

CV



External electric pumps CV

vertical multistage



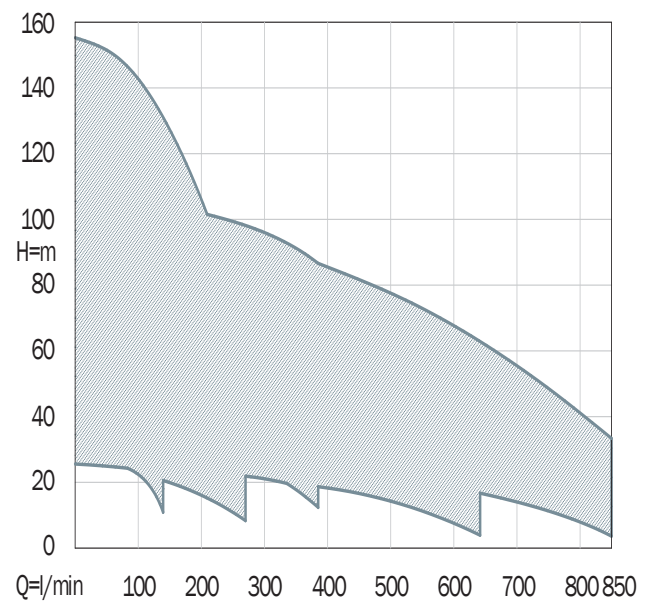
APPLICATION

- To pump water from reservoirs or tanks
- To pressurize civil, agricultural and industrial plants
- Irrigation
- To feed boilers
- To convey water for heating, cooling and conditioning plants

CHARACTERISTICS

IP rating	IP54
Duty	Continuous S1
Maximum number of starts per hour	20
Maximum temperature of the liquid pumped (°C)	80
PH of the liquid pumped	6 - 10
Suitable for inverter drive	Three-phase versions only

APPLICATION RANGE



CONSTRUCTION

- Coolant filled, asynchronous, rewindable electric AC motor with short circuit rotor. Insulation Class F
- 400 V Motors in efficiency class IE3
- External ventilation


MATERIALS

Suction body and discharge	Mechanical Cast iron EN GJL-200
Pump casing, tie rods, bolts and nuts	Stainless Steel AISI304
Shaft	Stainless Steel AISI420B
Impellers and diffusers	Noryl® reinforced with fibre-glass, certified for drinking water and AISI304 stainless steel wear rings
Coupling	Mechanical Cast iron EN GJL-200
Guide ball bearing	Self-lubricating bronze
Mechanical seal	Graphite and Alumina
Diffuser bush	Anti friction rubber (series 700)



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vertical multistage

PERFORMANCE DATA - 2 poles 60 Hz

Radial impeller 	P2		1~230 V		3~400 V	DNA DNM	Q	Flow															
	hp	kW	A	µF	A			m ³ /h	0	2,4	4,2	5,4	6	7,2	8,4	9	10,2	11,4	13,8	16,2	18	21,6	23,4
								l/min	0	40	70	90	100	120	140	150	170	190	230	270	300	360	390
SERIES 110																							
CV 3/110	1	0,75	4,9	25	1,8	1"½	H (m)	38	35	31	27	25	20	13									
CV 4/110	1,5	1,1	7,4	25	2,9	1"½		51	47	41	36	33	26	18									
CV 6/110	2	1,5			3,3	1"½		76	71	62	54	49	39	26									
CV 9/110	3	2,2			4,85	1"½		114	106	93	81	74	59	39									
CV 12/110	4	3			6	1"½		153	142	124	108	98	78	53									
SERIES 230																							
CV 2/230	1,5	1,1	7,4	25	2,9	1"½	H (m)	28				26	25	23	22	21	19	15	10				
CV 3/230	2	1,5			3,3	1"½		42				39	37	35	34	31	29	23	15				
CV 4/230	3	2,2			4,85	1"½		55				52	50	47	45	42	38	30	20				
CV 6/230	4	3			6	1"½		82				77	74	69	67	62	57	46	30				
CV 8/230	5,5	4			8,4	1"½		112				105	101	94	91	84	78	62	39				
CV 11/230	7,5	5,5			10,1	1"½		152				144	137	126	122	114	104	81	54				
SERIES 330																							
CV 3/330	3	2,2			4,85	1"½	H (m)	43							38	37	36	33	30	27	20	15	
CV 4/330	4	3			6	1"½		58							51	50	48	44	39	35	26	20	
CV 5/330	5,5	4			8,4	1"½		73							65	62	60	56	51	46	33	25	
CV 7/330	7,5	5,5			10,1	1"½		100							87	84	82	76	69	62	45	35	


PERFORMANCE DATA - 2 poles 60 Hz

Radial impeller 	P2		3~400 V	DNA	DNM	Q	Flow													
	hp	kW	A			m ³ /h	0	9	15	18	21	24	27	30	33	36	39	42	48	
						l/min	0	150	250	300	350	400	450	500	550	600	650	700	800	
SERIES 530																				
CV 2/530	4	3	6	2"½	2"	H (m)	29	27	26	24	23	21	19	16	13	9	5			
CV 3/530	5,5	4	8,4	2"½	2"		44	41	38	37	35	32	28	24	19	14	8			
CV 4/530	7,5	5,5	10,1	2"½	2"		58	54	52	50	47	42	37	30	23	16	8			
CV 6/530	10	7,5	14,3	2"½	2"		87	81	76	72	68	63	57	49	40	30	18			
CV 7/530	12,5	9,2	17,7	2"½	2"		102	95	90	85	81	74	66	55	44	32	18			
Semi-axial impeller 	P2		3~400 V	DNA	DNM	Q	Flow													
	hp	kW	A			m ³ /h	0	9	15	18	21	24	27	30	33	36	39	42	48	
						l/min	0	150	250	300	350	400	450	500	550	600	650	700	800	
SERIES 700																				
CV 2/700	5,5	4	8,4	2"½	2"	H (m)	40			33	32	31	29	27	26	23	21	18	11	
CV 3/700	7,5	5,5	10,1	2"½	2"		60			50	48	46	44	41	38	35	31	27	17	
CV 4/700	10	7,5	14,3	2"½	2"		80			66	64	62	59	55	51	46	41	35	22	
CV 5/700	12,5	9,2	17,7	2"½	2"		101			83	80	77	74	69	64	58	51	44	28	

External electric pumps CV series 110

vertical multistage

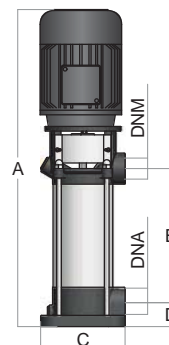
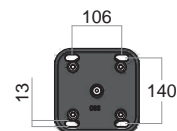
PERFORMANCE DATA - 2 poles 60 Hz

Radial impeller 	Code	Version		P2		A	Flow		DNA	Dimensions (mm)				Weight kg
				hp	kW		l/min	m		DNM	A	B	C	
CV 3/110	EMZ110/03	230 V	1-phase	1	0,75	4,9	40 - 90 - 140	35 - 27 - 13	1"½	662	286	180	51	20
	ETZ110/03/2	400 V	3-phase			1,8				667				22,2
CV 4/110	EMZ110/04	230 V	1-phase	1,5	1,1	7,4	40 - 90 - 140	47 - 36 - 18	1"½	662	286	180	51	21,5
	ETZ110/04/2	400 V	3-phase			2,9				667				22,2
CV 6/110	ETZ110/06/2	400 V	3-phase	2	1,5	3,3	40 - 90 - 140	71 - 54 - 26	1"½	667	286	180	51	22,2
CV 9/110	ETZ110/09/2	400 V	3-phase	3	2,2	4,85	40 - 90 - 140	106 - 81 - 39	1"½	804	376	180	51	31,2
CV 12/110	ETZ110/12/2	400 V	3-phase	4	3	6	40 - 90 - 140	142 - 108 - 53	1"½	928	466	180	51	40,4

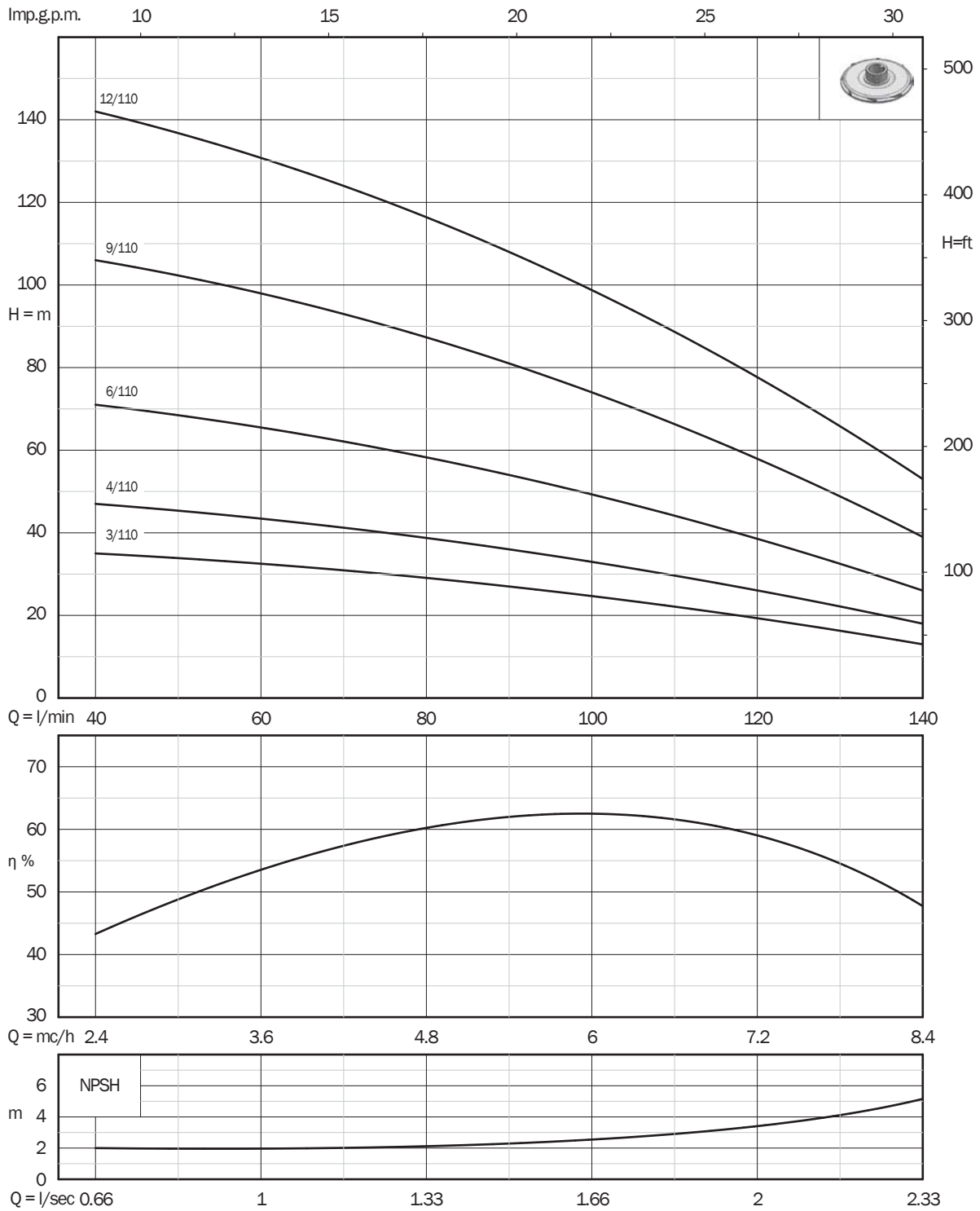


SUPPLIED WITH

Capacitor (single-phase versions)




PERFORMANCE CURVES - 2 poles 60 Hz



External electric pumps CV series 230

vertical multistage

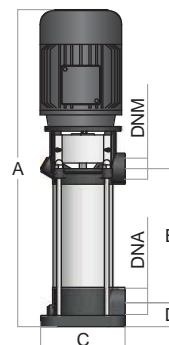
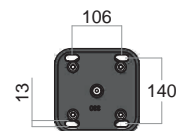
PERFORMANCE DATA - 2 poles 60 Hz

Radial impeller 	Code	Version		P2		A	Flow		DNA	Dimensions (mm)				Weight kg
				hp	kW		l/min	m		DNM	A	B	C	
CV 2/230	EMZ230/02	230 V	1-phase	1,5	1,1	7,4	100 - 190 - 270	26 - 19 - 10	1"½	662	286	180	51	23,4
	ETZ230/02/2	400 V	3-phase			2,9				667				24,1
CV 3/230	ETZ230/03/2	400 V	3-phase	2	1,5	3,3	100 - 190 - 270	39 - 29 - 15	1"½	667	286	180	51	24,1
CV 4/230	ETZ230/04/2	400 V	3-phase	3	2,2	4,85	100 - 190 - 270	52 - 38 - 20	1"½	714	286	180	51	29,5
CV 6/230	ETZ230/06/2	400 V	3-phase	4	3	6	100 - 190 - 270	77 - 57 - 30	1"½	784	322	180	51	37,9
CV 8/230	ETZ230/08/2	400 V	3-phase	5,5	4	8,4	100 - 190 - 270	105 - 78 - 39	1"½	858	394	180	51	37,8
CV 11/230	ETZ230/11/2	400 V	3-phase	7,5	5,5	10,1	100 - 190 - 270	144 - 104 - 54	1"½	975	502	180	51	51,5

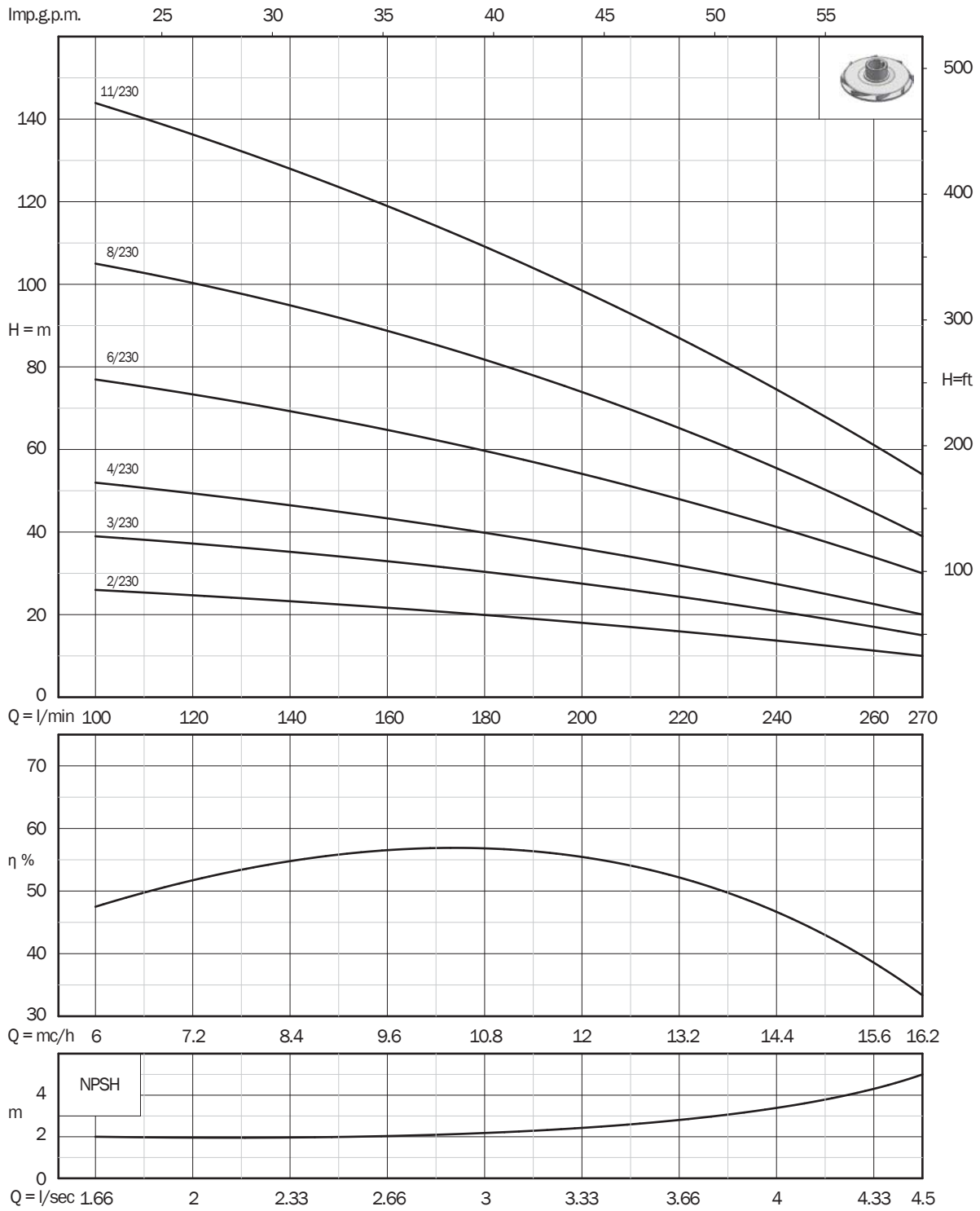


SUPPLIED WITH

Capacitor (single-phase versions)




PERFORMANCE CURVES - 2 poles 60 Hz

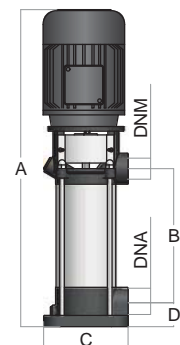
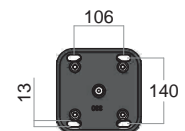


External electric pumps CV series 330

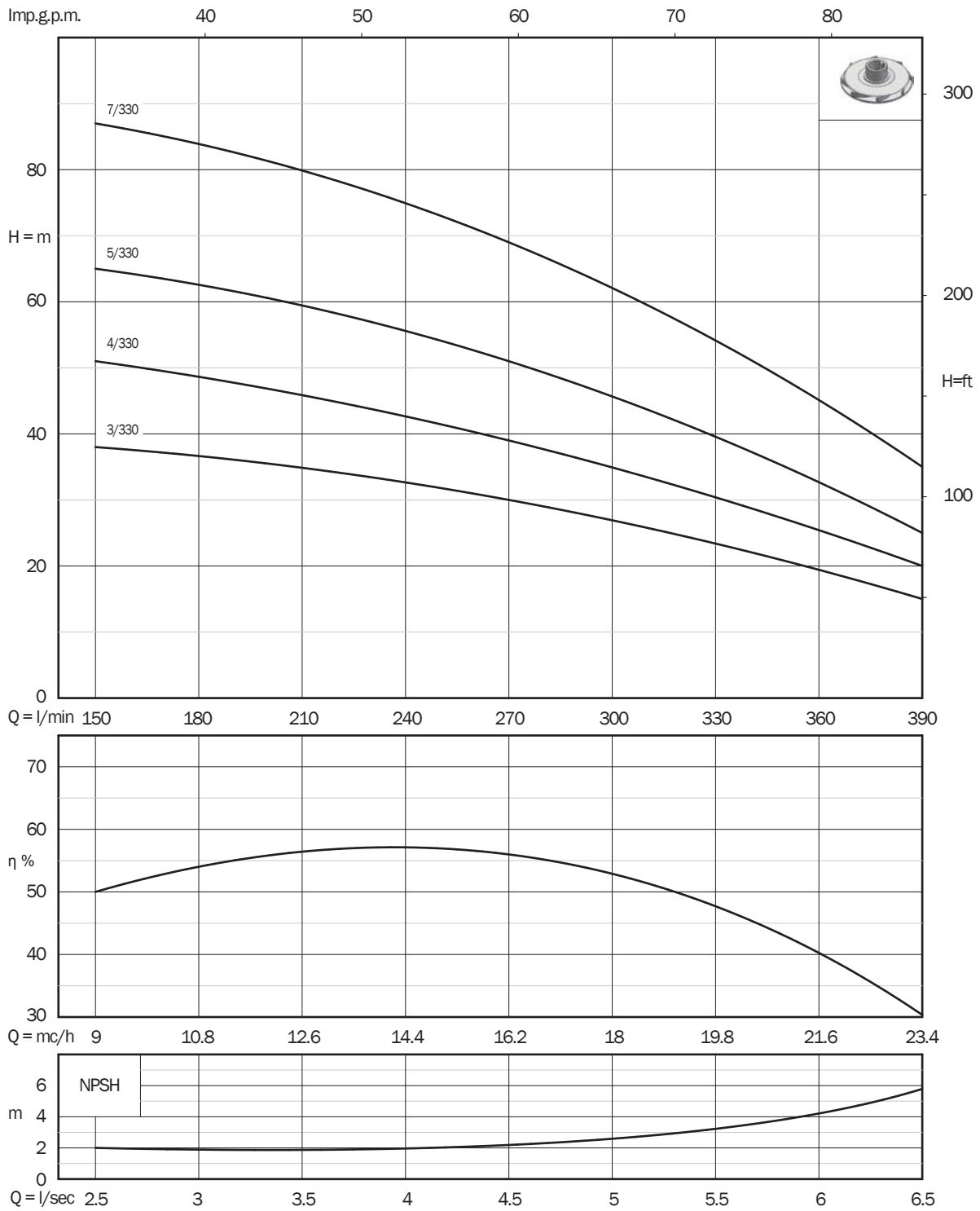
vertical multistage

PERFORMANCE DATA - 2 poles 60 Hz

Radial impeller 	Code	Version		P2		A	Flow		DNA	Dimensions (mm)				Weight
				hp	kW		l/min	m	DNM	A	B	C	D	kg
CV 3/330	ETZ330/03/2	400 V	3-phase	3	2,2	4,85	150 - 270 - 390	38 - 30 - 15	1"½	714	286	180	51	30,3
CV 4/330	ETZ330/04/2	400 V	3-phase	4	3	6	150 - 270 - 390	51 - 39 - 20	1"½	748	286	180	51	36,4
CV 5/330	ETZ330/05/2	400 V	3-phase	5,5	4	8,4	150 - 270 - 390	65 - 51 - 25	1"½	750	286	180	51	36,4
CV 7/330	ETZ330/07/2	400 V	3-phase	7,5	5,5	10,1	150 - 270 - 390	87 - 69 - 35	1"½	831	358	180	51	48,8




PERFORMANCE CURVES - 2 poles 60 Hz

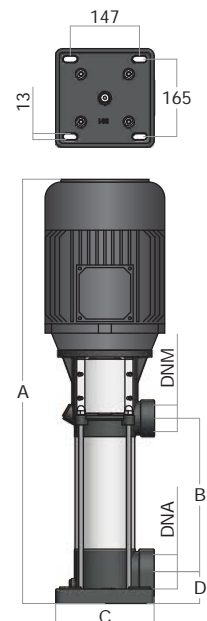


External electric pumps CV series 530

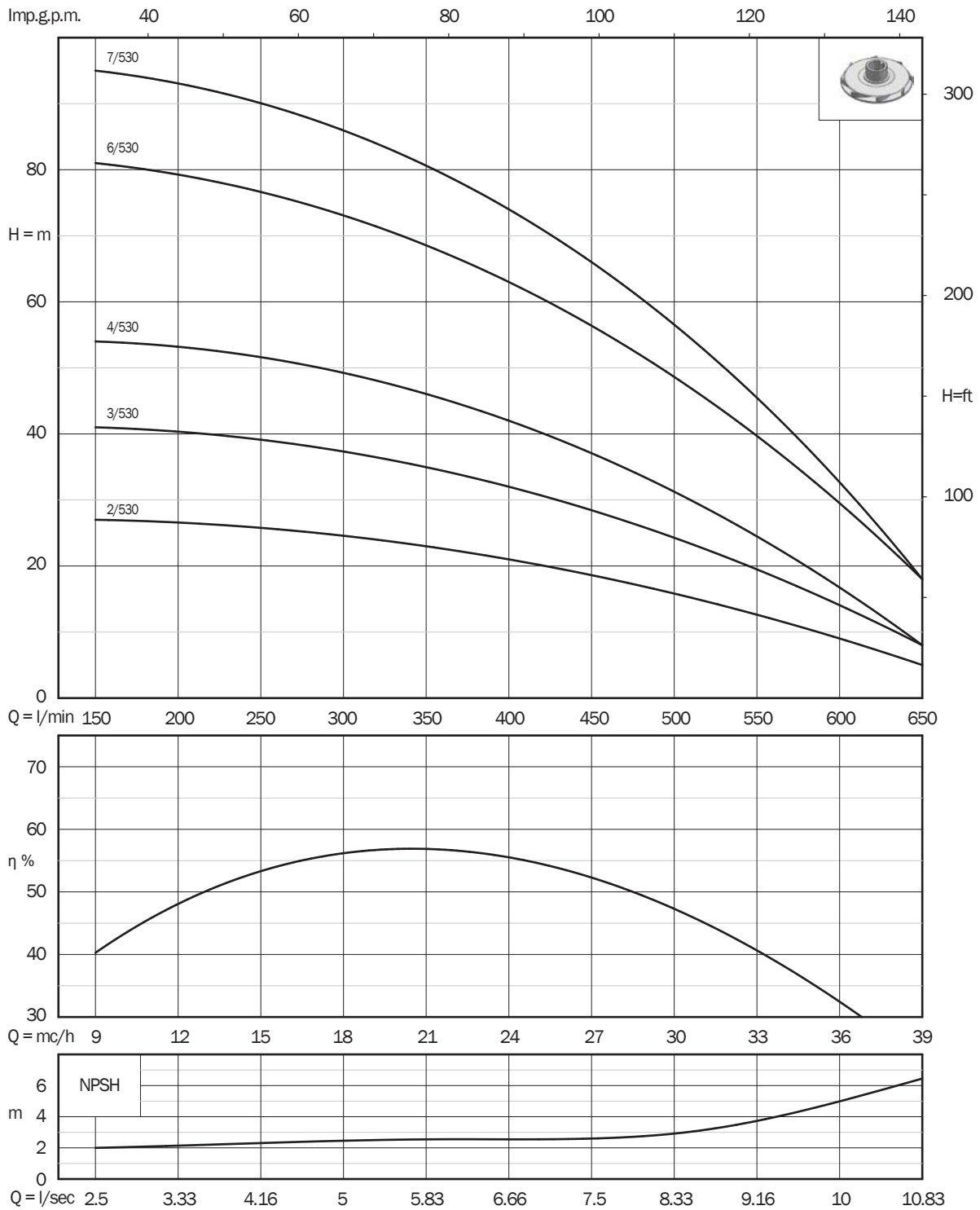
vertical multistage

PERFORMANCE DATA - 2 poles 60 Hz

Radial impeller 	Code	Version		P2		A	Flow		DNA	DNM	Dimensions (mm)				Weight kg
				hp	kW		l/min	m			A	B	C	D	
CV 2/530	ETZ530/02/2	400 V	3-phase	4	3	6	150 - 400 - 650	27 - 21 - 5	2"½	2"	789	327	200	68	42,4
CV 3/530	ETZ530/03/2	400 V	3-phase	5,5	4	8,4	150 - 400 - 650	41 - 32 - 8	2"½	2"	791	327	200	68	42,4
CV 4/530	ETZ530/04/2	400 V	3-phase	7,5	5,5	10,1	150 - 400 - 650	54 - 42 - 8	2"½	2"	800	327	200	68	53,7
CV 6/530	ETZ530/06/2	400 V	3-phase	10	7,5	14,3	150 - 400 - 650	81 - 63 - 18	2"½	2"	1027	427	200	68	66,2
CV 7/530	ETZ530/07/2	400 V	3-phase	12,5	9,2	17,7	150 - 400 - 650	95 - 74 - 18	2"½	2"	1165	527	200	68	70




PERFORMANCE CURVES - 2 poles 60 Hz

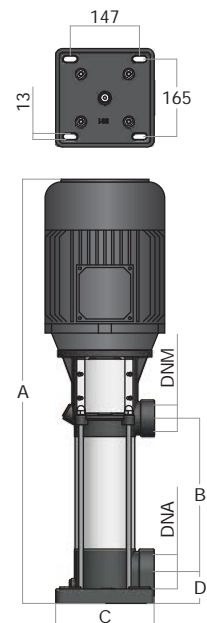


External electric pumps CV series 700

vertical multistage

PERFORMANCE DATA - 2 poles 60 Hz

Semi-axial impeller 	Code	Version		P2		A	Flow		DNA	DNM	Dimensions (mm)				Weight kg
				hp	kW		l/min	m			A	B	C	D	
CV 2/700	ETZ700/02/2	400 V	3-phase	5,5	4	8,4	300 - 500 - 800	33 - 27 - 11	2"½	2"	897	361	200	68	43,5
CV 3/700	ETZ700/03/2	400 V	3-phase	7,5	5,5	10,1	300 - 500 - 800	50 - 41 - 17	2"½	2"	906	361	200	68	54,8
CV 4/700	ETZ700/04/2	400 V	3-phase	10	7,5	14,3	300 - 500 - 800	66 - 55 - 22	2"½	2"	1117	517	200	68	66,6
CV 5/700	ETZ700/05/2	400 V	3-phase	12,5	9,2	17,7	300 - 500 - 800	83 - 69 - 28	2"½	2"	1155	517	200	68	70



PERFORMANCE CURVES - 2 poles 60 Hz

