

# E330 VAR 04 / VAR 14

## Electro-Magnetic Toothed Clutch

### Characteristics

- Electrically operated 103,5/48 or 207/103,5 VDC depending size
- Toothed clutch
- Activated by spring pressure

### Utilisation

- Coupling of a pulley or a hub
- Engagement has to be made at standstill or at very low speed, in case of doubt consult the factory
- Destined to remain coupled over long periods

### Particularities

- This device works with two voltages: one for disengagement, one for position maintain
- Positive coupling for drive without slipping
- Standard available for random or synchronised operation (one or more position(s)/rev). Multiposition/rev as option (VAR n4, "n" indicates number of positions)
- Option : detection disc allows the coupling position to be validated, see E330 VAR504
- Fixed inductor mounted on ball bearings
- Sealed bearings

### Adjustments

- Verify position of tooth "Q" prior to installation
- No wear adjustment required

### Maintenance Manual

- SM 310

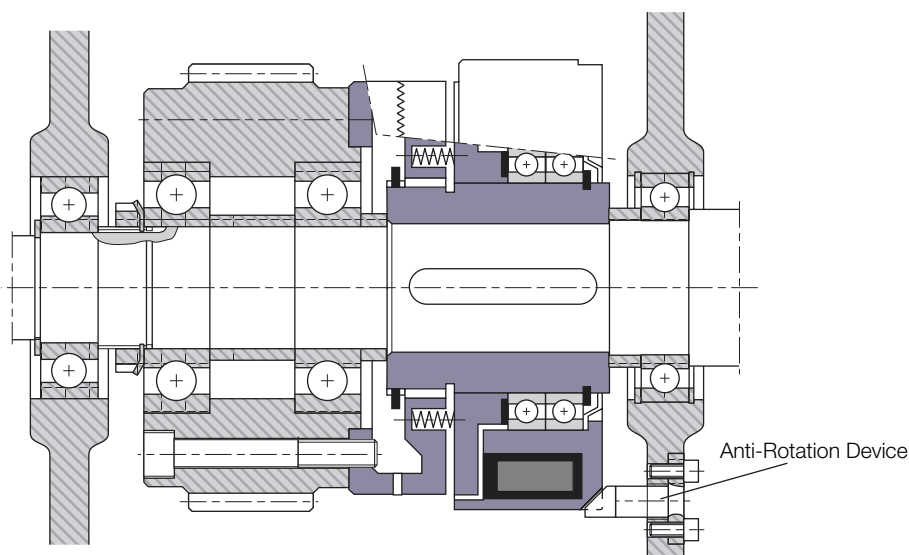
### Mounting Precautions

- The anti-rotation device of the electromagnet shall be inserted in anti rotation slot, with a side play of 0,5 mm and a 1 mm play to the bottom. This avoids a normal stress on the ball-bearings.
- It is forbidden to use in case of vibrations
- Device intended for horizontal use; for vertical use, please consult the factory
- The customers mounting method must take into account the axial thrust

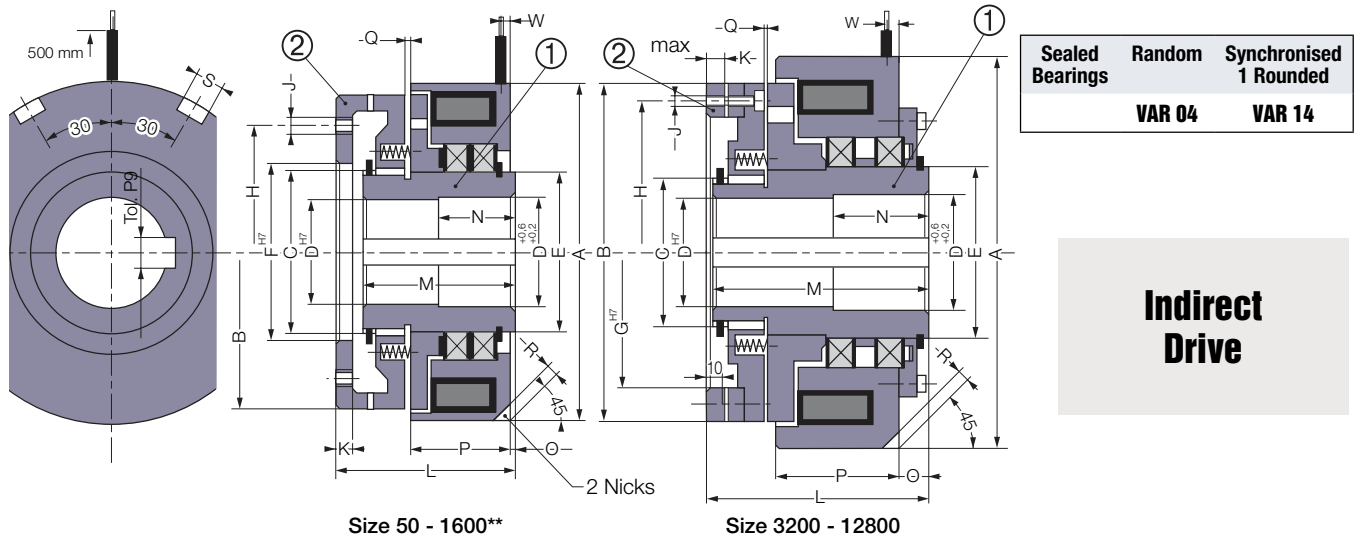
### Power Supply CBC 140-5

- Overexcitation delay: 0,5 s (size 50) to 2 s (size 12800)

### Mounting Example



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Sizes		50	100	200	400	800	1600	3200	6400	12800	
Nom. Torque	[Nm]	50	100	200	400	800	1600	3200	6400	12800	
Max. Speed	[min. <sup>-1</sup> ]	4300	3600	3300	2600	2000	1800	1450	1200	1000	
U pull in / holding	[VCD]	103,5/48	103,5/48	103,5/48	103,5/48	103,5/48	103,5/48	207/103,5	207/103,5	207/103,5	
Power pull in	P20 [W]	108	170	182	311	330	373	640	920	1224	
Holding	P20 [W]	20,5	32,4	34,6	59	63	71	160	230	306	
	A	100	115	125	153	202	245	290	350	425	
	B	90	105	115	140	185	225	265	320	385	
	C	45	55	60	75	100	105	125	145	175	
	D* min	19	24	28	28	38	48	65	80	100	
	D* max	30	38	42	55	75	80	95	110	130	
	E	45	55	60	75	105	110	130	150	180	
	F min	40	45	50	65	105	110	-	-	-	
	F max	58	70	80	100	130	155	-	-	-	
	G	-	-	-	-	-	-	215	260	315	
	H**	68	82	92	110	148	175	240	290	355	
	J**	4xM6	4xM6	6xM6	6xM8	6xM10	6xM12	12xM12	12xM14	12xM16	
	K	5	6	6	7	8	12	15	18	24	
	L	58	63	65	80	100	145	165	200	245	
	M	51	55	57	71	90	130	160	198	240	
	N	20	21	23	25	30	48	55	65	78	
	O	1,7	1,7	0,5	0,7	0,5	15	15	22	23	
	P	32	37	38	45,5	60,5	75	90	107	133,5	
	Q	1	1,1	1,2	1,3	1,3	2	2,3	2,7	3,2	
	R	4	4	4	5	6	7	8	10	12	
	S	10	10	10	10	10	12	16	18	20	
	W	7	7	7	7	10	12	15	19	22	
Axial load on drive cup 2	[daN]	30	45	65	115	180	330	900	1500	2200	
Inertia	① [kgm <sup>2</sup> ]	0,00100	0,00160	0,0027	0,0087	0,0330	0,0845	0,2150	0,554	1,370	
Inertia	② [kgm <sup>2</sup> ]	0,00034	0,00073	0,0010	0,0025	0,0095	0,022	0,0418	0,104	0,290	
Weight	[kg]	2,4	3,4	4,2	8	18	33,5	55,5	98	178	
Connection		Leads					Cable				

Keyways according to ISO R773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9

\* Mandatory delivered with finished bores

\*\* Drive cup sizes 50 to 1600 supplied non drilled. Fixing holes are shown for information only

### Connector Options

(Delivered without cable)

2 poles, capacity :  
0,5/2,5mm<sup>2</sup>

