

B410/P410 Series



High-performance, multifunctional
frequency inverters

General purpose series B410
Pump series P410

5.5kW~475kW
3 phase 330V~440V
IP20



Specification

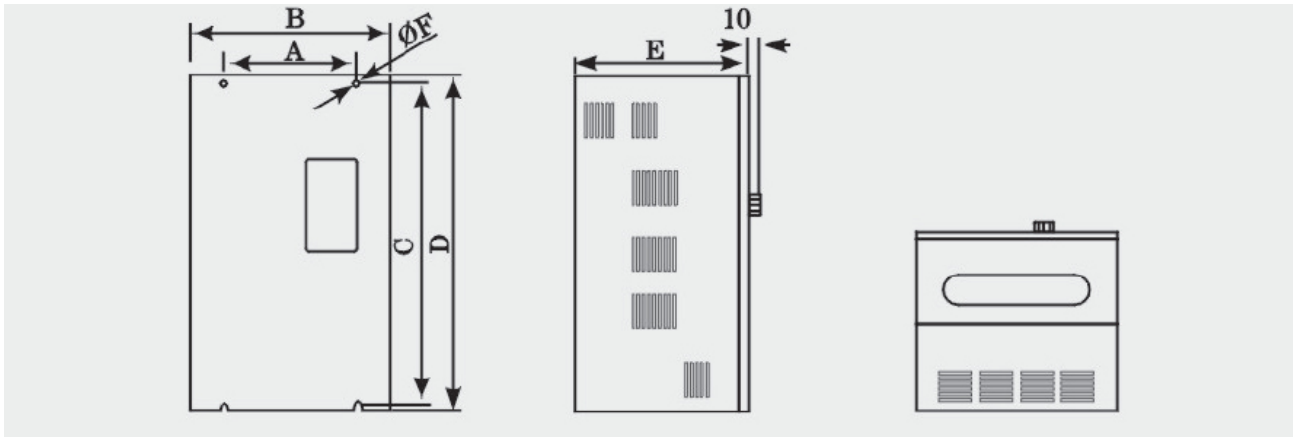
	Items	B410/P410
Power supply	Rated voltage, frequency	Three phase 380V 50/60Hz
	Voltage range	380V: 330~440V
Output	Voltage range	380V: 0~380V
	Frequency range	0.10~400.00Hz
Control method		V/f control, space vector control
Indication		Operating status/Alarm definition/Interactive guidance: eg, frequency setting, the output frequency/current, DC bus voltage, the temperature and so on
Control specifications	Output frequency range	0.10Hz ~ 400.00Hz
	Frequency setting resolution	Digital input: 0.01Hz, analog input: 0.1% of max. output frequency
	Output frequency accuracy	0.01Hz
	V/f control	Setting V/f curve to satisfy various load requirements
	Torque control	Auto increase: auto raise torque by loading condition; manual increase; enable to set 0.0~20.0% of raising torque
	Multifunctional input terminal	8 multi-function input terminals, realizing functions including fifteen section speed control, program running, four-section acceleration/deceleration speed switch, UP/DOWN function and emergency stop and other functions
	Multifunctional output terminal	3 multi-function input terminals for displaying of running, zerospeed, counter, external abnormality, program operation and other information and warnings
	Acceleration/deceleration time setting	0~6000 s acceleration/deceleration time can be set individually
Other functions	PID control	Build-in
	RS-485	Standard RS485 communication function (MODBUS)
	Frequency setting	Analog input: 0...10V, 0...20mA can be selected; Digital input: input using the setting dial of the operation panel or RS485 or UP/DOWN
	Multi-speed	8 multifunction input terminals, 15 section speed can be set
	Automatic voltage regulation	Automatic voltage regulation function can be selected
	Counter	Build-in 2 group of counters
Protection/ Warning function	Overload	150%, 60 s (constant torque); 120%, 60 s (variable torque)
	Over voltage	Over voltage protection can be set
	Under voltage	Under voltage protection can be set
	Other protections	Overheat, shortcircuit, over current, and parameter lock and so on
Environment	Ambient temperature	-10 °C ... +40 °C (non-freezing)
	Ambient humidity	Max. 95 % (non-condensing)
	Altitude	Lower than 1000m
	Vibration	Max. 0.5G
Structure	Cooling mode	Forced air cooling
	Protective structure	IP20
Installation	Mode	Below 200 kW: wall mounted or in cabinet, above 200 kW: in cabinet

Model range

Model	Input	Rated output power (kW)	Drive capacity (kVA)	Output current (A)	Overload capacity (60s) (A)	Applicable motor (kW)
ADV 5.50 B410-M	3 phase 380V 50/60Hz	5.5	10	12.5	18.75	5.5
ADV 7.50 P410-M		7.5	14	17.5	21	7.5
ADV 7.50 B410-M	3 phase 380V 50/60Hz	7.5	14	17.5	26.25	7.5
ADV 11.0 P410-M		11	19	24	28.8	11
ADV 11.0 B410-M	3 phase 380V 50/60Hz	11	19	24	36	11
ADV 15.0 P410-M		15	26	33	36	15
ADV 15.0 B410-M	3 phase 380V 50/60Hz	15	26	33	45	15
ADV 18.5 P410-M		18.5	32	40	48	18.5
ADV 18.5 B410-M	3 phase 380V 50/60Hz	18.5	32	40	60	18.5
ADV 22.0 P410-M		22	37	47	56.4	22
ADV 22.0 B410-M	3 phase 380V 50/60Hz	22	37	47	70.5	22
ADV 30.0 P410-M		30	52	65	78	30
ADV 30.0 B410-M	3 phase 380V 50/60Hz	30	52	65	97.5	30
ADV 37.0 P410-M		37	64	80	96	37
ADV 37.0 B410-M	3 phase 380V 50/60Hz	37	64	80	120	37
ADV 45.0 P410-M		45	72	90	108	45
ADV 45.0 B410-M	3 phase 380V 50/60Hz	45	72	90	135	45
ADV 55.0 P410-M		55	84	110	132	55
ADV 55.0 B410-M	3 phase 380V 50/60Hz	55	84	110	165	55
ADV 75.0 P410-M		75	115	152	182.4	75
ADV 75.0 B410-M	3 phase 380V 50/60Hz	75	115	152	228	75
ADV 90.0 P410-M		90	135	176	211.2	90
ADV 90.0 B410-M	3 phase 380V 50/60Hz	90	135	176	264	90
ADV 110 P410-M		110	160	210	252	110
ADV 110 B410-M	3 phase 380V 50/60Hz	110	160	210	315	110
ADV 132 P410-M		132	193	255	306	132
ADV 132 B410-M	3 phase 380V 50/60Hz	132	193	255	382.5	132
ADV 160 P410-M		160	230	305	366	160
ADV 160 B410-M	3 phase 380V 50/60Hz	160	230	305	457.5	160
ADV 185 P410-M		185	260	340	408	185
ADV 185 B410-M	3 phase 380V 50/60Hz	185	260	340	510	185
ADV 200 P410-M		200	290	380	456	200
ADV 200 B410-M	3 phase 380V 50/60Hz	200	290	380	570	200
ADV 220 P410-M		220	320	425	510	220
ADV 220 B410-M	3 phase 380V 50/60Hz	220	320	425	637.5	220
ADV 250 P410-M		250	365	480	576	250
ADV 250 B410-M	3 phase 380V 50/60Hz	250	365	480	720	250
ADV 280 P410-M		280	427	560	672	280
ADV 280 B410-M	3 phase 380V 50/60Hz	280	427	560	840	280
ADV 300 P410-M		300	450	580	696	300
ADV 300 B410-M	3 phase 380V 50/60Hz	300	450	580	870	300
ADV 315 P410-M		315	460	605	786.5	315
ADV 315 B410-M	3 phase 380V 50/60Hz	315	460	605	907.5	315
ADV 345 P410-M		345	516	680	884	345
ADV 345 B410-M	3 phase 380V 50/60Hz	345	516	680	1020	345
ADV 375 P410-M		375	562	740	962	375
ADV 375 B410-M	3 phase 380V 50/60Hz	375	562	740	1110	375
ADV 400 P410-M		400	600	790	1027	400
ADV 400 B410-M	3 phase 380V 50/60Hz	400	600	790	1125	400
ADV 415 P410-M		415	632	820	1066	415
ADV 415 B410-M	3 phase 380V 50/60Hz	415	632	820	1230	415
ADV 450 P410-M		450	638	840	1092	450
ADV 450 B410-M	3 phase 380V 50/60Hz	450	538	840	1260	450
ADV 475 P410-M		475	714	940	1222	475

Notes: B410 series frequency inverter is constant torque inverter, B410 series frequency inverter is variable torque inverter. P410 series is suitable for blowing machine and water-pump type devices.

Dimensions



Unit: mm

Model	A	B	C	D	E	ΦF	Installation mode	Remark			
ADV 05.5 B410-M/07.5 P410-M	168	185	248	260	170	6.5	Wall hang	Plastic			
ADV 07.5 B410-M/11.0 P410-M											
ADV 11.0 B410-M/15.0 P410-M											
ADV 15.0 B410-M/18.5 P410-M	195	210	210	330	190	6		Semi-plastic			
ADV 18.5 B410-M/22.0 P410-M											
ADV 22.0 B410-M/30.0 P410-M											
ADV 30.0 B410-M/37.0 P410-M	262	277	390	410	189	6		Wall hang or floor installation (floor installation should plus a 120mm fixed-foot)	Iron case		
ADV 37.0 B410-M/45.0 P410-M											
ADV 45.0 B410-M/55.0 P410-M											
ADV 55.0 B410-M/75.0 P410-M	200	380	538	560	236	9			Cabinet	Iron case	
ADV 75.0 B410-M/90.0 P410-M											
ADV 90.0 B410-M/110 P410-M											
ADV 110 B410-M/132 P410-M	250	380	625	650	252	9	Cabinet			Iron case	
ADV 132 B410-M/160 P410-M											
ADV 160 B410-M/185 P410-M											
ADV 185 B410-M/200 P410-M	250	430	810	850	336	13				Cabinet	Iron case
ADV 200 B410-M/220 P410-M											
ADV 220 B410-M/250 P410-M											
ADV 250 B410-M/280 P410-M	460	630	926	960	380	13		Cabinet			Iron case
ADV 280 B410-M/300 P410-M											
ADV 300 B410-M/315 P410-M											
ADV 315 B410-M/345 P410-M	553	600	1678	1700	560	16			Cabinet		Iron case
ADV 345 B410-M/375 P410-M											
ADV 375 B410-M/400 P410-M											
ADV 400 B410-M/415 P410-M	670	900	355	2030	600	16	Cabinet				Iron case
ADV 415 B410-M/450 P410-M											
ADV 450 B410-M/475 P410-M											

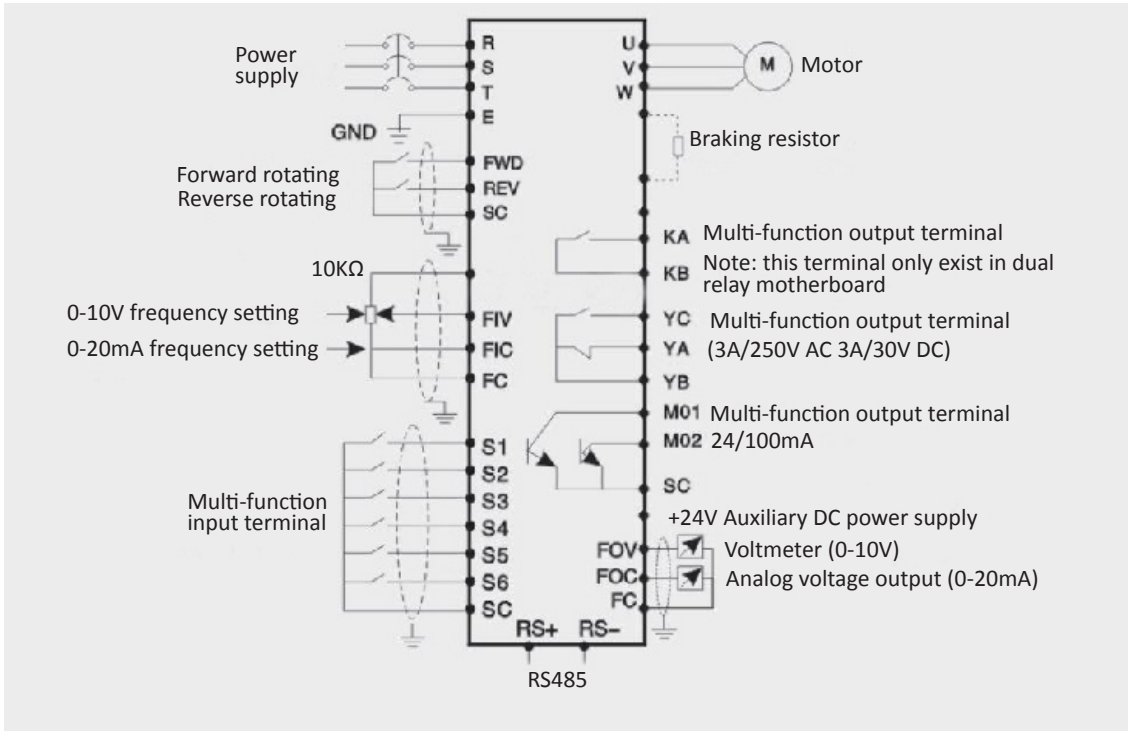
The hole size of the tray for the operating panel:

5.5kW (included) above: 141.5mm x 79.5mm

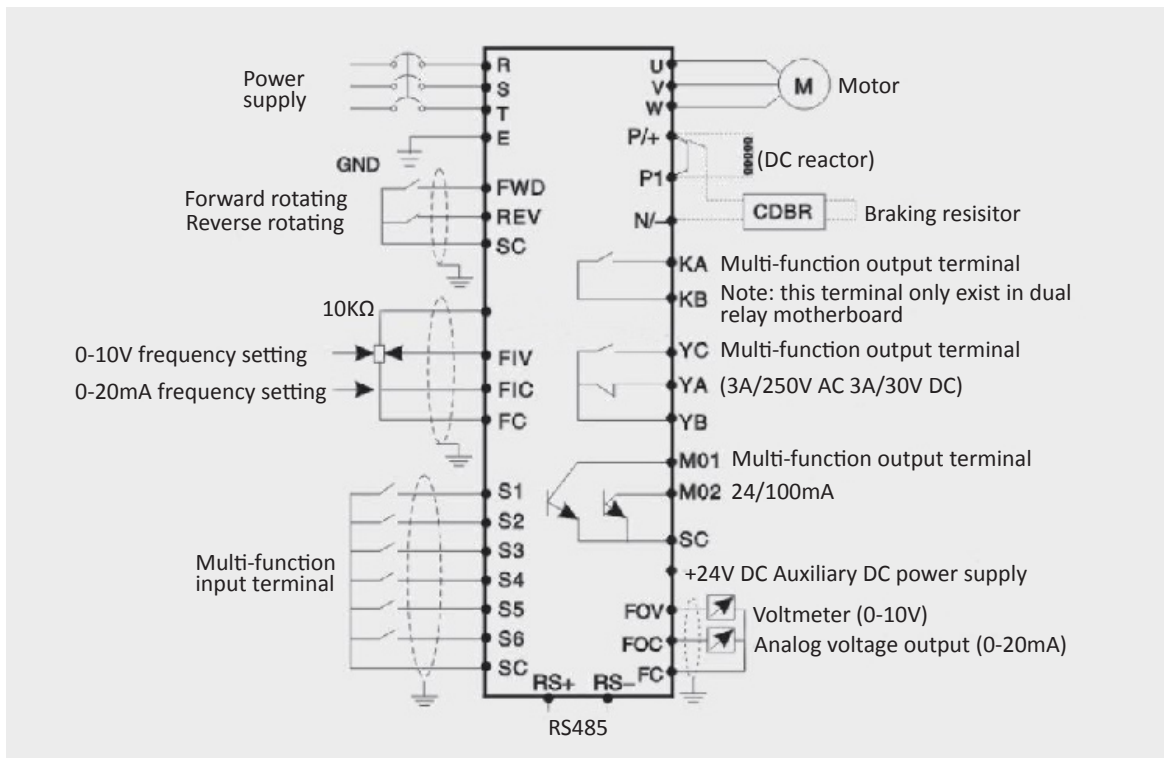
3.7kW (included) below: 99.5mm x 56mm

Wiring diagram

(1) 15kW (included) below for B410 series (18.5kW (included) below for P410 series)



(2) 18.5kW (included) above for B410 series (22kW (included) above for P410 series)



Applications

Air conditioning, greenhouse, cold room

Blowing machine, water pump, air compressor

Conveyor, conveyor belt, cold storage facilities

CTC lathe, grinder, drill press, vertical machining centers,

saws bed milling machine, engraving machine

Weaving/knitting machines, bleaching/dyeing machines, fabric inspection machine, setting machine

Printing machine, rolling machine...

Industrial washing machine, dry cleaning equipment...

Plastic/rubber processing machines (injection molding machine, crushing machine, extrusion machine...)

Bag making machines, hot bag machine, woven bag machine...

Printing equipment, packaging machine, filling/sealing machine, etc.



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