



SALIENT FEATURES:-

- Easy Air Gap Adjustment
- Absolutely Noise Free
- Insulation Class "F" (155° C)
- Long Life
- Easy to fit arrangement
- Unique Armature for zero backlash
- Special Sealed Bearings
- Broad Surface Area for better heat dissipation
- High Operating Frequency
- Non Asbestos Friction Liner

DESCRIPTION:-

Clutch Brake combinations are used where intermittent operations are required. These combinations consist of UFB (Normally off Brake) & UFC (Normally off Clutch). These types of units operate on DC Voltages. No slip rings, hence virtually maintenance free throughout there life. It is possible to set air gap without dismantling the unit. UCB-E type of combination is totally incased unit with split shafts.

TYPICAL APPLICATIONS:-

- Packaging Machineries
- Filling Machineries
- Indexing Machineries
- Printing Machines
- Bottling Plant Machinery
- Rubber Machinery
- Automatic Carton Folding Machines
- Cut to length Machinery
- Material handling equipment
- Auto labelling machines

WORKING:-

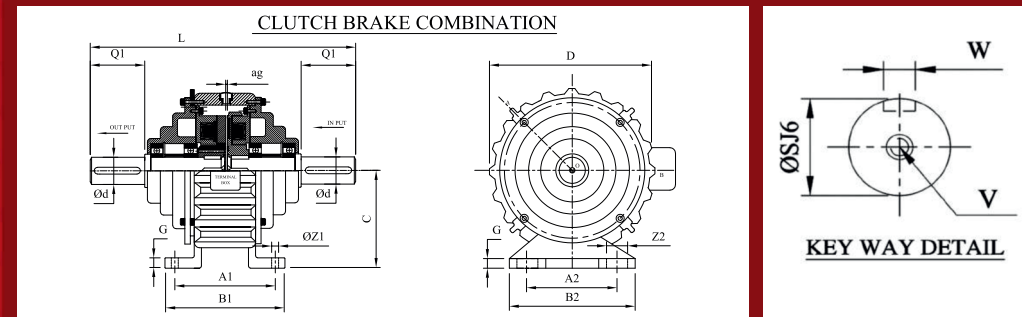
In normal condition drive is isolated from driven load and rotates freely. Once power is supplied to the clutch coil, armature shifts from brake stator over the air gap towards the clutch coil and clamps with the clutch rotor and thus acts as single unit and torque gets transmitted from drive to driven load free from backlash. Similarly, when power is withdrawn from the clutch coil and supplied to brake coil, powerful filed forces the armature plate to slide back towards the brake stator, and hence braking takes place. In case of armature with prestressed springs, switching off power supply to clutch/brake coils, prestressed springs pull back the armatures. In both the conditions predetermined air gap plays an important role.

NOTE:- UCB-E Design of combinations can be supplied with AC/DC Motors and suitable for helical or worm gear boxes. Unitorq Clutch Brake controllers or separate fast excitation units can also be supplied.

SALES & SERVICE NETWORK

- | | | | |
|--------------|-------------|-------------|-----------|
| • Delhi | • Ahmedabad | • Kolkata | • Mumbai |
| • Latur | • Vadodara | • Bangalore | • Chennai |
| • Coimbatore | • Hyderabad | • Ludhiana | • Bhilai |
| • Jaipur | • Goa | • Indore | |

CLUTCH & BRAKE COMBINATION TYPE & DESIGNS - UCB-E 800

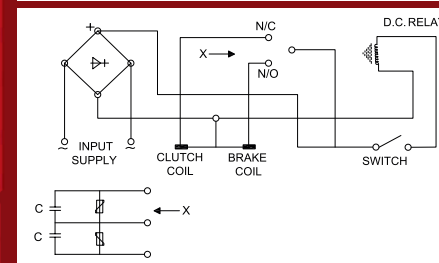
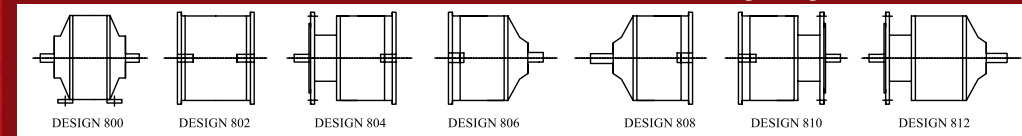


UCB-E 800 DIMENSIONAL SERIES

Size/ Torque Nm	Voltage DC	Clutch	Brake	Max RPM	A1	A2	B1	B2	C	D	G	L	Q1	SJ6	V	W	Z1	Z2	ag
8	24/96/ 105/ 190/ 205 •Other Voltages on request	15	11.5	8000	80	90	100	110	63	104	6	178	23	11	M4x10	4	6.5	13.5	0.3
15		25	18	6000	95	105	112	127	71	132	8	213	30	14	M5x12	5	7.0	13.5	0.3
30		28	21	5000	100	140	130	170	90	167	8	269	50	24	M6x20	8	10	15	0.4
60		35	28	4000	130	150	157	181	100	187	8	314	60	28	M8x25	8	12	20	0.6
125		50	38	3000	160	175	188	218	132	227	15	381	80	38	M10x25	10	14	24	0.8
250		68	45	3000	165	230	200	280	160	280	16	405	80	42	M10x30	12	20	25	1.0
500		85	70	2000	185	270	225	325	200	350	20	428	80	48	M10x30	14	20	25	1.2
625		140	70	1500	227	300	275	385	250	410	20	560	120	60	M10x30	18	25	40	1.5
1240		100	100	1500	250	400	305	455	280	514	20	632	130	60	*	18	30	50	1.8
2500		120	120	1500	400	460	490	550	355	620	20	860	140	75	*	20	40	60	2.0

Note:- All dimensions are in mm only.

Clutch Brake Combinations are Available in Following Designs



SWITCHING:-

Unitorq clutch and brake combination must only be operated on DC voltage. The rated voltage is shown on the name plate of the unit. These units should be switched on the DC side to or shorter switching on and off times. The switching can be done with any standard 6 Amps contactor/ solid state relay. To restrict the high inductive voltage/back EMF a suitable suppressor and capacitor network has to be provided across the contactor coil.

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