



EBARA

COMPACT

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

60 Hz



HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in cast iron



Cast iron horizontal multistage centrifugal electric pumps.

APPLICATIONS

- Domestic pressure boosting
- General pressure increases
- Small-scale garden irrigation
- Washing vehicles
- Moving clean water

TECHNICAL DETAILS

- Particularly silent
- Light and easy to handle

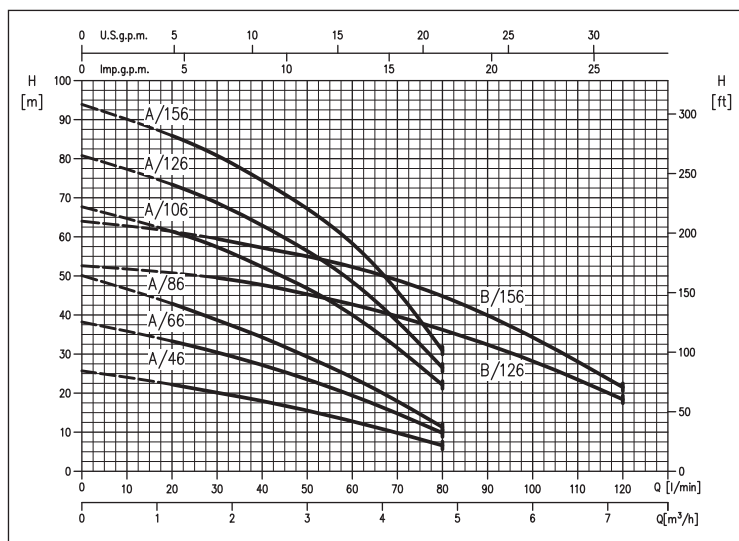
TECHNICAL DATA

- Maximum working pressure: 10 bar
- Maximum temperature of the liquid: 40°C
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP44 Protection rating
- 220-230 $\pm 6\%$, 60Hz single phase voltage, 220/380 $-6\%+10\%$, 60Hz three phase voltage
- Permanent capacitor inserted and thermo-amperometric protection with automatic rearm incorporated for the single phase motor
- Protection under user's responsibility for the three phase version
- G1¼ suction connection for COMPACT B, G1 for COMPACT A
- G1 discharge connection

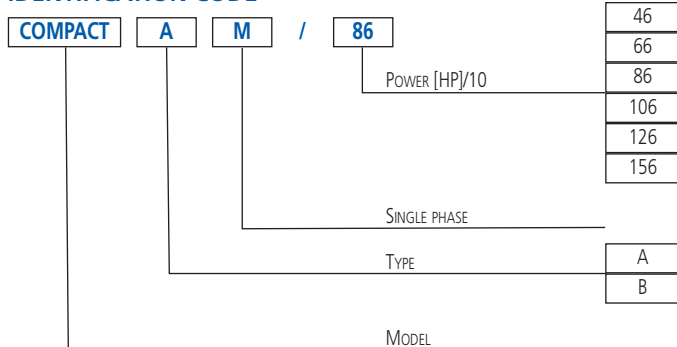
MATERIALS

- Cast iron pump body and bracket
- External pump casing in AISI 304
- Impeller and diffuser in PPE+PS reinforced with fibreglass
- Stages in PPE+PS reinforced with fibreglass/PTFE
- Shaft in AISI 416
- Mechanical seal in Carbon/Ceramic/NBR

PERFORMANCE CURVES (according to ISO 9906 Attachment A)

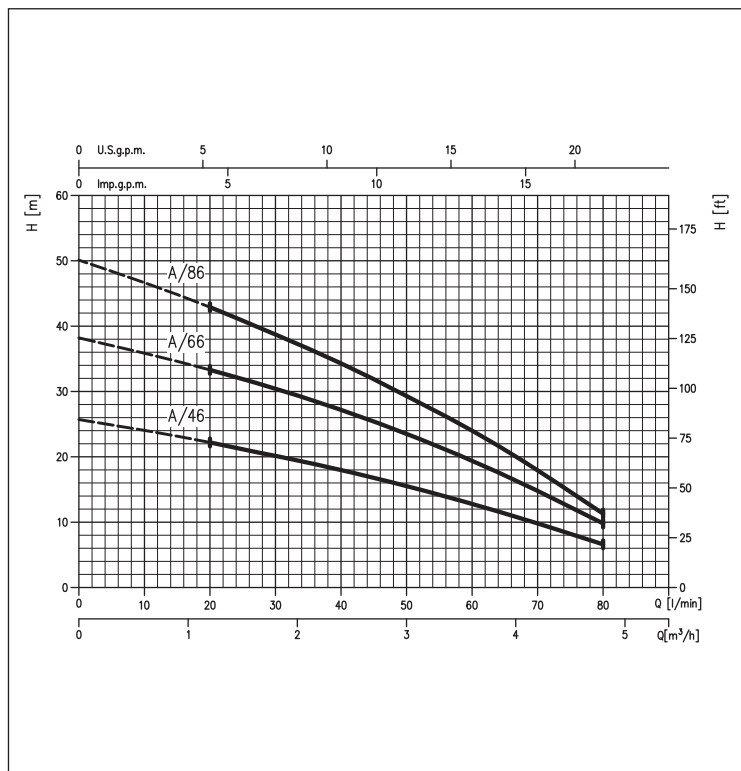


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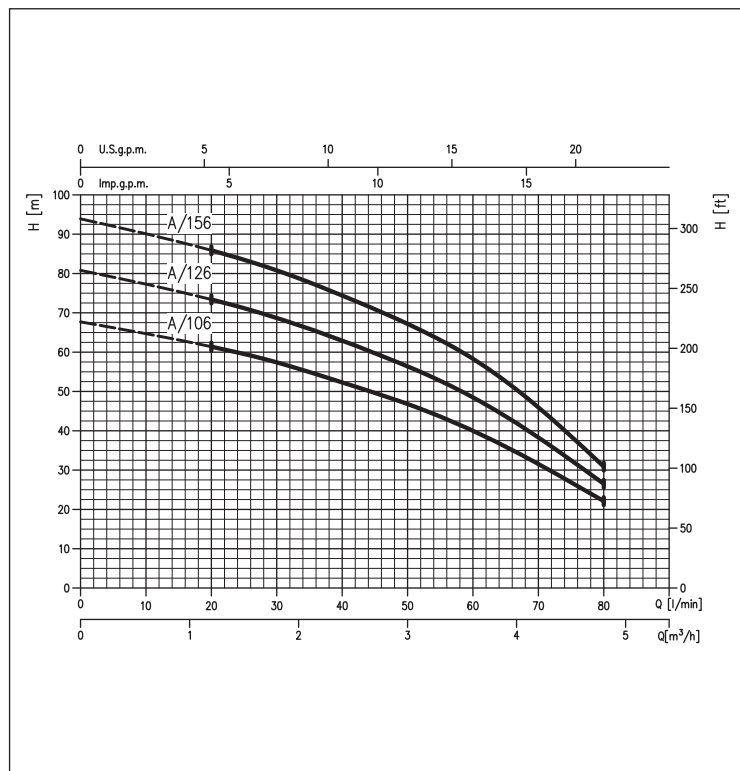


HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS in cast iron

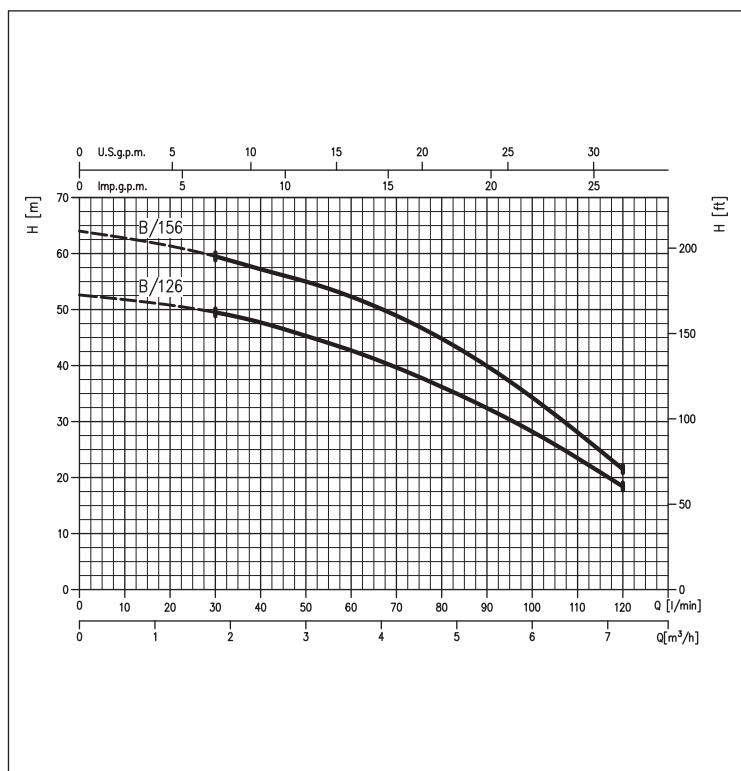
COMPACT A range PERFORMANCE CURVES up to 0,6 kW
(according to ISO 9906 Attachment A)



COMPACT A range PERFORMANCE CURVES from 0,75 kW and above
(according to ISO 9906 Attachment A)



COMPACT B range PERFORMANCE CURVES
(according to ISO 9906 Attachment A)



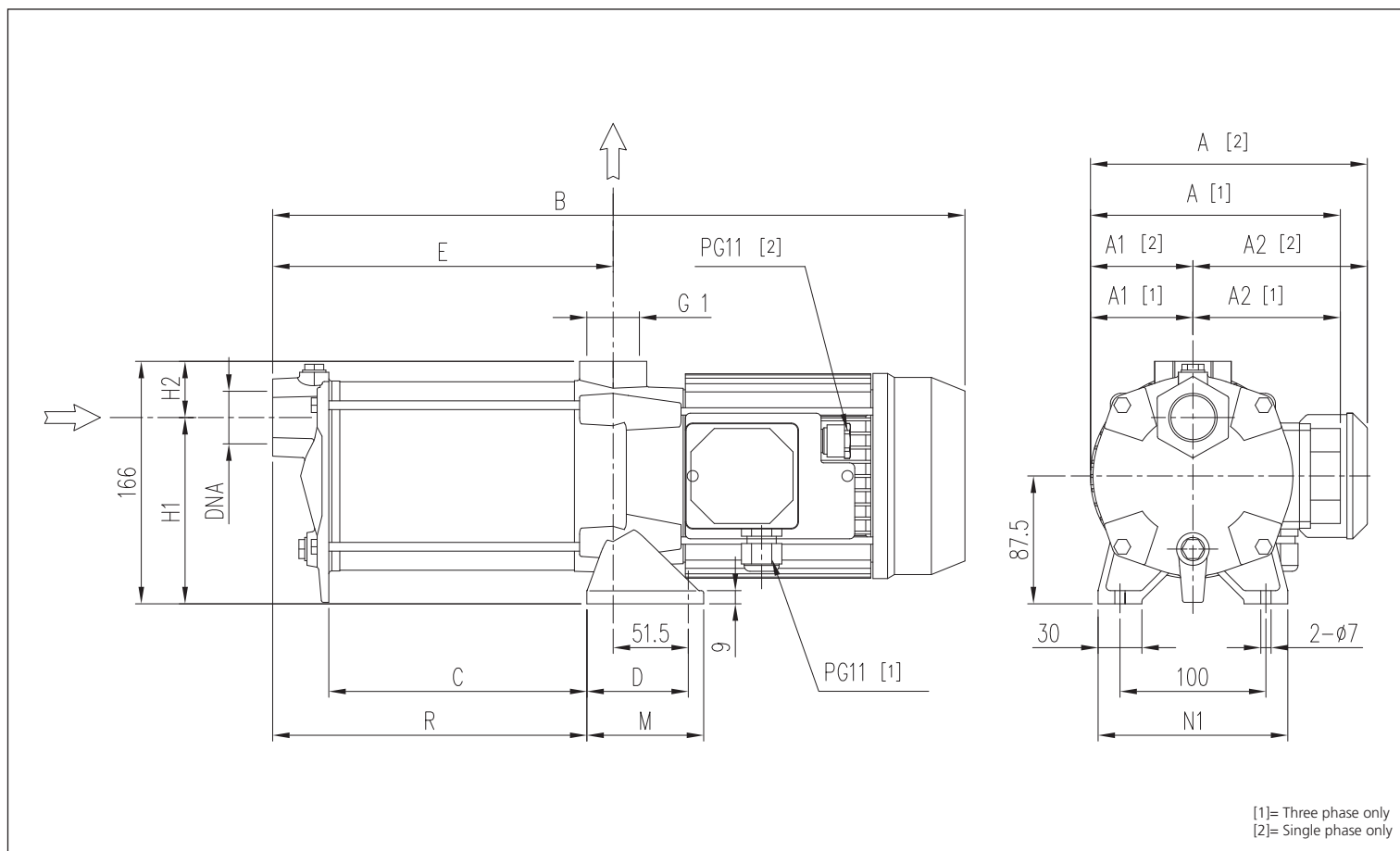
HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

PERFORMANCE TABLE

Model		P ₂		Q=Flow rate								
Single phase 220-230V	Three phase 220/380V	[HP]	[kW]	l/min m ³ /h	20	30	40	50	60	80	100	120
				H=Head [m]								
COMPACT AM/46	COMPACT A/46	0,4	0,3	22,2	20,1	18,0	15,5	12,8	6,6	-	-	-
COMPACT AM/66	COMPACT A/66	0,6	0,44	33,3	30,4	27,2	23,5	19,4	9,8	-	-	-
COMPACT AM/86	COMPACT A/86	0,8	0,6	43,0	38,7	34,3	29,3	24,0	11,3	-	-	-
COMPACT AM/106	COMPACT A/106	1	0,75	61,5	57,5	52,5	47,0	40,0	22,1	-	-	-
COMPACT AM/126	COMPACT A/126	1,2	0,9	73,5	68,5	63,0	56,5	48,5	26,5	-	-	-
COMPACT AM/156	COMPACT A/156	1,5	1,1	86,0	81,0	74,5	67,0	58,5	30,9	-	-	-
COMPACT BM/126	COMPACT B/126	1,2	0,9	-	49,5	47,5	45,5	42,5	36,2	28,2	18,4	-
COMPACT BM/156	COMPACT B/156	1,5	1,1	-	59,5	57,0	55,0	52,5	45,0	34,3	21,5	-

DIMENSIONS



DIMENSIONAL TABLE

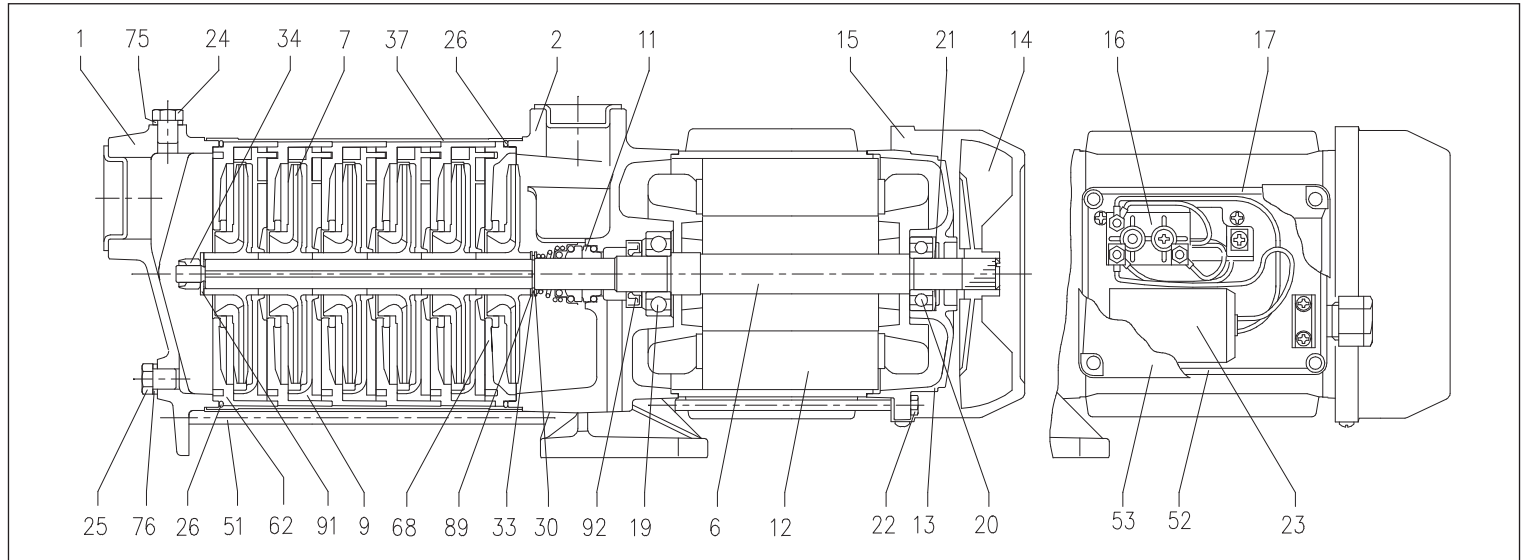
Model		Dimensions [mm]																		Weight [kg]	
Single phase	Three phase	A		A1		A2		B		C	D	E	H1	H2	M	N1	R	DNA			
		[2]	[1]	[2]	[1]	[2]	[1]	[2]	[1]										[2]	[1]	
COMPACT AM/46	COMPACT A/46	159	161	68,5	68,5	90,5	92	307,5	309,5	82	51,5	121	128	38,5	62	133	121	G 1	8,4	8,4	
COMPACT AM/66	COMPACT A/66	159	161	68,5	68,5	90,5	92	333,5	335,5	108	51,5	147	128	38,5	62	133	147	G 1	9,3	9,3	
COMPACT AM/86	COMPACT A/86	159	161	68,5	68,5	90,5	92	359,5	361,5	134	51,5	173	128	38,5	62	133	173	G 1	10,0	10,0	
COMPACT AM/106	COMPACT A/106	169	171	70,2	70,2	98,8	101	426	428	142	69,5	199	128	38,5	80	130	181	G 1	15,0	15,0	
COMPACT AM/126	COMPACT A/126	169	171	70,2	70,2	98,8	101	452	466	168	69,5	225	128	38,5	80	130	207	G 1	16,0	16,0	
COMPACT AM/156	COMPACT A/156	169	171	70,2	70,2	98,8	101	490	492	194	69,5	251	128	38,5	80	130	233	G 1	17,0	17,0	
COMPACT BM/126	COMPACT B/126	169	171	70,2	70,2	98,8	101	400	414	116	69,5	173	124	42,5	80	130	155	G 1¼	15,0	15,0	
COMPACT BM/156	COMPACT B/156	169	171	70,2	70,2	98,8	101	438	440	142	69,5	199	124	42,5	80	130	181	G 1¼	16,0	16,0	

[1]= Three phase only
[2]= Single phase only

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

SECTIONAL VIEW



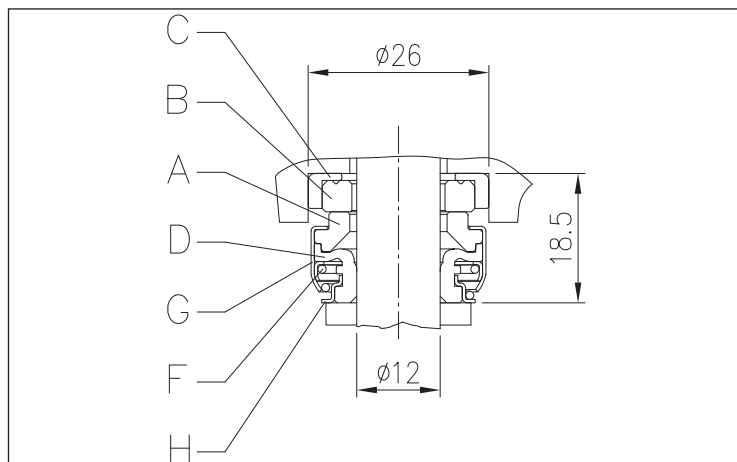
MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Suction casing	Cast iron EN-GJL-200-EN 1561	25	Drain plug	OT 58 UNI 5705
2	Delivery casing	Cast iron EN-GJL-200-EN 1561	26	O-Ring	NBR
6	Shaft	AISI 416	30	Washer	AISI 304
7	Impeller	PPE+PS reinforced with fibreglass	33	Seeger ring	AISI 420
9	Nozzle	PPE+PS reinforced with fibreglass	34	Impeller nut	AISI 304
11	Mechanical seal	Carbon/Ceramic/NBR	37	External pump casing	AISI 304
12	Motor case	-	51	Pump tie-rod	Galvanised Fe P04
13	Motor cover	Aluminium	52	Capacitor box [2]	PP
14	Fan	PA6	53	Capacitor box cover [2]	PP
15	Fan cover	Galvanised Fe P04	62	Stage housing	PPE+PS reinforced with fibreglass/PTFE
16	Terminal box	-	68	Stage	PPE+PS reinforced with fibreglass/PTFE
17	Terminal box cover [1]	Aluminium	75	Washer	Aluminium
19	Bearing (pump side)	-	76	Washer	Aluminium
20	Bearing (motor side)	-	89	Washer	AISI 304
21	Adjusting ring	Steel C70	91	Washer	AISI 304
22	Motor tie-rod	Galvanised Fe 42	92	Sealing ring	NBR
23	Capacitor [2]	-			
24	Filler cap	OT 58 UNI 5705			

[1]= Three phase only

[2]= Single phase only

MECHANICAL SEAL for COMPACT up to 0.6 kW



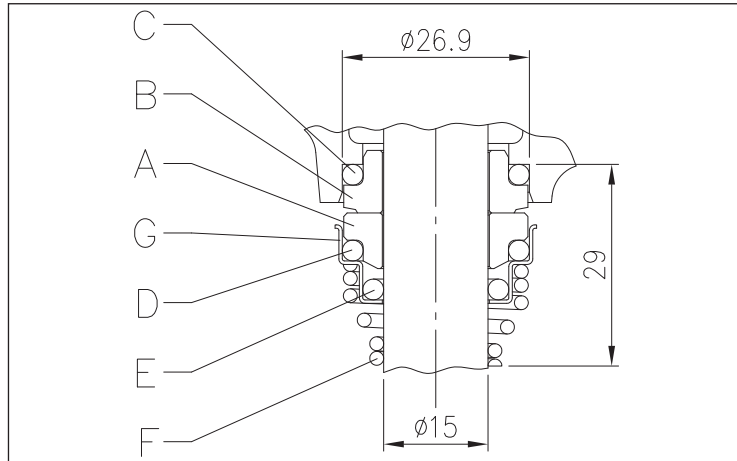
MATERIALS TABLE

Ref.	Name	Material
A	Rotating part	Carbon
B	Fixed part	Ceramic
C	Gasket	NBR
D	Diaphragm	NBR
F	Spring	AISI 304
G	Structure/frame	AISI 304
H	Retainer ring	AISI 304

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MECHANICAL SEAL for COMPACT from 0.75 kW and above



MATERIALS TABLE

Ref.	Name	Material
A	Rotating part	Ceramic
B	Fixed part	Carbon
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Spring	AISI 316
G	Structure/frame	AISI 304

ELECTRIC DATA TABLE

Model		P ₂		Single phase Capacitor		P ₁		Absorbed Current [A]		
Single phase 220-230	Three-phase 220/380	[HP]	[kW]	μF	V _c	Single phase [kW]	Three phase [kW]	Single phase 220-230V	Three phase 220V	Three phase 380V
COMPACT AM/46	COMPACT A/46	0,4	0,3	10	450	0,54	0,45	2,9	1,6	0,9
COMPACT AM/66	COMPACT A/66	0,6	0,44	12,5	450	0,73	0,63	3,5	2,1	1,2
COMPACT AM/86	COMPACT A/86	0,8	0,6	14	450	0,91	0,75	4,3	2,4	1,4
COMPACT AM/106	COMPACT A/106	1	0,75	20	450	1,33	1,00	6,7	2,9	1,7
COMPACT AM/126	COMPACT A/126	1,2	0,9	31,5	450	1,53	1,50	7,0	3,8	2,2
COMPACT AM/156	COMPACT A/156	1,5	1,1	31,5	450	1,60	1,50	7,5	3,8	2,2
COMPACT BM/126	COMPACT B/126	1,2	0,9	31,5	450	1,46	1,50	6,8	3,8	2,2
COMPACT BM/156	COMPACT B/156	1,5	1,1	31,5	450	1,58	1,50	7,4	3,8	2,2

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