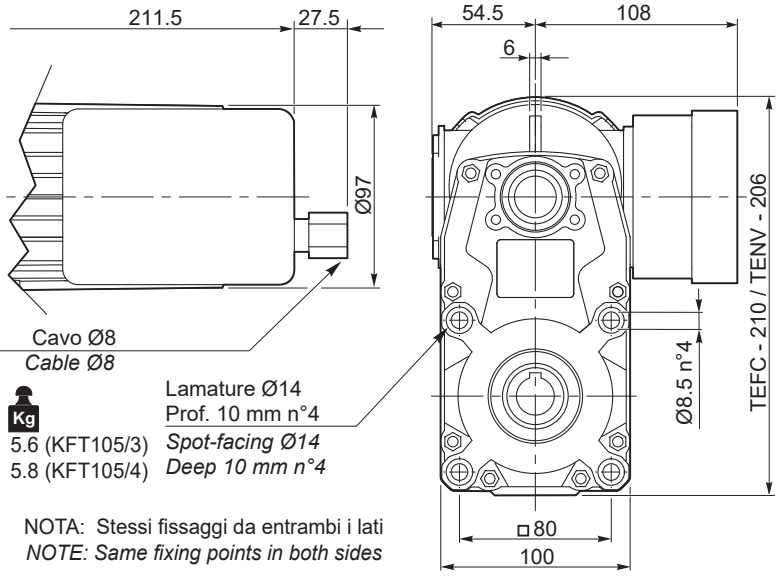


KFT 105... 120W

KFT 105...1 Ph... TEFC



KFT 105...1 Ph...TENV

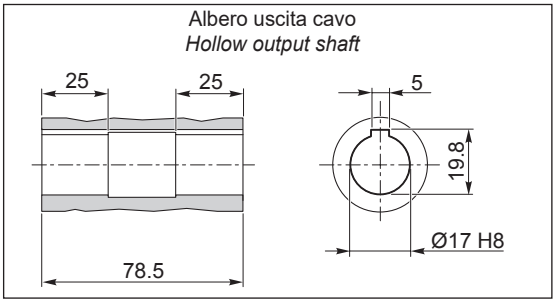


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

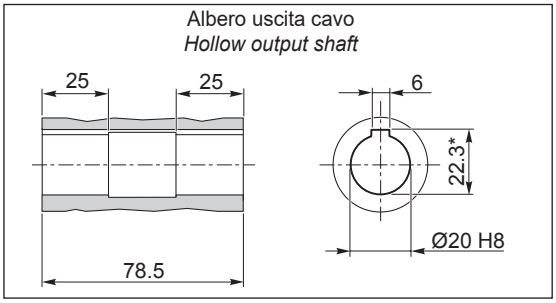
Nota:
La versione trifase è disponibile a richiesta.
Si prega di contattare il servizio tecnico.

Note:
Three-phase version available upon request.
Please contact our technical service.

Ø17



Ø20



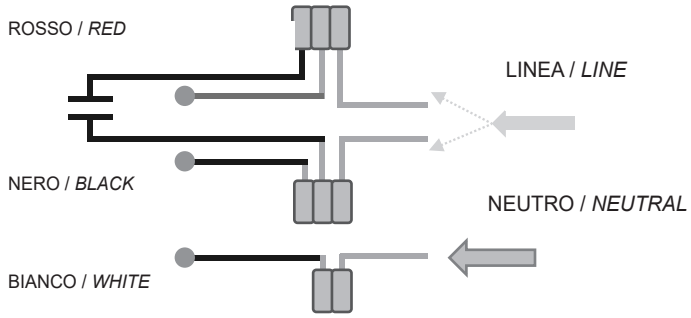
*Sede linguetta ribassata/ *Special Keyway*

Connesioni elettriche — *Electrical connections*

Versione 230 V 50 Hz monofase — ***230 V 50 Hz single-phase version***

CONNETTORE WAGO / *WAGO CONNECTOR*

CONDENSATORE / *CAPACITOR*

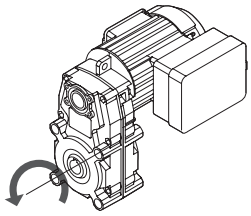


Linea = ROSSO
Rapporto = 20.57 ÷ 315.05

Linea = NERO
Rapporto = 368.19 ÷ 929.40

Line = RED
Ratio = 20.57 ÷ 315.05

Line = BLACK
Ratio = 368.19 to 929.40

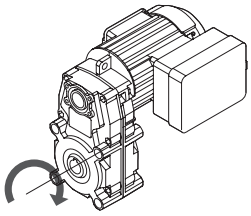


Linea = NERO
Rapporto = 20.57 ÷ 315.05

Linea = ROSSO
Rapporto = 368.19 ÷ 929.40

Line = BLACK
Ratio = 20.57 ÷ 315.05

Linea = RED
Ratio = 368.19 to 929.40



Connesioni elettriche

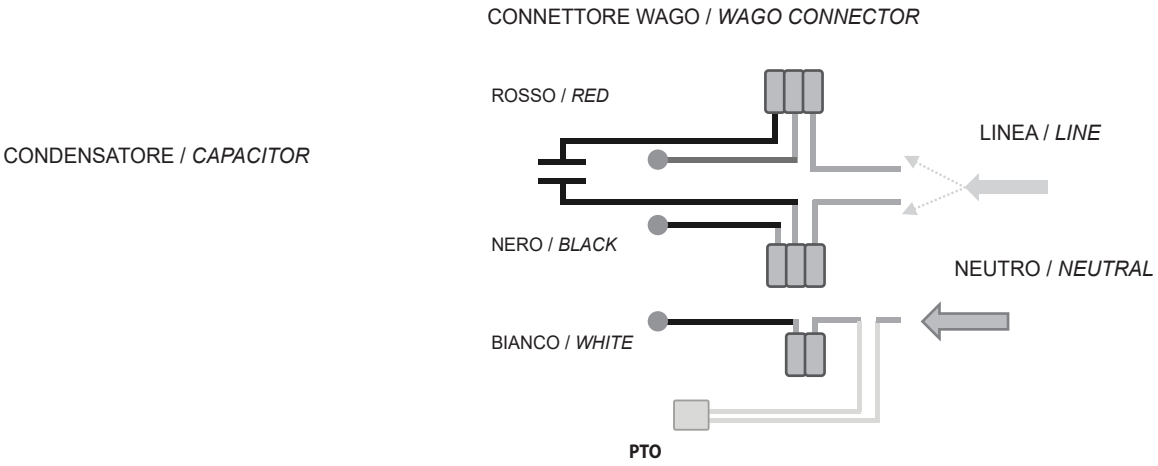
Electrical connections

Versione 230 V 50 Hz monofase

Nota:
In caso serva collegare la PTO, per maggior protezione termica del motore, seguire lo schema sottostante

230 V 50 Hz single-phase version

Note:
Should it be necessary to connect the PTO, for increased thermal protection of the motor, follow the diagram below



Collegamento al circuito di comando del motore a cura del cliente.

Motor supply connection by the customer.

Per ragioni di sicurezza è sconsigliato il collegamento in serie. Se necessario contattare il Servizio Tecnico Transtecno.

For safety reason Transtecno advises against PTO connected in series. If needed, contact Transtecno Technical Service.

TRANSTECNO SRL
HEADQUARTERS
Company subject to the management
and coordination of INTERPUMP GROUP SPA
Via Caduti di Sabbiuno, 11/D-E
40011 Anzola dell'Emilia (BO)
ITALY
T+39 051 64 25 811
F +39 051 73 49 43
sales@transtecno.com
www.transtecno.com

TRANSTECNO®
the modular gearmotor

MEMBER OF INTERPUMP GROUP

CATACALLI0723

HANGZHOU TRANSTECNO POWER TRANSMISSIONS CO LTD
No.4 Xiuyan Road Fengdu Industry Zone
Pingyao Town Yuhang District
Hangzhou City, Zhejiang Province
311115 – CHINA
T +86 571 86 92 02 60
info-china@transtecno.cn
www.transtecno.cn

MA TRANSTECNO S.A.P.I. DE C.V.
Av. Mundial # 176, Parque Industrial
JM Apodaca, Nuevo León,
C.P. 66600 - MÉXICO
T +52 8113340920
info@transtecno.com.mx
www.transtecno.com.mx

TRANSTECNO IBÉRICA
THE MODULAR GEARMOTOR, S.A.
Carrer de la Ciència, 45
08840 Viladecans (Barcelona) - SPAIN
T +34 931 598 950
info@transtecno.es
www.transtecno.es

TRANSTECNO B.V.
Siliciumweg 32
3812 SX Amersfoort - NETHERLANDS
T +31(0) 33 45 19 505
info@transtecno.nl
www.transtecno.nl

TRANSTECNO AANDRIJFTECHNIEK B.V.
Siliciumweg 32
3812 SX Amersfoort - NETHERLANDS
T +31 (0) 33 20 4 7 006
info@transtecnoaandrijftechniek.nl
www.transtecnoaandrijftechniek.nl

TRANSTECNO USA
8 Creek Parkway,
Boothwyn PA 19061-8136 - UNITED STATES
T + 1 (610) 4970154

TRANSTECNO USA – WEST COAST BRANCH
14561 Fryelands Blvd SE
Monroe, WA 98272 - UNITED STATES
T +1 360-863-1300
usaoffice@transtecno.com
www.transtecno.com

TRANSTECNO CANADA
51 B Caldari Road Unit 10
Vaughan, ON L4K 4G3 - CANADA
T +1 905 761 0762
canadaoffice@transtecno.com
www.transtecno.com

TRANSTECNO CHILE-PERU
Av. Los Libertadores 41
Parque Industrial - Los Libertadors 16.500
Santiago, Colina - CHILE
T +56 2 29633870

Carretera Panamericana Sur KM 29.5,
Interior I-3, Z.I. Lurin - PERU
T +51 1 3546259 / + 51 1 3434231
chileoffice@transtecno.com
www.transtecno.com

TRANSTECNO INDIA
#6A, Sipcot Industrial complex, Phase-1,Elasagiri Road
Hosur – 635126 Tamilnadu - INDIA
T +91 4344 274434
M +91 81443 88800

TRANSTECNO INDIA – NORTH BRANCH
Plot No: 3 A, Sector 2, IIE, Sidcul, Pantnagar
U.S. Nagar, Uttarakhand – 263153 - INDIA
indiaoffice@transtecno.com
www.transtecno.com

TRANSTECNO BRAZIL
Rua Gilberto de Zorzi, 525 Forqueta - CEP. 95115-730
CX Postal 3544 Caxias do Sul RS – BRAZIL

TRANSTECNO BRAZIL – SÃO PAULO BRANCH
R. Mafalda Barnabe Soliane, 314 – CEP. 13347-610
Indaiatuba, São Paulo - BRAZIL
T +55 19 3437 2520

TRANSTECNO BRAZIL – PORTO ALEGRE BRANCH
Rua Dr. Freire Alemão 155 / 402 - CEP. 90450-060
Auxiliadora Porto Alegre RS - BRAZIL
T +55 51 3251 5447
M +55 51 811 45 962
braziloffice@transtecno.com
www.transtecno.com.br

INTERPUMP ANTRIEBSTECHNIK - TRANSTECNO
Vertriebsbüro Stuttgart - GERMANY
T +49 (0)171 4781909
germanoffice@transtecno.com
www.transtecno.com

SALES OFFICE OCEANIA
Unit 5, 12 Nyholt Drive, Yatala 4207
Queensland - AUSTRALIA
T +61 07 3800 0103
M +61 04 38060997

UNIT 9 , 94 Boundary Rd, Sunshine West 3020
Victoria - AUSTRALIA
T +61 9312 4722
oceaniaoffice@transtecno.com
www.transtecno.com.au

SALES OFFICE SOUTH KOREA
772-41. Bongdong-ro, Bongdong-eup, Wanju-goon
Chonbuk, 55313
SOUTH KOREA
T +82 70 8867 8897
M +82 10 5094 2107
koreaoffice@transtecno.com
www.transtecno.com

www.transtecno.com