

UL & CSA Technical data

A/AE9 – A/AE/AF110, AL9 – AL40

AC & DC operated

ABB contactor frame size		A/AE/AL 9	A/AE/AL 12	A/AE/AL 16	A/AE/AL 26	A/AE/AL 30	A/AE/AL 40	A/AE/AF 45	A/AE/AF 50	A/AE/AF 63	A/AE/AF 75	A/AE/AF 95	A/AE/AF 110
NEMA size		00	—	0	1	1P	—	—	2	—	3	—	—
Number of poles		3 OR 4	3	3 OR 4	3 OR 4	3	3	4	3 OR 4	3	3 OR 4	3	3
AC rating information													
NEMA cont. amp rating thermal current		9	—	18	27	36	—	—	45	—	90	—	—
NEMA maximum H.P. ratings 1 phase													
115 VAC		1/3	—	1	2	3	—	—	3	—	—	—	—
230 VAC		1	—	2	3	5	—	—	7.5	—	—	—	—
NEMA maximum H.P. ratings 3 phase													
200 VAC		1.5	—	3	7.5	—	—	—	10	—	25	—	—
230 VAC		1.5	—	3	7.5	—	—	—	15	—	30	—	—
460/575 VAC		2	—	5	10	—	—	—	25	—	50	—	—
U.L. general purpose current 40°C		21	25	30	40	50	60	65	80	90	105	125	140
Max. 3 Ph Switching motor loads A		9	11	17	28	34	42	—	54	65	80	95	110
U.L. maximum H.P. ratings 1 phase													
115 VAC		1/2	3/4	1.5	2	3	3	—	3	5	7.5	7.5	10
230 VAC		2	2	3	5	7.5	7.5	—	7.5	10	15	20	25
U.L. maximum H.P. ratings 3 phase													
200-208 VAC		2	3	5	7.5	10	10	—	15	20	25	30	30
220-240 VAC		2	3	5	10	10	15	—	20	25	30	30	40
440-480 VAC		5	7.5	10	20	25	30	—	40	50	60	60	75
550-600 VAC		7.5	10	15	25	30	40	—	50	60	75	75	100
U.L. maximum H.P. ratings VDC													
120 VDC		1	1.5	2	3	3	5	—	7.5	10	10	—	—
240 VDC		2	3	3	5	7.5	10	—	15	20	25	—	—
Lighting — ballast and incandescent 600VAC		15	15	20	35	50	60	65	65	85	105	—	—
Resistive heating applications 600VAC		15	15	20	35	50	60	65	65	85	105	—	—
CSA Elevator ratings													
220 – 240VAC 3 phase		—	—	5	—	—	10	—	15	—	20	—	—
440 – 480VAC 3 phase		—	—	10	—	—	20	—	30	—	30	—	—
550 – 600VAC 3 phase		—	—	10	—	—	20	—	30	—	40	—	—
230VAC 1 phase		—	—	2	—	—	5	—	7.5	—	10	—	—
Auxiliary contacts													
NEMA rating AC		A600	A600	A600	A600	A600	A600	—	A600	A600	A600	A600	A600
AC rated voltage VAC		600	600	600	600	600	600	—	600	600	600	600	600
AC thermal rated current A		10	10	10	10	10	10	—	10	10	10	10	10
AC maximum volt-ampere making VA		7200	7200	7200	7200	7200	7200	—	7200	7200	7200	7200	7200
AC maximum volt-ampere breaking VA		720	720	720	720	720	720	—	720	720	720	720	720
NEMA rating DC		P600	P600	P600	P600	P600	P600	—	P600	P600	P600	P600	P600
DC rated voltage VDC		600	600	600	600	600	600	—	600	600	600	600	600
DC thermal rated current A		5	5	5	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	0.2	0.2	0.2
Approximate weight													
Contactor lbs.		0.7	0.7	0.7	1.01	1.2	2.25	2.25	2.25	2.25	2.25	3.5	5
Starter lbs.		1.04	1.04	1.04	1.35	1.54	3	3	3	3	3	6	7
Terminal wire range													
Number of wires per phase AWG		18-10	18-10	18-10	12-8	8-4	8-4	8-1	8-1	8-1	8-1	6-2/0	6-2/0
Number of wires per phase		2	2	2	2	2	2	1	1	1	1	1	1
Maximum short circuit ratings													
MCCB, MCP, Amps/kA 480VAC		50/35	50/35	50/35	100/35	150/65	150/65	—	150/85	250/85	250/85	250/85	250/85
MCCB, MCP, Amps/kA 600VAC		10/35	10/35	10/35	100/35	150/25	150/25	—	—	—	—	250/35	250/35
Fuse, Amps — type/kA 600VAC		30J/200	30J/200	30J/200	60J/200	60J/200	100J/200	—	100J/200	200J/200	200J/200	200J/200	200J/200

Mounting positions

