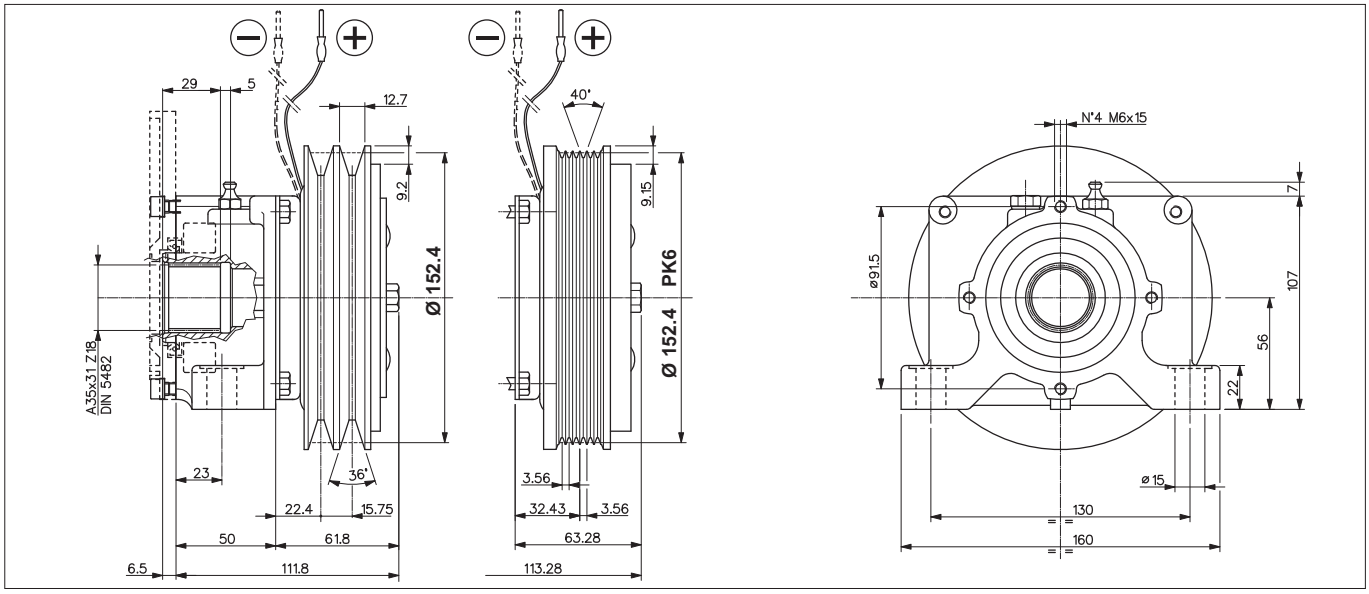
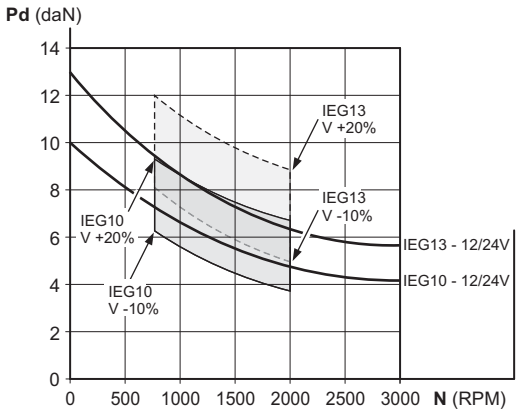
ELECTROMAGNETIC CLUTCH - GREASE LUBRICATION



MAXIMUM LOAD ON THE SHAFT



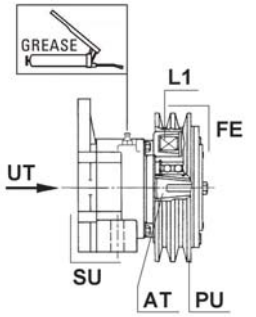
Approximate calculation of drive torque

P (daNm) = **c** • **p** • 0,0017
P < **Pd**

where:
p = pump pressure in BAR
c = pump displacement in cc/revolution

from diagram:
Pd = 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 clutch is composed of:
- 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

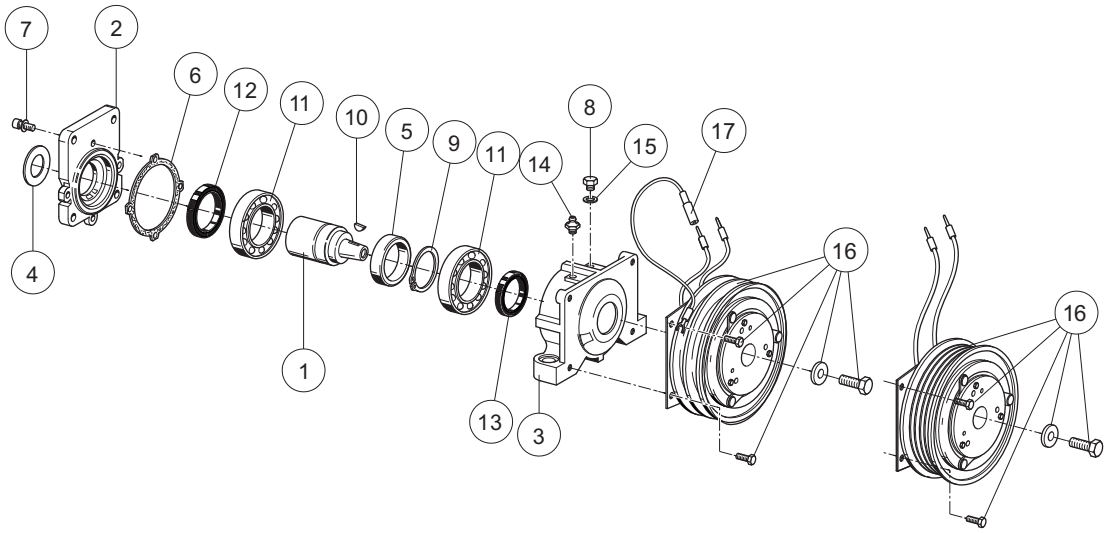
RPM max	5000 RPM
Static nominal torque (*) (at 12/24V ± 0,5%)	10.2 daNm (pulley Ø152.4 - 2 races)
	10.2 daNm (pulley Ø152.4 - 6 races)
	12.2 daNm (pulley Ø177.8 - 2 races)
Power supply (*)	12 Vdc - 50W
	24 Vdc - 60W
Rotation (pulley side)	CW
Working temperature	-10 °C ÷ +45 °C
Max working temperature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

ORDERING CODE

IEG	10	1/2	**	*	*

- Series: **IEG** = Electromagnetic clutch
- Torque: **10** = 10 daN
- Flanges sect. 4.02: **1/2** = Pump GR. 1-2
- Voltage: **12** = 12V DC; **24** = 24V DC
- Pulley: **A*** = Ø 152,4 at 2 races (only for IEG10); **B** = Ø 152,4 PK6, at 6 races (only for IEG10); * Pulley with section SPA
- Optional: **N** = Clutch with 2 wires

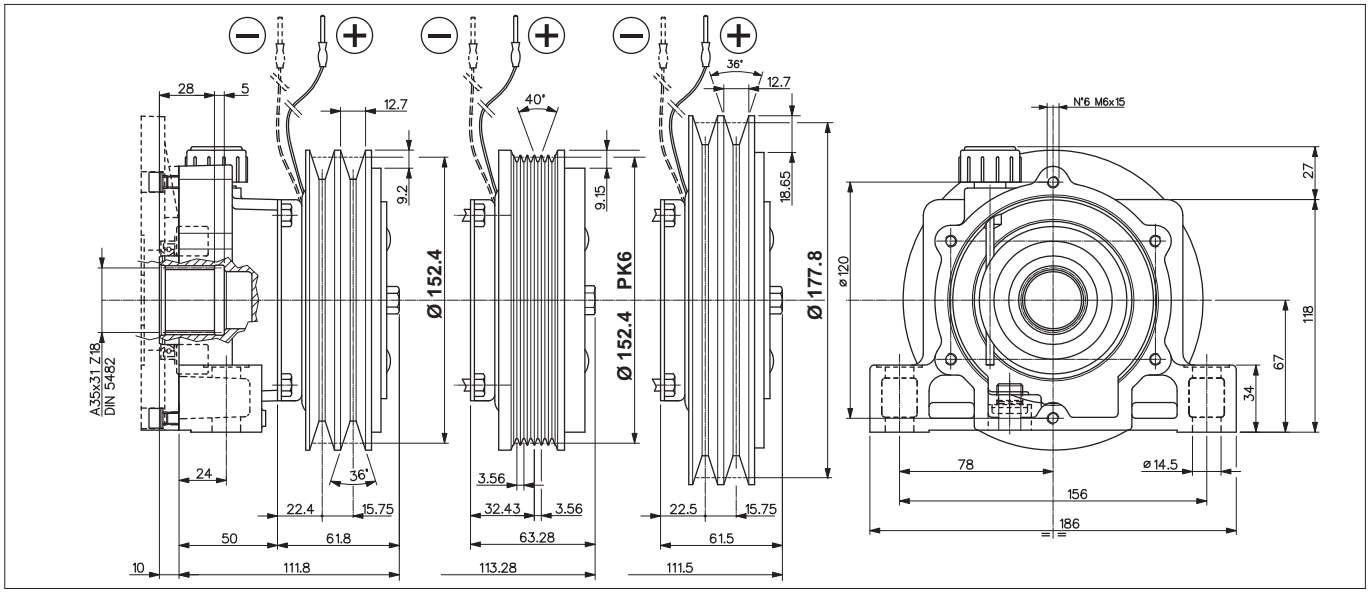
SPARE PARTS



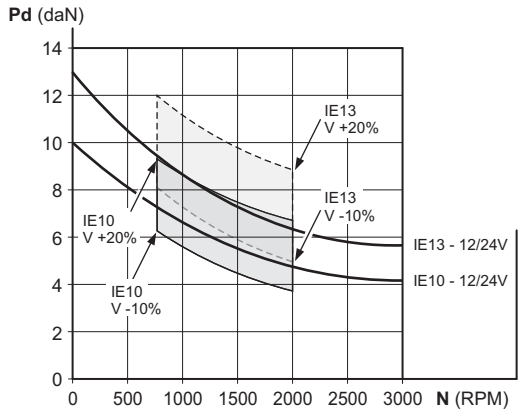
Ref.	Code	Q.ty IEG10..A..	Q.ty IEG10..B..	Description
1	**34202300**	1	1	Shaft
2	**39017400**	1	1	Flange Gr.1-2 (sect 4.02)
3	**39021300**	1	1	Body
4	**39100800**	1	1	Flange 44/1
5	**39103000**	1	1	Spacer
6	**39204500**	1	1	Gasket
7	**40007300**	4	4	Screw TCEI M6x20
8	**Q26035090**	1	1	Screw TEE M8x10
9	**Q27150450**	1	1	Snap ring E45
10	**Q27500070**	1	1	Key 4x5 DIN 6888
11	**44000300**	2	2	Bearing 6009 45x75x16

Ref.	Code	Q.ty IEG10..A..	Q.ty IEG10..B..	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
	46008500	—	1	Clutch D.152.4 x 6 - 10 daNm - 24Vdc
17	**26000005**	1	—	Wire L=65

ELECTROMAGNETIC CLUTCH - OIL LUBRICATION



MAXIMUM LOAD ON THE SHAFT



Approximate calculation of drive torque

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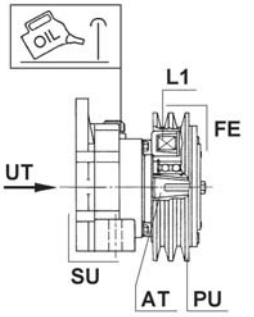

An electromagnetic clutch is a unit designed to convey movement to a UT hydraulic pump through an electrically controlled onloff pulley.
An electromagnetic clutch is composed of:
- an electromagnetic friction clutch (FE)
- an aluminium support (SU) with a conical (AT) and splined (UT) shaft mounted on oil-bath 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.
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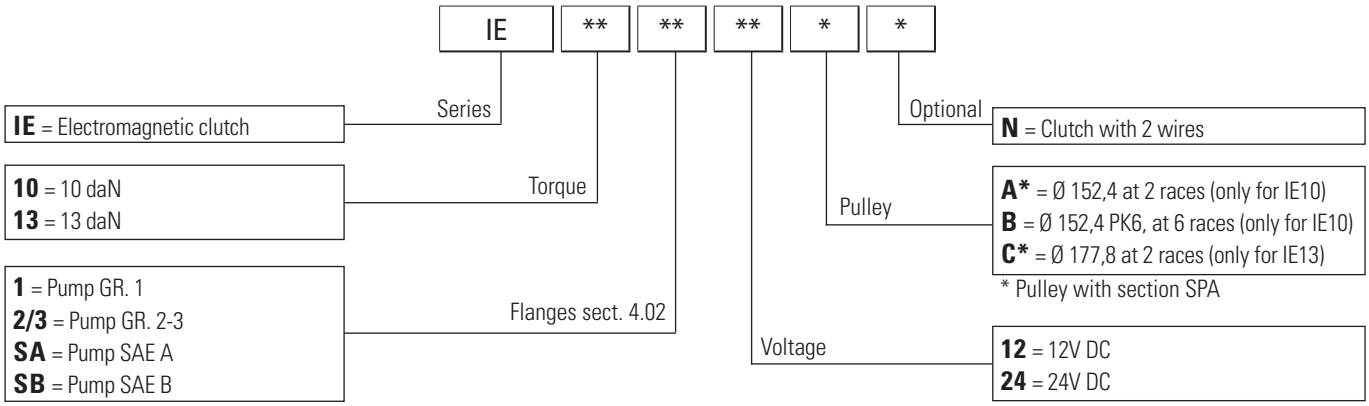
	12.2 daNm (pulley Ø177.8 - 2 races)
Power supply (*)	12 Vdc - 50W
	24 Vdc - 60W
Rotation (pulley side)	CW
Working temperature	-10 °C ÷ +45 °C
Max working temperature coil (*)	100 °C
Oil quantity	0,07 lt.
Type of oil	Type: ISO 19378:2003 Viscosity: ISO VG 150 (ISO 3448:1992)
Oil replacement	After first 500hours then every 12 months

ORDERING CODE



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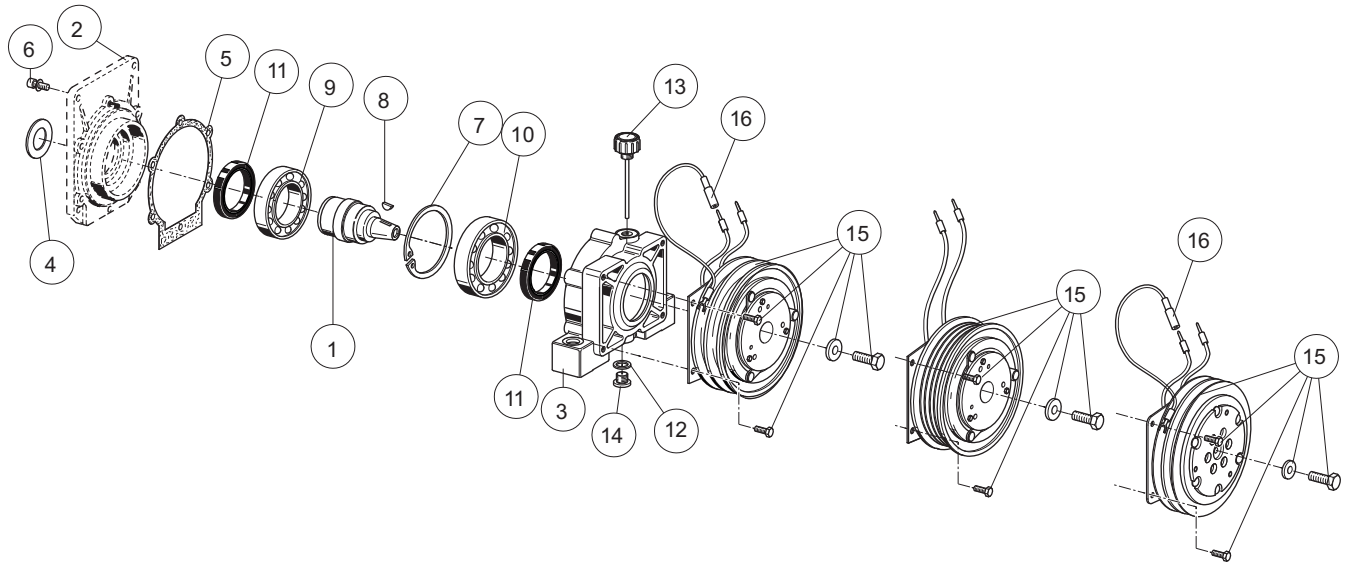
SPARE PARTS



Ref.	Code	Q.ty IE10..A..	Q.ty IE10..B..	Q.ty IE13..C..	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	**Q27160080**	1	1	1	Snap ring 180
8	**Q27500070**	1	1	1	Key 4x5 DIN 6888
9	**44000300**	1	1	1	Bearing 600945x75x16
10	**44001200**	1	1	1	Bearing 6010 50x80x16

Ref.	Code	Q.ty IE10..A..	Q.ty IE10..B..	Q.ty IE13..C..	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	**Q26622252**	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
	46008500	—	1	—	Clutch D.152.4 x 6 - 10 daNm - 24Vdc
	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