

VFD Cross-Reference — ABB ACS, Schneider Altivar ATV, Siemens SINAMICS, Danfoss VLT, Eaton DA1/DC1, Omron MX2 by Motor kW and Supply Voltage

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Variable frequency drives are compared by rated motor power (kW at 400 V three-phase, or at 230 V single-phase for small drives), the rated output current, the supply voltage class (1 × 200–240 V, 3 × 380–480 V, 3 × 500–690 V), the overload duty (normal duty 110 % / heavy duty 150 % for 60 s), the enclosure rating (IP20 cabinet, IP55/IP66 wall mount) and the built-in EMC filter class. The table groups the catalogue by kW and voltage class across ABB ACS180/ACS380/ACS580/ACS880, Schneider Altivar ATV320/ATV340/ATV630/ATV930, Siemens SINAMICS V20/G120/G120C/G120X, Danfoss VLT Micro FC 51/HVAC FC 102/AQUA FC 202/AutomationDrive FC 302, Eaton DC1/DA1/DG1 and Omron MX2/RX2 so an equivalent-rated drive can be quoted.

Motor power	ABB	Schneider Electric	Siemens	Danfoss	Eaton	Omron
1 × 230 V · 0.12 kW	—	—	6SL3210-5BB11-2BV1, 6SL3210-5BB11-2UV1	—	—	—
1 × 230 V · 0.18 kW	—	ATV12H018M2	—	—	—	—
1 × 230 V · 0.25 kW	—	—	6SL3210-5BB12-5BV1, 6SL3210-5BB12-5UV1	—	DE1-121D4FN-N20N	—
1 × 230 V · 0.37 kW	—	—	6SL3210-5BB13-7UV1, 6SL3210-5BB13-7BV1	—	DE1-122D3FN-N20N	—
1 × 230 V · 0.55 kW	—	—	6SL3210-5BB15-5BV1, 6SL3210-5BB15-5UV1	—	DE1-122D7FN-N20N	—
1 × 230 V · 0.75 kW	—	—	6SL3210-5BB17-5UV1, 6SL3210-5BB17-5BV1	—	DA1-124D3FB-A20C, DG1-323D7FB-C54C, DA1-324D3FB-A20C, DE1-124D3FN-N20N, DG1-323D7FB-C21C, DX- BR100-100	—
1 × 230 V · 1.1 kW	—	—	—	—	DG1-324D8FB-C21C, DG1-324D8FB-C54C	—
1 × 230 V · 1.5 kW	—	ATV12HU15M2	—	—	DE1-127D0FN-N20N, DG1-326D6FB-C21C, DG1-326D6FB-C54C, DA1-127D0FB-A20C, DG1-327D8FB-C21C, DG1-327D8FB-C54C	MX2AB015E
1 × 230 V · 2.2 kW	—	—	6SL3210-5BB22-2BV1, 6SL3210-5BB222UV1	—	DE1-129D6FN-N20N, DX- BR040-200, DG1-32011FB- C21C, DA1-12011FB-A20C, DG1-32011FB-C54C, DA1-32011FB-A20C	MX2AB022E
1 × 230 V · 3 kW	—	—	6SL3210-5BB230UV1	—	DG1-32012FB-C54C, DG1-32012FB-C21C	—
1 × 230 V · 4 kW	—	—	—	—	DX-BR027-240, DG1-32017FB-C54C, DA1-32018FB-A20C, DG1-32017FB-C21C, DX- BR047-240	—
1 × 230 V · 5.5 kW	—	—	—	—	DA1-32024FB-B55C, DA1-32024FB-A20C, DG1-32025FB-C54C, DG1-32025FB-C21C	—

1 × 230 V · 7.5 kW	—	—	—	—	DG1-32031FB-C21C, DG1-32031FB-C54C, DA1-32039FB-B55C, DX- BR024-600	—
1 × 230 V · 11 kW	—	—	—	—	DG1-32048FB-C54C, DG1-32048FB-C21C, DA1-32046FB-B55C, DX- BR024-720	—
1 × 230 V · 15 kW	—	—	—	—	DG1-32061FN-C21C, DA1-32061FB-B55C, DG1-32061FN-C54C, DG1-32061FB-C54C, DG1-32061FB-C21C	—
1 × 230 V · 22 kW	—	—	—	—	DG1-32075FN-C21C, DG1-32088FB-C21C, DG1-32075FB-C21C, DG1-32088FN-C54C, DG1-32088FN-C21C, DG1-32088FB-C54C	—
1 × 230 V · 30 kW	—	—	—	—	DG1-32114FN-C21C, DA1-32110FB-B55C, DG1-32114FB-C21C, DG1-32114FB-C54C, DG1-32114FN-C54C	—
1 × 230 V · 45 kW	—	—	—	—	DG1-32170FN-C54C, DG1-32143FB-C21C, DG1-32170FN-C21C, DG1-32143FN-C21C, DG1-32143FB-C54C, DG1-32143FN-C54C	—
1 × 230 V · 55 kW	—	—	—	—	DA1-32202FB-B55C, DA1-32180FB-B55C	—
1 × 230 V · 75 kW	—	—	—	—	DA1-32248FB-B55C	—
3 × 380–480 V · 0.09 kW	—	—	3RV2311-0DC10, 3RV2011-0DA10, 3RV1011-0DA10, 3RV2111-0DA10	—	—	—
3 × 380–480 V · 0.18 kW	—	ATV320U02M2C, ATV320U02M3C, ATV320U02M2B, ATV12H018M3, ATV320U02M2W	—	—	—	—
3 × 380–480 V · 0.25 kW	—	—	—	135N3952	—	—
3 × 380–480 V · 0.37 kW	—	ATV320U04M2C, ATV320U04M2B, ATV12H037M2, ATV12H037M3, ATV320U04M2WS, ATV320U04M3C	—	132F0017, 131B0016, 131B8872, 134U2184, 134X3042, 132L6116	DE1-341D3FN-N20N, 169240, DC1-S24D3FN- A20N, 169512, DC1-322D3NN-A20N, DC1-122D3NN-A20N	—
3 × 380–480 V · 0.5 kW	—	—	—	—	DC1-S17D0NN-A20N, DC1-1D2D3NN-A20N	—

3 × 380–480 V · 0.55 kW	—	ATV320U06M2B, ATV320U06M2C, ATV12H055M2, ATV320U06M2WS, ATV320U06M2W, ATV12P055M2	6SL3210-1KE11-8UB1, 6SL3210-1KE11-8AF2	131N8737, 134U2978, 134U7943, 2365120018	—	—
3 × 380–480 V · 0.75 kW	—	ATV320U07M2C, ATV12H075M2, ATV930U07M3, ATV320U07M2W, ATV340U07N4E, ATV12H075F1	—	131B0024, 131B8891, 131B0922, 131B5527, 134X3072, 137H7364	DE1-342D1FN-N20N, DC1-342D2NN-A20N, DG1-342D2FB-C54C, DA1-342D2FB-A20C, DC1- S27D0FN-A20N, DG1-342D2FB-C21C	—
3 × 380–480 V · 1 kW	—	—	—	—	DC1-1D4D3NN-A20N	—
3 × 380–480 V · 1.1 kW	ACS580-01-03A4-4	ATV320U11M2W, ATV320U11M2C, VZ3V32B100, ATV320U11M3C, ATV320U11M2B, VW3A95813	6SL3210-1KE13-2UF2, 3RV2111-1DA10	131B8900, 131B9164, 134L9504, 131Z9530, 131U1463, 131U1436	DC1-S2011FB-A20N, DG1-343D3FB-C21C, DG1-343D3FB-C54C, DC1- S2011NB-A20N	MX2A4007E, 3G3MX2- A2007-E
3 × 380–480 V · 1.5 kW	3AXD50000031883	ATV320U15M2B, ATV320U15M2C, ATV12PU15M3, ATV320U15M2W, ATV12HU15M3, ATV320U15M3C	6SL3210-1KE14-3UF2, 6SL3201-0BE14-3AA0	132F0020, 131B0028, 131H0937, 131B8649, 134N4141, 131F7214	DG1-34004FB-C21C, DC1-327D0NN-A20N, 169246, DC1-344D1NN- A20N, DC1-344D1FN-A20N, DC1-344D1NB-A20N	3G3MX2-A2015-E, MX2A4015E
3 × 380–480 V · 2.2 kW	ACS580-01-05A6-4	ATV320U22M3C, ATV320U22M2C, ATV930U22N4, ATV12HU22M3, ATV12PU22M3, ATV320U22M2W	6SL3210-1KE15-8UF2	132F0022, 131B0032, 131N0327, 131X5912, 134U9524, 131B8906	DC1-12011NB-A20N, DC1-12011FB-A20N, DC1-32011NB-A20N, DC1-32011FB-A20N, 169462, DE1-345D0FN-N20N	MX2A4022E, 3G3MX2- A2022-E
3 × 380–480 V · 3 kW	ACS580-01-07A3-4	ATV12HU30M3, ATV630U30N4, ATV630U30M3, ATV650U30N4, ATV930U30N4, ATV650U30N4E	6SL3210-1KE17-5AF1, 6SL3210-1KE17-5UF1	131B0041, 131N0328, 131U7753, 131N1914, 131B8914, 131B6731	DG1-347D6FB-C54C, DG1-347D6FB-C21C, DE1-346D6FN-N20N	MX2A4030E
3 × 380–480 V · 3.7 kW	ACS580-01-012A-4	—	—	131X5914, 134H6590, 134H8806, 131B6732, 134U7948, 137H7369	—	—
3 × 380–480 V · 4 kW	ACS580-01-09A5-4	ATV320U40M3C, ATV630U40N4, ATV630U40M3, ATV650U40N4E, ATV650U40N4, ATV212HU40N4	6SL3210-1KE18-8UF1, 6SL3210-1KE18-8AF1, 6SL3210-1KE18-8AB1, 6SL3201-0BE21-0AA0, 6SL3203-0CD21-4AA0	131H7210, 131N1413, 131F1407, 131B0993, 131L9866, 131B3318	DG1-34009FB-C21C, DX- BR100-240, DC1-12015NB- A20N, DC1-32018FB-A20N, DG1-349D0FB-C54C, DC1-349D5NB-A20N	3G3MX2-A2037-E, MX2A4040E
3 × 380–480 V · 5.5 kW	ACS580-01-12A7-4	ATV630U55N4, ATV320U55M3C, VX5VPS1001, ATV630U55M3, ATV340U55N4E, ATV650U55N4E	6SL3210-1KE21-3UB1, 6SL3210-1KE21-3AF1, 6SL3210-1KE21-3UF1, 4134689	131B8947, 131X5915, 136N0302, 131F1408, 131B8942, 136Z3344	DX-BR075-400, DG1-34012FB-C21C, DG1-34012FB-C54C, DX- BR050-400, DX-BR024-400, 169490	3G3MX2-A2055-E, MX2A4055E
3 × 380–480 V · 7.5 kW	ACH580-01-018A-4	ATV320U75M3C, ATV212HU75N4, ATV930U75N4, ATV950U75N4, ATV630U75N4, ATV630U75M3	6SL3201-0BE21-8AA0, 6SL3210-1KE21-7AF1, 6SL3210-1KE21-7UF1, 6SL3203-0CD22-2AA0	131B0058, 131H2800, 131N1410, 131N3165, 131N6481, 131Z8925	DE1-34016FN-N20N, 169493, DG1-34016FB- C21C, 169471, DA1-34018FB-A20C, DG1-34016FB-C54C	3G3MX2-A2075-E, MX2A4075E

3 × 380–480 V · 11 kW	ACS580-01-026A-4, ACS580-01-023A-4	ATV630D11M3, ATV650D11N4E, ATV630D11N4, VX5VPS2001, ATV930D11N4, ATV650D11N4	6SL3210-1KE22-6UB1, 3RV2021-4DA10, 6SL3210-1KE22-6UF1, 6SL3210-1KE22-6AF1, 6SL3210-1KE22-6AP1, 3RV2031-4DA10	131B0078, 131H8218, 131B9001, 131H8713, 131N0329, 134G3402	DG1-34024FB-C21C, DG1-34023FB-C54C, DC1-34024FB-A20N, DC1-34024NB-A20N, DG1-34023FB-C21C, DX- BR050-720	—
3 × 380–480 V · 15 kW	—	ATV630D15N4, ATV650D15N4E, ATV630D15M3, ATV320D15M3C, ATV212WD15N4C, ATV950D15N4	6SL3210-1KE23-2AF1, 6SL3210-5BE31-5CV0, 6SL3210-1KE23-2UF1, 6SL3225-0BE31-1AA1, 6SL32105BE315UV0	131B0088, 131N0330, 131F3981, 134G6757, 131H5658, 131B8727	DA1-34030FB-B55C, DG1-34031FB-C21C, DG1-34031FB-C54C	MX2A4150E
3 × 380–480 V · 18 kW	—	ATV340D18N4, ATV340D18N4E, ATV930D18M3	—	—	—	—
3 × 380–480 V · 18.5 kW	ACS580-01-039A-4, ACH580-01-038A-4	ATV630D18N4, ATV630D18M3, ATV950D18N4, ATV930D18N4, ATV650D18N4E, ATV650D18N4	6SL3210-1KE23-8UB1, 6SL3210-1KE23-8AF1, 6SL3201-0BE23-8AA0, 6SL3210-1KE23-8UF1, 6SL3223-0DE31-8BA0, 6SL3203-0CJ24-5AA0	131N1028, 131B9277, 131H4922, 131N8747, 136X5682, 131F2050	DG1-34038FB-C54C, DG1-34038FB-C21C, DA1-34039FB-B55C	—
3 × 380–480 V · 22 kW	ACS880-01-045A-3, ACS580-01-045A-4	ATV630D22N4, VX5VPS3001, ATV630D22M3, VX5VP50A001, VW3A4432, ATV650D22N4E	6SL3223-0DE32-2AA0, 6SL3223-0DE32-2BA0, 6SL3203-0CD25-3AA0	131B0115, 112315, 137N2686, 131N8748, 131B6029, 131B8729	DG1-34046FB-C21C, DG1-34046FB-C54C, DA1-34046FB-B55C	—
3 × 380–480 V · 30 kW	ACS580-01-062A-4	ATV630D30N4, ATV930D30N4, ATV650D30N4E, ATV930D30M3, ATV630D30M3, ATV340D30N4E	6SL3223-0DE33-0BA0, 6SL3223-0DE33-0AA0	131U8903, 131B9311, 131N0331, 131N3175, 131F1209, 131F2052	DA1-34061FB-B55C, DG1-34061FN-C21C, DG1-34061FB-C54C, DG1-34061FN-C54C, DG1-34061FB-C21C	—
3 × 380–480 V · 37 kW	ACS880-01-072A-3, ACS580-01-073A-4	ATV930D37N4, ATV650D37N4, ATV930D37M3C, ATV930D37M3, ATV212HD37N4, ATV650D37N4E	6SL3223-0DE33-7BA0, 6SL3223-0DE33-7AA0	134G7936, 131B8731	DG1-34072FB-C54C, DG1-34072FN-C21C, DG1-34072FN-C54C, DG1-34072FB-C21C, DA1-34072FB-B55C	—
3 × 380–480 V · 45 kW	—	ATV930D45N4, ATV930D45M3, ATV630D45M3, ATV630D45N4, ATV340D45N4E, ATV650D45N4E	6SL3223-0DE34-5BA0, 6SL3223-0DE34-5AA0	131B0157, 131B9053, 131B6663	DG1-34090FB-C21C, DA1-34090FB-B55C, DG1-34087FB-C21C, DG1-34087FN-C21C, DG1-34087FN-C54C, DG1-34087FB-C54C	—
3 × 380–480 V · 55 kW	ACS880-01-105A-3	ATV630D55M3, ATV930D55N4C, ATV630D55N4, ATV950D55N4E, ATV930D55M3C, ATV930D55N4	6SL3223-0DE35-5BA0, 6SL3223-0DE35-5AA0	134H0424, 131B6664, 130B1829	DA1-34110FB-B55C, DG1-34105FN-C21C, DG1-34105FB-C54C, DG1-34105FB-C21C, DG1-34105FN-C54C	—
3 × 380–480 V · 75 kW	ACS580-01-145A-4	ATV930D75N4, ATV650D75N4E, ATV630D75M3, ATV650D75N4, ATV630D75N4428, ATV930D75M3C	6SL3223-0DE37-5BA0, 6SL3223-0DE37-5AA0	—	DG1-34140FB-C21C, DG1-34140FN-C21C, DG1-34140FN-C54C, DA1-34150FB-B55C, DG1-34140FB-C54C	—

3 × 380–480 V · 90 kW	—	VX5VPS5001, ATV650D90N4428, ATV930D90N4C, ATV630D90N4428, ATV630D90N4, ATV650D90N4	6SL3223-0DE38-8BA0, 6SL3223-0DE38-8AA0	113662, 134F0299, 134H8134	DG1-34170FN-C21C, DG1-34170FN-C54C, DG1-34170FB-C21C, DG1-34170FB-C54C, DA1-34180FB-B55C	—
3 × 380–480 V · 110 kW	—	ATV930C11N4C, ATV630C11N4428, ATV650C11N4F, ATV950C11N4F, ATV930C11N4F, ATV930C11N4	—	134F4168, 134H5973, 134L5018	DA1-34202FB-B55C	—
3 × 380–480 V · 130 kW	—	ATV630C13N4, ATV930C13N4C, ATV650C13N4F	—	—	—	—
3 × 380–480 V · 132 kW	—	ATV630C13N4428, ATV930C13N4428, ATV950C13N4F, ATV930C13N4	—	134G9516	DA1-34240FB-B55C	—
3 × 380–480 V · 160 kW	—	ATV630C16N4428, ATV930C16N4428, ATV650C16N4F, ATV930C16N4F, ATV930C16N4C, ATV950C16N4F	—	—	DA1-34302FB-B55C	—
3 × 380–480 V · 200 kW	—	ATV650C20N4F, ATV950C20N4F, ATV630C20N4F	—	—	—	—
3 × 380–480 V · 220 kW	—	ATV630C22N4, ATV630C22N4428	—	—	—	—
3 × 380–480 V · 250 kW	—	ATV930C25N4C428, ATV630C25N4, ATV950C25N4F, VW3A9114, ATV630C25N4428, ATV630C25N4F	—	—	—	—
3 × 380–480 V · 315 kW	—	ATV930C31N4C, ATV630C31N4, ATV630C31N4428, ATV950C31N4F, ATV630C31N4F	—	—	—	—
3 × 500–690 V · 0.1 kW	—	—	3RV2411-0DA10	—	—	—
3 × 500–690 V · 0.37 kW	—	ATV320U04N4, ATV320U04N4C, ATV320U04N4B, ATV320U04N4W	—	—	—	—
3 × 500–690 V · 0.55 kW	—	ATV320U06N4B, ATV320U06N4C, ATV320U06N4WS, ATV320U06N4W	—	131B0044, 131B0034	—	—
3 × 500–690 V · 0.75 kW	—	ATV320U07N4, ATV320U07N4B, ATV320U07N4C, ATV320U07N4WS, ATV320U07N4W	6SL3525-0PE17-5AA1	131B0045, 131B0461	DA1-352D1NB-A20C	—

3 × 500–690 V · 1.1 kW	—	ATV320U11N4B, ATV320U11N4C, ATV320U11N4W, VW3A95812	3RV1011-1DA10, 3RV2411-1DA10	—	—	—
3 × 500–690 V · 1.5 kW	—	ATV320U15N4, ATV320U15N4C, ATV320U15N4B, ATV320U15N4W	6SL3525-0PE21-5AA1	131B0030, 131B0037, 131B1957	DA1-353D1NB-A20C	—
3 × 500–690 V · 2.2 kW	—	ATV320U22N4, ATV320U22N4C, ATV320U22N4B, VX5VPS3002, VW3A95814, ATV320U22N4WS	—	131B0454	DA1-354D1NB-A20C	—
3 × 500–690 V · 3 kW	—	ATV320U30N4C, ATV320U30N4B, ATV320U30N4WS, ATV320U30N4W, ATV930U30Y6, ATV630U30Y6	6SL3525-0PE23-0AA1	131B0039, 131B0049	SPX003A1-5A4N1	—
3 × 500–690 V · 4 kW	—	ATV320U40N4B, ATV320U40N4C, ATV320U40N4W, ATV320U40N4WS, ATV930U40Y6, ATV630U40Y6	6SL3525-0PE24-0AA1	134U9663, 131G6697	DA1-356D5NB-A20C	—
3 × 500–690 V · 5.5 kW	—	ATV320U55N4B, VW3A9532, ATV320U55N4C, VW3A95817, ATV320U55N4W, ATV320U55N4WS	6SL3525-0PE25-5AA1	131B0457, 131F4034	SPX005A1-5A4N1, DA1-359D0NB-A20C	—
3 × 500–690 V · 7.5 kW	—	ATV320U75N4B, ATV320U75N4C, ATV320U75N4WS, ATV630U75Y6, ATV930U75Y6, ATV320U75N4W	6SL3525-0PE27-5AA1	131B2354, 131B0052, 131B0458, 131B0042	DA1-35012NB-A20C	—
3 × 500–690 V · 11 kW	—	ATV320D11N4B, ATV320D11N4C, VW3A9533, ATV630D11Y6, VW3A95819, ATV930D11Y6	3RV2421-4DA10	131B1178, 131B9826	SPX010A2-5A4N1, DA1-35017NB-A20C	—
3 × 500–690 V · 15 kW	—	ATVRD15N4, ATV320D15N4C, ATV320D15N4B, ATV630D15Y6, ATV930D15Y6	—	131N8757, 131F8887	SPX015A2-5A4N1, DA1-35022NB-A20C, DA1-35022NB-B55C	—
3 × 500–690 V · 18.5 kW	—	ATV630D18Y6, ATV930D18Y6	—	134L1546	DA1-35028NB-B55C	—
3 × 500–690 V · 22 kW	—	ATV630D22Y6, ATV930D22Y6	—	131B1879	DA1-35034NB-B55C	—
3 × 500–690 V · 30 kW	—	ATV630D30Y6428, ATV630D30Y6, ATV930D30Y6428	—	136L7260, 131N3959, 134F6451	SPX030A1-5A4N1, DA1-35043NB-B55C	—
3 × 500–690 V · 37 kW	—	VX5VPS5002, ATV630D37Y6428, ATV630D37Y6, ATV930D37Y6	—	134F1594	SPX040A1-5A4N1, DA1-35054NB-B55C	—

3 × 500–690 V · 45 kW	—	ATV630D45Y6, ATV930D45Y6, ATV630D45Y6428, ATV930D45Y6428	—	—	DA1-35065NB-B55C	—
3 × 500–690 V · 55 kW	—	ATV630D55Y6428, ATV930D55Y6428, ATV630D55Y6, ATV930D55Y6	—	131H1594, 134F0612	—	—
3 × 500–690 V · 75 kW	—	ATV930D75Y6, ATV630D75Y6, ATV630D75Y6428, ATV930D75Y6428	—	131H3321	—	—
3 × 500–690 V · 90 kW	—	ATV930D90Y6, ATV630D90Y6, ATV630D90Y6428, ATV930D90Y6428, VW3A9706	—	—	—	—
3 × 500–690 V · 110 kW	—	ATV930C11N4428	—	176F8696	SPX125A1-5A4N1	—
3 × 500–690 V · 125 kW	—	—	6SL3000-1BE31-3AA0	—	—	—
3 × 500–690 V · 160 kW	—	—	—	—	SPX175A1-5A4N1, SPX175A2-5A4N1	—
3 × 500–690 V · 200 kW	—	—	—	—	SPX200A2-5A4N1, SPX200A1-5A4N1	—
3 × 500–690 V · 220 kW	—	ATV930C22N4428	—	—	—	—
3 × 500–690 V · 250 kW	—	—	6SL3000-1BE32-5AA0	—	—	—
3 × 500–690 V · 355 kW	—	—	—	—	SPX400A1-5A4N1	—

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