

Technical data for drive contactors

Type EHDB

Contactor model number		EHDB130	EHDB220	EHDB280	EHDB360	EHDB520	EHDB650	EHDB800	EHDB960
N.O. poles, Amps	600 VDC	150	220	280	360	520	650	800	960
N.C. pole, 600V Make	Max. amps	260	456	565	728	1040	1300	1600	1920
N.C. pole, 300V Break	Max. amps	171	285	363	472	680	850	1050	1250
Connectable wire size									
Main poles with lugs		8 – 30	8 – 30	5 – 250 kcmils	4 – 500 kcmils	(2) 4 – 500 kcmils	(2) 4 – 500 kcmils	(3) 2 – 600 kcmils	(3) 2 – 600 kcmils
Auxiliary contacts	min./max.	16/10	16/10	16/10	16/10	16/10	16/10	16/10	16/10
DC rating information									
N.O. Poles									
Peak interrupting current	A	195	330	420	540	780	975	1200	1440
Maximum thermal current	A	130	220	280	360	520	650	800	960
Main contacts (contactor life)									
Mechanical endurance @ no load mil.		5	5	5	5	5	5	5	5
Electrical endurance	mil.	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Frequency of operations	per hour	300	300	300	300	300	300	300	300
Auxiliary contacts									
NEMA rating		A600	A600	A600	A600	A600	A600	A600	A600
AC rated voltage	V	600	600	600	600	600	600	600	600
AC thermal rated current	A	10	10	10	10	10	10	10	10
AC maximum making	VA	7200	7200	7200	7200	7200	7200	7200	7200
AC maximum breaking	VA	720	720	720	720	720	720	720	720
NEMA rating									
DC rated voltage	V	600	600	600	600	600	600	600	600
DC thermal rated current	A	5	5	5	5	5	5	5	5
DC maximum make-break	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Min. breakdown AC RMS voltage									
between live parts and ground		2200	2200	2200	2200	2200	2200	2200	2200
Min. permissible load, 17V	A	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Expected mechanical life	mil.	10	10	10	10	10	10	10	10
Max. operations per hour		300	300	300	300	300	300	300	300
Coil operating data									
AC power consumption									
Inrush 60 Hz	VA	490	900	900	1200	2900	2900	400	4000
Holding 60 Hz	VA	35	52	52	65	105	105	140	140
Holding 60 Hz	W	11	18	18	22	44	44	60	60
DC power consumption									
Inrush	W	330	500	500	630	800	800	1100	1100
Holding	W	22	3.6	3.6	4	20	20	20	20
AC operating time									
Closing time	ms	20 – 30	20 – 30	20 – 30	20 – 30	30 – 50	30 – 50	30 – 50	30 – 50
Opening time	ms	7 – 15	7 – 15	7 – 15	7 – 15	10 – 20	10 – 20	10 – 20	10 – 20
DC operating time									
Closing time	ms	20 – 30	30 – 40	30 – 40	30 – 40	60 – 80	60 – 80	60 – 80	60 – 80
Opening time	ms	17 – 27	27 – 37	27 – 37	27 – 37	10 – 20	55 – 75	55 – 75	55 – 75
General data									
Approximate weight	lbs	5	9.2	9.2	13	27.3	27.3	37	38
Temperature limits									
Maximum operating temperature	°C	70	70	70	70	70	70	70	70
Minimum operating temperature	°C	-40	-40	-40	-40	-40	-40	-40	-40
Minimum storage temperature	°C	-50	-50	-50	-50	-50	-50	-50	-50
Maximum storage temperature	°C	70	70	70	70	70	70	70	70
Min. Breakdown AC	RMS Voltage	2200	2200	2200	2200	2200	2200	2200	2200
Operating altitude									
Maximum operating altitude	feet	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000