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General Information

Electromagnetic Clutches

Running-in is required to obtain the rated torque values of electromagnetic clutches. Running-in is carried out by engaging and disengaging clutch at high speed several times with the pump in exhaust position.

During assembly, make sure that there are no oil or grease traces on pulley surfaces, these must be completely clean.

When assembling electric clutches with front driving flange, check for proper coupling allignement.

Do not exceed the rated torque because this would cause slippage of contact surface with consequent over-heating.

This stage must not last more than 5 seconds since coils could burn.

General Information

Electromagnetic Clutches

Product Overview

Electromagnetic clutches series	Voltage	Rated torque daNm	Pump flanges	Pulley
° 30900-1	12 V DC	3	Gr. 1	diam. 125 mm. 1 Belt Section A (old type)
° 30900-2	24 V DC			
30900-1/N	12 V DC	3	Gr. 1	diam. 125 mm. 1 Belt Section A (new type)
30900-2/N	24 V DC			
30900-1/N1	12 V DC	3	Gr. 1	diam. 125 mm. Belt 4 PLV
30900-2/N1	24 V DC			
30933	12 V DC	10	Gr. 1 - Gr. 2 - Gr. 3 Gr. 2 Bosch - Gr. 3 Bosch SAE A - SAE B	Front type
30934	24 V DC			
30901	12 V DC	10	Gr. 1 - Gr. 2 - Gr. 3 Gr. 2 Bosch - Gr. 3 Bosch SAE A - SAE B	diam. 153 mm. 2 Belt Section A
30903	24 V DC			
30901-1/7	12 V DC	10	Gr. 1 - Gr. 2 - Gr. 3 Gr. 2 Bosch - Gr. 3 Bosch SAE A - SAE B	diam. 152 mm. Belt 7 PLV
30903-1/7	24 V DC			
30929	12 V DC	14	Gr. 1 - Gr. 2 - Gr. 3 Gr. 2 Bosch - Gr. 3 Bosch SAE A - SAE B	diam. 153 mm. 2 Belt Section A
30930	24 V DC			
30980	12 V DC	14	Gr. 1 - Gr. 2 - Gr. 3 Gr. 2 Bosch - Gr. 3 Bosch SAE A - SAE B	diam. 178 mm. 2 Belt Section A
30981	24 V DC			
30929-1/7	12 V DC	14	Gr. 1 - Gr. 2 - Gr. 3 Gr. 2 Bosch - Gr. 3 Bosch SAE A - SAE B	diam. 152 mm. Belt 7 PLV
30930-1/7	24 V DC			
30990	12 V DC	21	Gr. 1 - Gr. 2 - Gr. 3 Gr. 2 Bosch - Gr. 3 Bosch SAE A - SAE B	diam. 186 mm. 2 Belt Section A
30991	24 V DC			
30940/SF	12 V DC	30	Gr. 2 - Gr. 3 - Gr. 3,5 - Gr. 4 Gr. 3 Bosch SAE A - SAE B - SAE C L.G. 20-35-50-75	diam. 229 mm. 2 Belt Section B
30941/SF	24 V DC			

Note: ° On request

Electromagnetic Clutches - Torque 3 daNm (old type)

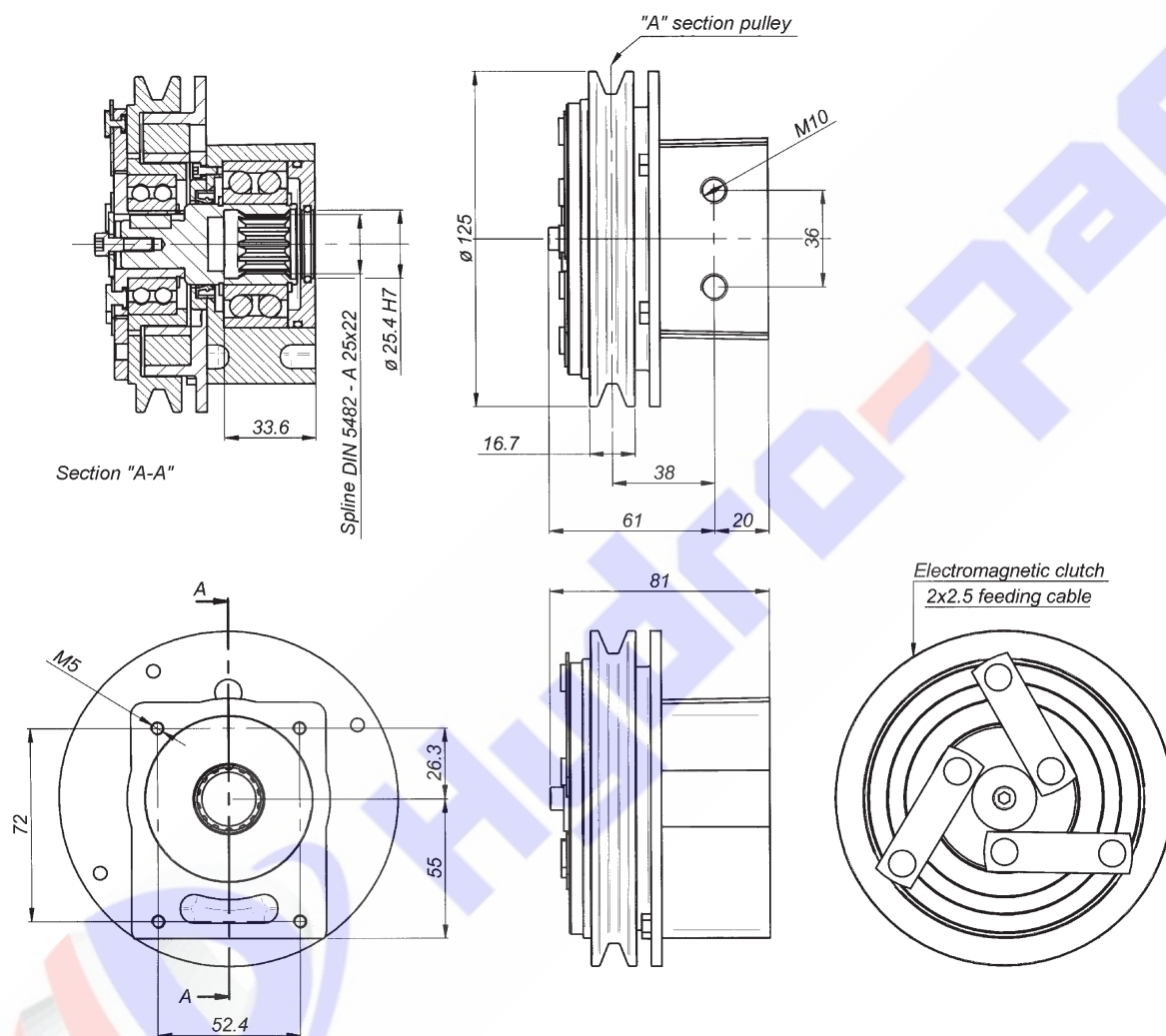
Pump Group 1

Single "A" Section Pulley

INSTALLATION DRAWING

° 30900-1: 12 Volt

° 30900-2: 24 Volt



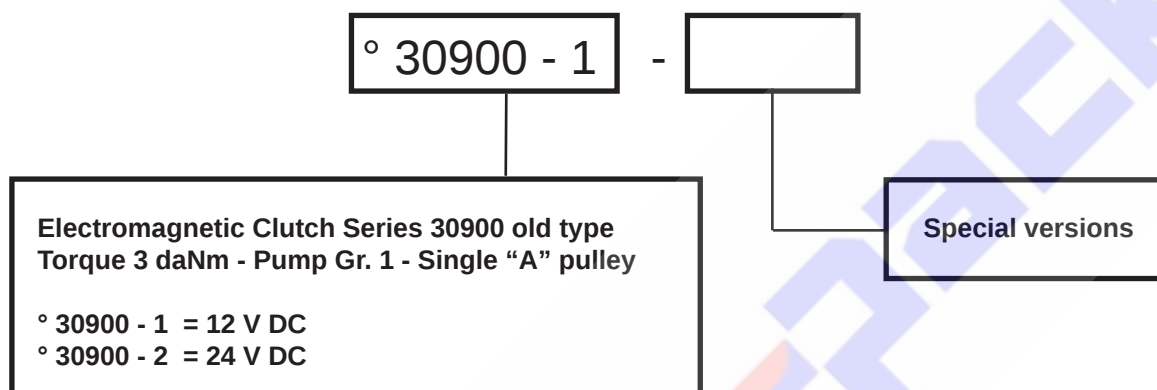
Nominal torque	3,0 daNm		Connection time	25 ms		
Static torque	4,5 daNm		Disconnection time	40 ms		
Dynamic torque	3,2 daNm	at 500 n/min.	Minimum time between two connections	20 sec		
	2,8 daNm	at 1000 n/min.				
	1,7 daNm	at 1500 n/min.				
	1,4 daNm	at 2000 n/min.				
	1,2 daNm	at 2500 n/min.	Max speed	5000 n/min.		
	0,9 daNm	at 3000 n/min.	Weight	3 Kg		
Electric absorption	Resistance (W)		Current (A)		Power (W)	
Temperature	20° C	120° C	20° C	120° C	20° C	120° C
12 V DC	5,7	7,9	2,1	1,6	25,2	18
24 V DC	21,7	30,7	1,1	0,8	26,5	19
All technical data are at 20° C / at 120° C the performance is 20% reduced. All electromagnetic clutches are reversible.						

Electromagnetic Clutches - Torque 3 daNm (old type)

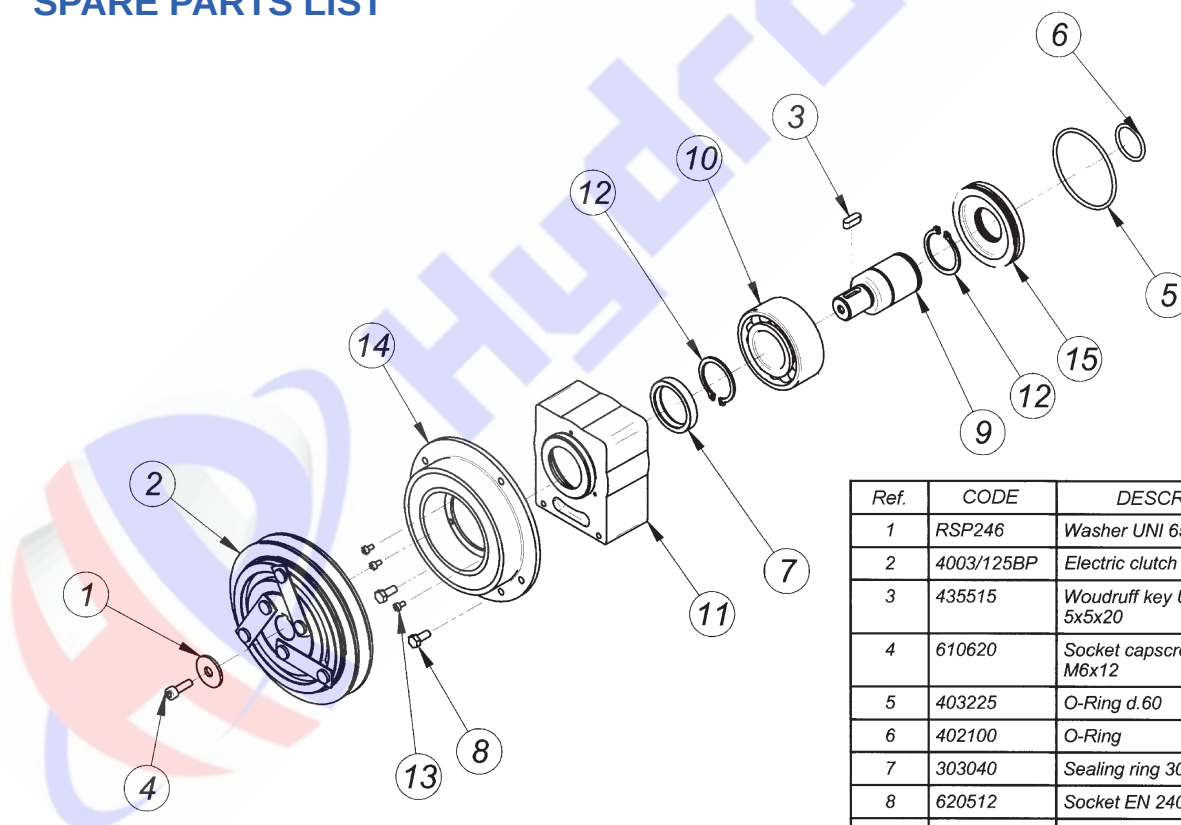
Pump Group 1

Single "A" Section Pulley

ORDER CODE



SPARE PARTS LIST



Ref.	CODE	DESCRIPTION	Q.ty
1	RSP246	Washer UNI 6593 - 6x24x2	1
2	4003/125BP	Electric clutch pulley	1
3	435515	Woudruff key UNI 6604 5x5x20	1
4	610620	Socket capscREW UNI 5931 M6x12	1
5	403225	O-Ring d.60	1
6	402100	O-Ring	1
7	303040	Sealing ring 30x40x7	1
8	620512	Socket EN 24017 M5x12	2
9	AC30900	Shaft	1
10	503206	Bearing SKF 3206	1
11	30009-3/V	Housing	1
12	903000	Snap ring UNI 7436 - 25	2
13	610306	Socket capscREW M3x6 UNI 5931	3
14	401203/125B 402403/125B	Coil	1
15	COP-062	Ring	1

Electromagnetic Clutches - Torque 3 daNm (new type)

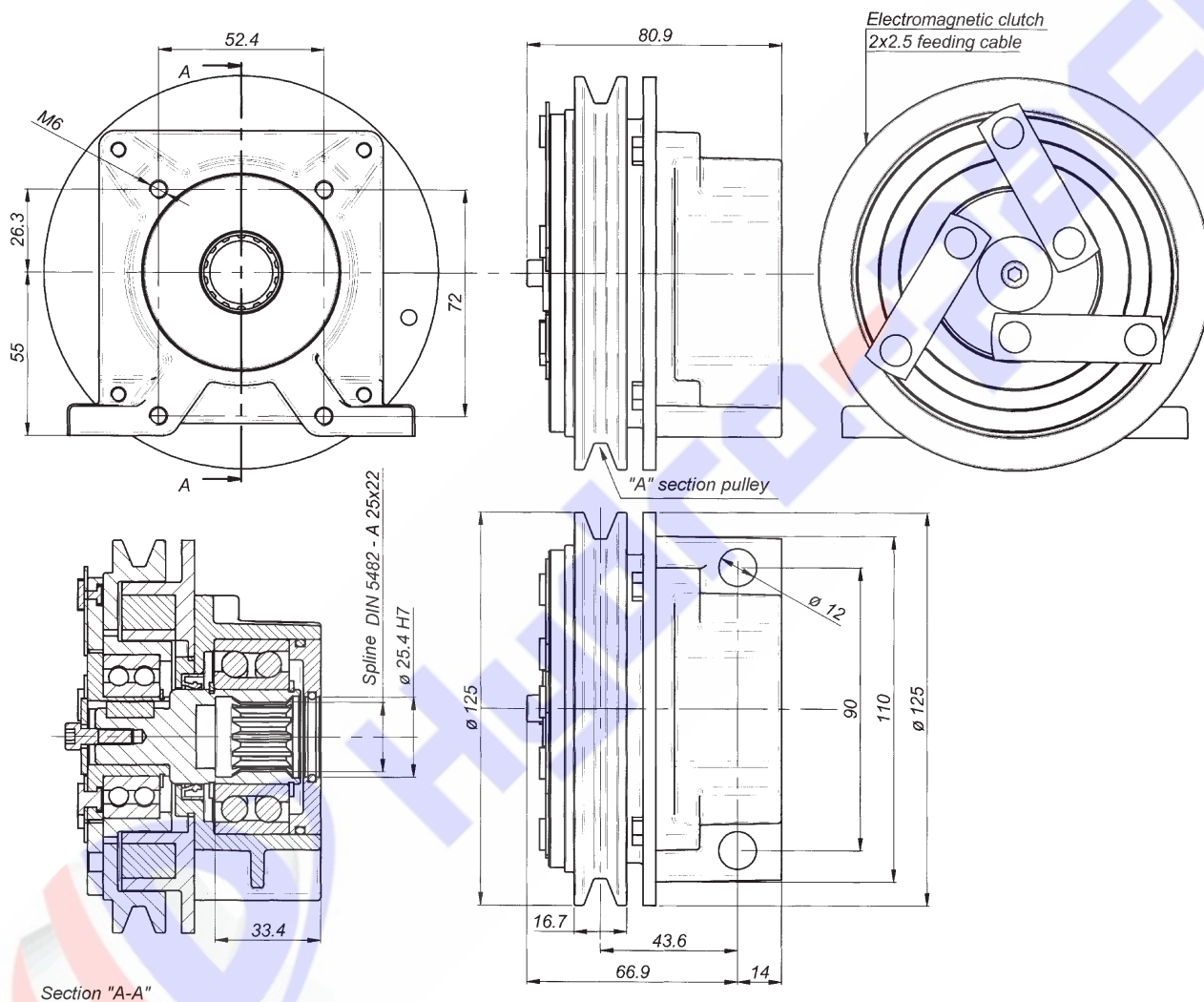
Pump Group 1

Single "A" Section Pulley

INSTALLATION DRAWING

30900-1/N: 12 Volt

30900-2/N: 24 Volt



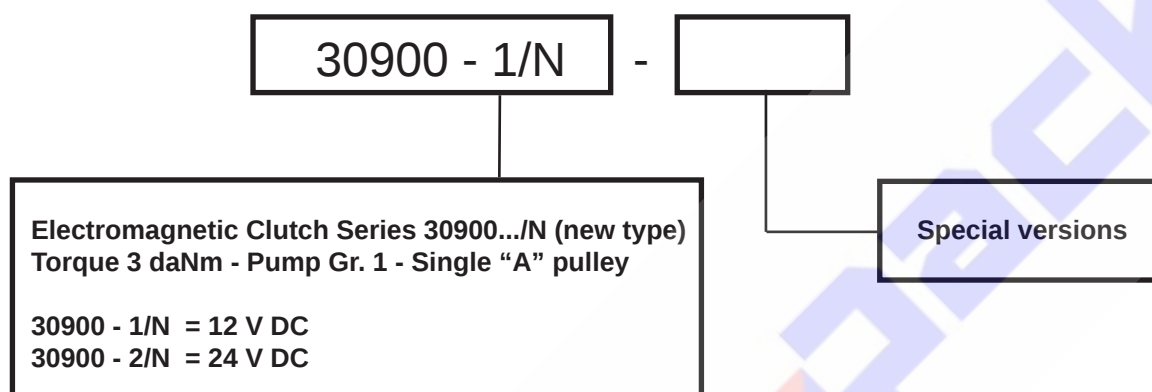
Nominal torque	3,0 daNm		Connection time	25 ms			
Static torque	4,5 daNm		Disconnection time	40 ms			
Dynamic torque	3,2 daNm	at 500 n/min.	Minimum time between two connections	20 sec			
	2,8 daNm	at 1000 n/min.					
	1,7 daNm	at 1500 n/min.					
	1,4 daNm	at 2000 n/min.					
	1,2 daNm	at 2500 n/min.	Max speed	5000 n/min.			
	0,9 daNm	at 3000 n/min.	Weight	3 Kg			
Electric absorption		Resistance (W)		Current (A)		Power (W)	
	20° C	120° C	20° C	120° C	20° C	120° C	
12 V DC	5,7	7,9	2,1	1,6	25,2	18	
24 V DC	21,7	30,7	1,1	0,8	26,5	19	
All technical data are at 20°C / at 120° C the performance is 20% reduced.							
All electromagnetic clutches are reversible.							

Electromagnetic Clutches Series - Torque 3 daNm (new type)

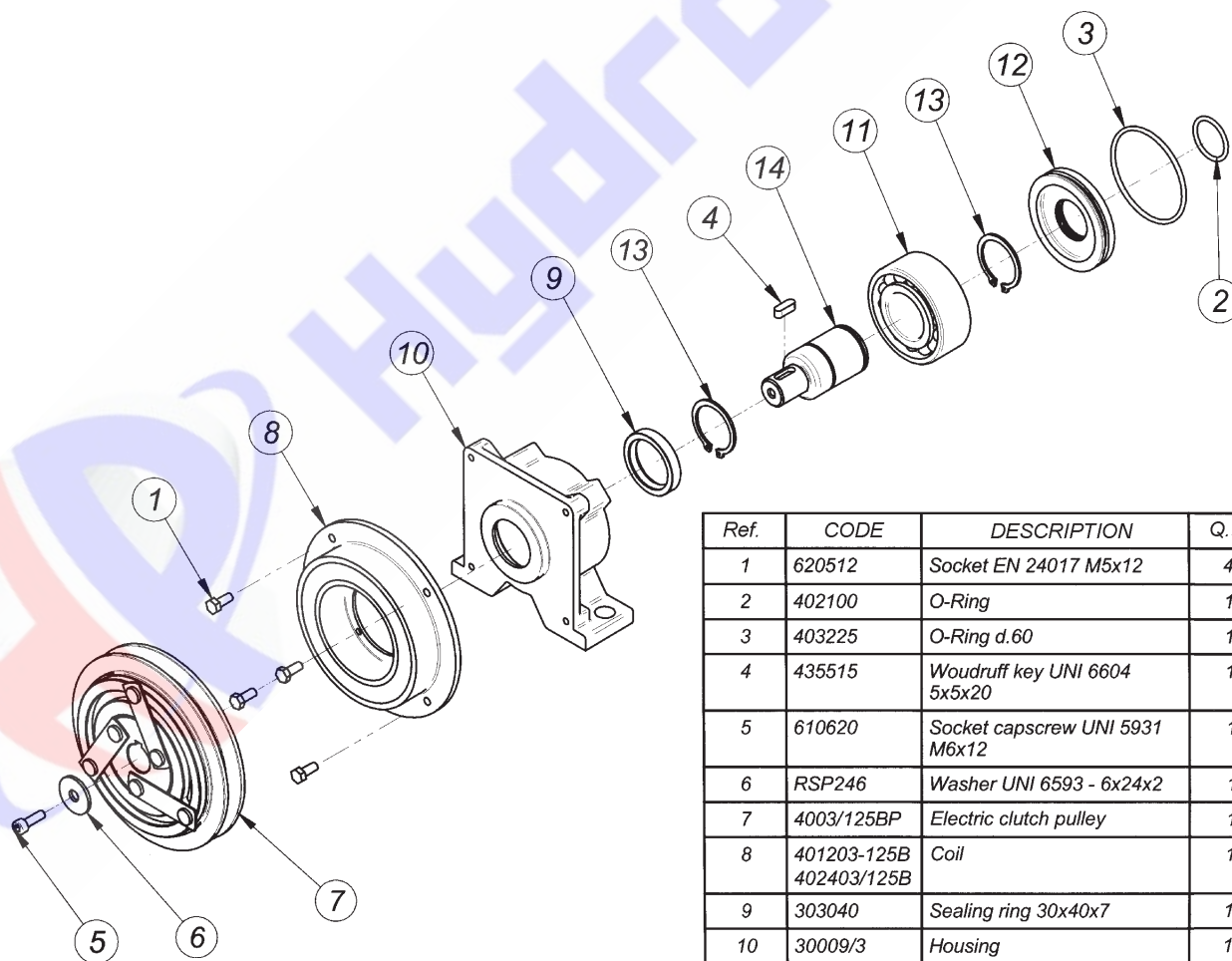
Pump Group 1

Single "A" Section Pulley

ORDER CODE



SPARE PARTS LIST



Ref.	CODE	DESCRIPTION	Q.ty
1	620512	Socket EN 24017 M5x12	4
2	402100	O-Ring	1
3	403225	O-Ring d.60	1
4	435515	Woudruff key UNI 6604 5x5x20	1
5	610620	Socket capscREW UNI 5931 M6x12	1
6	RSP246	Washer UNI 6593 - 6x24x2	1
7	4003/125BP	Electric clutch pulley	1
8	401203-125B 402403/125B	Coil	1
9	303040	Sealing ring 30x40x7	1
10	30009/3	Housing	1
11	503206	Bearing SKF 3206	1
12	COP-062	Ring	1
13	903000	Snap ring UNI 7436 - 25	2
14	AC30900	Shaft	1

Electromagnetic Clutches - Torque 3 daNm (new type)

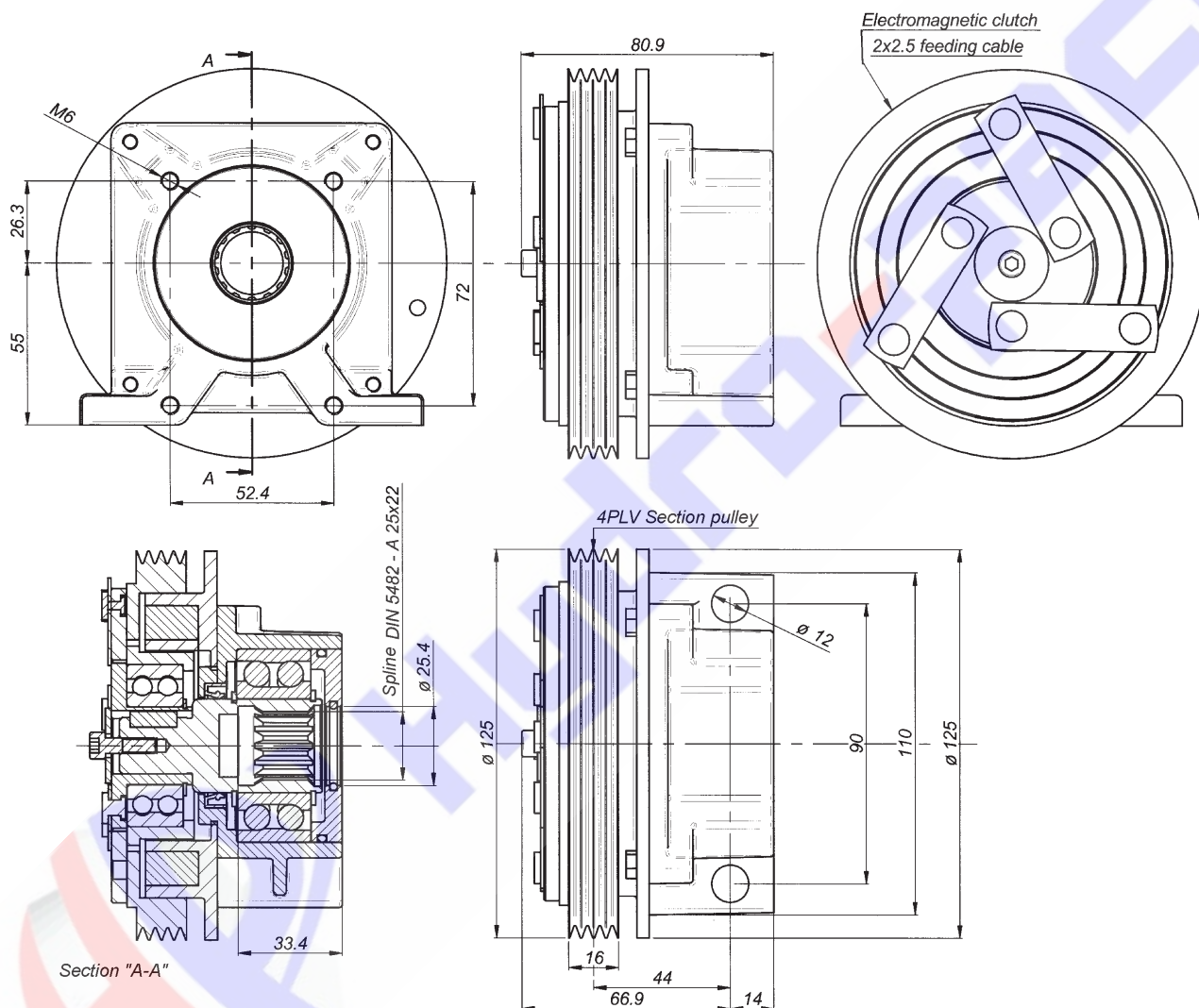
Pump Group 1

4PLV Section Pulley

INSTALLATION DRAWING

30900-1/N1: 12 Volt

30900-2/N1: 24 Volt



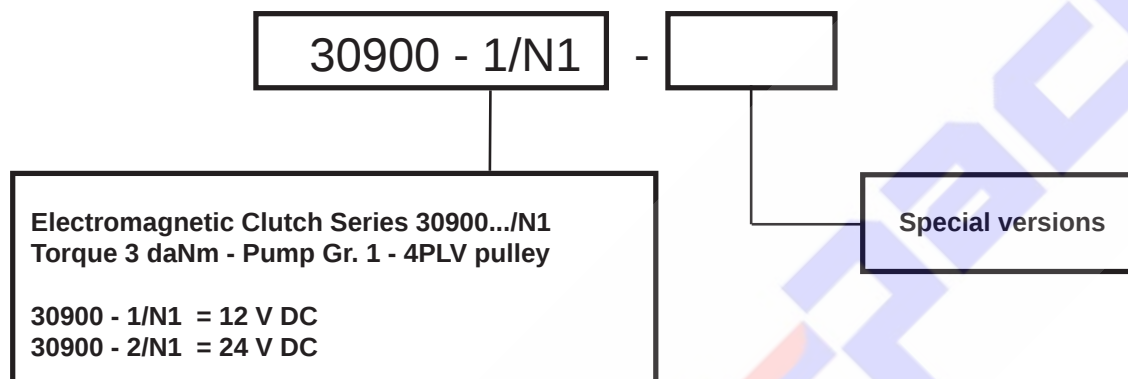
Nominal torque	3,0 daNm		Connection time		25 ms		
Static torque	4,5 daNm		Disconnection time		40 ms		
Dynamic torque	3,2 daNm	at 500 n/min.	Minimum time between two connections		20 sec		
	2,8 daNm	at 1000 n/min.					
	1,7 daNm	at 1500 n/min.					
	1,4 daNm	at 2000 n/min.					
	1,2 daNm	at 2500 n/min.	Max speed		5000 n/min.		
	0,9 daNm	at 3000 n/min.	Weight		3 Kg		
Electric absorption		Resistance (W)		Current (A)		Power (W)	
		20° C	120° C	20° C	120° C	20° C	120° C
12 V DC		5,7	7,9	2,1	1,6	25,2	18
24 V DC		21,7	30,7	1,1	0,8	26,5	19
All technical data are at 20°C / at 120° C the performance is 20% reduced. All electromagnetic clutches are reversible.							

Electromagnetic Clutches - Torque 3 daNm (new type)

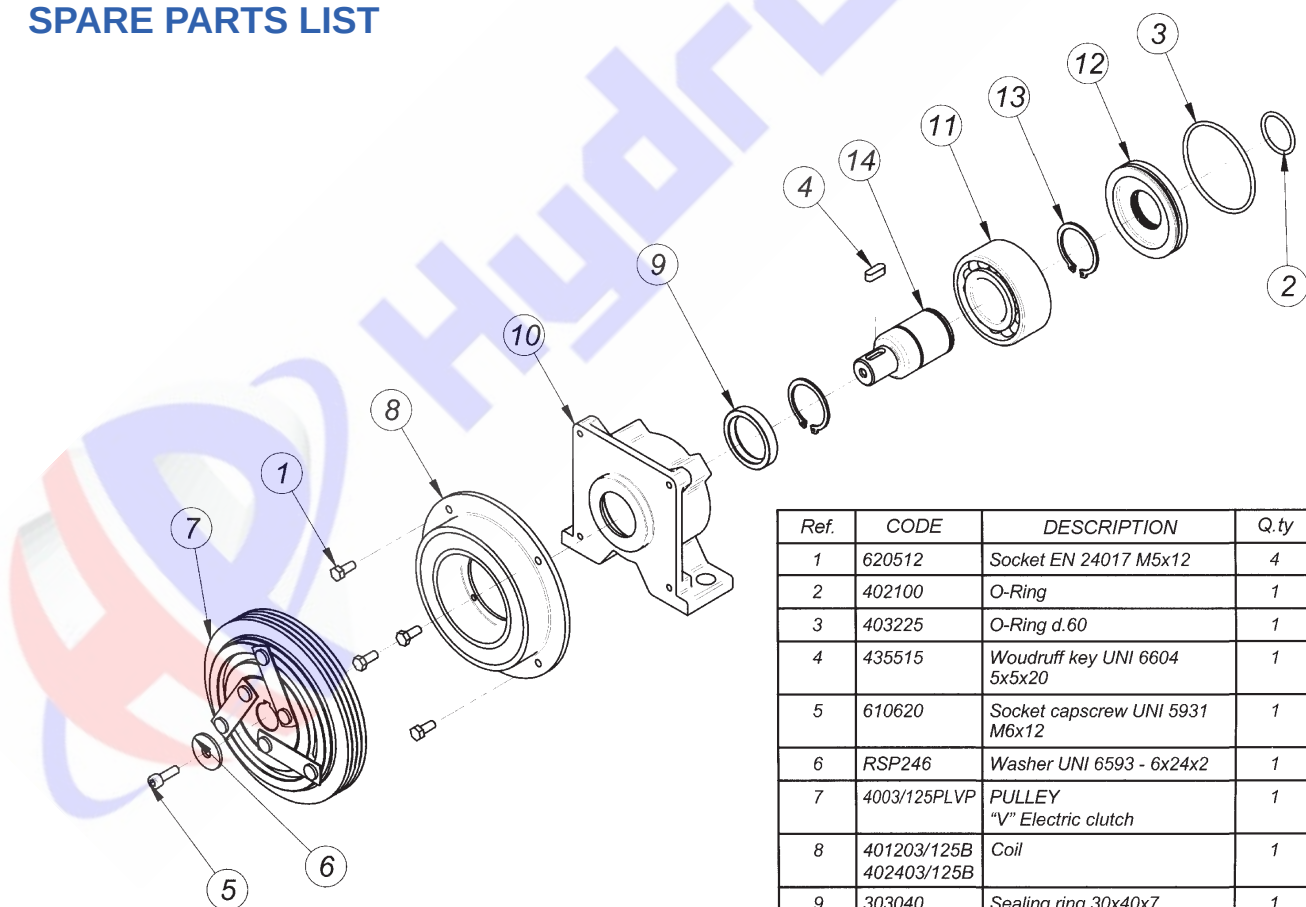
Pump Group 1

4PLV Section Pulley

ORDER CODE



SPARE PARTS LIST



Ref.	CODE	DESCRIPTION	Q. ty
1	620512	Socket EN 24017 M5x12	4
2	402100	O-Ring	1
3	403225	O-Ring d.60	1
4	435515	Woudruff key UNI 6604 5x5x20	1
5	610620	Socket capscREW UNI 5931 M6x12	1
6	RSP246	Washer UNI 6593 - 6x24x2	1
7	4003/125PLVP	PULLEY "V" Electric clutch	1
8	401203/125B 402403/125B	Coil	1
9	303040	Sealing ring 30x40x7	1
10	30009/3	Housing	1
11	503206	Bearing SKF 3206	1
12	COP-062	Ring	1
13	903000	Snap ring UNI 7436 - 25	2
14	AC30900	Shaft	1

Front type Electromagnetic Clutches - Torque 10 daNm

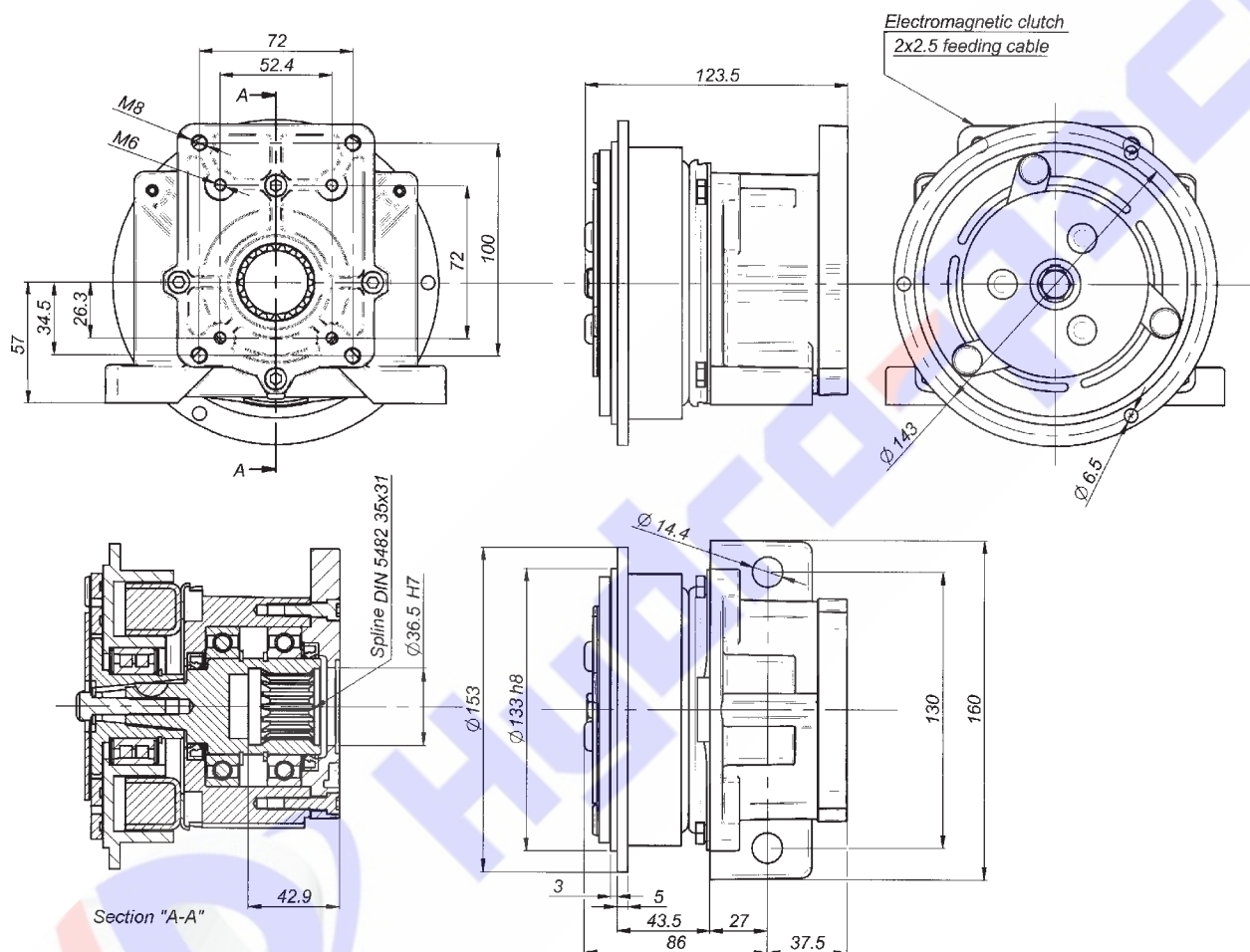
Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

Without Pulley

INSTALLATION DRAWING

30933: 12 Volt

30934: 24 Volt



Nominal torque	7,8 daNm		Connection time	25 ms		
Static torque	12,5 daNm		Disconnection time	40 ms		
Dynamic torque	8,5 daNm	at 500 n/min.	Minimum time between two connections	20 sec		
	7,0 daNm	at 1000 n/min.				
	4,2 daNm	at 1500 n/min.				
	3,5 daNm	at 2000 n/min.				
	2,7 daNm	at 2500 n/min.	Max speed	5000 n/min.		
	2,5 daNm	at 3000 n/min.	Weight	5 Kg		
Electric absorption	Resistance (Ω)		Current (A)		Power (W)	
	20° C	120° C	20° C	120° C	20° C	120° C
12 V DC	4,00	5,60	3,33	2,00	40,00	24,00
24 V DC	20,00	28,00	1,26	0,77	30,30	18,18
All technical data are at 20°C / at 120 °C the performance is 20% reduced.						
All electromagnetic clutches are reversible.						

Electromagnetic Clutches - Torque 10 daNm

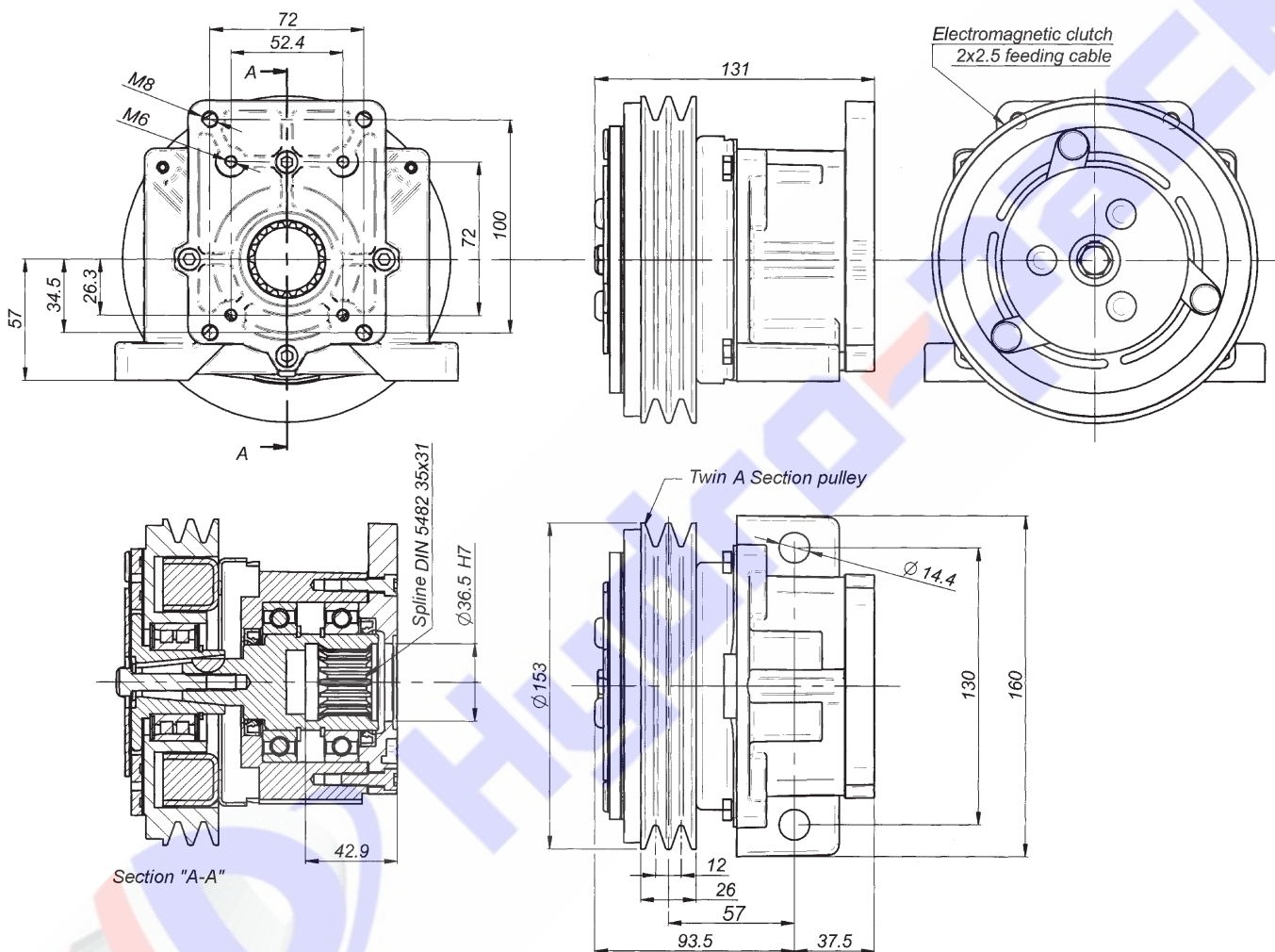
Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

Twin "A" Section Pulley

INSTALLATION DRAWING

30901: 12 Volt

30903: 24 Volt



Nominal torque	7,8 daNm		Connection time		25 ms		
Static torque	12,5 daNm		Disconnection time		40 ms		
Dynamic torque	8,5 daNm	at 500 n/min.	Minimum time between two connections		20 sec.		
	7,0 daNm	at 1000 n/min.					
	4,2 daNm	at 1500 n/min.					
	3,5 daNm	at 2000 n/min.					
	2,7 daNm	at 2500 n/min.	Max speed		5000 n/min.		
	2,5 daNm	at 3000 n/min.	Weight		5,5 Kg		
Electric absorption		Resistance (Ω)		Current (A)		Power (W)	
		20° C	120° C	20° C	120° C	20° C	120° C
12 V DC		4,00	5,60	3,33	2,00	40,00	24,00
24 V DC		20,00	28,00	1,26	0,77	30,30	18,18
All technical data are at 20°C / at 120 °C the performance is 20% reduced. All electromagnetic clutches are reversible.							

Electromagnetic Clutches - Torque 10 daNm

Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

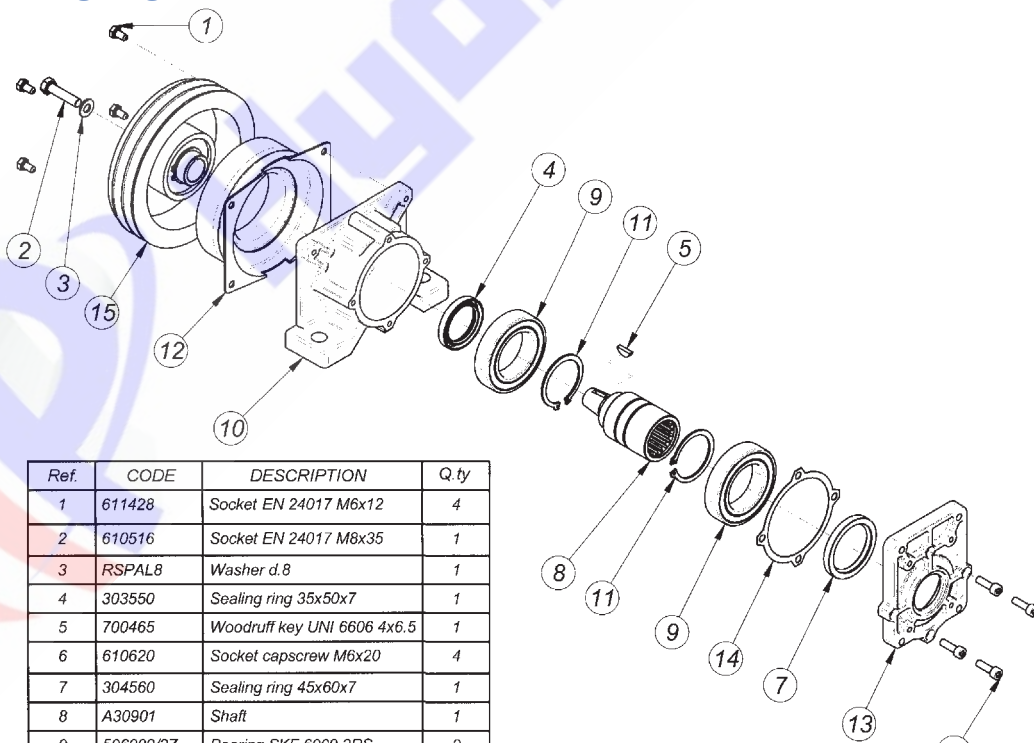
Twin "A" Section Pulley

ORDER CODE

CODE

30909			-	30803			-		Special versions
Electromagnetic Clutch Torque 10 daNm - Twin "A" pulley			Flanges (see page 29)						
Pump Flange	Voltage	Code							
Gr. 1 - 2	12 V DC	30901							
Gr. 1 - 2	24 V DC	30903	- - Gr 1 - 2						
Gr. 2 Bosch	12 V DC	30917							
Gr. 2 Bosch	24 V DC	30919	30817 - Gr. 2 Bosch						
Gr. 3	12 V DC	30909							
Gr. 3	24 V DC	30911	30803 - Gr 3						
Gr. 3 Bosch	12 V DC	30925							
Gr. 3 Bosch	24 V DC	30927	30821 - Gr. 3 Bosch						
SAE A	12 V DC	30901/SA							
SAE A	24 V DC	30903/SA	30420.3 - SAE A						
SAE B	12 V DC	30901/SB							
SAE B	24 V DC	30903/SB	30420.1 - SAE B						

SPARE PARTS LIST



Ref.	CODE	DESCRIPTION	Q.ty
1	611428	Socket EN 24017 M6x12	4
2	610516	Socket EN 24017 M8x35	1
3	RSPAL8	Washer d.8	1
4	303550	Sealing ring 35x50x7	1
5	700465	Woodruff key UNI 6606 4x6.5	1
6	610620	Socket capscREW M6x20	4
7	304560	Sealing ring 45x60x7	1
8	A30901	Shaft	1
9	506009/2Z	Bearing SKF 6009 2RS	2
10	30009.1	Housing	1
11	904500	Snap ring d.45	2
12	401210/153 402410/153	Coil	1
13	30900.1	Flange for pumps Gr 1 - 2	1
14	30009.1.1	Gasket	1
15	4010/153P	Electric clutch	1

Electromagnetic Clutches - Torque 10 daNm

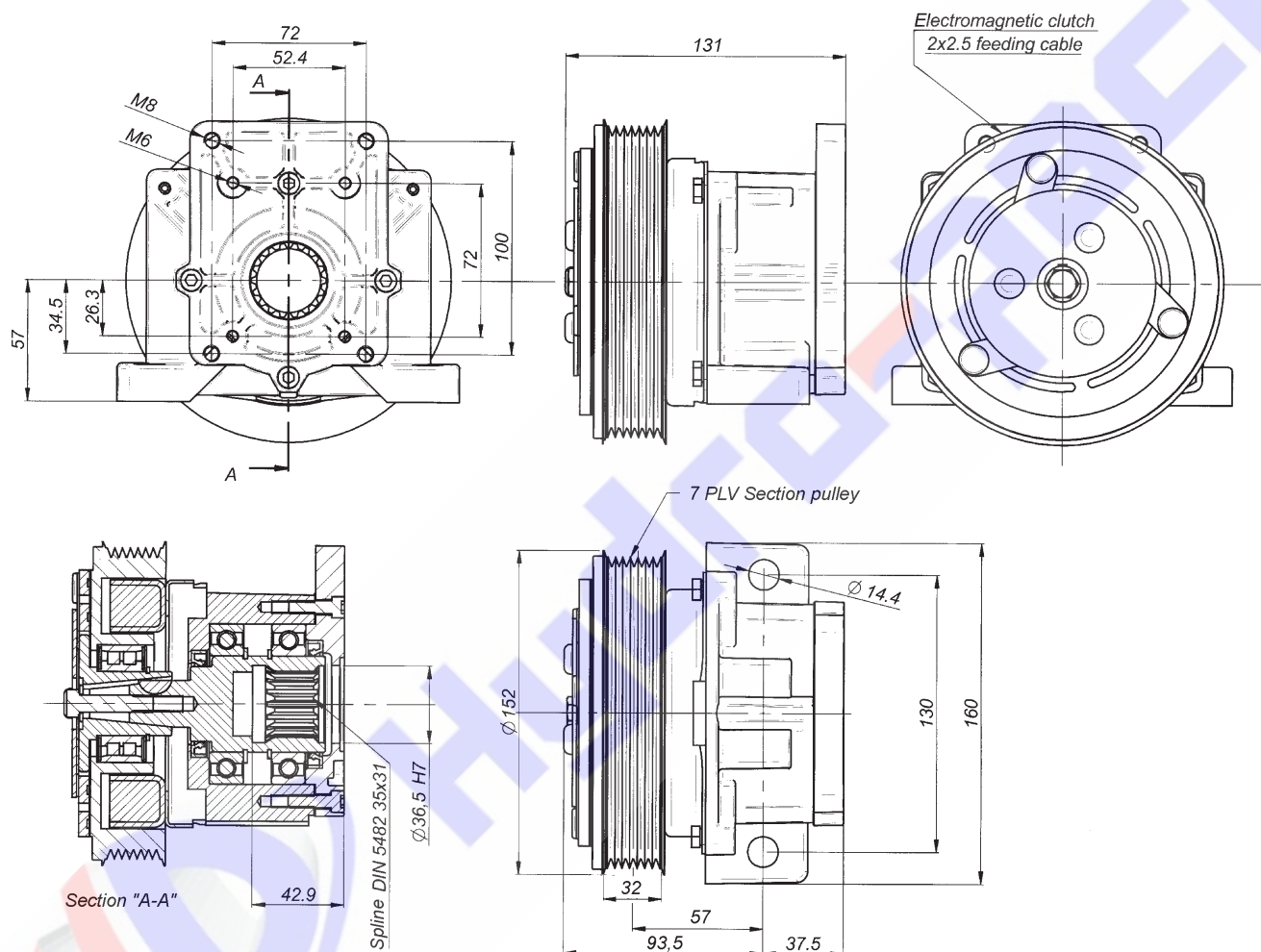
Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

7 PLV Section Pulley

INSTALLATION DRAWING

30901-1/7: 12 Volt

30903-1/7: 24 Volt



Nominal torque	7,8 daNm		Connection time	25 ms			
Static torque	12,5 daNm		Disconnection time	40 ms			
Dynamic torque	8,5 daNm	at 500 n/min.	Minimum time between two connections	20 sec			
	7,0 daNm	at 1000 n/min.					
	4,2 daNm	at 1500 n/min.					
	3,5 daNm	at 2000 n/min.					
	2,7 daNm	at 2500 n/min.	Max speed	5000 n/min.			
	2,5 daNm	at 3000 n/min.	Weight	5,5 Kg			
Electric absorption		Resistance (Ω)		Current (A)		Power (W)	
		20° C	120° C	20° C	120° C	20° C	120° C
12 V DC		4,00	5,60	3,33	2,00	40,00	24,00
24 V DC		20,00	28,00	1,26	0,77	30,30	18,18
All technical data are at 20°C / at 120 °C the performance is 20% reduced. All electromagnetic clutches are reversible.							

Electromagnetic Clutches - Torque 10 daNm

Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

7 PLV Section Pulley

ORDER CODE

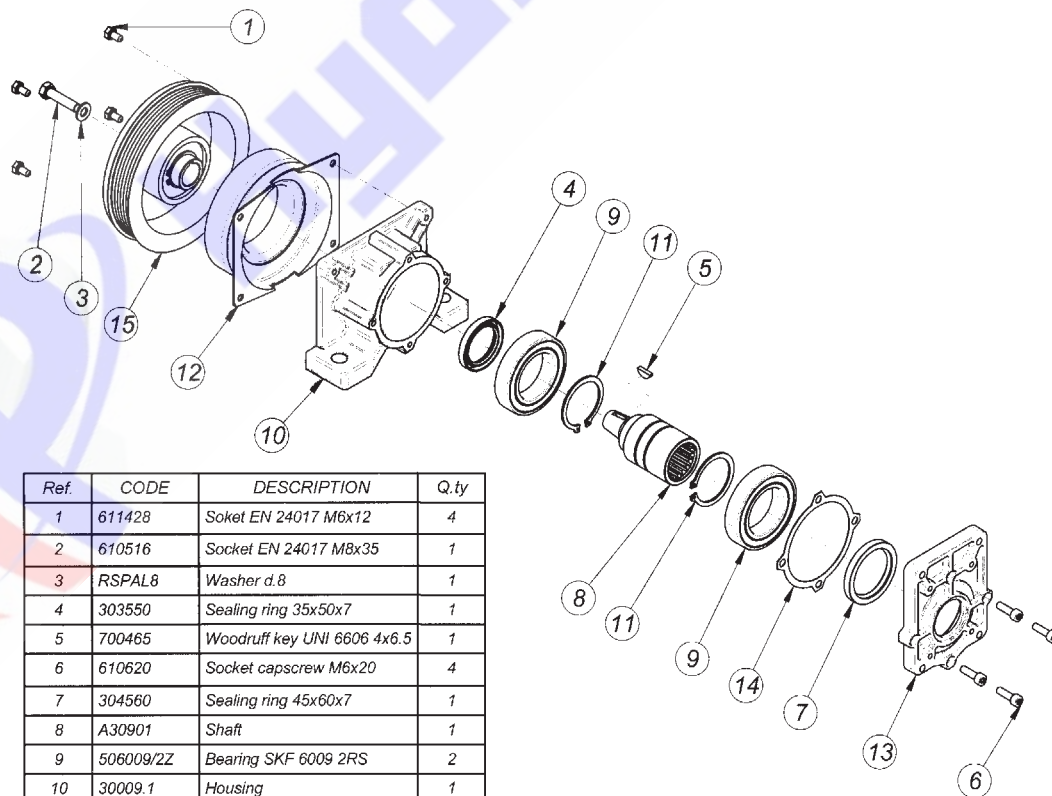
30909-1/7

- 30803 -

Electromagnetic Clutch Torque 10 daNm - 7 PLV pulley			Flanges (see page 29)
Pump Flange	Voltage	Code	
Gr. 1 - 2	12 V DC	30901-1/7	- - Gr. 1 - 2
Gr. 1 - 2	24 V DC	30903-1/7	
Gr. 2 Bosch	12 V DC	30917-1/7	30817 - Gr. 2 Bosch
Gr. 2 Bosch	24 V DC	30919-1/7	
Gr. 3	12 V DC	30909-1/7	30803 - Gr. 3
Gr. 3	24 V DC	30911-1/7	
Gr. 3 Bosch	12 V DC	30925-1/7	30821 - Gr. 3 Bosch
Gr. 3 Bosch	24 V DC	30927-1/7	
SAE A	12 V DC	30901-1/SA	30420.3 - SAE A
SAE A	24 V DC	30903-1/SA	
SAE B	12 V DC	30901-1/7/SB	30420.1 - SAE B
SAE B	24 V DC	30903-1/7/SB	

Special versions

SPARE PARTS LIST



Ref.	CODE	DESCRIPTION	Q.ty
1	611428	Soket EN 24017 M6x12	4
2	610516	Socket EN 24017 M8x35	1
3	RSPAL8	Washer d.8	1
4	303550	Sealing ring 35x50x7	1
5	700465	Woodruff key UNI 6606 4x6.5	1
6	610620	Socket capscREW M6x20	4
7	304560	Sealing ring 45x60x7	1
8	A30901	Shaft	1
9	506009/ZZ	Bearing SKF 6009 2RS	2
10	30009.1	Housing	1
11	904500	Snap ring d.45	2
12	401210/PLV 402410/PLV	Coil	1
13	30900.1	Flange for pumps Gr 1 - 2	1
14	30009.1.1	Gasket	1
15	4010/PLV 7	Electric clutch PLV	1

Electromagnetic Clutches - Torque 14 daNm

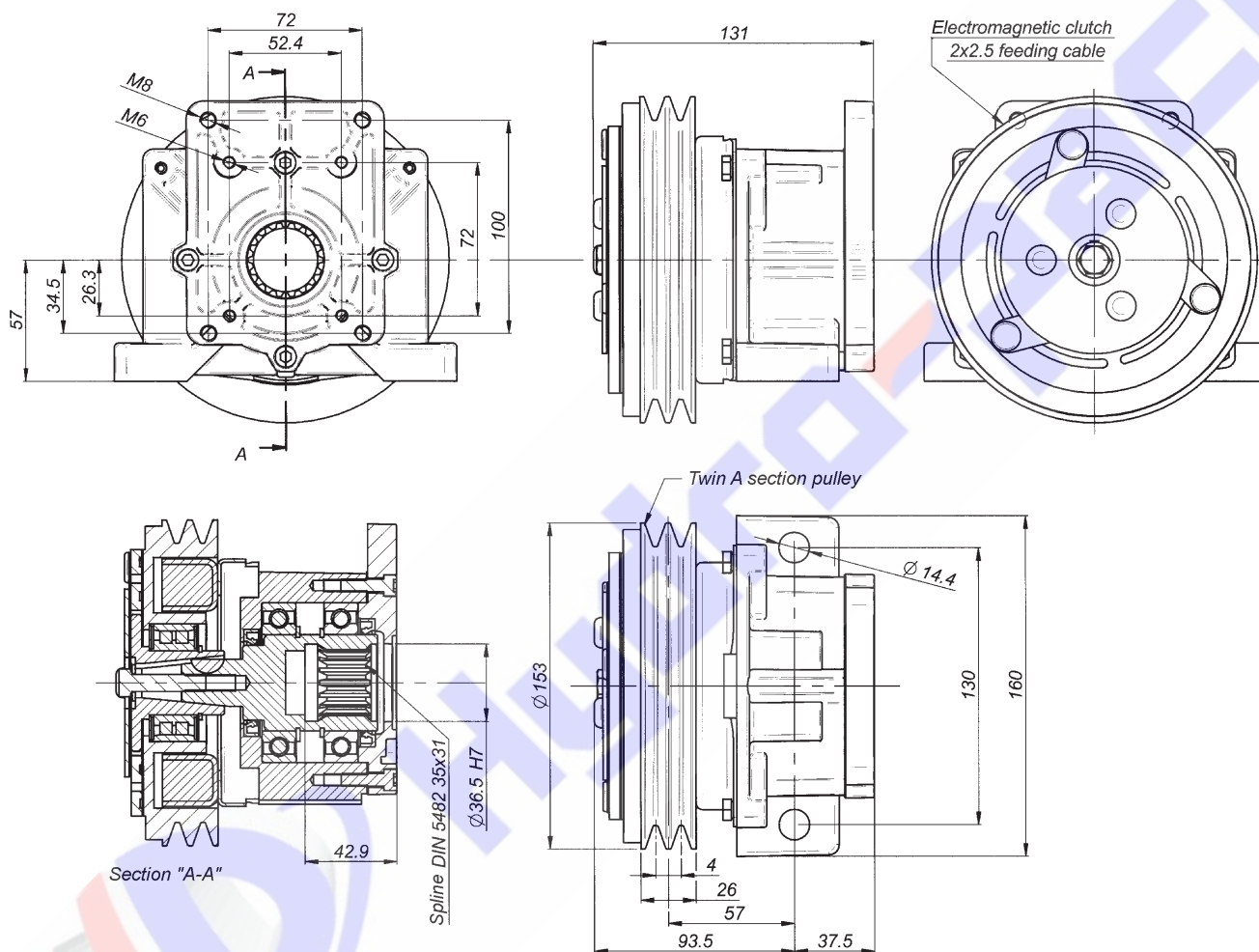
Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

Twin "A" Section Pulley diam. 153

INSTALLATION DRAWING

30929: 12 Volt

30930: 24 Volt



Nominal torque	11,8 daNm		Connection time	25 ms			
Static torque	14,0 daNm		Disconnection time	40 ms			
Dynamic torque	12,5 daNm	at 500 n/min.	Minimum time between two connections	20 sec			
	11,0 daNm	at 1000 n/min.					
	8,2 daNm	at 1500 n/min.					
	7,5 daNm	at 2000 n/min.					
	6,7 daNm	at 2500 n/min.	Max speed	5000 n/min.			
	6,5 daNm	at 3000 n/min.	Weight	5,5 Kg			
Electric absorption		Resistance (Ω)		Current (A)		Power (W)	
		20° C	120° C	20° C	120° C	20° C	120° C
12 V DC		4,00	5,60	3,33	2,00	40,00	24,00
24 V DC		20,00	28,00	1,26	0,77	30,30	18,18
All technical data are at 20° C / at 120 °C the performance is 20% reduced. All electromagnetic clutches are reversible.							

Electromagnetic Clutches - Torque 14 daNm

Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

Twin "A" Section Pulley diam. 153

ORDER CODE

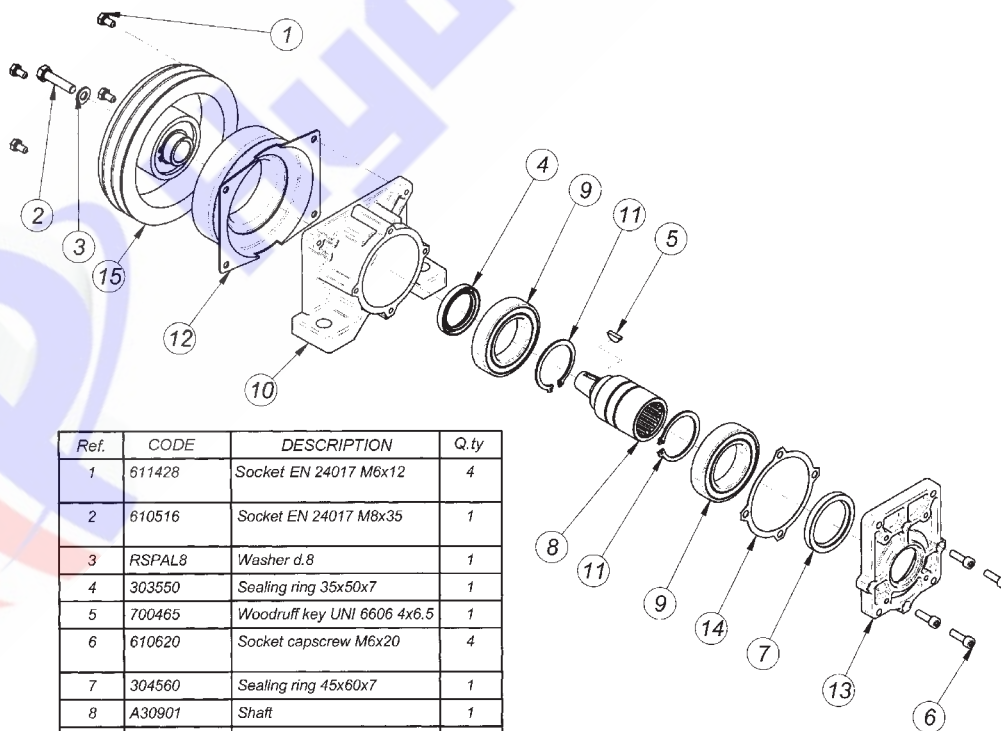
30931

- 30803 -

Electromagnetic Clutch Torque 14 daNm - Twin "A" Pulley diam. 153			Flanges (see page 29)
Pump Flange	Voltage	Code	
Gr. 1 - 2	12 V DC	30929	- - Gr. 1 - 2
Gr. 1 - 2	24 V DC	30930	
Gr. 2 Bosch	12 V DC	30929/2B	30817 - Gr. 2 Bosch
Gr. 2 Bosch	24 V DC	30930/2B	
Gr. 3	12 V DC	30931	30803 - Gr. 3
Gr. 3	24 V DC	30932	
Gr. 3 Bosch	12 V DC	30931/3B	30821 - Gr. 3 Bosch
Gr. 3 Bosch	24 V DC	30932/3B	
SAE A	12 V DC	30929/SA	30420.3 - SAE A
SAE A	24 V DC	30930/SA	
SAE B	12 V DC	30929/SB	30420.1 - SAE B
SAE B	24 V DC	30930/SB	

Special versions

SPARE PARTS LIST



Ref.	CODE	DESCRIPTION	Q.ty
1	611428	Socket EN 24017 M6x12	4
2	610516	Socket EN 24017 M8x35	1
3	RSPAL8	Washer d.8	1
4	303550	Sealing ring 35x50x7	1
5	700465	Woodruff key UNI 6606 4x6.5	1
6	610620	Socket capscREW M6x20	4
7	304560	Sealing ring 45x60x7	1
8	A30901	Shaft	1
9	506009/2Z	Bearing SKF 6009 2RS	2
10	30009.1	Housing	1
11	904500	Snap ring d.45	2
12	401214/153 402414/153	Coil	1
13	30900.1	Flange for pumps Gr 1 - 2	1
14	30009.1.1	Gasket	1
15	4014/153P	Electric clutch	1

Electromagnetic Clutches - Torque 14 daNm

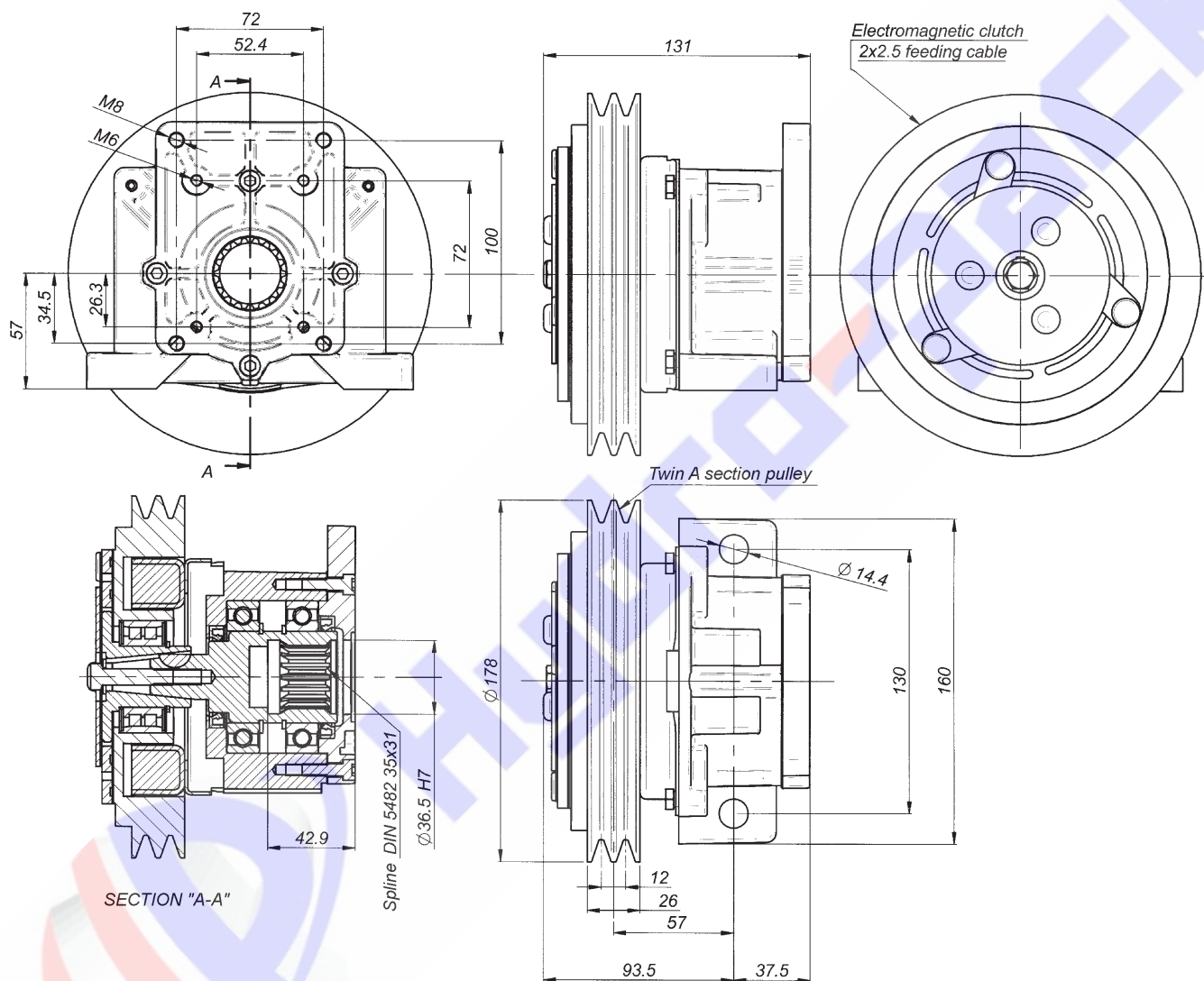
Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

Twin "A" Section Pulley diam. 178

INSTALLATION DRAWING

30980: 12 Volt

30981: 24 Volt



Nominal torque	11,8 daNm		Connection time		25 ms		
Static torque	14,0 daNm		Disconnection time		40 ms		
Dynamic torque	12,5 daNm	at 500 n/min.	Minimum time between two connections		20 sec		
	11,0 daNm	at 1000 n/min.					
	8,2 daNm	at 1500 n/min.					
	7,5 daNm	at 2000 n/min.					
	6,7 daNm	at 2500 n/min.	Max speed		5000 n/min.		
	6,5 daNm	at 3000 n/min.	Weight		5,8 Kg		
Electric absorption		Resistance (Ω)		Current (A)		Power (W)	
		20° C	120° C	20° C	120° C	20° C	120° C
12 V DC		4,00	5,60	3,33	2,00	40,00	24,00
24 V DC		20,00	28,00	1,26	0,77	30,30	18,18
All technical data are at 20°C / at 120 °C the performance is 20% reduced. All electromagnetic clutches are reversible.							

Electromagnetic Clutches - Torque 14 daNm

Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

Twin "A" Section Pulley diam. 178

ORDER CODE

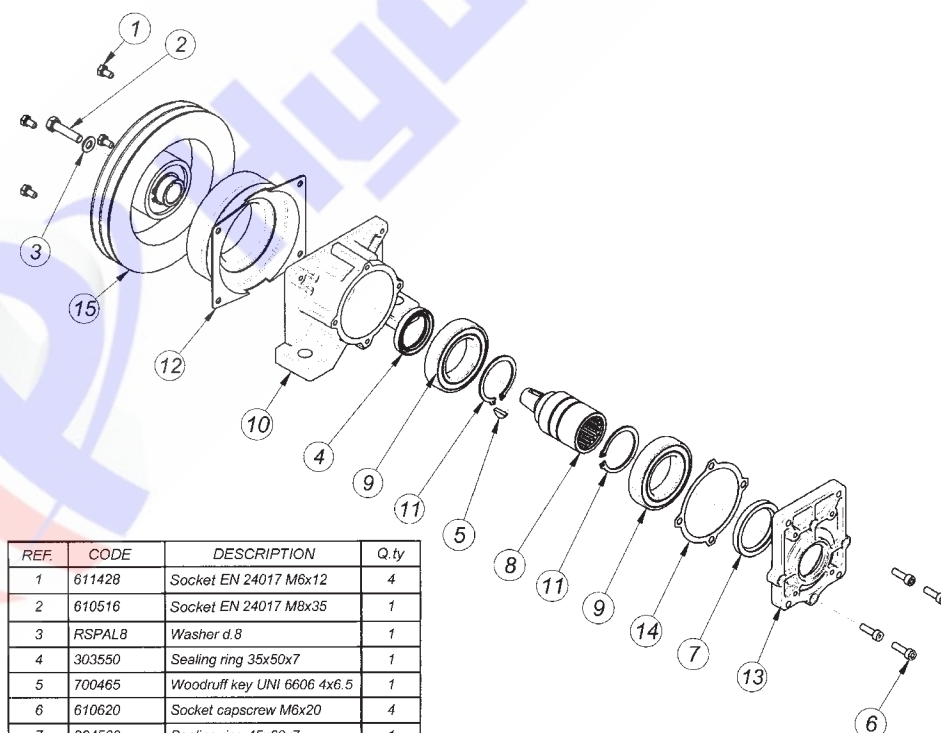
30982

- 30803

Electromagnetic Clutch Torque 14 daNm - Twin "A" Pulley diam. 178			Flanges (see page 29)
Pump Flange	Voltage	Code	
Gr. 1 - 2	12 V DC	30980	- - Gr. 1 - 2
Gr. 1 - 2	24 V DC	30981	
Gr. 2 Bosch	12 V DC	30980/2B	30817 - Gr. 2 Bosch
Gr. 2 Bosch	24 V DC	30981/2B	
Gr. 3	12 V DC	30982	30803 - Gr. 3
Gr. 3	24 V DC	30983	
Gr. 3 Bosch	12 V DC	30982/3B	30821 - Gr. 3 Bosch
Gr. 3 Bosch	24 V DC	30983/3B	
SAE A	12 V DC	30980/SA	30420.3 - SAE A
SAE A	24 V DC	30981/SA	
SAE B	12 V DC	30980/SB	30420.1 - SAE B
SAE B	24 V DC	30981/SB	

Special versions

SPARE PARTS LIST



REF.	CODE	DESCRIPTION	Q.ty
1	611428	Socket EN 24017 M6x12	4
2	610516	Socket EN 24017 M8x35	1
3	RSPAL8	Washer d.8	1
4	303550	Sealing ring 35x50x7	1
5	700465	Woodruff key UNI 6606 4x6.5	1
6	610620	Socket capscREW M6x20	4
7	304560	Sealing ring 45x60x7	1
8	A30901	Shaft	1
9	506009/ZZ	Bearing SKF 6009 2RS	2
10	30009.1	Housing	1
11	904500	Snap ring d.45	2
12	401214/175 402414/175	Coil	1
13	30900.1	Flange for pumps Gr 1 - 2	1
14	30009.1.1	Gasket	1
15	4014/175P	Electric clutch	1

Electromagnetic Clutches - Torque 14 daNm

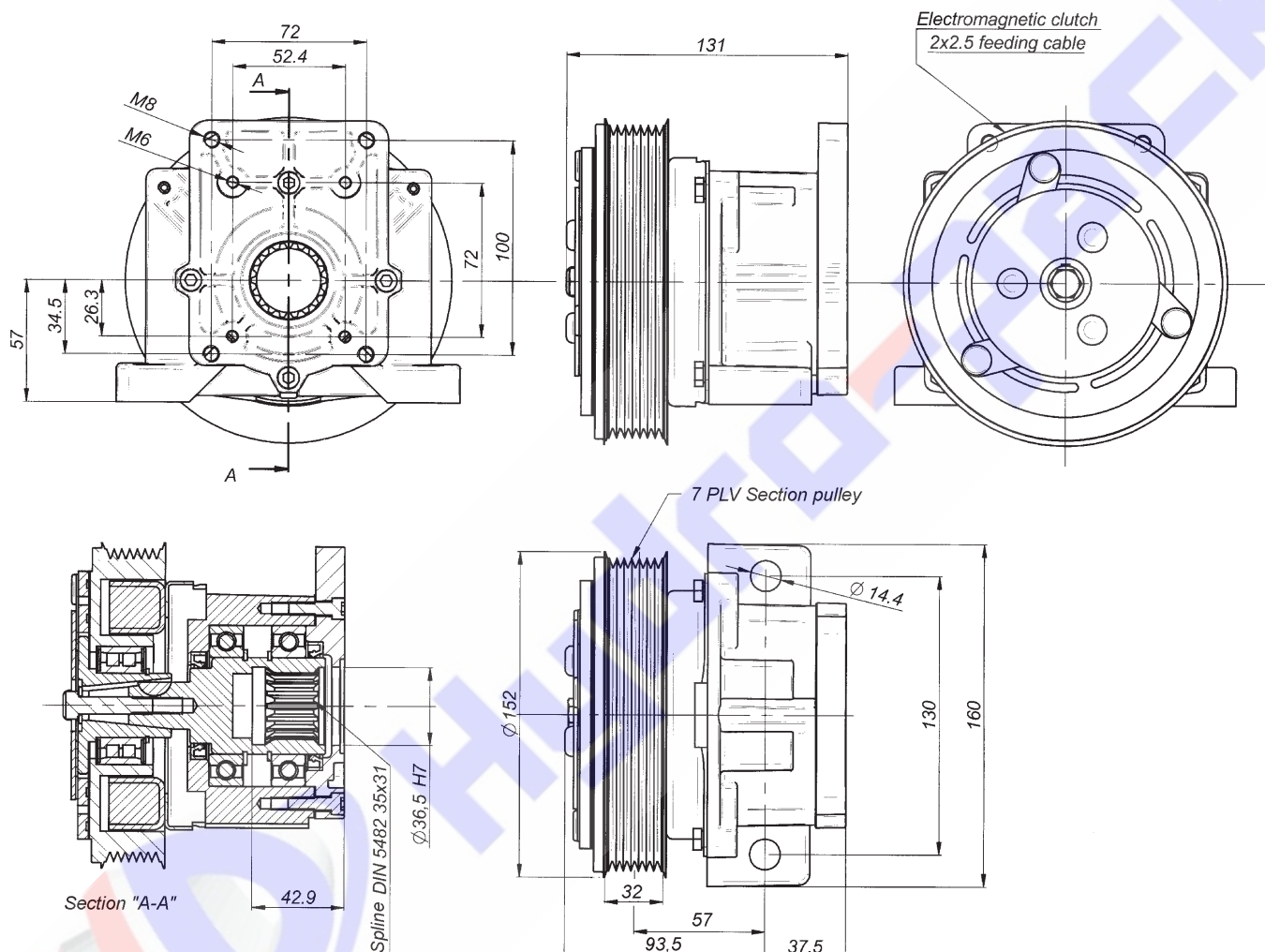
Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

7 PLV Section Pulley

INSTALLATION DRAWING

30929-1/7: 12 Volt

30930-1/7: 24 Volt



Nominal torque	11,8 daNm		Connection time	25 ms		
Static torque	14,0 daNm		Disconnection time	40 ms		
Dynamic torque	12,5 daNm	at 500 n/min.	Minimum time between two connections	20 sec		
	11,0 daNm	at 1000 n/min.				
	8,2 daNm	at 1500 n/min.				
	7,5 daNm	at 2000 n/min.				
	6,7 daNm	at 2500 n/min.	Max speed	5000 n/min.		
	6,5 daNm	at 3000 n/min.	Weight	5,5 Kg		
Electric absorption	Resistance (Ω)		Current (A)		Power (W)	
	20° C	120° C	20° C	120° C	20° C	120° C
12 V DC	4,00	5,60	3,33	2,00	40,00	24,00
24 V DC	20,00	28,00	1,26	0,77	30,30	18,18
All technical data are at 20°C / at 120 °C the performance is 20% reduced. All electromagnetic clutches are reversible.						

Electromagnetic Clutches - Torque 21 daNm

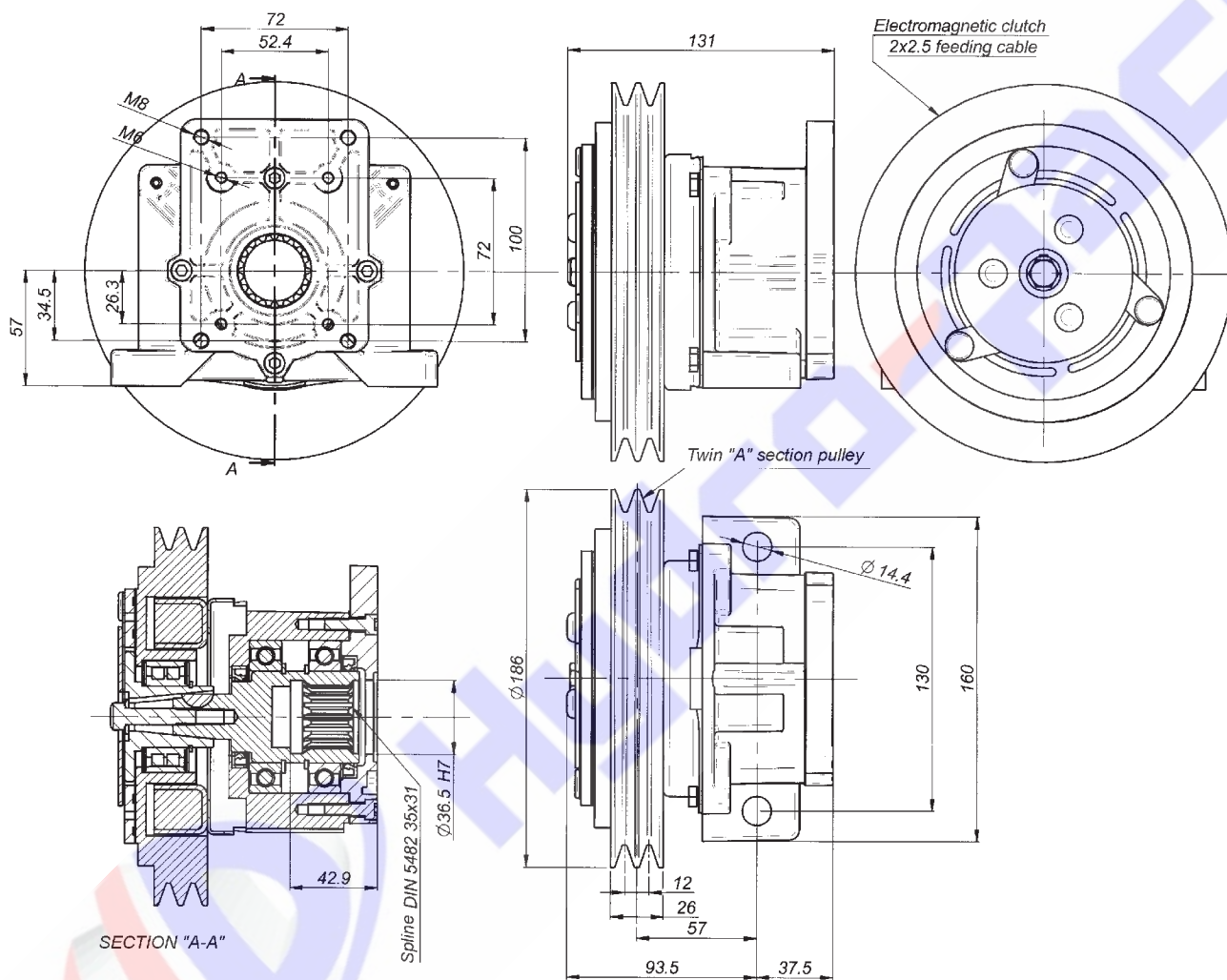
Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

Twin "A" Section Pulley diam. 186

INSTALLATION DRAWING

30990: 12 Volt

30991: 24 Volt



Nominal torque	16,0 daNm		Connection time	25 ms		
Static torque	21,0 daNm		Disconnection time	40 ms		
Dynamic torque	14,5 daNm	at 500 n/min.	Minimum time between two connections	20 sec		
	12,0 daNm	at 1000 n/min.				
	9,5 daNm	at 1500 n/min.				
	8,8 daNm	at 2000 n/min.				
	8,0 daNm	at 2500 n/min.	Max speed	5000 n/min.		
	7,8 daNm	at 3000 n/min.	Weight	8 Kg		
Electric absorption	Resistance (Ω)		Current (A)		Power (W)	
	20° C	120° C	20° C	120° C	20° C	120° C
12 V DC	2,96	3,97	4,05	2,71	48,70	32,50
24 V DC	12,30	16,60	1,95	1,31	47,00	30,70
All technical data are at 20°C / at 120 °C the performance is 20% reduced.						
All electromagnetic clutches are reversible.						

Electromagnetic Clutches - Torque 21 daNm

Pump Group: Gr. 1-2-3 - Gr. 2 Bosch - Gr. 3 Bosch - SAE A - SAE B

Twin "A" Section Pulley diam. 186

ORDER CODE

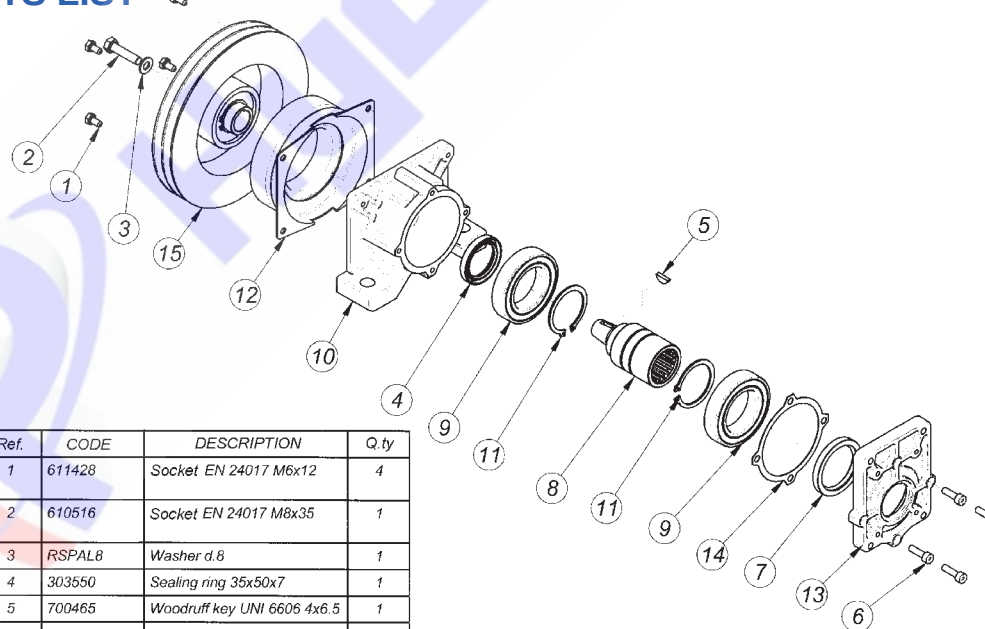
CODE

30992			-	30803			-	
Electromagnetic Clutch			Flanges					
Torque 21 daNm - Twin "A" Pulley diam. 186			(see page 29)					
Pump Flange	Voltage	Code						
Gr. 1 - 2	12 V DC	30990						
Gr. 1 - 2	24 V DC	30991						
Gr. 2 Bosch	12 V DC	30990/2B						
Gr. 2 Bosch	24 V DC	30991/2B						
Gr. 3	12 V DC	30992						
Gr. 3	24 V DC	30993						
Gr. 3 Bosch	12 V DC	30992/3B						
Gr. 3 Bosch	24 V DC	30993/3B						
SAE A	12 V DC	30990/SA						
SAE A	24 V DC	30991/SA						
SAE B	12 V DC	30990/SB						
SAE B	24 V DC	30991/SB						

-	-	Gr. 1 - 2
30817 - Gr. 2 Bosch		
30803 - Gr. 3		
30821 - Gr. 3 Bosch		
30420.3 - SAE A		
30420.1 - SAE B		

Special versions

SPARE PARTS LIST



Ref.	CODE	DESCRIPTION	Q.ty
1	611428	Socket EN 24017 M6x12	4
2	610516	Socket EN 24017 M8x35	1
3	RSPAL8	Washer d.8	1
4	303550	Sealing ring 35x50x7	1
5	700465	Woodruff key UNI 6606 4x6.5	1
6	610620	Socket capscrow M6x20	4
7	304560	Sealing ring 45x60x7	1
8	A30901	Shaft	1
9	506009/2Z	Bearing SKF 6009 2RS	2
10	30009.1	Housing	1
11	904500	Snap ring d.45	2
12	401221/186B 402421/186B	Coil	1
13	30900.1	Flange for pumps Gr 1 - 2	1
14	30009.1.1	Gasket	1
15	4021/186BP	Electric clutch PLV	1

Electromagnetic Clutches - Torque 30 daNm

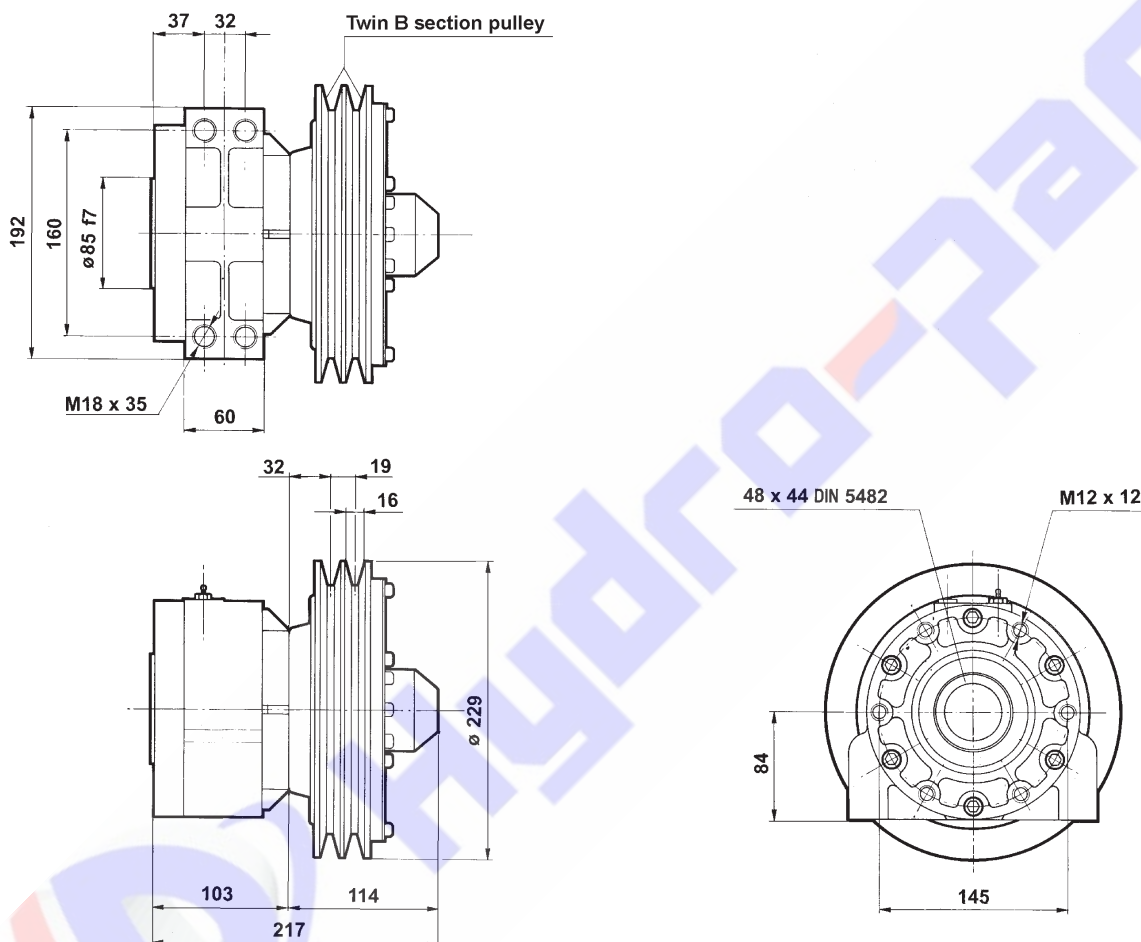
Pump Group: Gr. 2-3-4 - Gr. 3 Bosch - SAE A - SAE B - LG 20-35-50-75

Twin "B" Section Pulley diam. 229

INSTALLATION DRAWING

30940/SF: 12 Volt

30941/SF: 24 Volt



Nominal torque	38,0 daNm		Connection time		25 ms		
Static torque	50,0 daNm		Disconnection time		40 ms		
Dynamic torque	33,0 daNm	at 500 n/min.	Minimum time between two connections		20 sec		
	31,5 daNm	at 1000 n/min.					
	28,7 daNm	at 1500 n/min.					
	28,0 daNm	at 2000 n/min.					
	27,2 daNm	at 2500 n/min.	Max speed		5000 n/min.		
	27,0 daNm	at 3000 n/min.	Weight		20 Kg		
Electric absorption		Resistance (Ω)		Current (A)		Power (W)	
	20° C	120° C	20° C	120° C	20° C	120° C	
12 V DC	1,81	2,60	6,60	4,62	80,00	56,00	
24 V DC	7,40	10,50	3,25	2,30	78,00	54,60	
All technical data are at 20°C / at 120 °C the performance is 20% reduced. All electromagnetic clutches are reversible.							

Twin "B" Section Pulley diam. 229

ORDER CODE

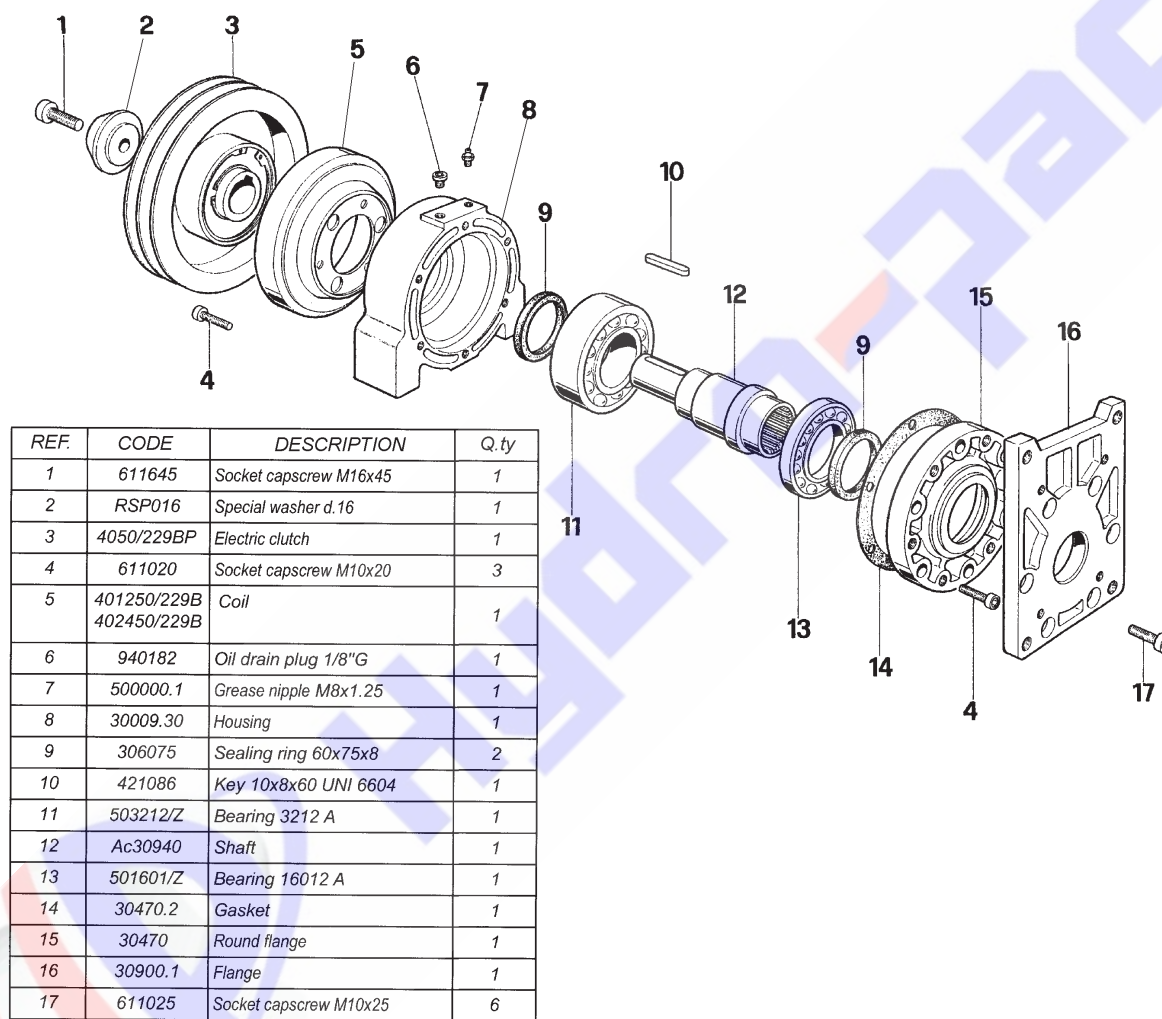
	30940	-	30400	-	
Electromagnetic Clutch Torque 30 daNm - Twin "B" Pulley diam. 229			Flanges (see page 30)		
Pump Flange	Voltage	Code			
Without flange	12 V DC	30940/SF	-		
Without flange	24 V DC	30941/SF			
Gr. 2	12 V DC	30940	30400 - Gr. 2		
Gr. 2	24 V DC	30941	30401 - Gr. 3		
Gr. 3	12 V DC	30942	30402 - Gr. 3,5		
Gr. 3	24 V DC	30943	30403 - Gr. 4		
Gr. 3,5	12 V DC	30944	30417 - Gr. 3 Bosch		
Gr. 3,5	24 V DC	30945	30420 - SAE A		
Gr. 4	12 V DC	30946	30422 - SAE B		
Gr. 4	24 V DC	30947	30432 - SAE C		
Gr. 3 Bosch	12 V DC	30948	30461 - LG 20-35		
Gr. 3 Bosch	24 V DC	30949	30462 - LG 50		
SAE A	12 V DC	30950	30463 - LG 75		
SAE A	24 V DC	30951			
SAE B	12 V DC	30952			
SAE B	24 V DC	30953			
SAE C	12 V DC	30954			
SAE C	24 V DC	30955			
LG 20-35	12 V DC	30958			
LG 20-35	24 V DC	30959			
LG 50	12 V DC	30960			
LG 50	24 V DC	30961			
LG 75	12 V DC	30962			
LG 75	24 V DC	30963			

Electromagnetic Clutches - Torque 30 daNm

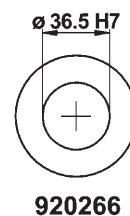
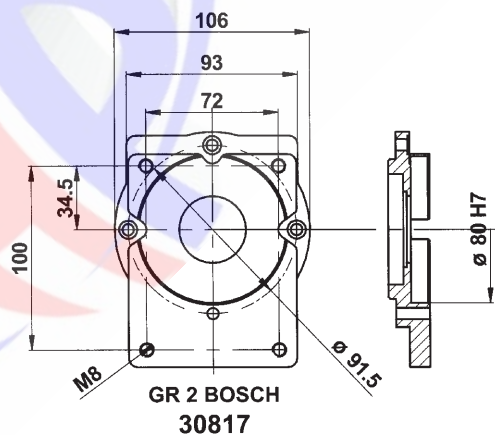
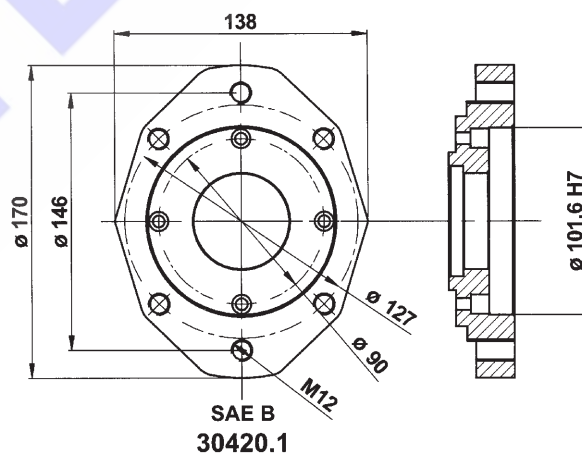
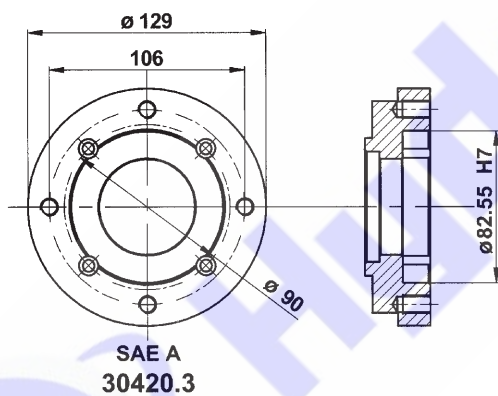
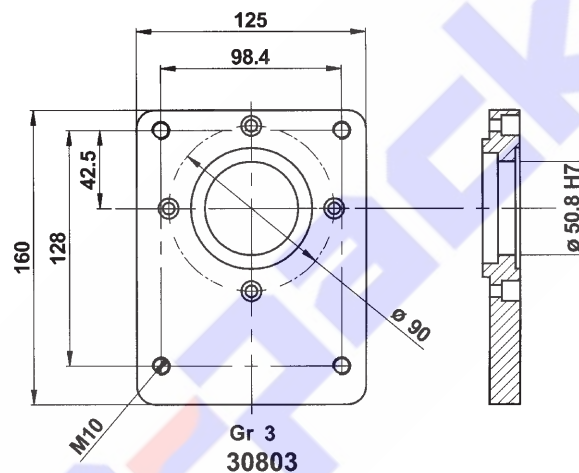
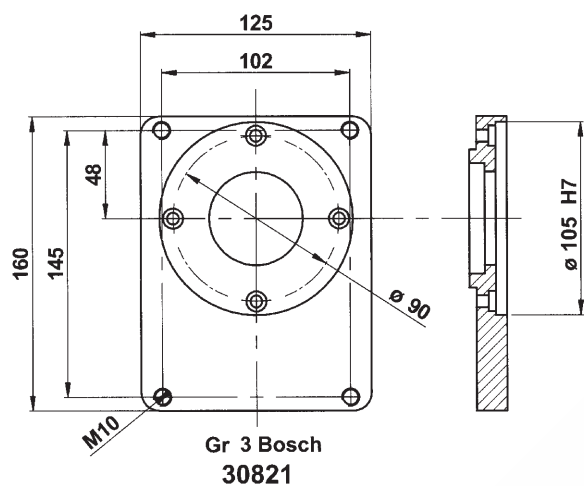
Pump Group: Gr. 2-3-4 - Gr. 3 Bosch - SAE A - SAE B - LG 20-35-50-75

Twin "B" Section Pulley diam. 229

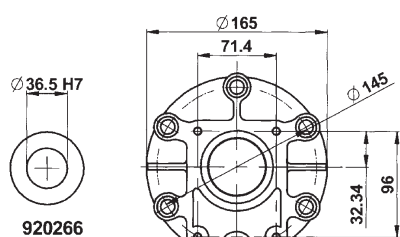
SPARE PARTS LIST



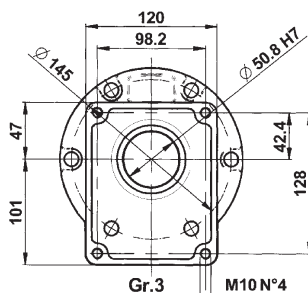
Flanges for Electromagnetic Clutches 10, 14, 21 daNm



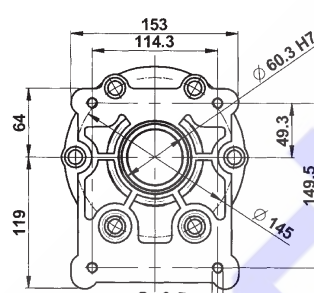
Flanges for Electromagnetic Clutches 30 daNm



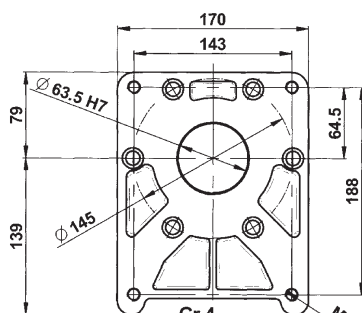
Gr.2
30400



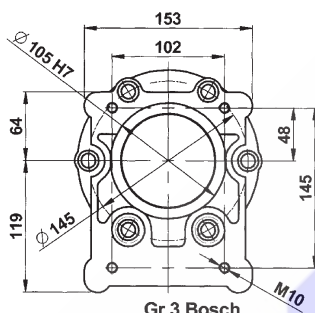
Gr.3
30401



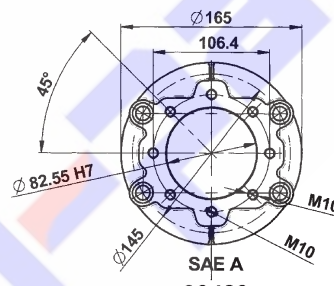
Gr.3.5
30402



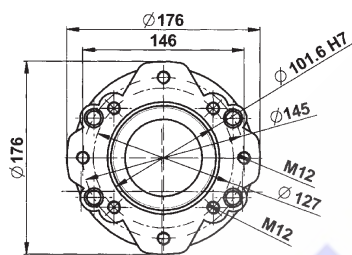
Gr.4
30403



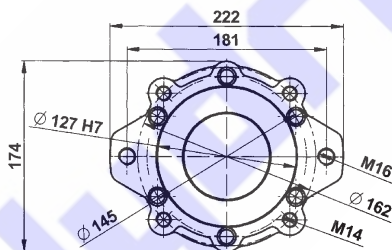
Gr.3 Bosch
30417



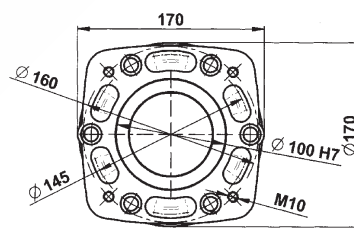
SAE A
30420



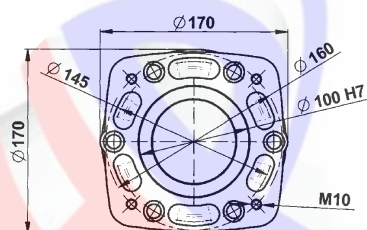
SAE B
30422



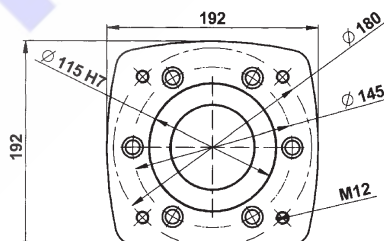
SAE C
30432



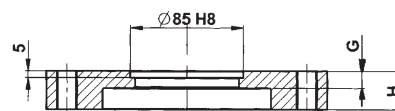
L.G. 20-35
30461



L.G. 50
30462



L.G.75
30463



Section for all flanges

Flange	Type	Gr.2	Gr.3	Gr.3.5	Gr.4	Gr.3 BOSCH	SAE A	SAE B	SAE C	LG. 20-35	LG. 50	LG.75
	Code	30400	30401	30402	30403	30417	30420	30422	30432	30461	30462	30463
Dimensions	H	21	23	24	23	19	25	25	28	34	41	41
	G	17	21	11.5	16	12	21	12	16	25	32.5	33