



15. Technical data of Ex e motors

Technical data of Ex e vibration motors "increased safety"

The type indicates the size. The sizes cover various working moments according to the leaflet.

For all FE sizes: ATEX certificate: KEMA 03 ATEX 2233 X, IECEx KEM 10.0076 X

4-pole, 400V, 50 Hz								
Type	Temp. class	RPM min ⁻¹	Output power kW	Nominal current I	Power factor cos φ	Efficiency η	Ia/In	t _E (s)
FE...-4 -1.2	T4	1405	0,25	0,7	0,76	0,68	4,4	23
FE...-4 -2.2	T4	1425	0,45	1,13	0,76	0,76	4,9	17
FE...-4 -2.1	T4	1440	0,70	1,57	0,82	0,70	6,6	16
FE...-4 -2.3	T4	1440	0,70	1,57	0,82	0,79	6,6	16
FE...-4 -4.0	T4	1450	1,70	3,32	0,87	0,85	6,8	10
FE...-4 -4.3	T4	1450	1,70	3,32	0,87	0,85	6,8	10
FE...-4 -4.1	T3	1450	2,50	4,97	0,87	0,85	7,8	16
FE...-4 -4.2	T3	1450	2,50	4,97	0,85	0,83	7,8	16

6-pole, 400V, 50 Hz								
Type	Temp. class	RPM min ⁻¹	Output power kW	Nominal current I	Power factor cos φ	Efficiency η	Ia/In	t _E (s)
FE...-6 -1.2	T4	935	0,20	0,78	0,62	0,63	3,6	24
FE...-6 -2.2	T4	940	0,30	0,95	0,70	0,70	4,2	26
FE...-6 -2.1	T4	955	0,60	1,65	0,75	0,75	5,4	12
FE...-6 -2.3	T4	955	0,60	1,65	0,75	0,75	5,3	12
FE...-6 -3.1	T4	950	1,10	2,59	0,77	0,80	5,3	18
FE...-6 -3.4	T4	950	1,10	2,59	0,77	0,80	5,3	18
FE...-6 -4.0	T4	960	1,80	4,27	0,74	0,81	5,8	7
FE...-6 -4.3	T4	960	1,80	4,27	0,74	0,81	5,8	7
FE...-6 -4.1	T4	960	2,20	4,68	0,80	0,83	6,6	7
FE...-6 -4.2	T4	960	2,20	4,68	0,80	0,83	6,6	7
FE...-6 -7.0	T4	970	3,00	6,08	0,84	0,85	7,5	7
FE...-6 -7.1	T4	970	3,00	6,08	0,84	0,85	7,5	7

8-pole, 400V, 50 Hz								
Type	Temp. class	RPM min ⁻¹	Output power kW	Nominal current I	Power factor cos φ	Efficiency η	Ia/In	t _E (s)
FE...-8 -4.0	T3	728	1,20	4,56	0,50	0,77	5,3	23
FE...-8 -7.0	T4	726	2,30	6,18	0,64	0,84	5,6	14
FE...-8 -7.1	T4	726	2,30	6,18	0,64	0,84	5,6	14

4-pole, 460V, 60 Hz								
Type	Temp. class	RPM min ⁻¹	Output power kW	Nominal current I	Power factor cos φ	Efficiency η	Ia/In	t _E (s)
FE...-4 -2.2	T4	1725	0,45	1,12	0,76	0,75	5,0	17



FRIEDRICH
SCHWINGTECHNIK GmbH



Catalogue designation

Example : FE 75-4-2.2

F	Friedrich
E	increased safety
75	working moment
4	number of poles
2.2	model / size

Protection class: IP 66
Temperature class: F tropicalized
insulation

16. Technical data of DP motors

Technical data of DP vibration motors "Flameproof enclosures" and Explosion Proof

The type indicates the size. The sizes cover various working moments according to the leaflet.

ATEX Certificate: KEMA 03 ATEX 2292X, IECEX KEM 09.0047X

***CSA File n°: LR55503**

***FM Certificate: 0M5A8.AE**

***Sales: Friedrich Schwingtechnik GmbH - Manufacturer: Vimarc Inc.**

2-pole, 2870 rpm, 400V, 50 Hz

Type:	Temp. class	Output power	Nominal current	Power factor	Efficiency		
	°C	kW	A	cos φ	η%	Ia/In	Ma/Mn
ADP ... - 2V	T4	0.30	0.95	0.83	55	9.4	4.2
BDP ... - 2V	T4	0.30	0.95	0.83	55	9.4	4.2

4-pole, 1460 rpm, 400V, 50 Hz

Type:	Temp. class	Output power	Nominal current	Power factor	Efficiency		
	°C	kW	A	cos φ	η%	Ia/In	Ma/Mn
ADP ... - 4V	T4	0.42	1.30	0.69	71	6.2	3.5
BDP ... - 4V	T4	0.42	1.30	0.69	71	6.2	3.5
CDP ... - 4V	T4	0.96	2.30	0.79	80	7.6	2.8
DDP ... - 4V	T4	1.70	3.60	0.84	86	7.8	3.1
EDP ... - 4V	T4	2.20	4.40	0.84	84	7.2	2.9
FDP ... - 4V	T4	3.30	6.50	0.82	91	8.5	2.8
GDP ... - 4V	T4	3.60	7.30	0.83	86	8.3	3.0

6-pole, 980 rpm, 400V, 50 Hz

Type:	Temp. class	Output power	Nominal current	Power factor	Efficiency		
	°C	kW	A	cos φ	η%	Ia/In	Ma/Mn
ADP ... - 6V	T4	0.46	1.36	0.78	63	2.5	2.0
BDP ... - 6V	T4	0.46	1.43	0.78	63	2.5	2.0
CDP ... - 6V	T4	0.55	1.85	0.61	74	6.2	3.1
DDP ... - 6V	T4	1.70	4,00	0.78	84	5.4	1.6
EDP... - 6V	T4	2.20	5,00	0.74	85	8.4	2.7
FDP ... - 6V	T4	3,00	6,80	0,75	88	9,7	3,4
GDP ... - 6V	T4	3,70	8,70	0,76	85	9,8	3,6

8-pole, 740 rpm, 400V, 50 Hz

Type:	Temp. class	Output power	Nominal current	Power factor	Efficiency		
	°C	kW	A	cos φ	η%	Ia/In	Ma/Mn
BDP ... - 8V	v	0.40	1.60	0.64	59	8.3	2.3
CDP ... - 8V	T4/T3	1.00	3,10	0,71	69	3,6	1,5
DDP .. - 8V	T4/T3	1,50	4,10	0,78	71	4,1	2,1
EDP ... - 8V	T4/T3	2,50	6,70	0,68	78	5,5	2,7
FDP ... - 8V	T4/T3	3,00	6,70	0,81	85	8,4	2,8
GDP .. - 8V	T4/T3	3,70	9,40	0,72	83	7,2	2,9

2-pole, 3450 rpm, 460V, 60 Hz

Type:	Temp. class	Output power	Nominal current	Power factor	Efficiency		
	⁰ C	kW	A /460V	cos φ	η%	Ia/In	Ma/Mn
ADP ...-2	T4	0.30	0.82	0.83	55	10.3	4.4
BDP ...-2	T4	0.30	0.82	0.83	55	10.3	4.4

4-pole, 1750 rpm, 460V, 60 Hz

Type:	Temp. class	Output power	Nominal current	Power factor	Efficiency		
	⁰ C	kW	A /460V	cos φ	η%	Ia/In	Ma/Mn
ADP ...-4	T4	0.42	1.07	0.69	71	6.8	3.5
BDP ...-4	T4	0.42	1.07	0.69	71	6.8	3.5
CDP ...-4	T4	0.96	1.91	0.79	80	8.3	2.8
DDP ...-4	T4	1.70	2.95	0.84	86	8.5	3.1
EDP ...-4	T4	2.20	3.85	0.84	84	7.9	2.8
FDP ...-4	T4	3.32	5.60	0.82	86	9.1	2.8
GDP ...-4	T4	3.60	6.40	0.83	86	9.1	3.0

6-pole, 1175 rpm, 460V, 60 Hz

Type:	Temp. class	Output power	Nominal current	Power factor	Efficiency		
	⁰ C	kW	A /460V	cos φ	η%	Ia/In	Ma/Mn
ADP ...-6	T4	0.46	1.18	0.78	63	2.7	2.0
BDP ...-6	T4	0.46	1.18	0.78	63	2.7	2.0
CDP ...-6	T4	0.55	1.53	0.61	74	6.8	3.1
DDP ...-6	T4	1.70	3.30	0.78	84	5.9	1.6
EDP ...-6	T4	2.20	4.40	0.74	85	9.2	2.7
FDP ...-6	T4	3,00	5.60	0.75	88	10.6	3.5
GDP ...-6	T4	3.70	7.20	0.76	85	10.7	3.6

8-pole, 855 rpm, 460V, 60 Hz

Type:	Temp. class	Output power	Nominal current	Power factor	Efficiency		
	⁰ C	kW	A /460V	cos φ	η%	Ia/In	Ma/Mn
BDP ...-8	T4	0.40	1.32	0.64	59	9.1	2.3
CDP ...-8	T4	1.00	2.55	0.71	69	3.9	1.5
DDP ...-8	T4	1.50	3.40	0.78	71	4.5	2.1
EDP ...-8	T4	2.50	5.90	0.68	78	6.0	2.7
FDP ...-8	T4	3.00	5.50	0.81	85	9.2	2.8
GDP ...-8	T4	3.70	7.80	0.72	83	7.9	2.9

Catalogue designation

Example : BDP 201-6

B size
 DP Ex d (Explosion proof)
 V 50 Hz
 201 working moment
 6 number of poles

Protection class: IP 66

Temperature class: F tropicalized insulation