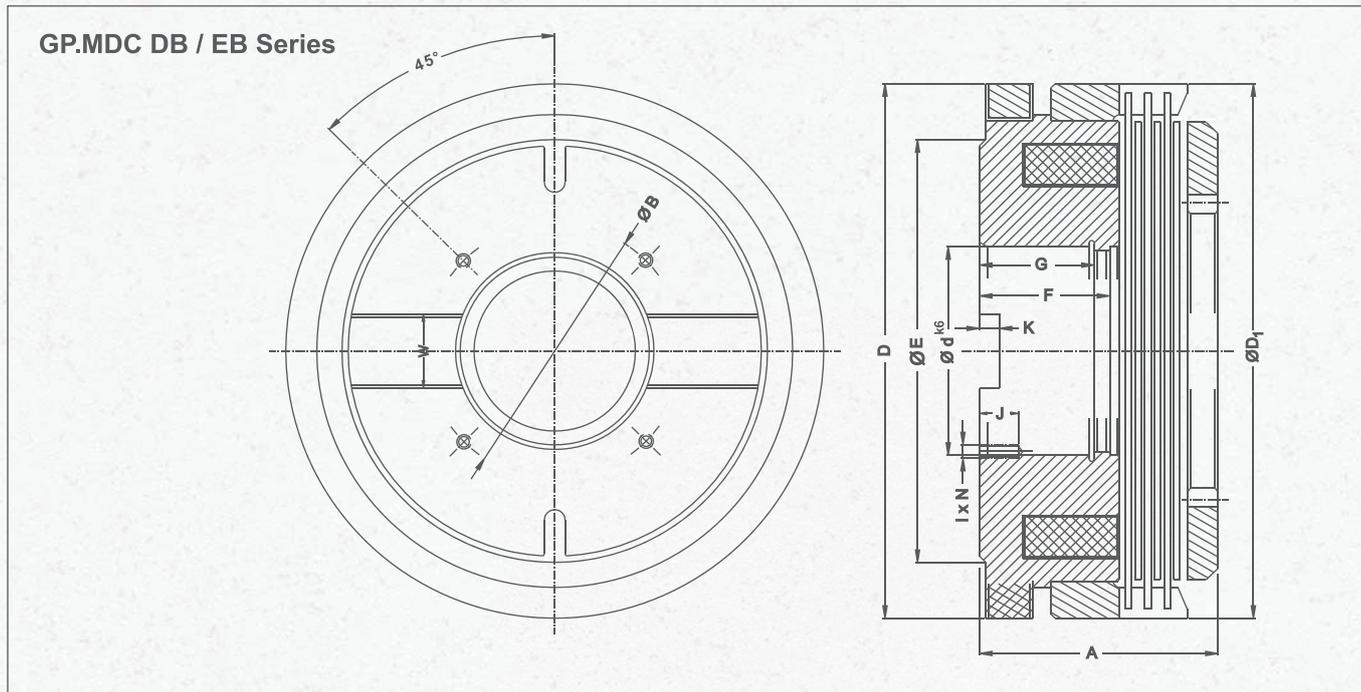


Dimension Data



GOLDEN
CLUTCHES | BRAKES | PLATES

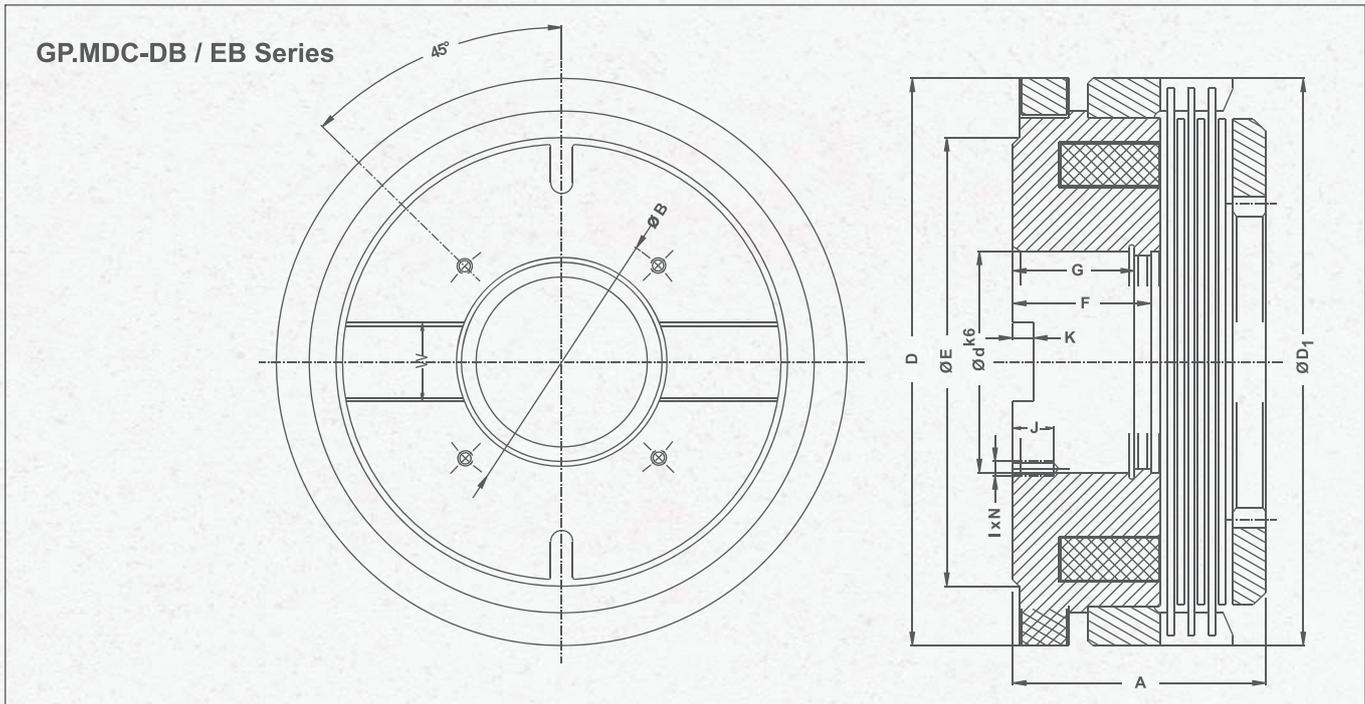
Multi-Disc Electromagnetic Brakes GP.MDC DB / EB Series



Model		GP 1B	GP 2DB	GP 5DB	GP 10EB	GP 20DB	GP 20EB	GP 40DB	GP 40EB
Comparable to ZF Type:		EK 1B	EK 2DB	EK 5DB	EK 10EB	EK 20DB	EK 20EB	EK 40DB	EK 40EB
Static torque	Nm	20	50	100	200	400	360	800	800
Dynamic torque	Nm	10	20	55	100	200	200	400	450
Speed at 10 m1 sec.	min ⁻¹	2300	2200	1650	1350	1150	1150	950	950
Engagement time	ms	170	220	280	300	450	450	600	600
Disengagement time	ms	50	70	100	110	200	200	250	250
Coil power consumption at 25°C	W	18	17	28	34	51	46	83	68
Mass moment of inertia side A	10 ⁻³ kgm ²	7	11	32	81	174	196	355	390
Mass (weight)	kg	0.70	1.20	1.98	3.7	6.3	6.2	9.7	9.3
A	mm	31	38	49.5	55	58.5	64.5	69	68
D Ø	mm	82	95	114	140	166	166	195	195
D1 Ø	mm	80	93	114	140	166	166	195	195
EØ	mm	67	78	95	120	142	142	170	170
dØ K6	mm	35	42	55	68	75	90	90	110
BØ	mm	50	56	75	90	100	110	110	125
F	mm	19	22	27	29	30	33	34	34
G	mm	17	20	22	22	25	28	28	28
J	mm	5	5	7	8	10	9	12	14
K	mm	2.5	2.5	5	5	6	6	6	6
I X N	mm	m5 x 4	m6 x 4	m8 x 4	m8 x 4	m10 x 4	m10 x 4	m10 x 4	m10 x 4
W H7	mm	12	12	14	16	20	20	20	20
Air Gap	mm	1.0	1.2	1.8	2.0	2.5	3.0	3.5	4.5
H	mm	7.5	7.5	11	11	13	13	13	13

Dimension Data

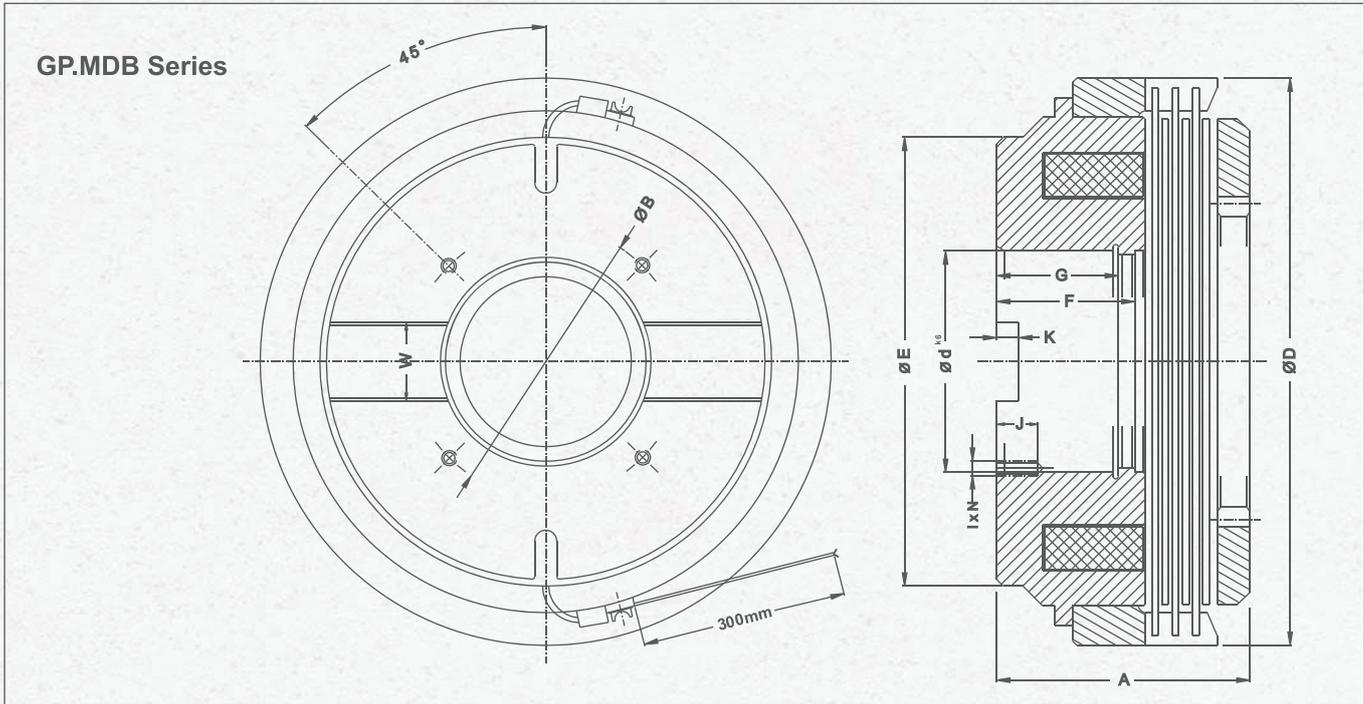
Multi-Disc Electromagnetic Brakes GP.MDC-DB / EB Series



Model		GP 60 DB	GP 80 B	GP 120 EB	GP 160 B	GP 320 B	
Comparable to ZF Type:		EK 60 DB	EK 80 B	EK 120 EB	EK 160 B	EK 320 B	
Static torque	Nm	1100	1800	2400	3600	5800	
Dynamic torque	Nm	600	1000	1300	2000	3200	
Speed at 10 m1 sec.	min ⁻¹	900	750	700	600	550	
Engagement time	ms	750	900	1100	1300	1700	
Disengagement time	W	300	380	400	540	750	
Coil power consumption at 25°C	ms	91	89	140	155	170	
Mass moment of inertia side A	10 ⁻³ kgm ²	585	900	1360	3000	5800	
Mass (weight)	kg	12.9	17.1	21.1	38.4	66.2	
D I M E N S I O N S	A	mm	77.5	80	86	108	118
	D Ø	mm	210	240	258	295	336
	D1 Ø	mm	210	240	258	295	336
	EØ	mm	184	216	234	200	304
	dØ K6	mm	100	110	140	125	140
	BØ	mm	130	145	170	200	275
	F	mm	39	40	41	52	53
	G	mm	31	32	33	42	43
	J	mm	16	18	13	20	20
	K	mm	6	6	8	8	8
	I X N	mm	m12x4	m12x4	m12x4	m16x4	m16x4
	W H7	mm	20	25	25	25	25
	Air Gap	mm	4.0	5.0	4.0	4.5	5.5
H	mm	14.5	14.5	14.5	16.5	16.5	

Dimension Data

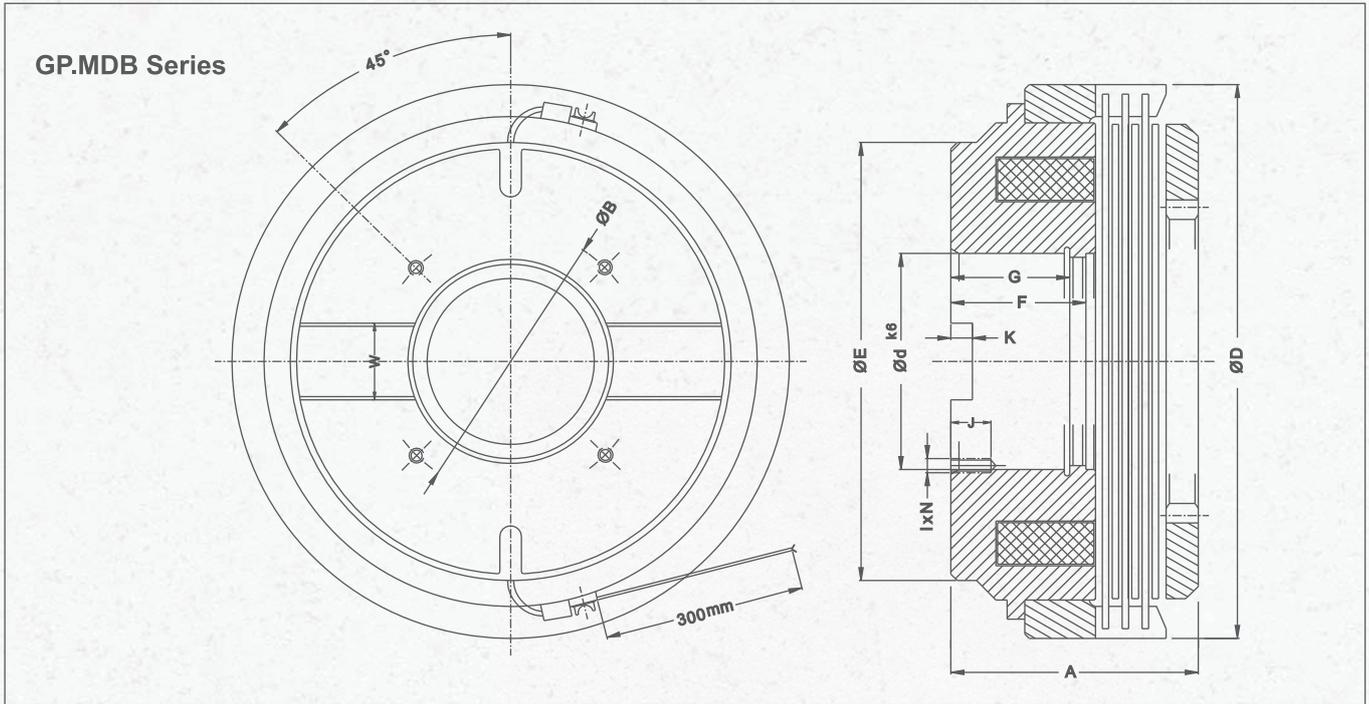
Multi-Disc Electromagnetic Brakes GP.MDB-DB/EB Series



Model		GP 1 B	GP 2DB	GP 5DB	GP 10EB	GP 20DB	GP 20EB	GP 40DB	GP 40EB
Comparable to ZF Type:		EK 1 B	EK 2DB	EK 5DB	EK 10EB	EK 20DB	GP 20EB	EK 40DB	EK 40EB
Static torque	Nm	20	50	100	200	400	360	800	800
Dynamic torque	Nm	10	20	55	100	200	200	400	450
Engagement time	ms	170	220	280	360	450	450	600	600
Disengagement time	W	50	70	100	110	200	200	250	250
Coil power consumption at 25°C	ms	18	17	28	34	51	46	83	68
Mass moment of inertia side A	10 ⁻³ kgm ²	1.0	2.0	5.5	18	53	52	115	118
Mass (weight)	kg	0.75	1.25	2.05	3.8	6.3	6.2	9.7	9.3
A	mm	31	38	49.5	55	58.6	64.5	69	68
D Ø	mm	80	93	114	140	166	166	195	195
E Ø	mm	67	78	95	120	142	142	170	170
d Ø K6	mm	35	42	55	68	75	90	90	110
B Ø	mm	50	56	75	90	100	116	116	125
F	mm	19	22	27	29	30	33	34	34
G	mm	17	20	22	22	25	28	28	28
J	mm	5	5	7	8	10	9	12	14
K	mm	2.5	2.5	5	5	6	6	6	6
I X N	mm	m5 X 4	m6 X 4	m8 X 4	m8 X 4	m10 X 4	m10 X 4	m10 X 4	m10 X 4
W H7	mm	12	12	14	16	20	20	20	20
Air Gap	mm	1.0	1.2	1.8	2,0	2.5	3.0	3.5	4.5

Dimension Data

Multi-Disc Electromagnetic Brakes GP.MDB-DB/EB Series



Model		GP 60 DB	GP 80 B	GP 120 EB	GP 160 B	GP 320 B
Comparable to ZF Type:		EK 60 DB	EK 80 B	EK 120 EB	EK 160 B	EK 320 B
Static torque	Nm	1100	1800	2400	3600	5800
Dynamic torque	Nm	600	1000	1300	2000	3200
Engagement time	ms	700	700	1100	1300	1700
Disengagement time	ms	300	380	400	540	750
Coil power consumption at 25°C	W	91	89	140	155	170
Mass moment of inertia side A	10 ⁻³ kgm ²	175	300	540	1018	1970
Mass (weight)	kg	13.0	17.1	21.2	38.4	66.0
A	mm	77.5	80	86	108	118
D Ø	mm	210	240	258	295	336
E Ø	mm	184	216	234	260	304
dØ k6	mm	100	110	140	125	140
B Ø	mm	130	145	170	200	275
F	mm	39	40	41	52	53
G	mm	31	32	33	42	43
J	mm	16	18	13	20	20
K	mm	6	6	8	8	8
I X N	mm	m12 x 4	m12 x 4	m12 x 4	m160 x 4	m160 x 4
W H7	mm	20	25	25	25	25
Air Gap	mm	4.0	5.0	9.0	4.5	5.5