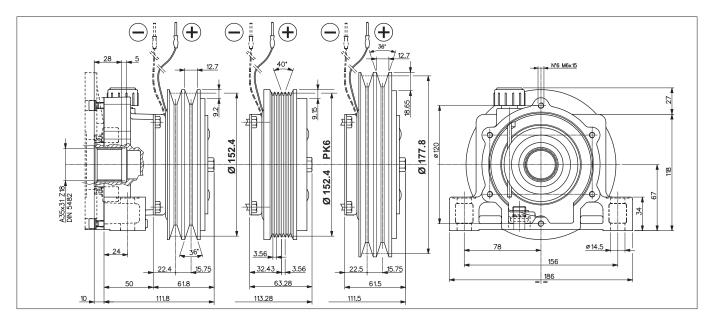
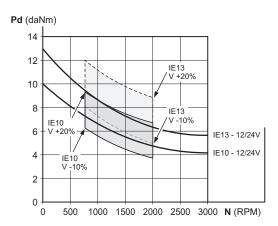
IE

ELECTROMAGNETIC CLUTCH - OIL LUBRICATION



MAXIMUM LOAD ON THE SHAFT



Approximate calculation of drive torque

$$\mathbf{P} (daNm) = \mathbf{c} \bullet \mathbf{p} \bullet 0,0017$$
$$\mathbf{P} < \mathbf{Pd}$$

where:

p = pump pressure in BAR

c = pump displacement in cc/revolution

from diagram:

 $\mathbf{Pd} = \mathsf{Max}.$ torque allowed by the coupling in daNm

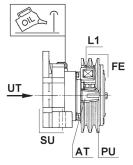
n = Motor rotation speed in rpm.

* Input tension and operating temperature considerably influence the correct operation of the clutch. At temperatures above 70 °C the dynamic torque rating is reduced by 20%. To reach the maximum torque, run the clutch in through repeated working cycles (ON/OFF).

An electromagnetic clutch is a unit designed to convey movement to a UT hydraulic pump through an electrically controlled onloff pulley.



- an electromagnetic friction clutch (FE)
- an aluminium support (SU) with a conical (AT) and splined (UT) shaft mounted on oilbath bearings.
- coupling to be ordered separately



Description

This type of clutch exploits the force of attraction of an electromagnetic field generated by a solenoid that, after being energised (L1 in ON position), connects a pulley to a driving shaft.

The electromagnetic friction clutch is composed of two separate parts:

- a solenoid L1, mounted on the support;
- a pulley PU, mounted on the conical shaft AT.

Operations are as follows:

- under non operating conditions with L1 in OFF position: the pulley, driven by the "V" belt, turns idle on its own hearing,
- under operating conditions with L1 in ON position: the pulley, driven by the "V" belt, conveys movement to the shaft, then to the user UT.

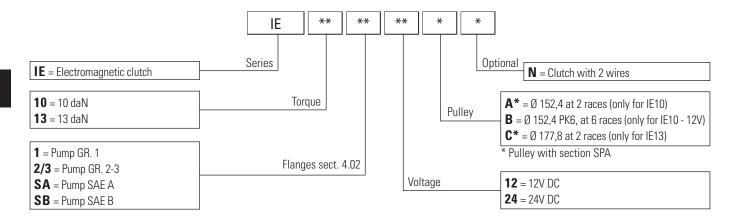
FEATURES

RPM max	5000 RPM
	10.2 daNm (pulley Ø152.4 - 2 races)
Static nominal torque (*) (at 12/24V ± 0,5%)	10.2 daNm (pulley Ø152.4 - 6 races)
(at 12/24V ± 0,5 %)	12.2 daNm (pulley Ø177.8 - 2 races)
D	12 Vdc - 50W
Power supply (*)	24 Vdc - 60W
Rotation (pulley side)	CW
Working temperature	-10 °C ÷ +45 °C
Max working temperature coil (*)	100 °C
Oil quantity	0,07 lt.
Type of oil	Type: ISO 19378:2003
Type of oil	Viscosity: ISO VG 150 (ISO 3448:1992)
Oil replacement	After first 500hours then every 12
on replacement	months

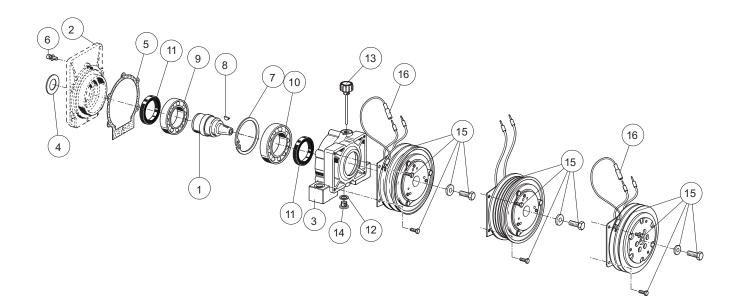
IE/IE/001/2011



ORDERING CODE



SPARE PARTS



		Q.ty			
Ref.	Code	IE10A	IE10B	IE13C	Description
1	34241900	1	1	1	Shaft
2		1	1	1	Flanges (sect. 4.02)
3	39042700	1	1	1	Body
4	39101000	1	1	1	Flange D.66/25,4 (only for gr.1)
4	39101200	1	1	1	Flange D.66/36,5 (only for gr.2-3)
5	39204400	1	1	1	Gasket
6	40007300	6	6	6	Screw TCEI M6x20
7	027160080	1	1	1	Snap ring 180
8	027500070	1	1	1	Key 4x5 DIN 6888
9	44000300	1	1	1	Bearing 600945x75x16
10	44001200	1	1	1	Bearing 6010 50x80x16

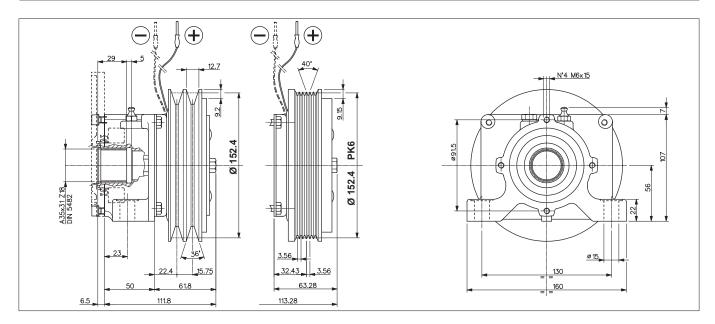
		Q.ty			
Ref.	Code	IE10A	IE10B	IE13C	Description
11	44102200	2	2	2	Shaft seal 45x60x7
12	49000100	1	1	1	Washer nylon 13x19x1.5
13	49138600	1	1	1	Plug 1/4"
14	026622252	1	1	1	Plug TCEI G1/4
15	46004700	1	_	_	Clutch D.152.4 x 2 - 10 daNm - 12Vdc
	46004800	1	_	_	Clutch D.152.4 x 2 - 10 daNm - 24Vdc
	46008400	—	1	_	Clutch D.152.4 x 6 - 10 daNm - 12Vdc
	46005200	_	_	1	Clutch D.177.8 x 2 - 13 daNn - 12Vdc
	46008200	_	_	1	Clutch D.177.8 x 2 - 13 daNn - 24Vdc
16	26000005	1	_	1	Wire L=65

IE/IE/002/2018 3.02

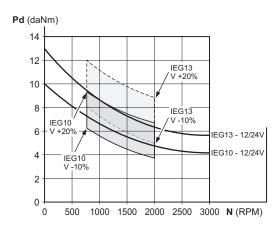
IEG (grease)



ELECTROMAGNETIC CLUTCH - GREASE LUBRICATION



MAXIMUM LOAD ON THE SHAFT



Approximate calculation of drive torque

 $\mathbf{P} (daNm) = \mathbf{c} \bullet \mathbf{p} \bullet 0,0017$ $\mathbf{P} < \mathbf{Pd}$

where:

p = pump pressure in BAR

c = pump displacement in cc/revolution

from diagram:

 $\mathbf{Pd} = \mathbf{Max}$. torque allowed by the coupling in daNm

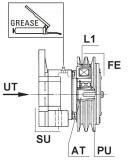
n = Motor rotation speed in rpm.

* Input tension and operating temperature considerably influence the correct operation of the clutch. At temperatures above 70 °C the dynamic torque rating is reduced by 20%. To reach the maximum torque, run the clutch in through repeated working cycles (ON/OFF).

An electromagnetic clutch is a unit designed to convey movement to a UT hydraulic pump through an electrically controlled onloff pulley.



- an electromagnetic friction clutch (FE)
- an aluminium support (SU) with a conical (AT) and splined (UT) shaft mounted on grease bearings.
- coupling to be ordered separately



Description

This type of clutch exploits the force of attraction of an electromagnetic field generated by a solenoid that, after being energised (L1 in ON position), connects a pulley to a driving shaft.

The electromagnetic friction clutch is composed of two separate parts:

- a solenoid L1, mounted on the support;
- a pulley PU, mounted on the conical shaft AT.

Operations are as follows:

- under non operating conditions with L1 in OFF position: the pulley, driven by the "V" belt, turns idle on its own hearing,
- under operating conditions with L1 in ON position: the pulley, driven by the "V" belt, conveys movement to the shaft, then to the user UT.

FEATURES

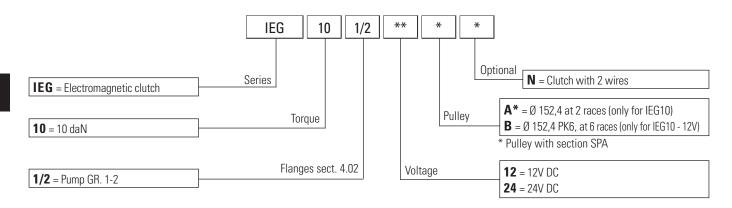
RPM max	5000 RPM
0	10.2 daNm (pulley Ø152.4 - 2 races)
Static nominal torque (*) (at 12/24V ± 0,5%)	10.2 daNm (pulley Ø152.4 - 6 races)
(at 12/24v ± 0,5/0)	12.2 daNm (pulley Ø177.8 - 2 races)
Dower supply (*)	12 Vdc - 50W
Power supply (*)	24 Vdc - 60W
Rotation (pulley side)	CW
Working temperature	-10 °C ÷ +45 °C
Max working temperature coil (*)	100 °C
Grease quantity	30 gr
Type of grease	DIN 51502 = MPF - 1K-20

IE/IE/002/2018 3.03

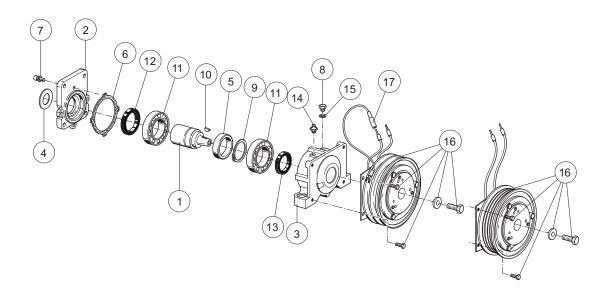
IEG (grease)



ORDERING CODE



SPARE PARTS

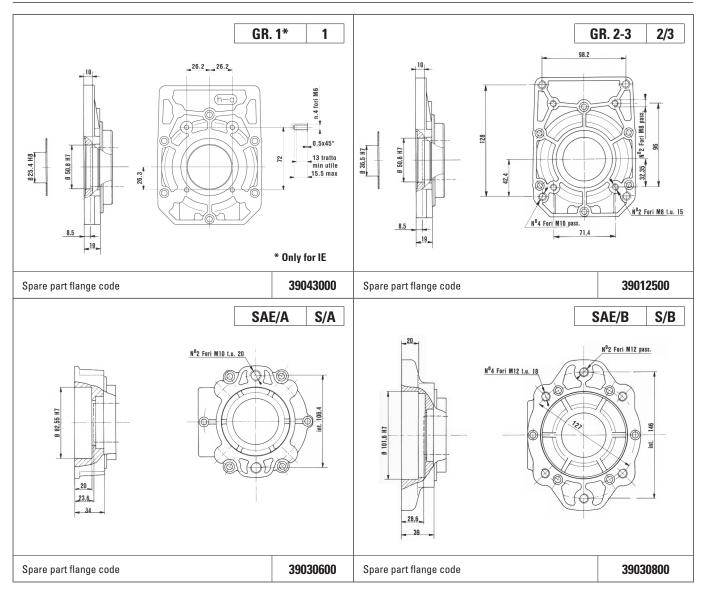


		Q.	ty	
Ref.	Code	IEG10A	IEG10B	Description
1	34202300	1	1	Shaft
2	39017400	1	1	Flange Gr.1-2 (sect 4.02)
3	39021300	1	1	Body
4	39100800	1	1	Flange 44/1
5	39103000	1	1	Spacer
6	39204500	1	1	Gasket
7	40007300	4	4	Screw TCEI M6x20
8	Q26035090	1	1	Screw TEE M8x10
9	027150450	1	1	Snap ring E45
10	0.27500070	1	1	Key 4x5 DIN 6888
11	44000300	2	2	Bearing 6009 45x75x16

	Q.ty		ty	
Ref.	Code	IEG10A	IEG10B	Description
12	44102200	1	1	Shaft seal 45x60x7
13	44102400	1	1	Shaft seal 35x50x7
14	49101000	1	1	Grease nipple
15	Q51437008	1	1	Washer aluminium M8 8.5x15x1.5
16	46004700	1	_	Clutch D.152.4 x 2 - 10 daNm - 12Vdc
	46004800	1	_	Clutch D.152.4 x 2 - 10 daNm - 24Vdc
	46008400	_	1	Clutch D.152.4 x 6 - 10 daNm - 12Vdc
17	26000005	1	_	Wire L=65

IEG/IE/001/2018 3.04

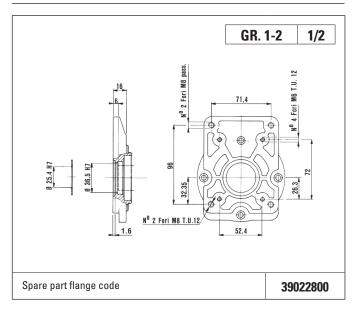




FLANGES IEG

GR. 1-2 1/2 8H 7752 8 9 52.6 Spare part flange code 39017400

FLANGES IM05



FLANGES/IE/000/2009 4.02