

Vibrators

7

Product group

W ZA Y ZA Y ZU

- According to DIN VDE 0580
- Solid construction adjusted to the application
- For direct connection to the AC network or via one-way rectifier
- Open or encapsulated design
- Insulation materials of the excitation winding correspond to thermal class B
- Electrical connection and protection class when properly installed:
 - Free flexible lead ends
 - Protection class according to DIN VDE 0470-1/
DIN EN 60529 – IP 00
- Mounting:
 - series W ZA W and Y ZA W via dedendum angle on the magnetic body and through bore hole in the armature
 - series Y ZU W via threaded tapped holes
- Please contact us for application related solutions
- Application Examples:
As drive unit for vibratory systems in the materials- handling technology, e. g. mining, sieving and compressing

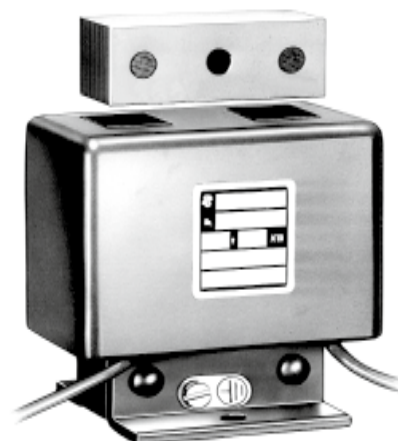


Fig. 1: Type W ZA W 060 X00 A05

Technical data

Vibrator for direct connection to the AC network

Vibrations at twice supply frequency.

W ZA W		010	040	060	080
Nominal air gap	(mm)	1	2	2,5	2,5
Rated Power P_s	(VA)	15	45	103	205
Peak force \bar{F}	(N)	13,7	18,6	42	118
Armature weight m_A	(kg)	0,026	0,07	0,17	0,31
Solenoid weight (not encapsulated) m_M	(kg)	0,18	0,39	0,95	2,1
Solenoid weight (encapsulated) m_M	(kg)	0,21	0,52	1,12	2,3

Vibrators for connection to the AC network via one-way rectifier

Vibrations at supply frequency.

Y ZA W		010	040	060	080
Nominal air gap	(mm)	1	2	2,5	2,5
Rated Power P_s	(VA)	15,5	40	76	180
Peak force \bar{F}	(N)	32	36	65	176
Armature weight m_A	(kg)	0,026	0,07	0,17	0,31
Solenoid weight (not encapsulated) m_M	(kg)	0,18	0,39	0,95	2,1
Solenoid weight (encapsulated) m_M	(kg)	0,21	0,52	1,12	2,3

Vibrators for connection to the AC network via one-way rectifier

Vibrations at supply frequency.

Y ZU W		080	090	120	130
Nominal air gap	(mm)	2,5	3	3	3
Rated Power P_s	(VA)	250	425	1200	2060
Peak force \bar{F}	(N)	314	510	1450	2740
Armature weight m_A	(kg)	0,3	0,6	1,3	2,6
Solenoid weight m_M	(kg)	2	3,2	7,6	13,5

Table basis: Normal operating temperature
95 % rated voltage
Reference temperature 35° C


Peak force \bar{F} - magnetic force with nominal air gap in a non vibrating condition.

P_s = approximate apparent power with nominal air gap in a non vibrating condition.

Information and remarks concerning European directives can be taken from the correspondent information sheet which is available under *Produktinfo.Magnet-Schultz.com*.

Note on the RoHS Directive

According to our current state of knowledge the devices pictured in this document do not contain any substances in concentration values or applications for which putting into circulation with products manufactured from them is prohibited in accordance to RoHS.

Please make sure that the described devices are suitable for your application. Supplementary information concerning its proper installation can be taken also from the  –Technical Explanation, the effective DIN VDE0580 as well as the relevant specifications.

This part list is a document for technically qualified personnel.

The present publication is for informational purposes only and shall not be construed as mandatory illustration of the products unless otherwise confirmed expressively.

Dimension drawing

Type Y ZU W													
Dim. in mm	b_1	b_2	d	e_1	e_2	h_1	h_2	h_3	h_4	h_5	t_1	t_2	
Size	080	100	66	M6	30	*	61.5	48	9	17.5	1	68	38
	090	100	66	M6	30	40	61.5	48	9	17.5	1	100	70
	120	155	108	M10	50	*	90.5	66	15	26.5	1	110	68
	130	155	108	M10	50	80	90.5	66	15	26.5	1	168	126

* Two threaded bores on central axis size 080 and 120.

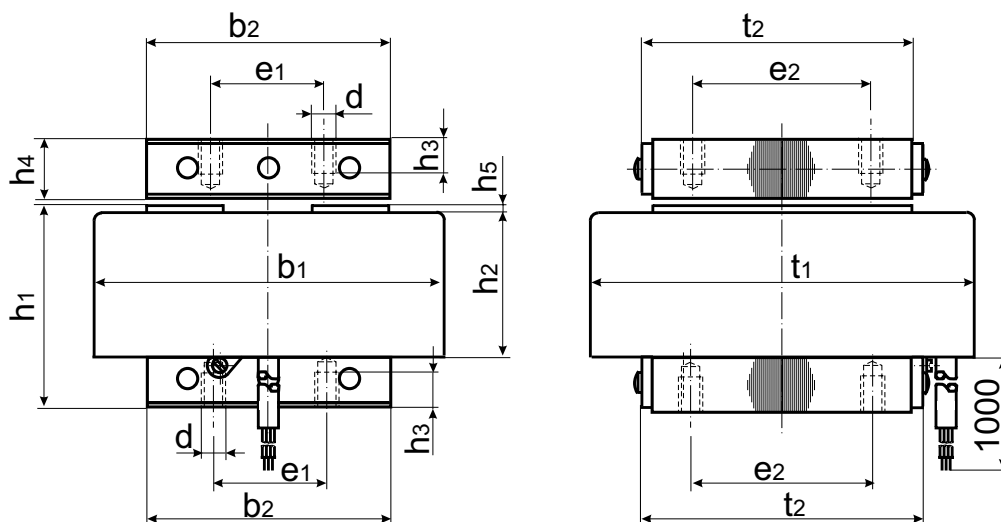


Fig. 2: Encapsulated design
Type Y ZU W 080 X00 A01
to Y ZU W 130 X00 A01

Type W ZAW and Y ZAW ... A01															
Dim. in mm	a	b_4	b_2	b_3	d_1	d_2	e	h_1	h_2	h_3	t_1	t_2	t_3	stroke	s
size	010	2	39	31.2	30	3.2	4.1	30	41.8	10	29.7	21	42	12	1
	040	2	59	46.5	45	4.3	5.1	37	60.8	15	44.6	31	47.5	17,5	2
	060	3	73	55.2	54	6.4	6.1	46	75.8	20	53.5	40	61.5	21,5	2,5
	080	3	87	68.2	66	6.4	6.1	67	90.8	22	65.8	52	83	33	2,5

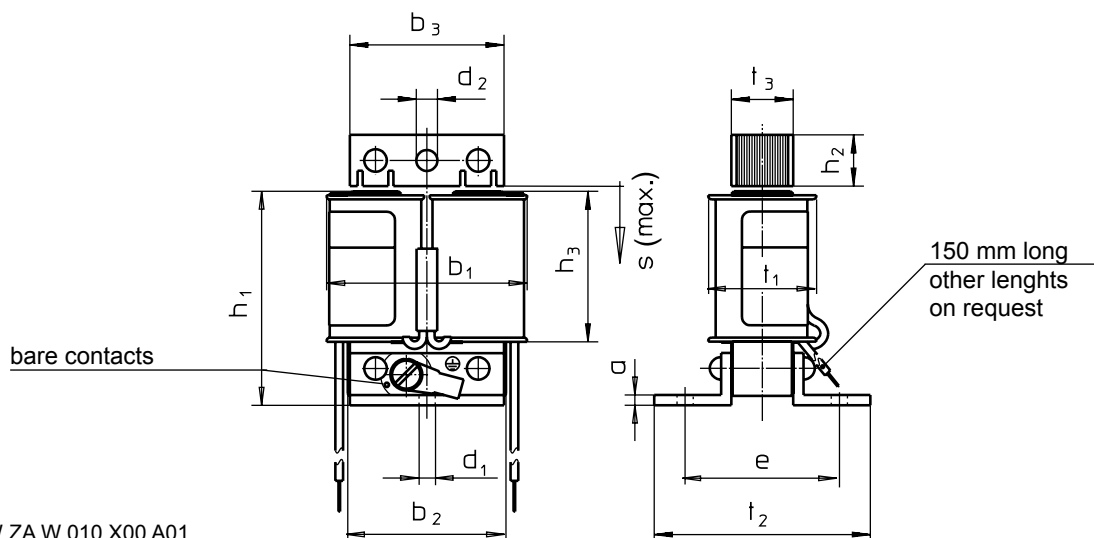


Fig. 3: Design
Type W ZAW 010 X00 A01
to W ZAW 080 X00 A01
and Y ZAW 010 X00 A01
to Y ZAW 080 X00 A01

Type W ZA W and Y ZA W ... A05																
Dim. in mm	a	b ₁	b ₂	b ₃	d ₁	d ₂	e	h ₁	h ₂	h ₃	h ₄	t ₁	t ₂	t ₃	t ₄	
size	010	2	44	31.2	30	3.2	4.1	30	41.8	10	32	---	26	42	12	---
	040	2	66	46.5	45	4.3	5.1	37	60.8	15	46.5	0.5	39	47.5	17.5	---
	060	3	78	55.2	54	6.4	6.1	46	75.8	20	56.5	0.5	48	61.5	21.5	22
	080	3	92	68.2	66	6.4	6.1	67	90.8	22	69	1	62	83	33	28.5

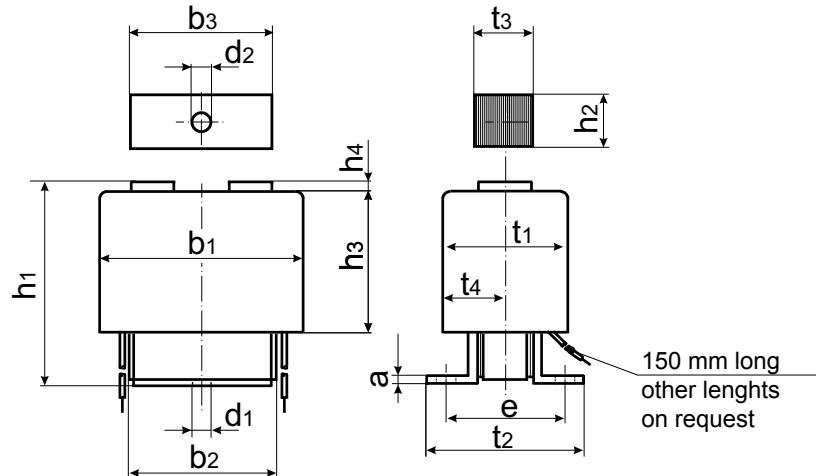
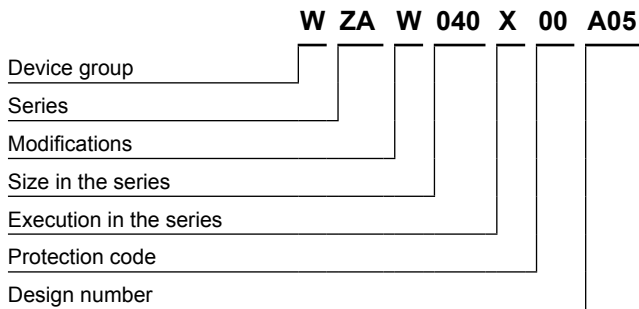


Fig. 4: Encapsulated Design
 Type W ZA W 010 X00 A05
 to W ZA W 080 X00 A05
 and Y ZA W 010 X00 A05
 to Y ZA W 080 X00 A05

Type code



Example

Type W ZA W 040 X00 A05
 Voltage === 24 V DC

Specials designs

Please do not hesitate to ask us for application-oriented problem solutions. In order to find rapidly a reliable solution we need complete details about your application conditions. The details should be specified as precisely as possible in accordance with the relevant -Technical Explanations.

If necessary, please request the support of our corresponding technical office.