INTEGRAL AC MOTORS

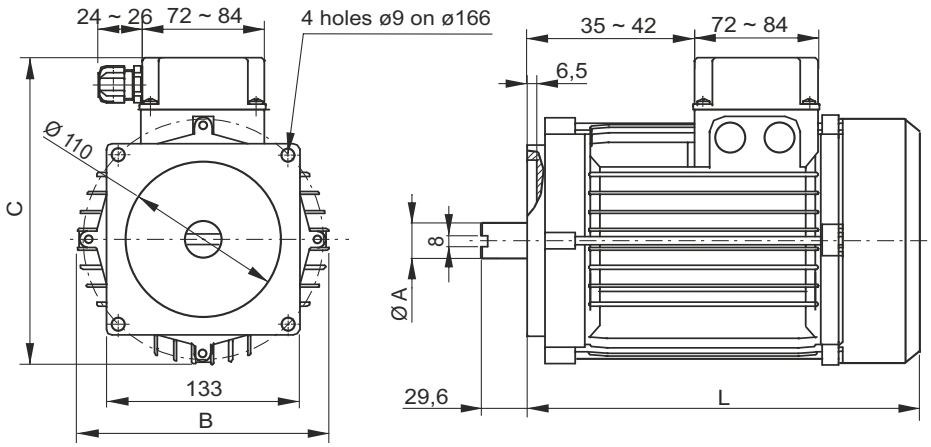


Integral motors: these are motors with a peculiar square flange and tang drive shaft, specifically engineered and manufactured for our mini power packs, featuring high power density and direct connection to the PPC central manifold. They are available in single phase or three phase execution, in frame 71, 80, 90 and 100, with square flange and tang drive shaft.

Additional nominal powers and/or special designs are available on request. Standard motors are for intermittent use: **S3 40%** means a typical duty cycle consisting of up to six cycles (on-off) in one hour with the motor ON and OFF for 4 min to 6 min. These motors can be used in emergency situations even in continuous use at a reduced power (30% less than the nominal value S3).

Drawings show typical three phase motors. Single phase motors have a larger wiring box which also contains the capacitor(s) or can have an external capacitor(s).

Protection degree: IP54
Insulation class: F
Type of duty: S3 = intermittent duty



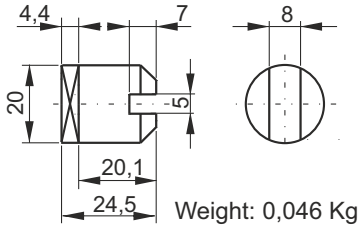
PPC motor assembly code

E	**AC integral motor**
1,5	**Maximum Power [kW]**
AC	**Alternate current**
3	**Phase: 3** = three phase **S** = single phase
4	**Poles: 4** = four poles **2** = two poles
90	**Frame**

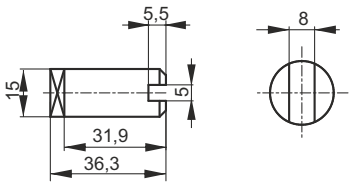
See a table of available motors on next page

A single tang drive coupling fits all motor frame sizes. This is the same coupling (pump side) included in the B14 motors mounting kit. The coupling is already included when specifying an integral AC motor in the PPC assembly code. When ordering spare motors, the coupling is not included and must be ordered separately.

Coupling code	Coupling code
E36100000 For gr.1 pumps	**E36100006** For gr.0 pumps



Weight: 0,046 Kg



Weight: 0,040 kg

OPTIONS



Start-up valve for single phase electric motors

It allows single-phase motors starting under load, overcoming the inherent limitation of single phase induction motors. It should be mounted in cavity 9 of the central manifold, after appropriate machining has been made.
For more details see SUV01* technical table in section D.

INTEGRAL AC MOTORS

Three-phase 4 poles (~1450 rpm at 50Hz)

Frame size	Maximum Power (S3 40%)	Assembly code	Spare part code	Ø A	B	C	L	Weight kg
71	0,37kW (0,5HP)	**E0,37AC 34 71**	**E037AC341S3**	17	138	180	214	5,5
	0,55kW (0,75HP)	**E0,55AC 34 71**	**E055AC341S3**	17	138	180	214	5,5
	0,75kW (1HP)	**E0,75AC 34 71**	**E075AC341S3**	17	138	180	214	5,5
80	1,1kW (1,5HP)	**E1,1AC 34 80**	**E110AC342S3**	19	156	202	251	10,5
90	1,5kW (2HP)	**E1,5AC 34 90**	**E150AC343S3**	24	176	217	277	14
	2,2kW (3HP)	**E2,2AC 34 90**	**E220AC343S3**	24	176	217	277	15
	3kW (4HP)	**E3,0AC 34 90**	**E300AC343S3**	24	176	217	277	16
100	4kW (5,5HP)	**E4,0AC 34 100**	**E400AC344S3**	25	191	248	321	25
	5,5kW (7,5HP)	**E5,5AC 34 100**	**E550AC344S3**	25	191	248	321	32

Three-phase 2 poles (~2900 rpm at 50Hz)

Frame size	Maximum Power (S3 40%)	Assembly code	Spare part code	Ø A	B	C	L	Weight kg
71	0,55kW (0,75HP)	**E0,55AC 32 71**	**E055AC321S3**	17	138	180	214	5
	0,75kW (1HP)	**E0,75AC 32 71**	**E075AC321S3**	17	138	180	214	5
80	1,1kW (1,5HP)	**E1,1AC 32 80**	**E110AC322S3**	19	156	202	251	10
	1,5kW (2HP)	**E1,5AC 32 80**	**E150AC322S3**	19	156	202	251	11
	2,2kW (3HP)	**E2,2AC 32 80**	**E220AC322S3**	19	156	202	251	12
90	3kW (4HP)	**E3,0AC 32 90**	**E300AC323S3**	24	176	217	277	16
	4kW (5HP)	**E4,0AC 32 90**	**E400AC323S3**	24	176	217	277	16
100	5,5kW (7,5HP)	**E5,5AC 32 100**	**E550AC324S3**	25	191	248	321	35

Single-phases 4 poles (~1450 rpm at 50Hz)

Frame size	Maximum Power (S3 40%)	Assembly code	Spare part code	Ø A	B	C	L	Weight kg
71	0,37kW (0,5HP)	**E0,37AC S4 71**	**E037ACS41S3**	17	138	180	214	6,5
	0,55kW (0,75HP)	**E0,55AC S4 71**	**E055ACS41S3**	17	138	180	214	7,2
80	0,75kW (1HP)	**E0,75AC S4 80**	**E075ACS42S3**	19	156	202	251	10
90	1,1kW (1,5HP)	**E1,1AC S4 90**	**E110ACS43S3**	24	176	217	277	13
	1,5kW (2HP)	**E1,5AC S4 90**	**E150ACS43S3**	24	176	217	277	15
	2,2kW (3HP)	**E2,2AC S4 90**	**E220ACS43S3**	24	176	217	277	15,5
100	3kW (4HP)	**E3,0AC S4 100**	**E300ACS44S3**	25	191	248	321	25

Single-phase 2 poles (~2900 rpm at 50Hz)

Frame size	Maximum Power (S3 40%)	Assembly code	Spare part code	Ø A	B	C	L	Weight kg
71	0,55kW (0,75HP)	**E0,55AC S2 71**	**E055ACS21S3**	17	138	180	214	6
	0,75kW (1HP)	**E0,75AC S2 71**	**E075ACS21S3**	17	138	180	214	6,5
80	1,1kW (1,5HP)	**E1,1AC S2 80**	**E110ACS22S3**	19	156	202	251	10
	1,5kW (2HP)	**E1,5AC S2 80**	**E150ACS22S3**	19	156	202	251	11
90	2,2kW (3HP)	**E2,2AC S2 90**	**E220ACS23S3**	24	176	217	277	15