



OLMO

Catalogue

A story that
started 80 years ago.
Ready for the next
chapter?

2021

EC072

energy saving and
environmental
friendly

Our Products

OLMO is engaged with passion and dedication to bring best solutions to the commercial refrigeration market, focusing on **technological innovation** and on the **achievement of high quality standards** to better meet the customers

requirements. Our attention in the development and design of motors drives us to constantly seek new solutions that can improve efficiency, **optimize energy consumption and reduce noise**.

EC072 compact form factor has been **specially designed for the commercial refrigeration** market and can be easily placed in any type of application.

The small dimensions and mounting options enable simple replacement without changes, structure modifications or any other extra effort.

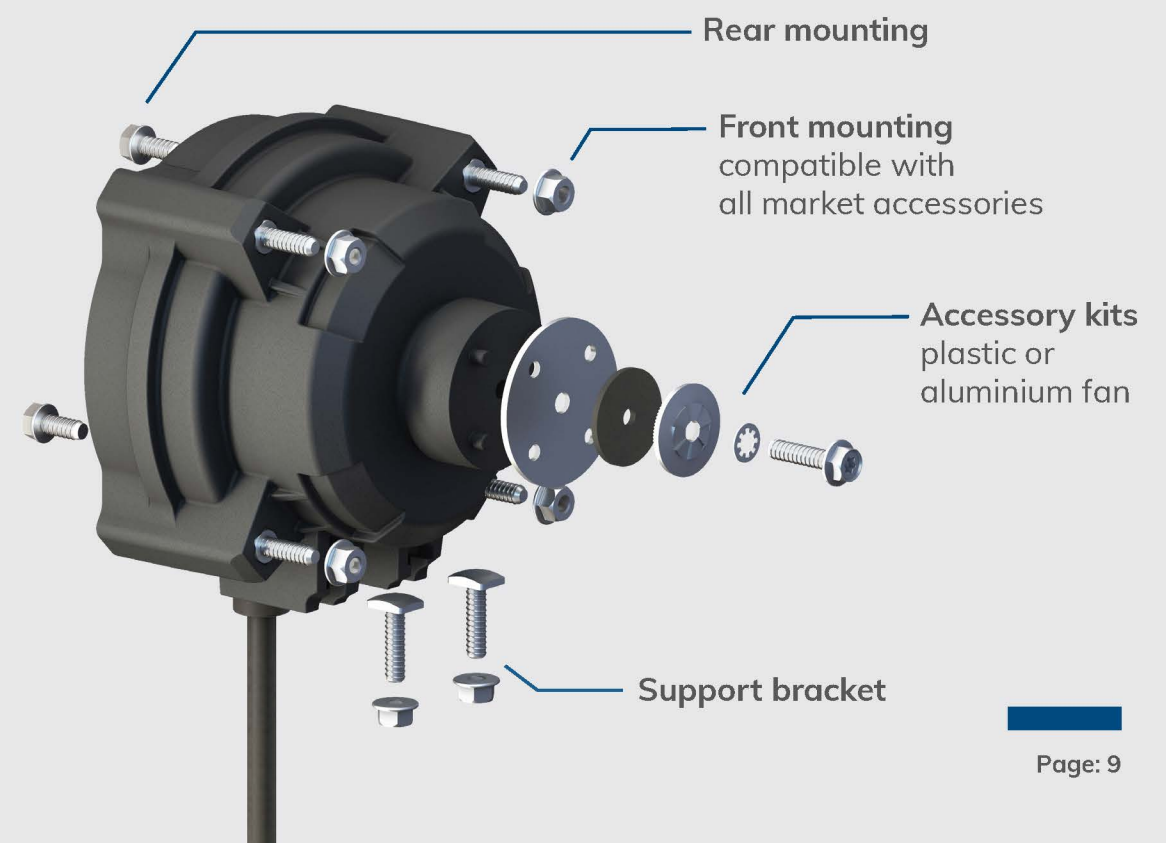
- **Versatility:** EC072 has all the fixing used in the market, with rear threaded holes, front ring or metal grille fixed in front of the motor by means of threaded screws and its strength lies in the fixing bracket with special screws;

- **Integrated Feet:** the integrated feet allow a quick and easy fixing in place of the traditional motors installed;

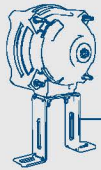
- **Accessories:** The accessories are housed in the front part by means of a plastic adapter and fixed with an M4 screw. The fixing has an anti-unscrewing and anti-skid system.

- **Just one design** is compatible with the entire range of impellers from Ø154 to Ø300.

overview



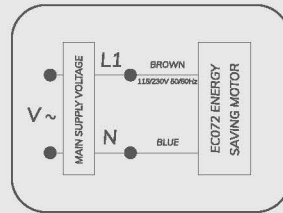
EC072 Electronic Motor



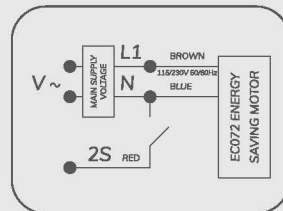
Description

Electric diagram

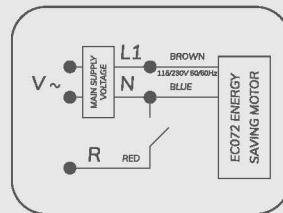
EC072FS Speed pre-set by OLMO.



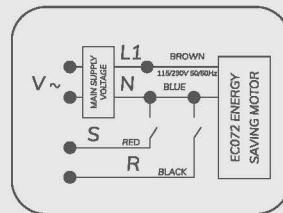
EC072DS 2 speeds pre-set by OLMO



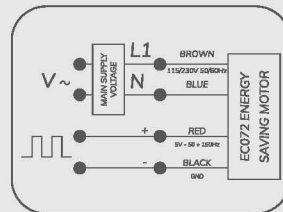
EC072RS Reversible



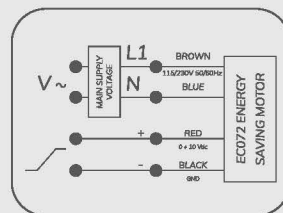
EC072RDS 2 speeds pre-set by OLMO plus reversible speed



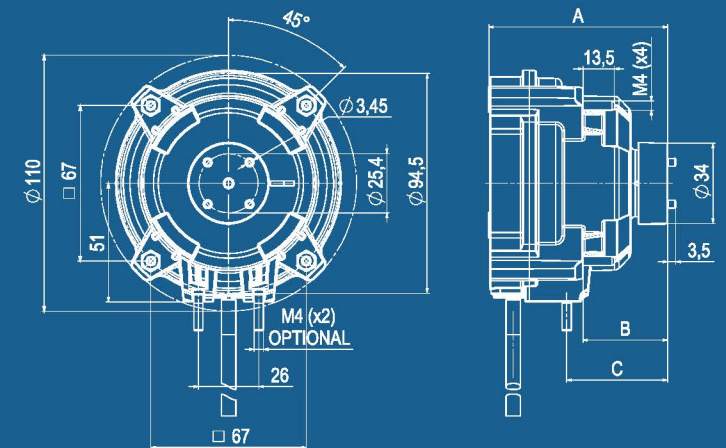
EC072VS Full control in frequency



EC072VD Full control 0 – 10 Vdc.



TECHNICAL DATA



MEASURES

TYPE	A	B	C
EC072 H.12	77	36,5	43,5
EC072 H.20	85	36,5	43,5

GENERAL DATA

SPECIFICATIONS

	EC072 H.12	EC072 H.20
Input Voltage range	230V±10%, 50/60Hz 115V±10%, 50/60Hz 100V/240V, 50/60Hz	230V±10%, 50/60Hz 115V±10%, 50/60Hz 100V/240V, 50/60Hz
Output power range	From 5 to 13W	From 13 to 20W
Speed range	900-1850 Rpm	900-1850 Rpm
Max. Input power	20W	30W
Max. Input power	150mA	220mA
EMC Protection / Noise	EN61000-6-2 / UNI EN ISO 3741	EN61000-6-2 / UNI EN ISO 3741
Covers / IP Rating	Plastic / IP64	Plastic / IP64
Thermal Protection	Electronic Protection	Electronic Protection
Software Protection	Locked Rotor	Locked Rotor
Operating Temp. range	-30°C / +50°C	-30°C / +50°C
Weight	0,5 kg	0,7 kg
Certifications	CE, ATEX	CE, ATEX

Torque test

Type: EC072 H.12

Type: EC072 H.20

900 Rpm

1300 Rpm

Rpm	Tq	A	W _{in}	W _{out}	Eff %
906	0,066	0,018	2,12	0,61	29,0
906	0,100	0,020	2,53	0,93	36,8
906	0,200	0,029	3,83	1,86	48,6
906	0,300	0,039	5,33	2,79	52,4
906	0,400	0,050	6,95	3,72	53,6
906	0,500	0,063	8,85	4,65	52,6
906	0,600	0,078	10,77	5,58	51,8
906	0,700	0,092	13,04	6,51	49,9
906	0,800	0,108	15,42	7,44	48,3
903	0,900	0,128	18,01	8,35	46,3
780	0,9050	0,124	17,27	7,25	42,0
683	0,910	0,121	16,62	6,38	38,4
550	0,913	0,115	15,66	5,16	32,9

Rpm	Tq	A	W _{in}	W _{out}	Eff %
1304	0,068	0,022	2,67	0,91	34,1
1305	0,100	0,025	3,23	1,34	41,5
1305	0,200	0,036	4,86	2,68	55,2
1305	0,300	0,048	6,75	4,02	59,6
1305	0,400	0,063	8,94	5,36	60,0
1305	0,500	0,078	11,07	6,70	60,5
1305	0,600	0,094	13,55	8,04	59,3
1305	0,700	0,112	16,15	9,38	58,1
1280	0,800	0,133	18,91	10,52	55,6
1185	0,850	0,138	19,65	10,34	52,6
800	0,900	0,127	17,57	7,39	42,1

900 Rpm

1300 Rpm

Rpm	Tq	A	W _{in}	W _{out}	Eff %
901	0,042	0,019	2,10	0,39	18,5
901	0,100	0,025	2,82	0,93	32,8
901	0,200	0,033	4,15	1,85	44,6
901	0,300	0,046	5,51	2,78	50,4
901	0,400	0,053	7,11	3,70	52,1
901	0,500	0,064	8,75	4,63	52,9
901	0,600	0,078	10,62	5,55	52,3
901	0,700	0,093	12,67	6,48	51,1
901	0,800	0,108	14,84	7,40	49,9
901	0,900	0,126	17,08	8,33	48,8
901	1,0000	0,141	19,46	9,25	47,6
901	1,100	0,166	22,30	10,18	45,6
901	1,200	0,189	25,00	11,10	44,4
901	1,300	0,210	26,85	12,03	44,8
850	1,287	0,209	26,40	11,23	42,6
800	1,287	0,209	25,50	10,57	41,5

Rpm	Tq	A	W _{in}	W _{out}	Eff %
1301	0,057	0,025	2,86	0,76	26,6
1301	0,100	0,029	3,53	1,34	37,9
1301	0,200	0,039	5,12	2,67	52,2
1301	0,300	0,051	6,93	4,01	57,8
1301	0,400	0,064	8,86	5,34	60,3
1301	0,500	0,078	11,00	6,68	60,7
1301	0,600	0,093	13,03	8,02	61,5
1301	0,700	0,110	15,38	9,35	60,8
1301	0,800	0,129	17,84	10,69	59,9
1301	0,900	0,149	20,33	12,03	59,1
1301	1,000	0,170	23,13	13,36	57,8
1301	1,100	0,199	26,34	14,70	55,8
1300	1,150	0,214	28,42	15,35	54,0
1275	1,160	0,214	28,78	15,19	52,8
1210	1,200	0,218	28,85	14,91	51,7
1000	1,298	0,220	27,83	13,33	47,9

1400 Rpm

1850 Rpm

Rpm	Tq	A	W _{in}	W _{out}	Eff %
1405	0,069	0,022	2,78	1,00	35,8
1405	0,100	0,026	3,31	1,44	43,6
1405	0,200	0,038	5,13	2,89	56,3
1405	0,300	0,051	7,14	4,33	60,6
1405	0,400	0,066	9,27	5,77	62,3
1405	0,500	0,082	11,61	7,21	62,1
1405	0,600	0,100	14,35	8,66	60,3
1378	0,700	0,123	17,02	9,91	58,2
1300	0,800	0,137	19,05	10,68	56,1
1190	0,850	0,144	19,58	10,39	53,1
825	0,900	0,127	17,54	7,63	43,5

Rpm	Tq	A	W _{in}	W _{out}	Eff %
1856	0,070	0,030	3,69	1,33	36,2
1855	0,100	0,033	4,26	1,91	44,7
1855	0,200	0,050	6,70	3,81	56,9
1855	0,300	0,066	9,05	5,72	63,2
1728	0,400	0,079	11,10	7,10	64,0
1635	0,450	0,085	12,16	7,56	62,1
1570	0,500	0,092	13,05	8,06	61,8
1510	0,550	0,100	14,26	8,53	59,8
1460	0,600	0,105	15,11	9,00	59,5
1395	0,650	0,112	16,30	9,31	57,1
1375	0,7000	0,122	17,40	9,88	56,8
1305	0,800	0,134	19,19	10,72	55,9
1197	0,850	0,139	19,95	10,45	52,4
1010	0,880	0,133	18,94	9,13	48,2

1400 Rpm

1850 Rpm

Rpm	Tq	A	W _{in}	W _{out}	Eff %
1401	0,051	0,025	2,82	0,73	26,0
1401	0,100	0,032	3,58	1,44	40,2
1401	0,200	0,043	5,35	2,88	53,8
1401	0,300	0,054	7,32	4,32	59,0
1401	0,400	0,069	9,47	5,76	60,8
1401	0,500	0,083	11,72	7,19	61,4
1401	0,600	0,100	14,05	8,63	61,4
1401	0,700	0,120	16,53	10,07	60,9
1401	0,800	0,141	19,23	11,51	59,9
1401	0,900	0,162	22,05	12,95	58,7
1401	1,000	0,190	25,23	14,39	57,0
1355	1,050	0,201	26,40	14,61	55,3
1325	1,100	0,207	27,37	14,97	54,7
1150	1,230	0,227	29,02	14,53	50,1
1000	1,275	0,222	27,91	13,09	46,9
900	1,285	0,218	26,87	11,88	44,2

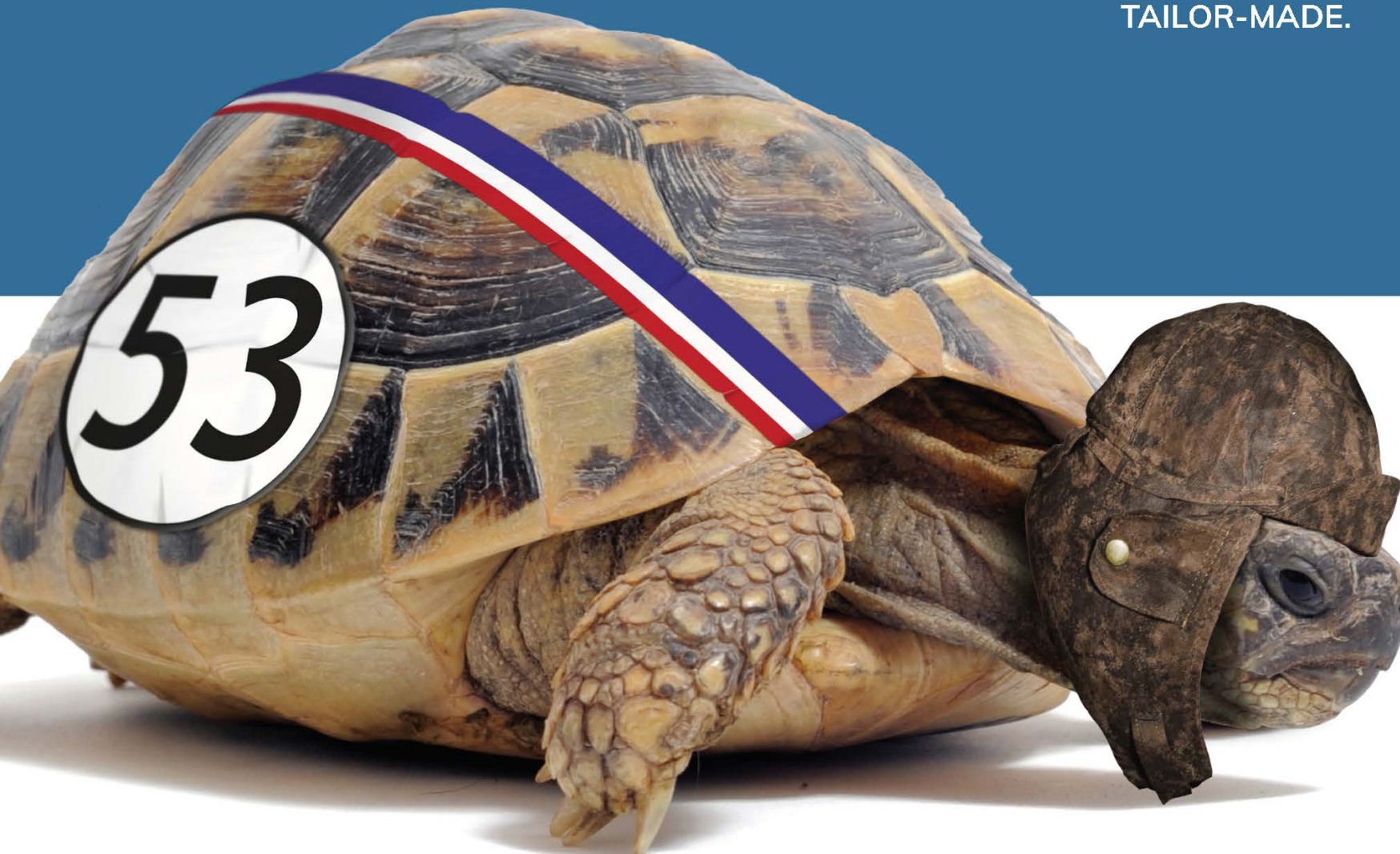
Rpm	Tq	A	W _{in}	W _{out}	Eff %
1856	0,045	0,031	3,50	0,86	24,5
1855	0,100	0,038	4,80	1,91	39,7
1855	0,200	0,054	7,00	3,81	54,4
1855	0,300	0,072	10,10	5,72	56,6
1855	0,400	0,090	12,66	7,62	60,2
1855	0,500	0,109	15,13	9,53	63,0
1855	0,600	0,128	18,07	11,43	63,3
1835	0,650	0,142	19,35	12,25	63,3
1755	0,700	0,150	20,39	12,62	61,9
1635	0,800	0,161	22,14	13,43	60,7
1530	0,9000	0,178	23,97	14,14	59,0
1430	1,000	0,193	26,07	14,69	56,3
1325	1,100	0,212	27,64	14,97	54,2
1185	1,200	0,223	28,70	14,60	50,9
1025	1,250	0,225	28,02	13,16	47,0

READY, STEADY...

GO!

**YOU NEED THE
RIGHT SPEED.**

YOU BETTER CHOOSE OLMO!



**KEY WORDS?
FLEXIBILITY AND
TAILOR-MADE.**

The solutions offered by OLMO are extremely flexibles. We want to fulfill our customers' specific needs, committing to their philosophy and to the latest market trends. OLMO aims to the maximum attention to detail trying to offer customized elements.

OLMO invested in innovative technologies, destined to improve consistently the performance of its products, optimizing energy consumption and fully respecting the environment.

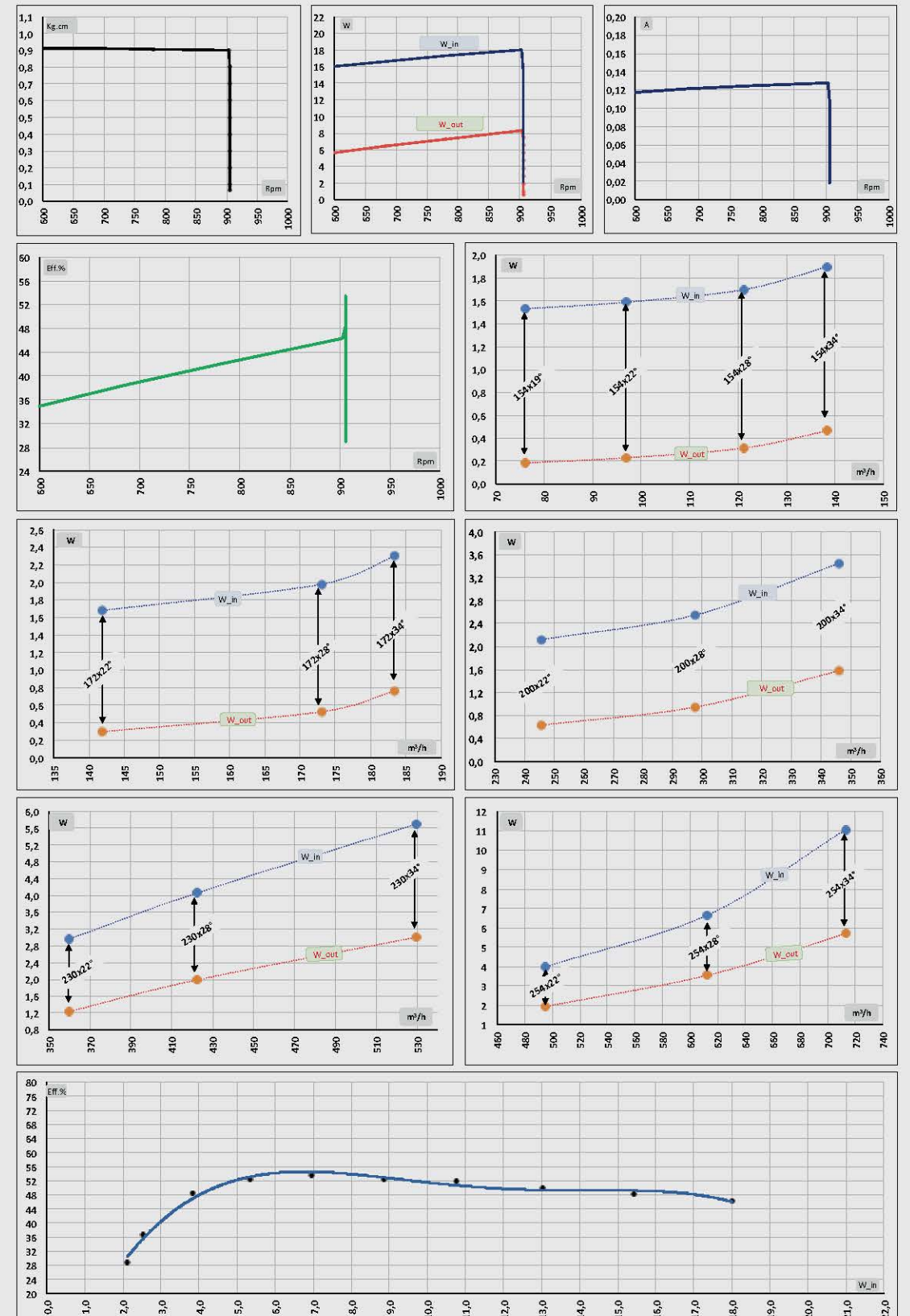


Motor type EC072 H.12



900 Rpm

EC072 H.12			mA	W_{in}	W_{out}	$\cos \phi$	Rpm	m^3/h
EC072 H.12	154	19°	12,2	1,53	0,18	0,545	900	76
		22°	12,6	1,59	0,23	0,549	900	97
		28°	13,6	1,70	0,31	0,543	900	121
		34°	14,6	1,90	0,47	0,566	900	138
	172	22°	12,8	1,68	0,30	0,571	900	142
		28°	15,3	1,98	0,53	0,563	900	173
		34°	17,5	2,30	0,76	0,571	900	187
	200	22°	16,2	2,12	0,63	0,569	900	246
		28°	19,0	2,55	0,95	0,584	900	298
		34°	24,9	3,45	1,58	0,602	900	346
	230	22°	22,0	2,95	1,23	0,583	900	360
		28°	29,3	4,06	1,99	0,602	900	422
34°		40,5	5,70	3,01	0,612	900	530	
254	22°	27,8	3,99	1,94	0,624	900	495	
	28°	48,2	6,66	3,55	0,601	900	613	
	34°	80,1	11,07	5,70	0,601	900	713	

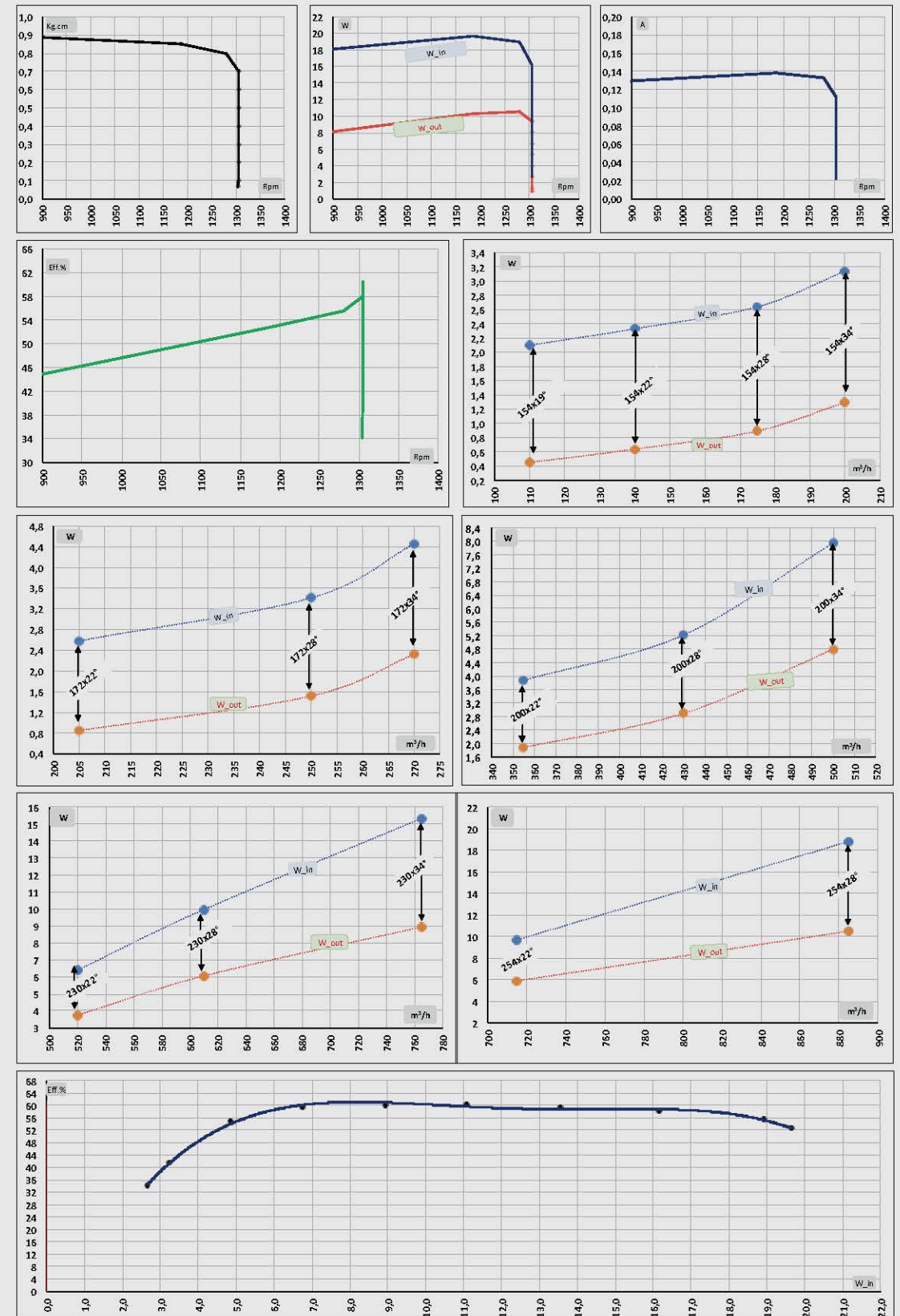


Motor type EC072 H.12



1300 Rpm

EC072 H.12			mA	W_{in}	W_{out}	$\cos \phi$	Rpm	m^3/h
EC072 H.12	154	19°	15,6	2,10	0,45	0,585	1300	110
		22°	17,4	2,33	0,64	0,582	1300	140
		28°	19,1	2,64	0,89	0,601	1300	175
		34°	22,8	3,14	1,30	0,599	1300	200
	172	22°	18,3	2,58	0,84	0,613	1300	205
		28°	25,0	3,41	1,51	0,593	1300	250
		34°	32,1	4,45	2,32	0,603	1300	270
	200	22°	28,1	3,87	1,87	0,599	1300	355
		28°	36,5	5,22	2,89	0,622	1300	430
		34°	54,1	7,95	4,79	0,639	1300	500
	230	22°	45,2	6,40	3,74	0,616	1300	520
		28°	68,8	9,96	6,05	0,629	1300	610
34°		104,5	15,33	8,94	0,638	1300	765	
254	22°	63,9	9,69	5,89	0,659	1300	715	
	28°	128,1	18,81	10,49	0,638	1300	885	

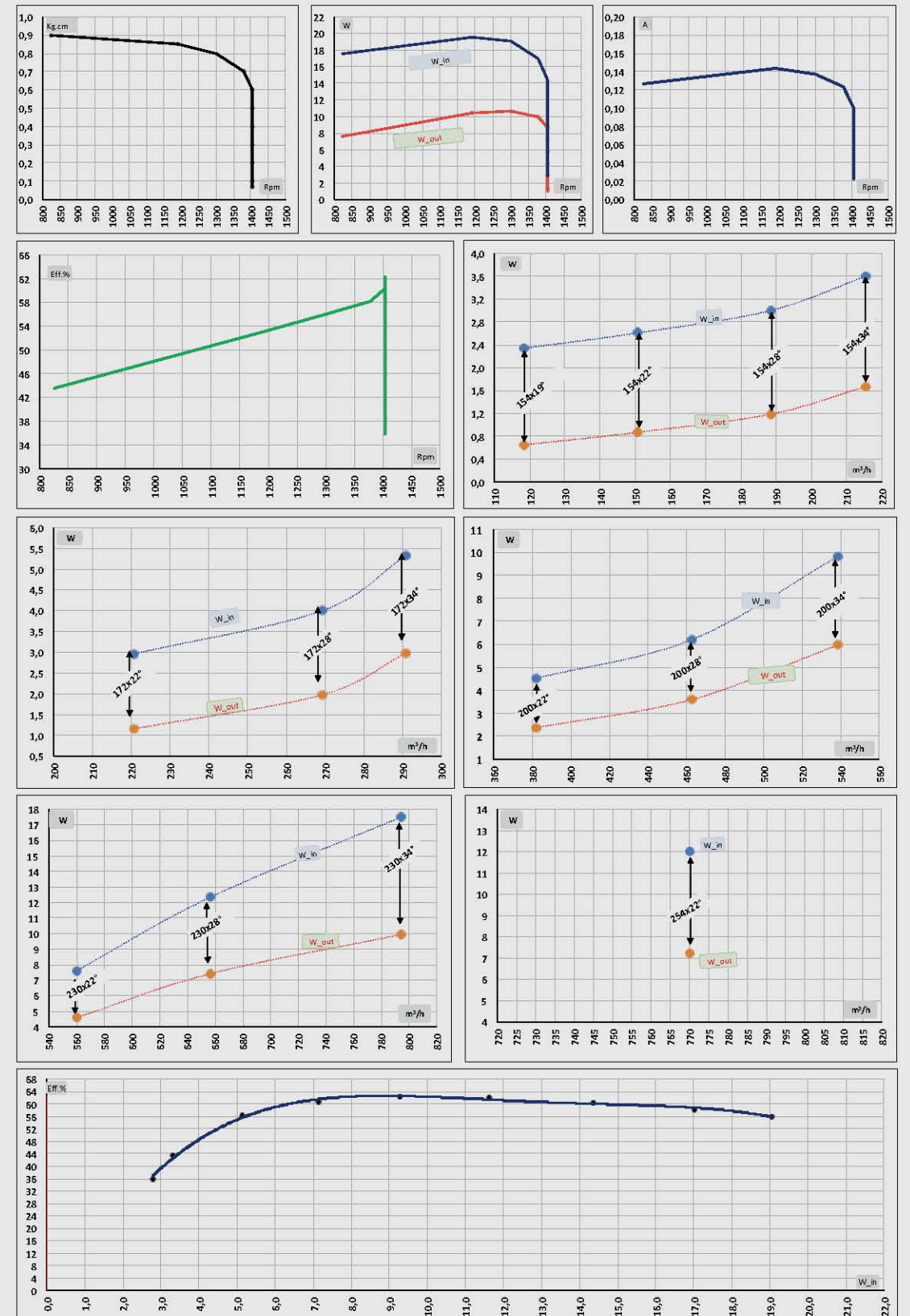


Motor type EC072 H.12



1400 Rpm

EC072 H.12			mA	W_{in}	W_{out}	$\cos \phi$	Rpm	m^3/h
154	19°	17,1	2,34	0,65	0,595	1400	118	
		19,0	2,61	0,87	0,597		151	
		21,0	3,00	1,19	0,621		188	
		25,3	3,60	1,66	0,619		215	
172	22°	20,5	2,96	1,15	0,628	1400	221	
		28,6	4,00	1,97	0,608		269	
		37,8	5,33	2,97	0,613		291	
200	22°	32,1	4,52	2,37	0,612	1400	382	
		43,0	6,21	3,61	0,628		463	
		65,9	9,82	5,97	0,648		538	
230	22°	53,3	7,62	4,57	0,622	1400	560	
		82,5	12,35	7,42	0,651		657	
		118,8	17,50	9,93	0,640		794	
254	22°	79,1	12,00	7,23	0,660	1400	770	

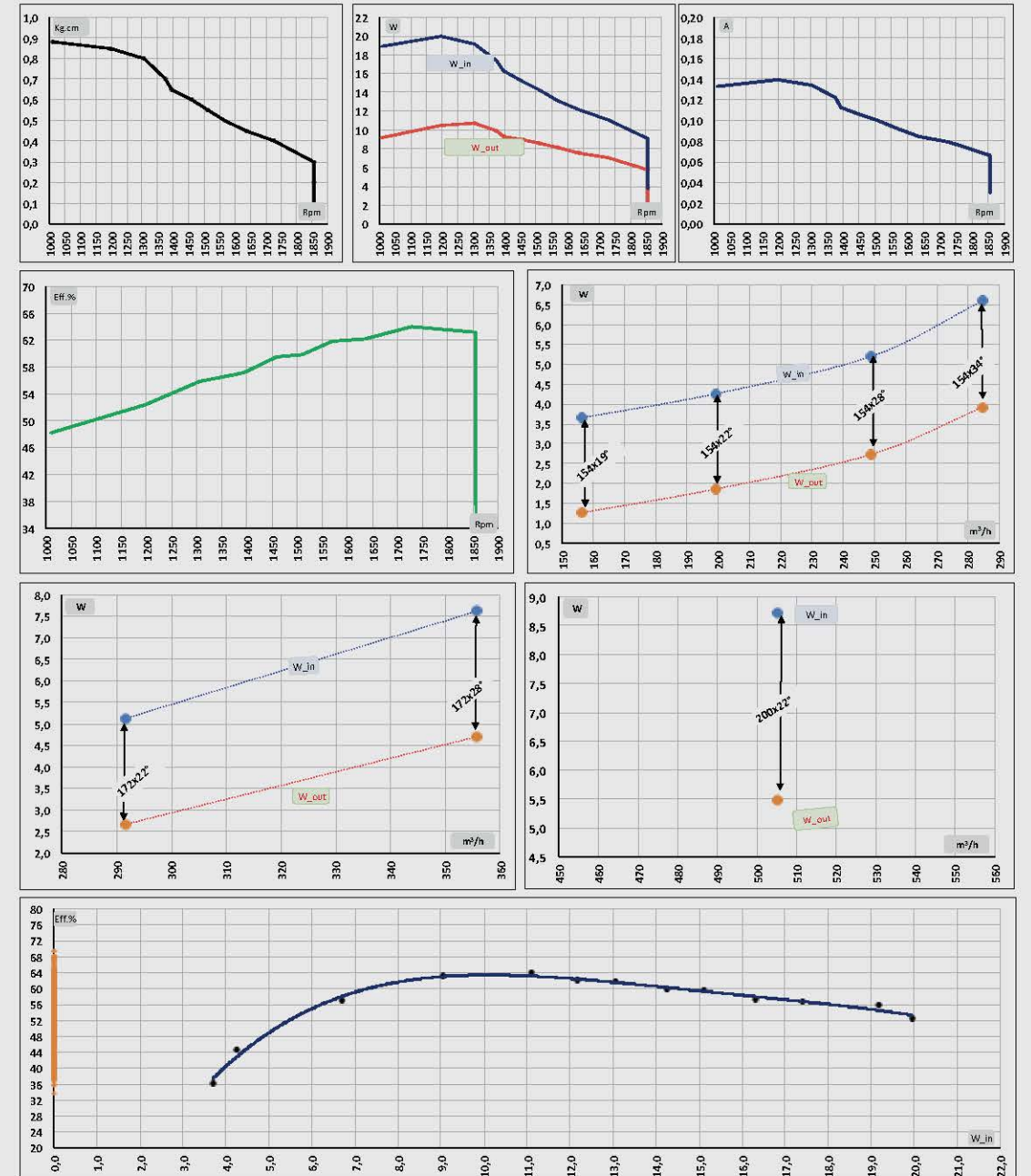


Motor type EC072 H.12



1850 Rpm

			mA	W_{in}	W_{out}	$\cos \phi$	Rpm	m^3/h
EC072 H.12	154	19°	25,3	3,65	1,26	0,627	1850	157
		22°	29,5	4,26	1,86	0,628	1850	199
		28°	36,0	5,20	2,73	0,628	1850	249
		34°	44,6	6,60	3,92	0,643	1850	285
	172	22°	33,8	5,13	2,67	0,660	1850	292
		28°	52,2	7,62	4,70	0,635	1850	356
	200	22°	60,3	8,72	5,48	0,629	1850	505

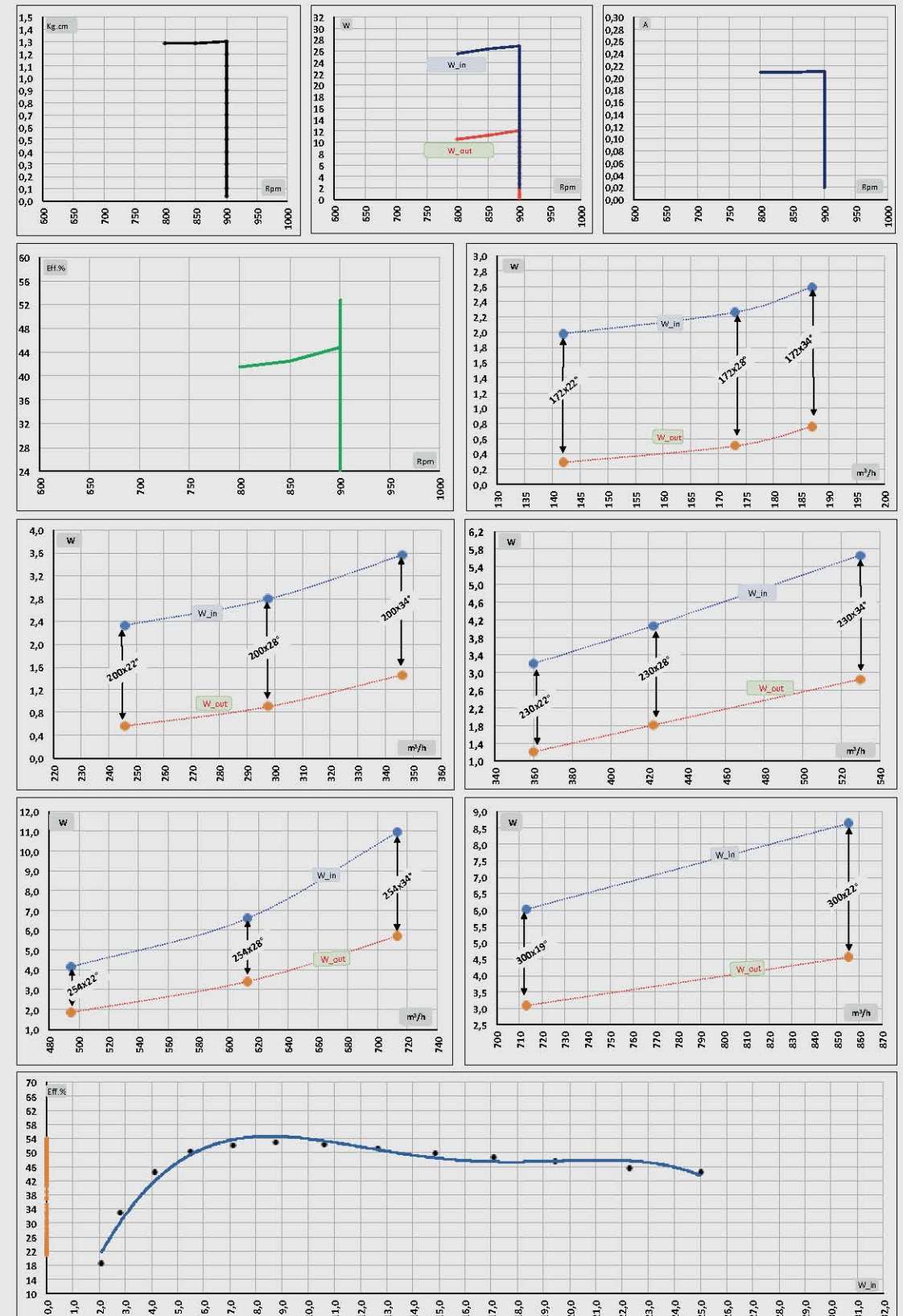


Motor type EC072 H.20



900 Rpm

EC072 H.20			mA	W_{in}	W_{out}	$\cos \phi$	Rpm	m^3/h
172	22°		15,7	1,98	0,29	0,548	900	142
	28°		18,3	2,26	0,50	0,537	900	173
	34°		21,2	2,59	0,75	0,531	900	187
200	22°		18,7	2,33	0,56	0,542	900	246
	28°		22,9	2,79	0,90	0,530	900	298
	34°		27,9	3,56	1,46	0,555	900	346
230	22°		24,7	3,20	1,20	0,563	900	360
	28°		31,2	4,07	1,82	0,567	900	422
	34°		44,4	5,66	2,85	0,554	900	530
254	22°		32,3	4,15	1,87	0,559	900	495
	28°		50,1	6,61	3,43	0,574	900	613
	34°		79,1	10,95	5,71	0,602	900	713
300	19°		46,7	6,02	3,08	0,560	900	713
	22°		62,2	8,64	4,56	0,604	900	855

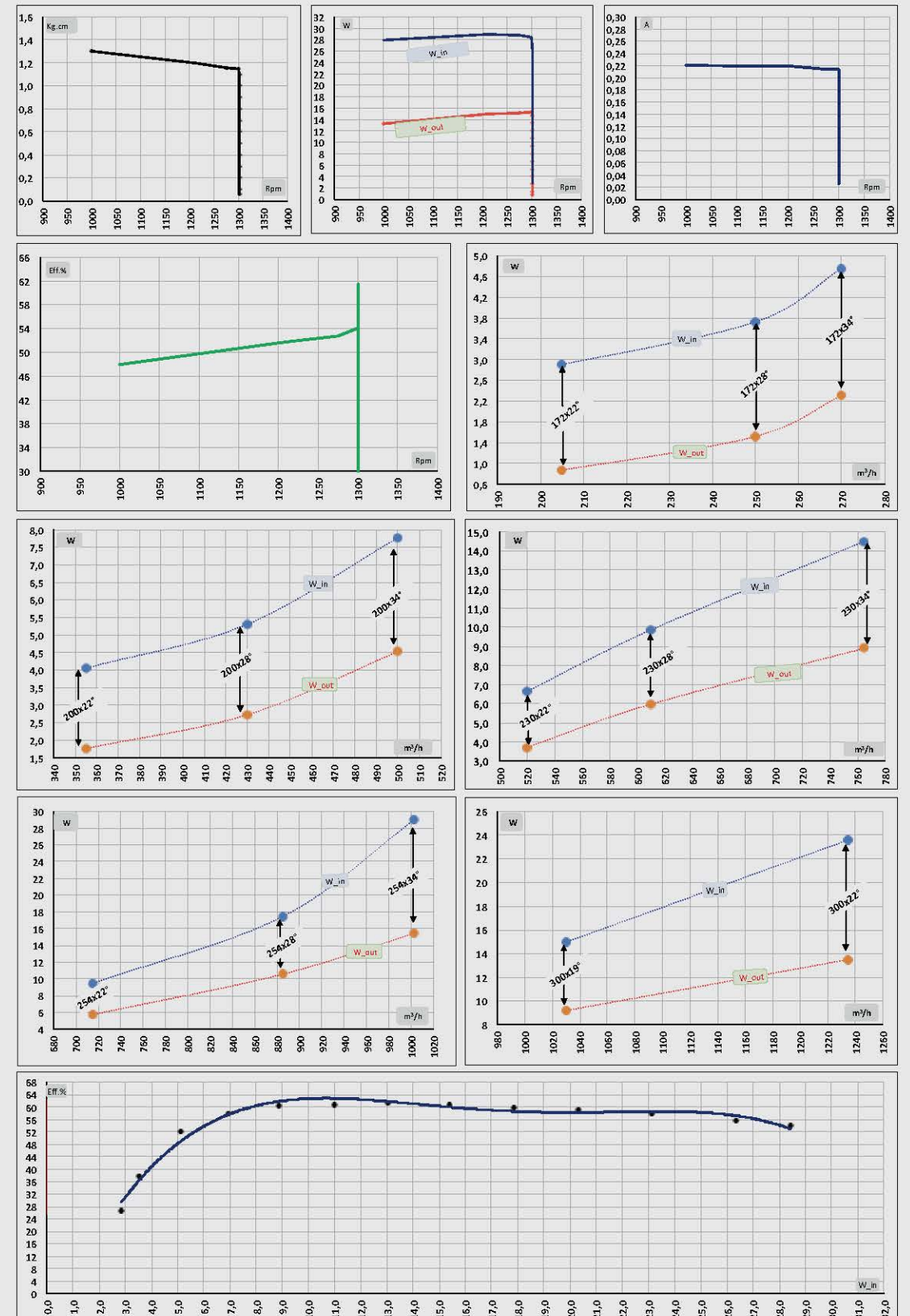


Motor type EC072 H.20



1300 Rpm

EC072 H.20			mA	W_{in}	W_{out}	$\cos \phi$	Rpm	m^3/h
172	22°		22,4	2,90	0,87	0,563	1300	205
	28°		28,7	3,73	1,52	0,565	1300	250
	34°		35,8	4,76	2,31	0,578	1300	270
200	22°		30,7	4,05	1,77	0,574	1300	355
	28°		40,1	5,31	2,73	0,576	1300	430
	34°		56,3	7,77	4,53	0,600	1300	500
230	22°		47,8	6,64	3,71	0,604	1300	520
	28°		68,6	9,86	5,97	0,625	1300	610
	34°		100,9	14,49	8,90	0,625	1300	765
254	22°		66,6	9,46	5,70	0,618	1300	715
	28°		121,2	17,46	10,58	0,626	1300	885
	34°		206,9	28,99	15,45	0,609	1265	1002
300	19°		103,8	14,95	9,17	0,626	1300	1030
	22°		167,1	23,62	13,51	0,615	1300	1235

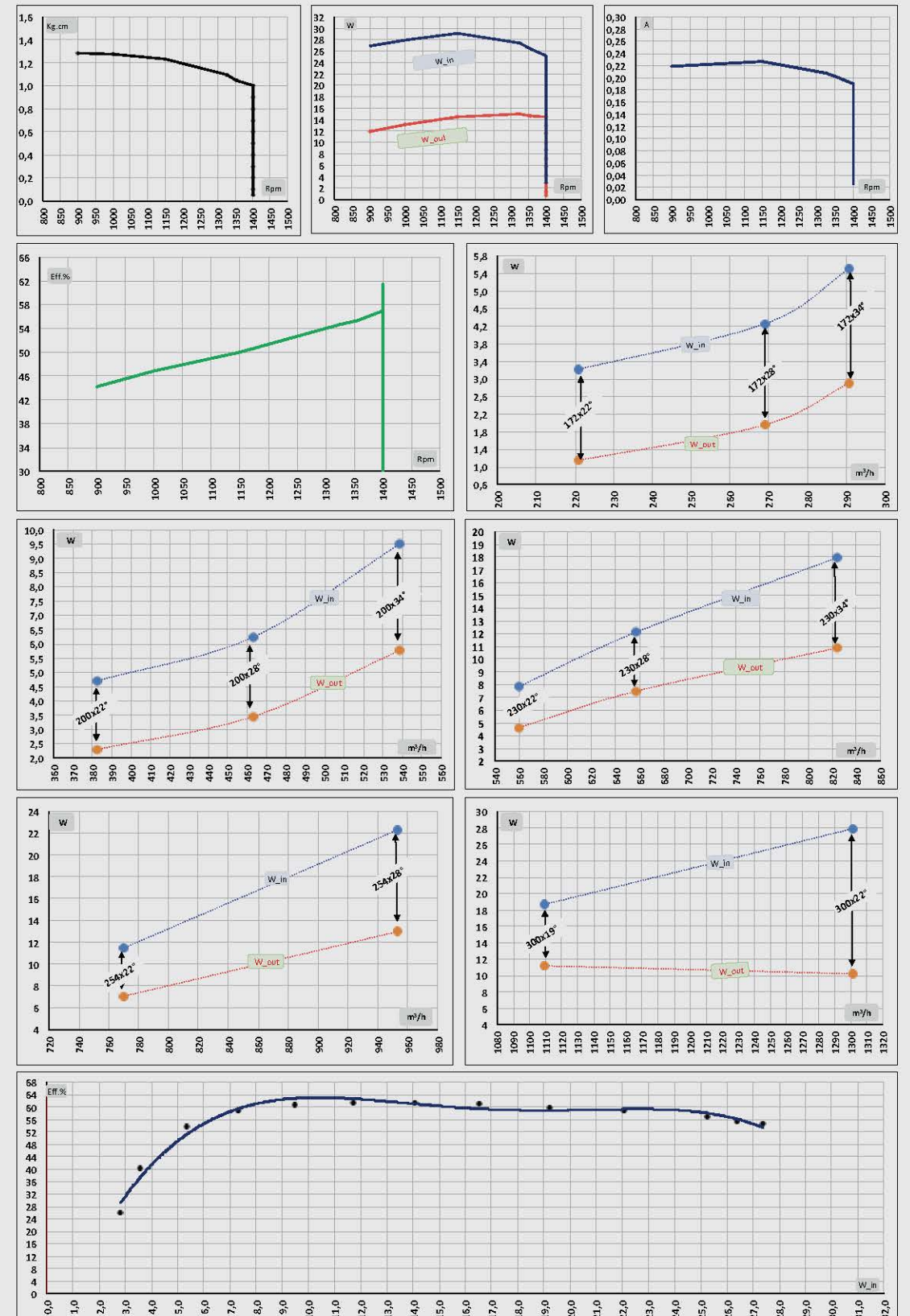


Motor type EC072 H.20



1400 Rpm

EC072 H.20			mA	W_{in}	W_{out}	$\cos \phi$	Rpm	m^3/h
172	22°	24,7	3,22	1,14	0,567	1400	221	
		32,0	4,26	1,96	0,579	1400	269	
		41,0	5,50	2,90	0,583	1400	291	
	28°	35,0	4,70	2,30	0,584	1400	382	
		46,4	6,24	3,46	0,585	1400	463	
		66,6	9,49	5,76	0,620	1400	538	
230	22°	56,1	7,84	4,62	0,608	1400	560	
	28°	84,5	12,10	7,48	0,623	1400	657	
	34°	125,8	17,94	10,87	0,620	1400	824	
254	22°	78,8	11,45	7,06	0,632	1400	770	
	28°	155,1	22,32	12,99	0,626	1400	953	
300	19°	129,2	18,63	11,22	0,627	1400	1109	
	22°	195,0	27,93	10,20	0,623	1370	1302	

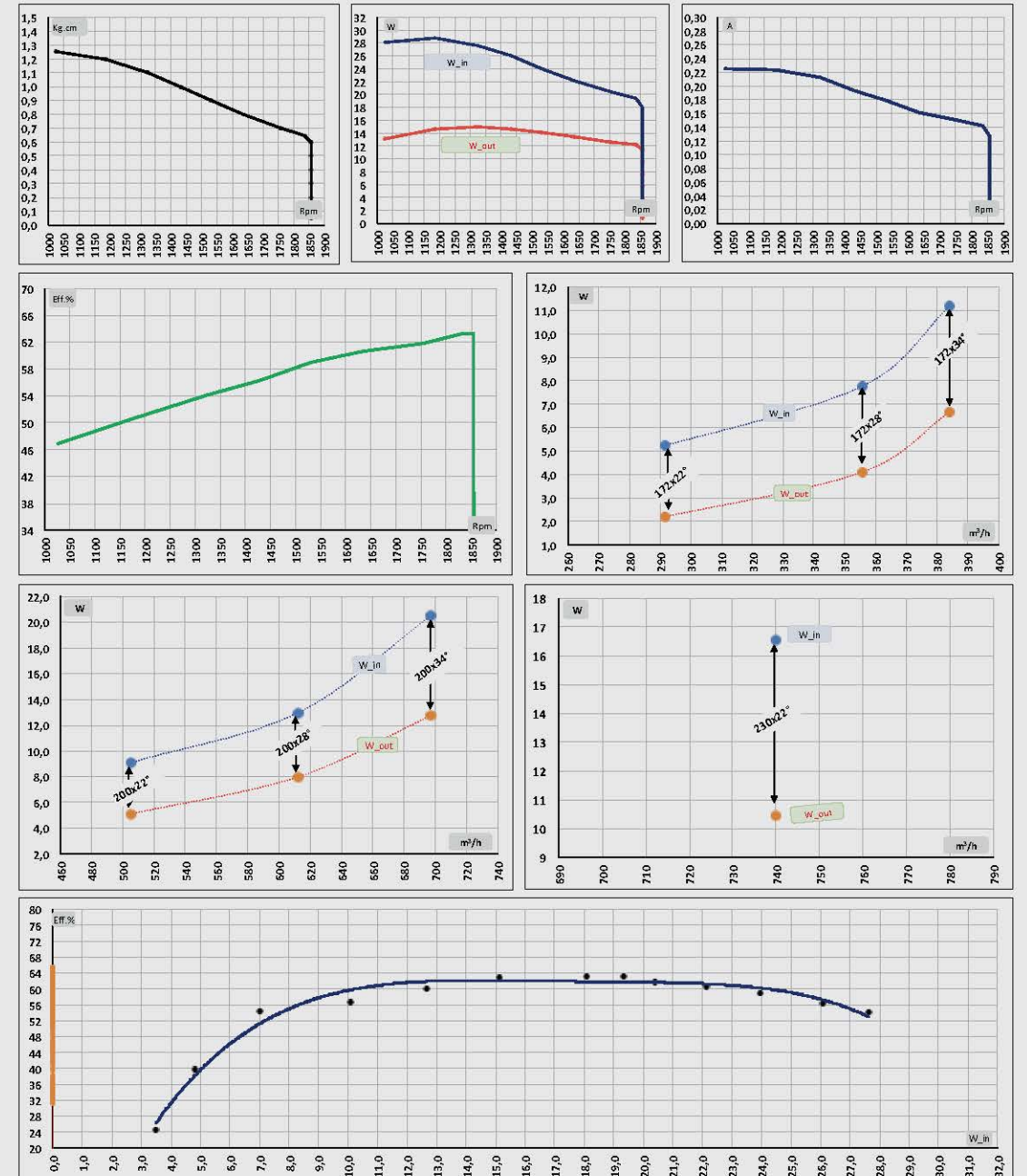


Motor type EC072 H.20



1850 Rpm

			mA	W_{in}	W_{out}	$\cos \phi$	Rpm	m^3/h
EC072 H.20	172	22°	38,7	5,23	2,21	0,588	1850	292
		28°	55,7	7,78	4,11	0,607	1850	356
		34°	80,7	11,20	6,69	0,603	1850	384
	200	22°	64,2	9,09	5,11	0,616	1850	505
		28°	91,2	12,95	7,98	0,617	1850	612
		34°	141,7	20,47	12,71	0,628	1812	697
	230	22°	116,1	16,56	10,46	0,620	1850	740





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