



■ FAIL SAFE BRAKE (WITH MANUAL RELEASE)

■ FAIL SAFE BRAKE (WITHOUT MANUAL RELEASE)

Typical Application:

- Brake motors
- Tyre Machinery
- Industrial Robotics
- IR Telescope for Satellite Tracking
- Hoist & Cranes
- Printing Machinery
- Marble / Granite Machinery
- Wood working Machinery etc.
- Textile Machinery
- Steel Plant Machinery
- Lifts

Working:

Unitorq USB & UMB series brakes are absolutely fail safe in nature, and finds wide range of applications where emergency stop is required. When power fails or brake remains in engaged condition for longer periods of time, these brakes are ideal for the applications. Unitorq D.C. fail safe brake functions on an electromagnetic principle.

PRINCIPLE OF OPERATION :

When electric current is given to the stator (brake coil) the armature plate is attracted to the stator against the spring force, thus releasing the rotor. When current is cut Off, strong compression springs push the armature plate back to its original position, which clamps the rotor (friction plate) providing the braking torque. Unitorq D.C. fail brake type UMB is provided with unique manual release provision.

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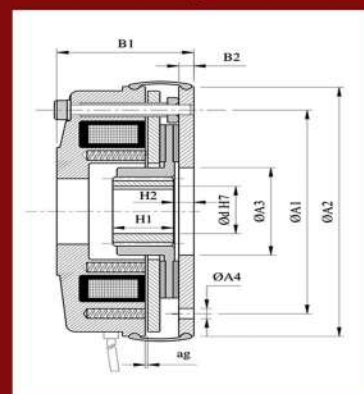
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OFFICES

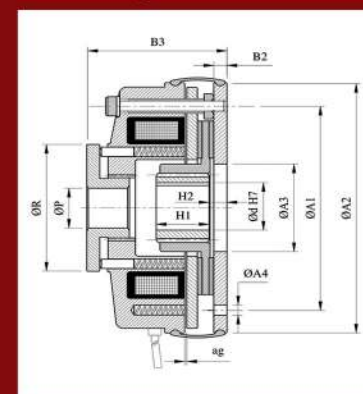
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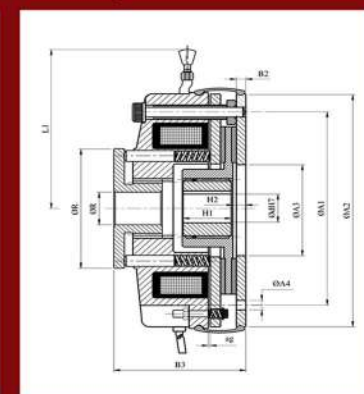
BRAKE TYPE USB Design : 501



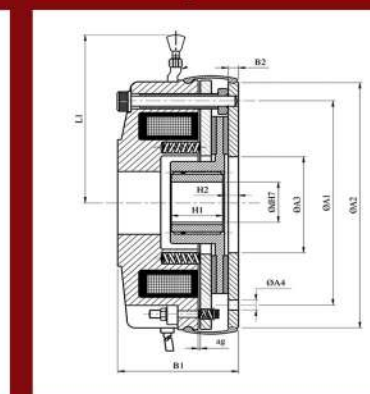
BRAKE TYPE USB Design : 502



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DIMENSIONAL DETAILS USB & UMB SERIES

Size/ Torque Nm	Voltage DC	Wattage At 20° C	Max rpm	A1	A2	A3	A4	B1	B2	B3	H1	H2	L1	P	R	dH7		ag	Weight (kg)
																Std	Max		
2	24/96/ 105/ 190/ 205 * Other Voltages on request	18	3000	54	65	20	3x4.5	42	3.0	46	15	8	120	14	38	8	9	0.2	0.9
5		20	3000	72	86	20	3x4.5	45	6.0	52	18	9	126	15	48	10	11	0.3	1.35
10		25	3000	90	104	30	3x5.5	49	7.0	57	20	10	135	25	52	14	15	0.3	2.05
20		30	3000	112	128	40	3x6.6	56	9.0	63	20	12	148	30	68	19	24	0.35	3.70
35		40	3000	132	148	45	3x6.6	66	9.0	74	25	12	158	35	80	24	28	0.35	5.60
65		50	3000	145	164	55	3x9.0	78	11.0	88	30	15	170	42	92	28	30	0.35	8.25
85		55	3000	170	188	65	3x9.0	84	11.0	94	30	15	192	56	102	34	35	0.4	11.65
155		65	3000	196	212	75	6x9.0	92	11.0	104	35	15	210	56	115	42	48	0.5	17.45
250		75	3000	230	250	90	6x11.0	104	11.0	115	40	16	292	70	135	48	55	0.7	26.65
400		120	3000	278	300	120	6x11.0	124	12.0	139	50	20	320	85	165	55	70	0.9	42.15
800	150	1500	300	340	130	6x15.0	150	18.0	165	60	25	400	90	175	62	80	1.5	65.5	
1600	350	1500	360	400	140	6x15.0	155	20.0	175	70	25	420	100	180	70	90	2.0	78.9	

Sizes 800/1600 available only in design 501

1Nm=0.102 kgm = 0.737 lb-ft=10.2 kgcm

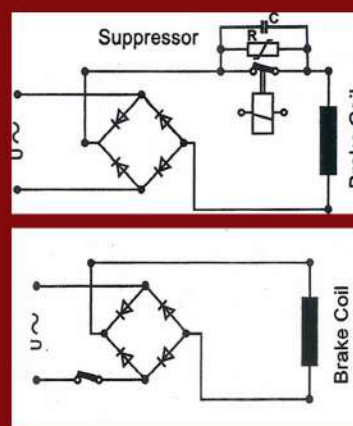
Specifications are subject to change without

prior notice

Cable Length 400 mm approx for sizes 2-65

500 mm approx for sizes 85-1600

All dimensions are in mm only



SWITCHING

D. C. Switching : Turn off times are much shorter than A. C. switching but for larger brake with higher power coils one of our suppressor & capacitor across the switch is recommended.

A. C. Switching : A. C. Switching has a considerable effect on the 'turn off time' of brake coils. It is not recommended where fast reaction times are Required.

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