

ReEnergy

ACC™: High-Efficiency Motor with Variable Speed Technical Data

Innovation
Hannover 2013
SWISS Pavilion Hall 4



**AC-motors consume 40%
of the industrial electrical energy,
ACC™ provides 12% ... 40% energy-savings.**

ACC™ - FEATURES

- High-efficiency AC-Motor
- nom. Speed between 1000 - 6000 rpm, deliverable in 500 rpm steps
1000/1500/2000/2500/3000/3500/4000/4500/5000/5500/6000 rpm
- 380-500V grid-voltage, 50/60Hz grid-frequency, no inrush current, power factor 0.9, 150% overload 1 min / 10min
- Reference voltage 0-10V, Speed Reference 4-20mA, fault relays: normally open, normally closed 1A/100V, run permissive input
- Options for serial Interface and external sensors in the motor-terminal box.

ACC™ - Product Matrix

Stator	nom. Power	nom. Speed ¹	nom. Effic ²	Weight ²	Un	In ³	Imax ³	Grid Freq	cos φ	Over-Load ⁴
Frame	kW	rpm	%	kg	V	A	A	Hz		
90	1,1	1000-6000	82,9	12	380-500	2,3	4,5	50-60	0,9	1,5
90L	1,5	1000-6000	84,5	14	380-500	2,9	5,8	50-60	0,9	1,5
90A	2,2	1000-6000	85,9	16	380-500	4,2	8,5	50-60	0,9	1,5
100	3,0	1000-6000	86,8	25,5	380-500	5,7	11,5	50-60	0,9	1,5
100L	4,0	1000-6000	88,4	28,5	380-500	7,3	14,7	50-60	0,9	1,5
112	4,0	1000-6000	88,4	31,5	380-500	7,3	14,7	50-60	0,9	1,5
112L	5,5	1000-6000	89,5	33,5	380-500	10,0	20,1	50-60	0,9	1,5
132	7,5	1000-6000	90,0	45	380-500	13,6	27,2	50-60	0,9	1,5
132L	11,0	1000-6000	91,4	48	380-500	19,7	39,3	50-60	0,9	1,5

1) nom. Speed can be ordered between 1000 ... 6000 rpm in 500 rpm steps
3) In, Imax at 400V grid voltage

2) At 3000 rpm
4) for 1 min during 10 minutes

ACC™ - Terminal Box Connections¹

X11	X12	X13	GND	X21	X22	X23	X31	X32	X33	X41	X42
U	V	W	GND	10V	Ref.	GND	Flt-O	COM	Flt-C	En1	En2
AC-Power Input			Speed Reference 4 – 20 mA			Fault Relais			Enable		

4) – Additional Control Options (Serial Interface) by optional board, placed in the Terminal Box

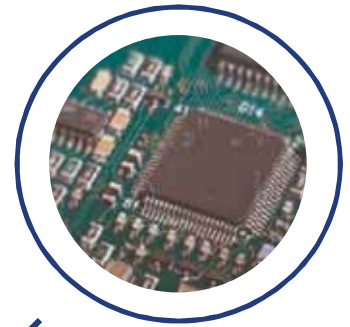
ACC™: PREMIUM-EFFICIENCY AC-MOTOR WITH VARIABLE SPEED

INTEGRATION

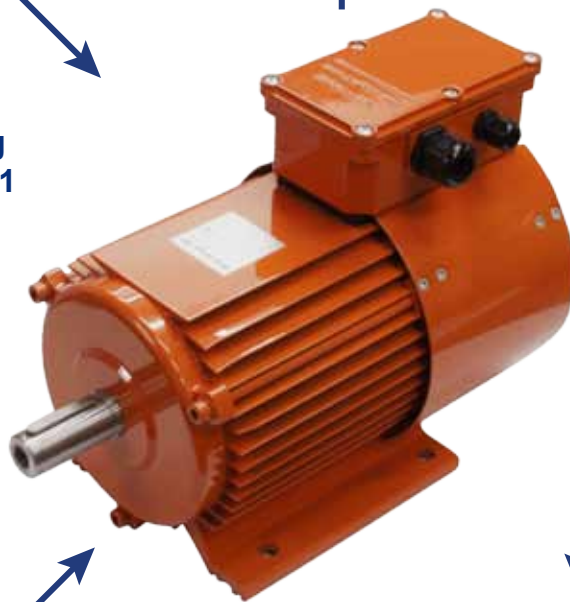
ACC DRIVE: high efficiency at lowest weight, low space and best price on the market integrated in standard motor frame



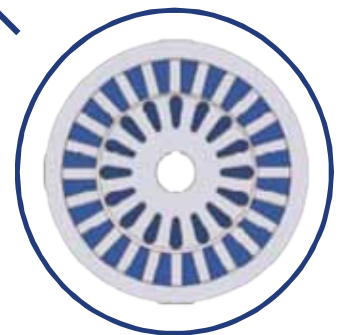
Standard frame-size simplify the replacing of the low-efficient IE1 motor whit the ACC motor



The build-in control, communication and standard frame size simplify the installation, the high-efficiency and variable speed reduce significant energy costs

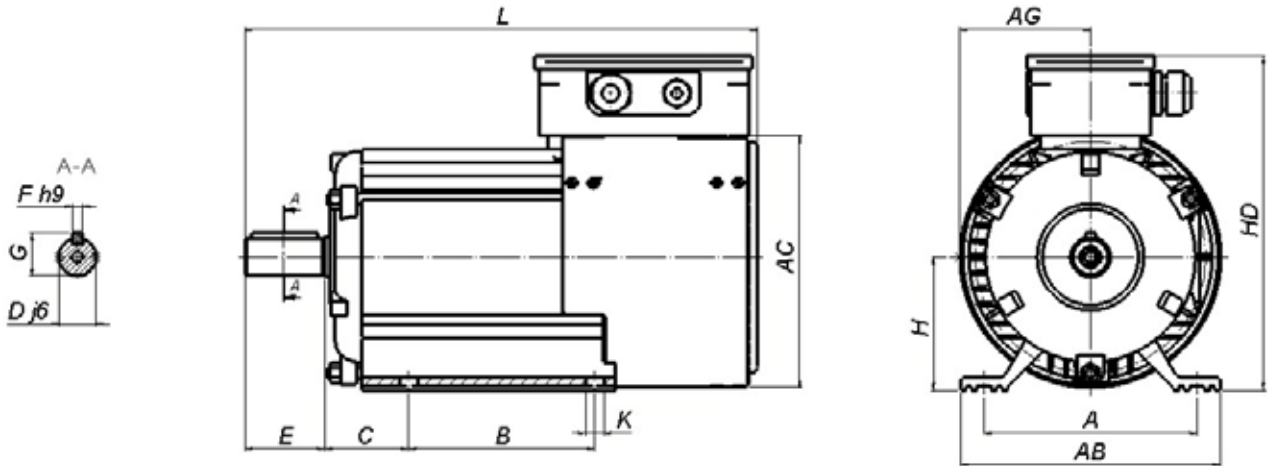


Speed reference, fault detection, communication, interfaces and more options build in the standard size



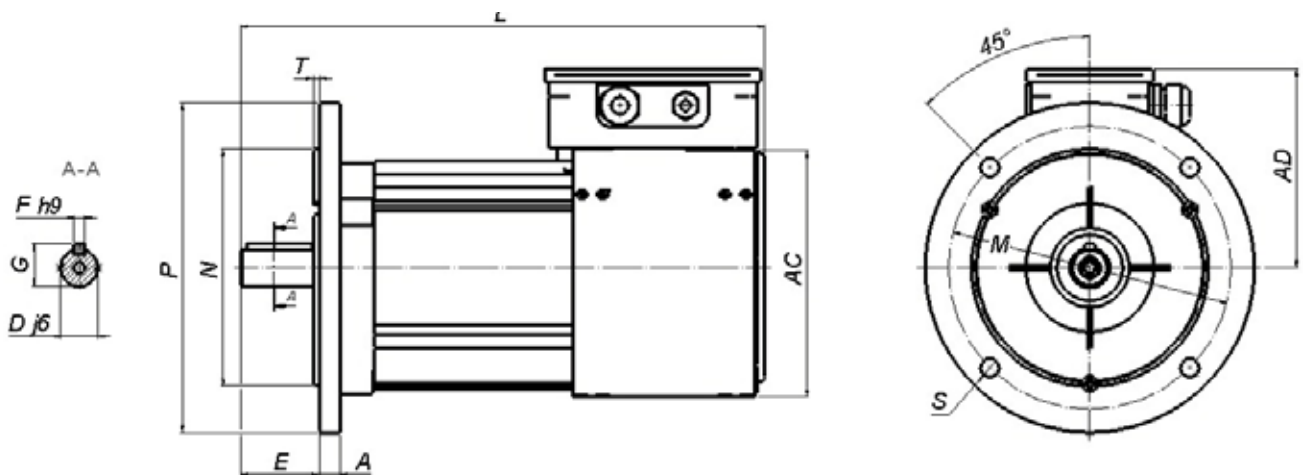
Optimized AC-active part 20% less losses, less weight and costs in compare to IE2 Motors

ACC™ - Dimensions



Foot Motor B3 B6 B7 B8

Frame	A	AB	AC	AG	B	C	D	E	F	G	H	HD	K	L
90	140	184	178	89	100	56	24	50	8	27	90	229	10	355
90L	140	184	178	89	125	56	24	50	8	27	90	229	10	380
90A	140	184	178	89	125	56	24	50	8	27	90	229	10	417
100	160	195	196	98	140	63	28	60	8	31	100	251	12	432
100L	160	195	196	98	140	63	28	60	8	31	100	251	12	454
112	190	220	220	110	140	70	28	60	8	31	112	275	12	442
112L	190	220	220	110	140	70	28	60	8	31	112	275	12	464
132	216	270	284	142	178	89	38	80	10	41	132	327	12	569



Flange Motor B5

Frame	A	AC	AD	D	E	F	G	L	M	N	P	S	T
90	11.5	178	139	24	50	8	27	355	165	130	200	12	3
90L	11.5	178	139	24	50	8	27	380	165	130	200	12	3
90A	11.5	178	139	24	50	8	27	417	165	130	200	12	3
100	15.5	196	151	28	60	8	31	432	215	180	250	15	4.5
100L	15.5	196	151	28	60	8	31	454	215	180	250	15	4.5
112	15.5	220	163	28	60	8	31	442	215	180	250	15	3.5
112L	15.5	220	163	28	60	8	31	464	215	180	250	15	3.5
132	20.7	284	195	38	80	10	41	569	265	230	300	15	3.3

All dimensions in mm