

## Electro-Magnetic Toothed Clutch

### Characteristics

- Electrically operated 24 or 103,5 VDC depending size
- Toothed clutch
- Activated by power on

### 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
- For wet operation use models VAR n0 For dry operation use models VAR n4 (sealed bearings)

### Particularities

- Positive coupling for drive without slipping
- Standard available for random or synchronised operation (one or more position(s)/rev). Multiposition/rev as option (VAR n0 or VAR n4, “n” indicates number of positions)
- Option : detection disc allows the coupling position to be validated, see E320 VAR504
- Fixed inductor mounted on ball bearings
- Non sealed bearings for use oil environment
- Sealed bearings for dry operation

### Adjustments

- Verify position of tooth “J” prior to installation
- No wear adjustment required

### Maintenance Manual

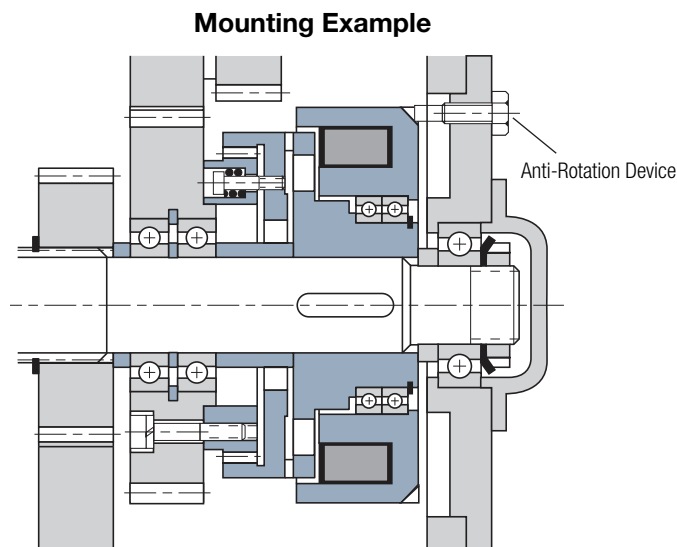
- SM 309

### 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

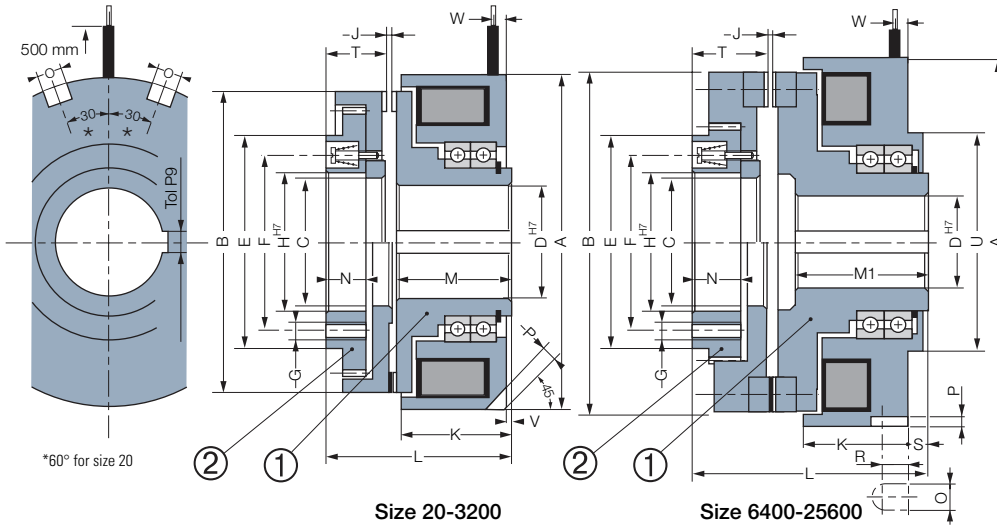
### Power Supply

- For sizes until 3200  
CBC 400–24 , CBC 450–24,  
CBC 140–5 + CBC 140–T
- For sizes 6400 to 25600  
CBC 140–5



# E320 VAR 00 / VAR 10 | E320 VAR 04 / VAR 14

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Bearings	Random	Synchronised 1 Rounded
Open	<b>VAR 00</b>	<b>VAR 10</b>
Sealed	<b>VAR 04</b>	<b>VAR 14</b>

**Indirect  
Drives**

Sizes		20	50	100	200	400	800	1600	3200	6400	12800	25600	
<b>Nom. Torque</b>	[Nm]	20	50	100	200	400	800	1,600	3200	6400	12800	25600	
<b>Max. Speed</b>	VAR 00 / 10 [min <sup>-1</sup> ]	-	5000	4300	3600	3300	2,700	2,100	1800	1500	1500	1200	
	VAR 04 / 14 [min <sup>-1</sup> ]	5000	3900	3500	2800	2600	2100	1500	1400	1000	-	-	
<b>Voltage</b>	[VDC]	24	24	24	24	24	24	24	24	24	103,5	103,5	
<b>Power</b>	P20 [W]	15	21	26	29	48	54	64	74,5	101	140	248	
	A	72	82	100	115	125	153	202	235	340	410	490	
	B	66	75	90	105	115	140	185	215	320	385	460	
	C	28	40	49,5	58	63	76	99	117	153	180	220	
	D* min	10	20	20	25	30	30	50	50	80	90	110	
	D* max	22	30	32	42	46	55	80	85	110	125	150	
	E	-	65,5	75,5	85,5	100,5	115,5	155,5	180,5	215,5	275,5	340,5	
	F	45	55	64	75	85	100	135	155	190	250	300	
	G	3xM4	4xM5	4xM5	4xM6	6xM6	6xM8	6xM10	6xM10	12xM12	12xM16	16xM46	
	H	32	45	53	65	70	85	115	130	153	190	235	
	J	0,3	0,4	0,5	0,5	0,5	0,6	0,7	0,8	1	1	1	
	K	33	28,5	32	37	38	45,5	60,5	72	79	91	106	
	L	47	44	50	57,5	60	74	97	120	174	211	295	
	M	34	29	32,3	37,3	38,3	46	61	72,3	-	-	-	
	M1	-	-	-	-	-	-	-	-	100	125	205	
	N	5,4	8	10	12	12,5	17	21	28	35	41	55	
	O	6	6	10	10	10	10	10	12	18	18	18	
	P	3,5	3	4	4	4	5	6	8	8	10	12	
	R	-	-	-	-	-	-	-	-	12	15	18	
	S	-	-	-	-	-	-	-	-	11	18	68,5	
	T	12,8	14	16,5	19	20	26	34	45	58,5	70	87,5	
	U	-	-	-	-	-	-	-	-	187	235	300	
	V	2	-	-	-	-	-	-	-	-	-	-	
	W	7	7	7	7	7	10	12	15	19	22	25	
<b>Inertia</b>	① [kgm <sup>2</sup> ]	0,00008	0,0001	0,0003	0,0008	0,0011	0,0032	0,015	0,0339	0,319	0,775	2,000	
<b>Inertia</b>	② [kgm <sup>2</sup> ]	0,00015	0,0002	0,0006	0,001	0,002	0,007	0,030	0,0629	0,406	1,08	2,660	
<b>Weight</b>	[kg]	1	1,2	2	3	4	7	14	29,5	82	145	254	
<b>Connection</b>		<b>Leads</b>						<b>Cable</b>					

Keyways according to  
ISO R773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9  
\* Mandatory delivered with finished bores

**Connector Options**  
(Delivered without cable)  
2 poles, capacity :  
0,5/2,5mm<sup>2</sup>

