



VEM CHEM

Explosion-protected motors Part 2/3

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Overview of technical data

The most important technical data are summarised in the following table.
Further information can be taken from the catalogue section "Introduction" (Chapter 1).

Product group	Squirrel-cage rotor, IEC/DIN
Explosion protection type	Flameproof enclosure „d/de“ („db/db eb“)
Rated output	Ex d/de (Ex db/db eb) (IE.) – K8.R, 0.12 to 730 kW
Sizes	Ex d/de (Ex db/db eb) (IE.) – K8.R, 63 to 450
Housing material	Grey cast iron
Rated torque	0.6 Nm to 5770 Nm
Efficiency classification/ efficiency determination	IEC/EN 60034-30-1 / IEC/EN 60034-2-1, ≤ 1 kW direct measurement, > 1 kW residual loss method
Method of connection	Single-speed motors are designed in star-delta configuration as standard.
Stator winding insulation	Thermal class 155, optional 155 [F(B)], 180 to IEC/EN 60034-1
Degree of protection	IP 55 to IEC/EN 60034-5
Type of cooling	IC 411, IC 416, IC 71W (IC 31W) to IEC/EN 60034-6
Coolant temperature/ installation altitude	Standard -20 °C to +40 °C, Deviating coolant temperatures upon request Altitude 1000 m above sea level
Rated voltage	Standard voltages to EN 60038 50 Hz: 230 V, 400 V, 500 V, 690 V, 60 Hz: 275 V, 460 V, 480 V, 600 V
Duty types	Continuous duty S1, converter-fed operation S9
Types of construction	IM B3, IM B35, IM B5 and derived types to IEC/EN 60034-7
Paint finish	Normal finish "Moderate", colour RAL 7031, blue-grey Special finish "Worldwide", colour RAL 7031, blue-grey
Vibration severity grade	Grade "A" as standard for machines with no special vibration requirements
Shaft ends	to DIN 748 (IEC 60072), balanced with half-key
Limit speeds	Please refer to the section of "Limit speeds" in catalogue section "Motors for converter-fed operation", Chapter 4.
Bearing design	Please refer to the tables of bearing design data.
Motor mass	Please refer to the technical selection lists.
Terminal boxes	Please refer to the section "Terminal boxes".
Documentation	An operating and maintenance manual, a terminal plan and a safety data sheet are supplied with each motor.
Tolerances	Please refer to the section "Tolerances" in catalogue section "Introduction", Chapter 1.
Options	Please refer to the section "Overview of modifications" in catalogue section "Introduction", Chapter 1.

Motor selection data

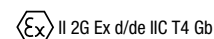
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1

II 2G Ex d/de IIC T4 Gb

for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	A	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version												
Efficiency according to manufacturer standard												
K82R 63 M2 Ex de IIC T4	0.18	0.6	2905	66	0.67	0.59	6.8	4.6	6.5	PTB 09 ATEX 1017 X	0.00028	16
K82R 63 MX2 Ex de IIC T4	0.25	0.8	2860	70	0.75	0.69	5.8	3.4	4.7	PTB 09 ATEX 1017 X	0.00028	16
K82R 71 M2 Ex de IIC T4	0.37	1.3	2800	71.5	0.84	0.89	5.2	2.7	3.5	PTB 09 ATEX 1017 X	0.00028	16
K82R 71 MX2 Ex de IIC T4	0.55	1.9	2810	72	0.82	1.34	5.5	2.8	3.6	PTB 09 ATEX 1017 X	0.00039	17
Efficiency according to IEC/EN 60034-30-1												
IE3-K82R 80 M2 Ex de IIC T4	0.75	2.48	2890	IE3- 82.8	0.87	1.5	6.6	3	3.6	PTB 16 ATEX 1002 X	0.0013	31
IE3-K82R 80 MX2 Ex de IIC T4	1.1	3.64	2885	IE3- 83.7	0.87	2.2	6.5	2.9	3.5	PTB 16 ATEX 1002 X	0.0018	35
IE3-K82R 90 S2 Ex de IIC T4	1.5	4.95	2895	IE3- 84.7	0.88	2.9	6.8	3	3.5	PTB 16 ATEX 1002 X	0.0029	45
IE3-K82R 90 L2 Ex de IIC T4	2.2	7.2	2900	IE3- 86.4	0.88	4.2	6.9	3	3.6	PTB 16 ATEX 1002 X	0.0039	48
IE3-K82R 100 L2 Ex de IIC T4	3	9.8	2910	IE3- 88.1	0.88	5.6	6.9	2.5	2.9	PTB 16 ATEX 1003 X	0.0051	53
IE3-K82R 112 M2 Ex de IIC T4	4	13	2930	IE3- 88.4	0.87	7.5	6.9	2.8	3.6	PTB 16 ATEX 1003 X	0.0089	95
IE3-K82R 132 S2 Ex de IIC T4	5.5	18	2925	IE3- 89.5	0.89	10	7	2.5	3.3	PTB 16 ATEX 1004 X	0.0125	103
IE3-K82R 132 SX2 Ex de IIC T4	7.5	24.4	2930	IE3- 90.3	0.89	13.5	7.1	2.7	3.5	PTB 16 ATEX 1004 X	0.0177	115
K82R 160 M2 Ex de IIC T4 Y3	11	35.7	2940	IE3- 91.3	0.87	20	7.3	3	3.6	PTB 09 ATEX 1018 X	0.032	163
K82R 160 MX2 Ex de IIC T4 Y3	15	48.7	2940	IE3- 92	0.9	26	7.2	2.8	3.2	PTB 09 ATEX 1018 X	0.043	173
K82R 160 L2 Ex de IIC T4 Y3	18.5	60	2940	IE3- 92.5	0.91	31.5	7.2	2.7	3.1	PTB 09 ATEX 1018 X	0.052	188
K82R 180 M2 Ex de IIC T4 Y3	22	71	2945	IE3- 92.9	0.91	37.5	7.5	2.6	3.2	PTB 09 ATEX 1018 X	0.075	196
K82R 200 L2 Ex de IIC T4 Y3	30	97	2955	IE3- 93.5	0.9	51	7.5	2.7	3.1	PTB 09 ATEX 1019 X	0.13	254
K82R 200 LX2 Ex de IIC T4 Y3	37	120	2955	IE3- 93.8	0.9	63	7.6	2.8	3.2	PTB 09 ATEX 1020 X	0.16	278
K82R 225 M2 Ex de IIC T4 Y3	45	145	2960	IE3- 94.2	0.9	77	7.3	2.7	3	PTB 09 ATEX 1020 X	0.24	400
K82R 250 M2 Ex de IIC T4 Y3	55	177	2970	IE3- 94.4	0.88	96	7.5	2.8	3.1	PTB 09 ATEX 1018 X	0.4	545
K82R 280 S2 Ex de IIC T4 Y3	75	241	2975	IE3- 94.8	0.88	130	7.1	2.3	2.8	PTB 09 ATEX 1018 X	0.65	700
K82R 280 M2 Ex de IIC T4 Y3	90	288	2980	IE3- 95.1	0.87	157	7.4	2.4	2.9	PTB 09 ATEX 1018 X	0.78	762
K82R 315 S2 Ex de IIC T4 Y3	110	353	2975	IE3- 95.4	0.89	187	7.1	2.2	2.6	PTB 09 ATEX 1018 X	1.4	960
K82R 315 M2 Ex de IIC T4 Y3	132	424	2975	IE3- 95.8	0.9	220	6.8	2.1	2.5	PTB 09 ATEX 1018 X	1.6	1025
K82R 315 L2 Ex de IIC T4 Y3	160	514	2980	IE3- 95.9	0.9	270	7.4	2.4	2.7	PTB 09 ATEX 1018 X	1.7	1065
K82R 315 LX2 Ex de IIC T4 Y3	200	614	2980	IE3- 96	0.9	335	6.9	2.3	2.6	PTB 09 ATEX 1018 X	2.2	1270
K82R 315 LY2 Ex de IIC T4 Y3	250	801	2980	IE3- 96	0.92	410	7.2	1.7	2.7	PTB 09 ATEX 1018 X	2.8	1420
K82R 355 L2 Ex de IIC T4 Y3	315	1009	2980	IE3- 96.6	0.92	510	6.7	1.5	2.8	PTB 09 ATEX 1021 X	4.5	1900
K82R 355 LX2 Ex de IIC T4 Y3	355	1136	2985	IE3- 96.8	0.93	570	6.9	1.4	2.7	PTB 09 ATEX 1021 X	5	2050
Efficiency according to manufacturer standard												
K82R 355 LX2 Ex de IIC T4	400	1280	2985	96.8	0.93	640	7	1.3	2.8		5.5	2350
K82R 400 L2 Ex de IIC T4	450	1437	2990	97	0.94	710	7.2	1.1	2.8		8.5	2910

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1



for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version												
Efficiency according to manufacturer standard												
K82R 63 M4 Ex de IIC T4	0.12	0.8	1445	67	0.60	0.43	5.6	3.9	3.9	PTB 09 ATEX 1017 X	0.00046	16
K82R 63 MX4 Ex de IIC T4	0.18	1.2	1415	70	0.70	0.53	4.7	2.7	2.7	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 M4 Ex de IIC T4	0.25	1.7	1370	68.5	0.80	0.66	3.9	2	2.3	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 MX4 Ex de IIC T4	0.37	2.6	1380	71	0.80	0.94	3.9	2.2	2.3	PTB 09 ATEX 1017 X	0.00063	17
K82R 80 M4 Ex de IIC T4	0.55	3.8	1380	72	0.80	1.36	3.8	2	2.3	PTB 09 ATEX 1018 X	0.00092	24
Efficiency according to IEC/EN 60034-30-1												
IE3-K82R 80 MX4 Ex de IIC T4	0.75	5	1445	IE3- 82.6	0.78	1.68	6.8	3.2	4.2	PTB 16 ATEX 1002 X	0.0029	35
IE3-K82R 90 S4 Ex de IIC T4	1.1	7.2	1455	IE3- 84.2	0.8	2.35	6.8	2.4	3.1	PTB 16 ATEX 1002 X	0.0046	44
IE3-K82R 90 L4 Ex de IIC T4	1.5	9.9	1450	IE3- 85.5	0.81	3.15	6.9	2.5	3.2	PTB 16 ATEX 1002 X	0.0056	46
IE3-K82R 100 L4 Ex de IIC T4	2.2	14.5	1450	IE3- 87.1	0.84	4.35	7.3	2.9	3.3	PTB 16 ATEX 1003 X	0.011	59
IE3-K82R 100 LX4 Ex de IIC T4	3	18.8	1450	IE3- 87.8	0.84	5.9	7.4	3.1	3.6	PTB 16 ATEX 1003 X	0.011	59
IE3-K82R 112 M4 Ex de IIC T4	4	26.2	1460	IE3- 88.7	0.83	7.8	7.2	3	3.4	PTB 16 ATEX 1003 X	0.022	100
IE3-K82R 132 S4 Ex de IIC T4	5.5	36	1460	IE3- 89.6	0.85	10.4	7.1	3.2	3.5	PTB 16 ATEX 1004 X	0.03	113
IE3-K82R 132 M4 Ex de IIC T4	7.5	49	1460	IE3- 90.5	0.86	13.9	7.4	3.1	3.3	PTB 16 ATEX 1004 X	0.041	125
K82R 160 M4 Ex de IIC T4 Y3	11	71	1470	IE3- 91.5	0.85	20.5	7.1	2.8	3.1	PTB 09 ATEX 1018 X	0.079	184
K82R 160 L4 Ex de IIC T4 Y3	15	97	1470	IE3- 92.1	0.83	28.5	7.4	3.1	3.4	PTB 09 ATEX 1018 X	0.092	208
K82R 180 M4 Ex de IIC T4 Y3	18.5	120	1470	IE3- 92.7	0.83	34.5	7.4	3.3	3.4	PTB 09 ATEX 1018 X	0.155	217
K82R 180 L4 Ex de IIC T4 Y3	22	143	1470	IE3- 93.2	0.83	41	7.4	3.3	3.3	PTB 09 ATEX 1019 X	0.197	272
K82R 200 L4 Ex de IIC T4 Y3	30	195	1470	IE3- 93.8	0.85	54	7.6	3.1	3.3	PTB 09 ATEX 1019 X	0.25	274
K82R 225 S4 Ex de IIC T4 Y3	37	240	1475	IE3- 93.9	0.85	67	7.1	3	2.9	PTB 09 ATEX 1020 X	0.4	372
K82R 225 M4 Ex de IIC T4 Y3	45	291	1475	IE3- 94.3	0.86	80	7.2	3.1	3	PTB 09 ATEX 1018 X	0.48	402
K82R 250 M4 Ex de IIC T4 Y3	55	356	1475	IE3- 94.6	0.88	95	7.3	3.1	3	PTB 09 ATEX 1018 X	0.75	588
K82R 280 S4 Ex de IIC T4 Y3	75	484	1480	IE3- 95.2	0.85	134	7.4	3	2.8	PTB 09 ATEX 1018 X	1.25	740
K82R 280 M4 Ex de IIC T4 Y3	90	579	1485	IE3- 95.3	0.85	160	7.8	3.2	3	PTB 09 ATEX 1018 X	1.48	820
K82R 315 S4 Ex de IIC T4 Y3	110	707	1485	IE3- 95.6	0.84	198	6.9	2.7	2.7	PTB 09 ATEX 1018 X	2.2	1040
K82R 315 M4 Ex de IIC T4 Y3	132	849	1485	IE3- 95.8	0.84	235	7	2.7	2.7	PTB 09 ATEX 1018 X	2.7	1120
K82R 315 L4 Ex de IIC T4 Y3	160	1026	1490	IE3- 96	0.84	285	7.4	2.8	2.8	PTB 09 ATEX 1018 X	3.1	1210
K82R 315 LX4 Ex de IIC T4 Y3	200	1286	1490	IE3- 96.1	0.85	355	6.9	2.6	2.6	PTB 09 ATEX 1018 X	3.9	1430
K82R 315 LY4 Ex de IIC T4 Y3	250	1602	1490	IE3- 96.2	0.87	430	7.3	1.7	2.7	PTB 09 ATEX 1018 X	4.6	1565
K82R 355 L4 Ex de IIC T4 Y3	315	2019	1490	IE3- 96.3	0.9	525	6.9	1.5	2.7	PTB 09 ATEX 1018 X	6.1	2050
K82R 355 LX4 Ex de IIC T4 Y3	355	2275	1490	IE3- 96.6	0.9	590	6.9	1.6	2.8	PTB 09 ATEX 1021 X	6.7	2200
Efficiency according to manufacturer standard												
K82R 355 LY4 Ex de IIC T4	400	2564	1490	97	0.90	665	7	1.5	2.8	PTB 09 ATEX 1021 X	7.4	2430
K82R 400 M4 Ex de IIC T4	450	2875	1495	97	0.91	735	7.3	1.1	2.7	PTB 09 ATEX 1022 X	18	2850
K82R 400 L4 Ex de IIC T4	500	3194	1495	97.1	0.91	815	7.3	1.1	2.7	PTB 09 ATEX 1022 X	20	3230
K82R 450 M4 Ex de IIC T4	560	3577	1495	97.2	0.91	915	6.8	1	2.7	PTB 09 ATEX 1023 X	26	3500
K82R 450 L4 Ex de IIC T4	630	4024	1495	97.4	0.91	1025	6.8	1	2.7	PTB 09 ATEX 1023 X	31	3800

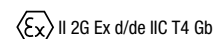
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“) for operation in Zone 1 according to EN 60079-1

II 2G Ex d/de IIC T4 Gb

for rated voltage, temperature class T4
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	A	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version												
Efficiency according to manufacturer standard												
K82R 71 MX6 Ex de IIC T4	0.25	2.6	920	62	0.71	0.82	3.5	2.2	2.6	PTB 09 ATEX 1017 X	0.0012	17
K82R 80 M6 Ex de IIC T4	0.37	3.8	925	67	0.71	1.12	4.1	2.5	2.8	PTB 09 ATEX 1018 X	0.0019	24
K82R 80 MX6 Ex de IIC T4	0.55	5.7	925	69	0.72	1.6	4	2.4	2.7	PTB 09 ATEX 1018 X	0.0025	25
Efficiency according to IEC/EN 60034-30-1												
IE3-K82R 90 S6 Ex de IIC T4	0.75	7.5	955	IE3- 79.1	0.7	1.96	5.5	2.7	3.1	PTB 16 ATEX 1002 X	0.008	44
IE3-K82R 90 L6 Ex de IIC T4	1.1	11	955	IE3- 81.4	0.72	2.7	5.9	2.8	3.1	PTB 16 ATEX 1002 X	0.0095	46
IE3-K82R 100 L6 Ex de IIC T4	1.5	14.8	965	IE3- 83.5	0.71	3.65	6.8	3	3.3	PTB 16 ATEX 1003 X	0.017	59
IE3-K82R 112 M6 Ex de IIC T4	2.2	21.8	965	IE3- 85.5	0.78	4.75	6.8	2.6	3.1	PTB 16 ATEX 1003 X	0.031	100
IE3-K82R 132 S6 Ex de IIC T4	3	29.5	970	IE3- 85.7	0.74	6.8	7.1	3.2	3.7	PTB 16 ATEX 1004 X	0.031	100
IE3-K82R 132 M6 Ex de IIC T4	4	39.6	965	IE3- 87	0.76	8.7	6.9	2.9	3.7	PTB 16 ATEX 1004 X	0.037	104
IE3-K82R 132 MX6 Ex de IIC T4	5.5	54	965	IE3- 88.3	0.81	11.1	7.2	2.7	3.4	PTB 16 ATEX 1004 X	0.048	117
K82R 160 M6 Ex de IIC T4 Y3	7.5	74	970	IE3- 89.4	0.84	14.4	7.5	2.8	3.8	PTB 09 ATEX 1018 X	0.12	190
K82R 160 L6 Ex de IIC T4 Y3	11	108	975	IE3- 90.5	0.84	21	7.6	3	3.9	PTB 09 ATEX 1018 X	0.14	220
K82R 180 L6 Ex de IIC T4 Y3	15	147	975	IE3- 91.5	0.82	29	7.4	2.7	3.8	PTB 09 ATEX 1019 X	0.19	215
K82R 200 L6 Ex de IIC T4 Y3	18.5	181	975	IE3- 92	0.83	35	7	2.5	3.5	PTB 09 ATEX 1020 X	0.28	270
K82R 200 LX6 Ex de IIC T4 Y3	22	215	975	IE3- 92.4	0.84	41	6.9	2.2	3.2	PTB 09 ATEX 1020 X	0.31	280
K82R 225 M6 Ex de IIC T4 Y3	30	291	985	IE3- 93	0.83	56	6.9	3	2.7	PTB 09 ATEX 1018 X	0.69	404
K82R 250 M6 Ex de IIC T4 Y3	37	359	985	IE3- 93.5	0.83	69	6.8	3	2.7	PTB 09 ATEX 1018 X	1.03	570
K82R 280 S6 Ex de IIC T4 Y3	45	434	990	IE3- 93.9	0.82	84	6.6	2.8	2.4	PTB 09 ATEX 1018 X	1.35	720
K82R 280 M6 Ex de IIC T4 Y3	55	533	985	IE3- 94.4	0.81	104	6.5	2.8	2.4	PTB 09 ATEX 1018 X	1.7	770
K82R 315 S6 Ex de IIC T4 Y3	75	723	990	IE3- 94.9	0.88	130	7.2	3	2.7	PTB 09 ATEX 1018 X	4.3	995
K82R 315 M6 Ex de IIC T4 Y3	90	868	990	IE3- 95.2	0.88	155	7.7	3.2	2.8	PTB 09 ATEX 1018 X	5	1050
K82R 315 L6 Ex de IIC T4 Y3	110	1061	990	IE3- 95.5	0.88	189	7.8	3.3	2.8	PTB 09 ATEX 1018 X	6	1145
K82R 315 LX6 Ex de IIC T4 Y3	132	1273	990	IE3- 95.6	0.88	225	7.7	3.2	2.8	PTB 09 ATEX 1018 X	7.3	1265
K82R 315 LY6 Ex de IIC T4 Y3	160	1543	990	IE3- 95.8	0.88	275	7.8	3.3	2.8	PTB 09 ATEX 1018 X	8.3	1440
K82R 355 M6 Ex de IIC T4 Y3	200	1929	990	IE3- 95.9	0.87	345	6.7	1.8	2.7	PTB 09 ATEX 1021 X	11.3	1750
K82R 355 L6 Ex de IIC T4 Y3	250	2411	990	IE3- 95.9	0.88	430	6.7	1.8	2.7	PTB 09 ATEX 1021 X	13.8	1950
K82R 355 LX6 Ex de IIC T4 Y3	315	3039	990	IE3- 96	0.88	540	6.9	1.7	2.6	PTB 09 ATEX 1021 X	17.6	2300
K82R 400 M6 Ex de IIC T4 Y3	355	3411	990	IE3- 96.6	0.89	595	6.6	1.1	2.7	PTB 09 ATEX 1022 X	21	2850
Efficiency according to manufacturer standard												
K82R 400 L6 Ex de IIC T4	400	3843	994	96.6	0.89	670	6.8	1.1	2.6	PTB 09 ATEX 1022 X	31	3230
K82R 450 M6 Ex de IIC T4	450	4319	995	96.6	0.89	755	6.8	1.2	2.8	PTB 09 ATEX 1023 X	46	3500
K82R 450 L6 Ex de IIC T4	500	4799	995	97	0.89	835	6.8	1.1	2.7	PTB 09 ATEX 1023 X	51	3800

Three-phase motors with squirrel-cage rotor, High Efficiency IE2
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1



for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz			
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m	
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg	
Synchronous speed 3000 rpm – 2-pole version													
Efficiency according to manufacturer standard													
K82R 63 M2 Ex de IIC T4	0.18	0.6	2905	66	0.67	0.59	6.8	4.6	6.5	PTB 09 ATEX 1017 X	0.00028	16	
K82R 63 MX2 Ex de IIC T4	0.25	0.8	2860	70	0.75	0.69	5.8	3.4	4.7	PTB 09 ATEX 1017 X	0.00028	16	
K82R 71 M2 Ex de IIC T4	0.37	1.3	2800	71.5	0.84	0.89	5.2	2.7	3.5	PTB 09 ATEX 1017 X	0.00028	16	
K82R 71 MX2 Ex de IIC T4	0.55	1.9	2810	72	0.82	1.34	5.5	2.8	3.6	PTB 09 ATEX 1017 X	0.00039	17	
Efficiency according to IEC/EN 60034-30-1													
IE2-K82R 80 M2 Ex de IIC T4	0.75	2.48	2890	IE2-	79	0.87	1.58	6.6	3	3.6	PTB 16 ATEX 1002 X	0.0013	31
IE2-K82R 80 MX2 Ex de IIC T4	1.1	3.64	2885	IE2-	81.1	0.87	2.25	6.5	2.9	3.5	PTB 16 ATEX 1002 X	0.0018	35
IE2-K82R 90 S2 Ex de IIC T4	1.5	4.95	2895	IE2-	82.7	0.88	3	6.8	3	3.5	PTB 16 ATEX 1002 X	0.0029	45
IE2-K82R 90 L2 Ex de IIC T4	2.2	7.2	2900	IE2-	84.5	0.88	4.25	6.9	3	3.6	PTB 16 ATEX 1002 X	0.0039	48
IE2-K82R 100 L2 Ex de IIC T4	3	9.8	2910	IE2-	85.8	0.88	5.7	6.9	2.5	2.9	PTB 16 ATEX 1003 X	0.0051	53
IE2-K82R 112 M2 Ex de IIC T4	4	13	2930	IE2-	86.9	0.87	7.6	6.9	2.8	3.6	PTB 16 ATEX 1003 X	0.0089	95
IE2-K82R 132 S2 Ex de IIC T4	5.5	18	2925	IE2-	88.1	0.89	10.1	7	2.5	3.3	PTB 16 ATEX 1004 X	0.0125	103
IE2-K82R 132 SX2 Ex de IIC T4	7.5	24.4	2930	IE2-	89.1	0.89	13.7	7.1	2.7	3.5	PTB 16 ATEX 1004 X	0.0177	115
K82R 160 M2 Ex de IIC T4 Y2	11	35.7	2940	IE2-	90.3	0.87	20	7.3	3	3.6	PTB 09 ATEX 1018 X	0.032	163
K82R 160 MX2 Ex de IIC T4 Y2	15	48.7	2940	IE2-	91.1	0.9	26.5	7.2	2.8	3.2	PTB 09 ATEX 1018 X	0.043	173
K82R 160 L2 Ex de IIC T4 Y2	18.5	60	2940	IE2-	91.6	0.91	32	7.2	2.7	3.1	PTB 09 ATEX 1018 X	0.052	188
K82R 180 M2 Ex de IIC T4 Y2	22	71	2945	IE2-	92	0.91	38	7.5	2.6	3.2	PTB 09 ATEX 1018 X	0.075	196
K82R 200 L2 Ex de IIC T4 Y2	30	97	2955	IE2-	92.7	0.9	52	7.5	2.7	3.1	PTB 09 ATEX 1019 X	0.13	254
K82R 200 LX2 Ex de IIC T4 Y2	37	120	2955	IE2-	93.3	0.91	63	7.2	2.7	3	PTB 09 ATEX 1020 X	0.16	278
K82R 225 M2 Ex de IIC T4 Y2	45	145	2960	IE2-	93.4	0.9	77	7.3	2.7	3	PTB 09 ATEX 1020 X	0.24	400
K82R 250 M2 Ex de IIC T4 Y2	55	177	2970	IE2-	93.8	0.89	95	7.1	2.4	2.8	PTB 09 ATEX 1018 X	0.4	545
K82R 280 S2 Ex de IIC T4 Y2	75	241	2970	IE2-	94.5	0.9	129	6.8	2.2	2.7	PTB 09 ATEX 1018 X	0.65	700
K82R 280 M2 Ex de IIC T4 Y2	90	288	2970	IE2-	94.7	0.89	152	6.8	2.4	2.8	PTB 09 ATEX 1018 X	0.78	762
K82R 315 S2 Ex de IIC T4 Y2	110	353	2975	IE2-	95	0.89	188	6.5	2	2.4	PTB 09 ATEX 1018 X	1.4	960
K82R 315 M2 Ex de IIC T4 Y2	132	424	2975	IE2-	95.5	0.89	225	6.8	2.1	2.5	PTB 09 ATEX 1018 X	1.6	1025
K82R 315 L2 Ex de IIC T4 Y2	160	514	2975	IE2-	95.7	0.9	270	6.9	2.4	2.7	PTB 09 ATEX 1018 X	1.7	1065
K82R 315 LX2 Ex de IIC T4 Y2	200	614	2980	IE2-	95.8	0.9	335	6.9	2.3	2.6	PTB 09 ATEX 1018 X	2.2	1270
K82R 315 LY2 Ex de IIC T4 Y2	250	801	2980	IE2-	96	0.92	410	7.2	1.7	2.7	PTB 09 ATEX 1018 X	2.8	1420
K82R 355 L2 Ex de IIC T4 Y2	315	1009	2980	IE2-	96.6	0.92	510	6.7	1.5	2.8	PTB 09 ATEX 1021 X	4.5	1900
K82R 355 LX2 Ex de IIC T4 Y2	355	1036	2985	IE2-	96.8	0.93	570	6.9	1.4	2.7	PTB 09 ATEX 1021 X	5	2050
Efficiency according to manufacturer standard (IEC/EN 60034-2)													
K82R 355 LY2 Ex de IIC T4	400	1280	2985		96.8	0.94	640	7	1.3	2.8	PTB 09 ATEX 1021 X	5.5	2350
K82R 400 L2 Ex de IIC T4	450	1437.3	2990		97	0.94	710	7.2	1.1	2.8	PTB 09 ATEX 1022 X	8.5	2910

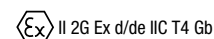
Three-phase motors with squirrel-cage rotor, High Efficiency IE2 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“) for operation in Zone 1 according to EN 60079-1

II 2G Ex d/de IIC T4 Gb

for rated voltage, temperature class T4
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	A	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version												
Efficiency according to manufacturer standard												
K82R 63 M4 Ex de IIC T4	0.12	0.8	1445	67	0.60	0.43	5.6	3.9	3.9	PTB 09 ATEX 1017 X	0.00046	16
K82R 63 MX4 Ex de IIC T4	0.18	1.2	1415	70	0.70	0.53	4.7	2.7	2.7	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 M4 Ex de IIC T4	0.25	1.7	1370	68.5	0.80	0.66	3.9	2	2.3	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 MX4 Ex de IIC T4	0.37	2.6	1380	71	0.80	0.94	3.9	2.2	2.3	PTB 09 ATEX 1017 X	0.00063	17
K82R 80 M4 Ex de IIC T4	0.55	3.8	1380	72	0.80	1.36	3.8	2	2.3	PTB 09 ATEX 1018 X	0.00092	24
Efficiency according to IEC/EN 60034-30-1												
IE2-K82R 80 MX4 Ex de IIC T4	0.75	5	1445	IE2- 81	0.78	1.71	6.8	3.2	4.2	PTB 16 ATEX 1002 X	0.0029	35
IE2-K82R 90 S4 Ex de IIC T4	1.1	7.2	1455	IE2- 82.7	0.8	2.4	6.8	2.4	3.1	PTB 16 ATEX 1002 X	0.0046	44
IE2-K82R 90 L4 Ex de IIC T4	1.5	9.9	1450	IE2- 84	0.81	3.2	6.9	2.5	3.2	PTB 16 ATEX 1002 X	0.0056	46
IE2-K82R 100 L4 Ex de IIC T4	2.2	14.5	1450	IE2- 85.5	0.84	4.4	7.3	2.9	3.3	PTB 16 ATEX 1003 X	0.011	59
IE2-K82R 100 LX4 Ex de IIC T4	3	18.8	1450	IE2- 86.6	0.84	6	7.4	3.1	3.6	PTB 16 ATEX 1003 X	0.011	59
IE2-K82R 112 M4 Ex de IIC T4	4	26.2	1460	IE2- 87.6	0.83	7.9	7.2	3	3.4	PTB 16 ATEX 1003 X	0.022	100
IE2-K82R 132 S4 Ex de IIC T4	5.5	36	1460	IE2- 88.6	0.85	10.5	7.1	3.2	3.5	PTB 16 ATEX 1004 X	0.03	113
IE2-K82R 132 M4 Ex de IIC T4	7.5	49	1460	IE2- 89.5	0.86	14.1	7.4	3.1	3.3	PTB 16 ATEX 1004 X	0.041	125
K82R 160 M4 Ex de IIC T4 Y2	11	71	1470	IE2- 90.6	0.85	20.5	7.1	2.8	3.1	PTB 09 ATEX 1018 X	0.079	184
K82R 160 L4 Ex de IIC T4 Y2	15	97	1470	IE2- 91.3	0.83	28.5	7.4	3	3.3	PTB 09 ATEX 1018 X	0.083	187
K82R 180 M4 Ex de IIC T4 Y2	18.5	120	1470	IE2- 91.9	0.83	35	7.4	3.3	3.4	PTB 09 ATEX 1018 X	0.155	217
K82R 180 L4 Ex de IIC T4 Y2	22	143	1470	IE2- 92.3	0.83	41.5	7.3	3.3	3.3	PTB 09 ATEX 1019 X	0.164	225
K82R 200 L4 Ex de IIC T4 Y2	30	195	1470	IE2- 92.9	0.85	55	7.6	3.1	3.3	PTB 09 ATEX 1019 X	0.25	274
K82R 225 S4 Ex de IIC T4 Y2	37	240	1475	IE2- 93.3	0.85	67	7.1	3	2.9	PTB 09 ATEX 1020 X	0.4	372
K82R 225 M4 Ex de IIC T4 Y2	45	291	1475	IE2- 93.6	0.86	81	7.2	3.1	3	PTB 09 ATEX 1018 X	0.48	402
K82R 250 M4 Ex de IIC T4 Y2	55	356	1475	IE2- 94	0.88	96	7.3	3.1	3	PTB 09 ATEX 1018 X	0.75	588
K82R 280 S4 Ex de IIC T4 Y2	75	484	1480	IE2- 94.5	0.85	135	7.4	3	2.8	PTB 09 ATEX 1018 X	1.25	740
K82R 280 M4 Ex de IIC T4 Y2	90	579	1485	IE2- 94.7	0.85	161	7.8	3.2	3	PTB 09 ATEX 1018 X	1.48	820
K82R 315 S4 Ex de IIC T4 Y2	110	707	1485	IE2- 95.1	0.85	196	6.7	2.5	2.5	PTB 09 ATEX 1018 X	2.2	1040
K82R 315 M4 Ex de IIC T4 Y2	132	849	1485	IE2- 95.3	0.85	235	6.8	2.6	2.6	PTB 09 ATEX 1018 X	2.7	1120
K82R 315 L4 Ex de IIC T4 Y2	160	1026	1485	IE2- 95.6	0.86	280	6.9	2.7	2.6	PTB 09 ATEX 1018 X	3.1	1210
K82R 315 LX4 Ex de IIC T4 Y2	200	1286	1485	IE2- 95.8	0.86	350	6.9	2.7	2.6	PTB 09 ATEX 1018 X	3.9	1430
K82R 315 LY4 Ex de IIC T4 Y2	250	1602	1490	IE2- 96.2	0.87	430	7.3	1.7	2.7	PTB 09 ATEX 1018 X	4.6	1565
K82R 355 L4 Ex de IIC T4 Y2	315	2019	1490	IE2- 96.3	0.9	525	6.9	1.5	2.7	PTB 09 ATEX 1018 X	6.1	2050
K82R 355 LX4 Ex de IIC T4 Y2	355	2275	1490	IE2- 96.6	0.9	590	6.9	1.6	2.8	PTB 09 ATEX 1021 X	6.7	2200
Efficiency according to manufacturer standard												
K82R 355 LY4 Ex de IIC T4	400	2564	1490	97	0.90	665	7	1.5	2.8	PTB 09 ATEX 1021 X	7.4	2430
K82R 400 M4 Ex de IIC T4	450	2875	1495	97	0.91	735	7.3	1.1	2.7	PTB 09 ATEX 1022 X	18	2850
K82R 400 L4 Ex de IIC T4	500	3194	1495	97.1	0.91	815	7.3	1.1	2.7	PTB 09 ATEX 1022 X	20	3230
K82R 450 M4 Ex de IIC T4	560	3577	1495	97.2	0.91	915	6.8	1	2.7	PTB 09 ATEX 1023 X	26	3500
K82R 450 L4 Ex de IIC T4	630	4024	1495	97.4	0.91	1025	6.8	1	2.7	PTB 09 ATEX 1023 X	31	3800

Three-phase motors with squirrel-cage rotor, High Efficiency IE2
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1



for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version												
Efficiency according to manufacturer standard												
K82R 71 MX6 Ex de IIC T4	0.25	2.6	920	62	0.71	0.82	3.5	2.2	2.6	PTB 09 ATEX 1017 X	0.0012	17
K82R 80 M6 Ex de IIC T4	0.37	3.8	925	67	0.71	1.12	4.1	2.5	2.8	PTB 09 ATEX 1018 X	0.0019	24
K82R 80 MX6 Ex de IIC T4	0.55	5.7	925	69	0.72	1.6	4	2.4	2.7	PTB 09 ATEX 1018 X	0.0025	25
Efficiency according to IEC/EN 60034-30-1												
IE2-K82R 90 S6 Ex de IIC T4	0.75	7.5	955	IE2- 77.4	0.7	2	5.5	2.7	3.1	PTB 16 ATEX 1002 X	0.0080	44
IE2-K82R 90 L6 Ex de IIC T4	1.1	11	955	IE2- 79.5	0.72	2.75	5.9	2.8	3.1	PTB 16 ATEX 1002 X	0.0095	46
IE2-K82R 100 L6 Ex de IIC T4	1.5	14.8	965	IE2- 81.1	0.71	3.75	6.8	3	3.3	PTB 16 ATEX 1003 X	0.017	59
IE2-K82R 112 M6 Ex de IIC T4	2.2	21.8	965	IE2- 83	0.78	4.9	6.8	2.6	3.1	PTB 16 ATEX 1003 X	0.031	100
IE2-K82R 132 S6 Ex de IIC T4	3	29.5	970	IE2- 84.4	0.74	6.9	7.1	3.2	3.7	PTB 16 ATEX 1004 X	0.031	100
IE2-K82R 132 M6 Ex de IIC T4	4	39.6	965	IE2- 85.7	0.76	8.9	6.9	2.9	3.7	PTB 16 ATEX 1004 X	0.037	104
IE2-K82R 132 MX6 Ex de IIC T4	5.5	54	965	IE2- 87	0.81	11.3	7.2	2.7	3.4	PTB 16 ATEX 1004 X	0.048	117
K82R 160 M6 Ex de IIC T4 Y2	7.5	74	970	IE2- 88.1	0.84	14.6	7.5	2.8	3.8	PTB 09 ATEX 1018 X	0.12	190
K82R 160 L6 Ex de IIC T4 Y2	11	108	975	IE2- 89.5	0.81	22	7.6	2.9	3.9	PTB 09 ATEX 1018 X	0.12	190
K82R 180 L6 Ex de IIC T4 Y2	15	147	975	IE2- 90.4	0.82	29	7.4	2.7	3.8	PTB 09 ATEX 1019 X	0.19	215
K82R 200 L6 Ex de IIC T4 Y2	18.5	181	975	IE2- 91	0.83	35.5	7	2.5	3.5	PTB 09 ATEX 1020 X	0.28	270
K82R 200 LX6 Ex de IIC T4 Y2	22	215	975	IE2- 91.5	0.84	41.5	6.9	2.2	3.2	PTB 09 ATEX 1020 X	0.31	280
K82R 225 M6 Ex de IIC T4 Y2	30	291	985	IE2- 92.3	0.83	57	6.9	3	2.7	PTB 09 ATEX 1018 X	0.69	404
K82R 250 M6 Ex de IIC T4 Y2	37	359	985	IE2- 92.7	0.83	69	6.8	3	2.7	PTB 09 ATEX 1018 X	1.03	570
K82R 280 S6 Ex de IIC T4 Y2	45	434	985	IE2- 93.5	0.83	84	5.8	2.8	2.4	PTB 09 ATEX 1018 X	1.35	720
K82R 280 M6 Ex de IIC T4 Y2	55	533	985	IE2- 93.6	0.82	103	5.8	2.7	2.3	PTB 09 ATEX 1018 X	1.7	770
K82R 315 S6 Ex de IIC T4 Y2	75	723	990	IE2- 94.1	0.88	131	7.2	3	2.7	PTB 09 ATEX 1018 X	4.3	995
K82R 315 M6 Ex de IIC T4 Y2	90	868	990	IE2- 94.4	0.88	156	7.7	3.2	2.8	PTB 09 ATEX 1018 X	5	1050
K82R 315 L6 Ex de IIC T4 Y2	110	1061	990	IE2- 94.7	0.88	191	7.8	3.3	2.8	PTB 09 ATEX 1018 X	6	1145
K82R 315 LX6 Ex de IIC T4 Y2	132	1273	990	IE2- 95	0.88	230	7.7	3.2	2.8	PTB 09 ATEX 1018 X	7.3	1265
K82R 315 LY6 Ex de IIC T4 Y2	160	1543	990	IE2- 95.2	0.88	275	7.8	3.3	2.8	PTB 09 ATEX 1018 X	8.3	1440
K82R 355 M6 Ex de IIC T4 Y2	200	1929	990	IE2- 95.5	0.88	345	6.7	1.8	2.7	PTB 09 ATEX 1021 X	11.3	1750
K82R 355 L6 Ex de IIC T4 Y2	250	2411	990	IE2- 95.9	0.88	430	6.7	1.8	2.7	PTB 09 ATEX 1021 X	13.8	1950
K82R 355 LX6 Ex de IIC T4 Y2	315	3039	990	IE2- 96	0.88	540	6.9	1.7	2.6	PTB 09 ATEX 1021 X	17.6	2300
K82R 400 M6 Ex de IIC T4 Y2	355	3411	994	IE2- 96.6	0.89	595	6.6	1.7	2.7	PTB 09 ATEX 1022 X	27	2850
Efficiency according to manufacturer standard												
K82R 400 L 6 Ex de IIC T4	400	3843	994	96.6	0.89	670	6.8	1.1	2.6	PTB 09 ATEX 1022 X	31	3230
K82R 450 M 6 Ex de IIC T4	450	4319	995	96.6	0.89	755	6.8	1.2	2.8	PTB 09 ATEX 1023 X	46	3500
K82R 450 L6 Ex de IIC T4	500	4799	995	97	0.89	835	6.8	1.1	2.7	PTB 09 ATEX 1023 X	51	3800

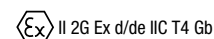
Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1

II 2G Ex d/de IIC T4 Gb

for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _x /I _B	M _x /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version												
K82R 63 M2 Ex de IIC T4	0.18	0.6	2905	66	0.67	0.59	6.8	4.6	6.5	PTB 09 ATEX 1017 X	0.00028	16
K82R 63 MX2 Ex de IIC T4	0.25	0.8	2860	70	0.75	0.69	5.8	3.4	4.7	PTB 09 ATEX 1017 X	0.00028	16
K82R 71 M2 Ex de IIC T4	0.37	1.3	2800	71.5	0.84	0.89	5.2	2.7	3.5	PTB 09 ATEX 1017 X	0.00028	16
K82R 71 MX2 Ex de IIC T4	0.55	1.9	2810	72	0.82	1.34	5.5	2.8	3.6	PTB 09 ATEX 1017 X	0.00039	17
K82R 80 M2 Ex de IIC T4	0.75	2.6	2790	IE1- 74.5	0.84	1.73	4.8	2.7	3.3	PTB 09 ATEX 1018 X	0.00058	24
K82R 80 MX2 Ex de IIC T4	1.1	3.7	2820	IE1- 78	0.82	2.5	5.5	2.8	3.5	PTB 09 ATEX 1018 X	0.0008	25
K82R 90 S2 Ex de IIC T4	1.5	5	2840	IE1- 77	0.86	3.25	5.9	2.9	3.2	PTB 09 ATEX 1018 X	0.0013	31
K82R 90 L2 Ex de IIC T4	2.2	7.4	2850	IE1- 82	0.85	4.55	6.3	3	3.5	PTB 09 ATEX 1018 X	0.0018	35
K82R 100 L2 Ex de IIC T4	3	10	2850	IE1- 82	0.87	6.1	6.8	2.7	3.3	PTB 09 ATEX 1018 X	0.0029	45
K82R 112 M2 Ex de IIC T4	4	13	2880	IE1- 85	0.88	7.7	6.5	2.3	3.1	PTB 09 ATEX 1018 X	0.0051	53
K82R 132 S2 Ex de IIC T4	5.5	18	2880	IE1- 85.5	0.87	10.7	6.4	2.5	3.3	PTB 09 ATEX 1018 X	0.0089	95
K82R 132 SX2 Ex de IIC T4	7.5	25	2910	IE1- 86.5	0.87	14.4	6.8	2.7	3.5	PTB 09 ATEX 1018 X	0.0125	100
K82R 160 M2 Ex de IIC T4	11	36	2925	IE1- 89	0.89	20	6.6	2.8	3.2	PTB 09 ATEX 1018 X	0.032	163
K82R 160 MX2 Ex de IIC T4	15	49	2920	IE1- 89	0.91	26.5	6.8	2.8	3.2	PTB 09 ATEX 1018 X	0.043	173
K82R 160 L2 Ex de IIC T4	18.5	60	2925	IE1- 90.5	0.92	32	6.8	2.6	3.1	PTB 09 ATEX 1018 X	0.052	188
K82R 180 M2 Ex de IIC T4	22	72	2925	IE1- 91.5	0.92	37.5	6.9	2.5	3	PTB 09 ATEX 1019 X	0.075	196
K82R 200 L2 Ex de IIC T4	30	97	2955	IE1- 92.5	0.90	52	7.2	2.6	2.9	PTB 09 ATEX 1020 X	0.13	254
K82R 200 LX2 Ex de IIC T4	37	120	2955	IE1- 93.3	0.91	63	7.2	2.7	3	PTB 09 ATEX 1020 X	0.16	278
K82R 225 M2 Ex de IIC T4	45	145	2960	IE1- 93	0.89	78	7.1	2.5	3	PTB 09 ATEX 1018 X	0.24	400
K82R 250 M2 Ex de IIC T4	55	177	2970	IE1- 93.8	0.89	95	7.1	2.4	2.8	PTB 09 ATEX 1018 X	0.4	545
K82R 280 S2 Ex de IIC T4	75	241	2970	IE1- 94.5	0.89	129	6.8	2.2	2.7	PTB 09 ATEX 1018 X	0.65	700
K82R 280 M2 Ex de IIC T4	90	289	2970	IE1- 94.7	0.9	152	6.8	2.4	2.8	PTB 09 ATEX 1018 X	0.78	762
K82R 315 S2 Ex de IIC T4	110	353	2975	IE1- 95	0.89	188	6.5	2	2.4	PTB 09 ATEX 1018 X	1.4	960
K82R 315 M2 Ex de IIC T4	132	424	2975	IE1- 95.5	0.89	225	6.8	2.1	2.5	PTB 09 ATEX 1018 X	1.6	1025
K82R 315 L2 Ex de IIC T4	160	514	2975	IE1- 95.7	0.90	270	6.9	2.4	2.7	PTB 09 ATEX 1018 X	1.9	1065
K82R 315 LX2 Ex de IIC T4	200	641	2980	IE1- 95.8	0.90	335	6.9	2.3	2.6	PTB 09 ATEX 1018 X	2.2	1270
K82R 315 LY2 Ex de IIC T4	250	801	2980	IE1- 96	0.92	410	7.2	1.7	2.7	PTB 09 ATEX 1018 X	2.8	1420
K82R 355 L2 Ex de IIC T4	315	1009	2980	IE1- 96.6	0.92	510	6.7	1.5	2.8	PTB 09 ATEX 1021 X	4.5	1900
K82R 355 LX2 Ex de IIC T4	355	1136	2985	IE1- 96.8	0.93	570	6.9	1.4	2.7	PTB 09 ATEX 1021 X	5	2050
K82R 355 LY2 Ex de IIC T4	400	1280	2985	96.8	0.94	640	7	1.3	2.8	PTB 09 ATEX 1021 X	5.5	2350
K82R 400 L2 Ex de IIC T4	450	1437	2990	97	0.94	710	7.2	1.1	2.8	PTB 09 ATEX 1022 X	8.5	2910

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1



for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

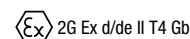
Motor selection data											Design point 400 V, 50 Hz	
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version												
K82R 63 M4 Ex de IIC T4	0.12	0.8	1445	67	0.60	0.43	5.6	3.9	3.9	PTB 09 ATEX 1017 X	0.00046	16
K82R 63 MX4 Ex de IIC T4	0.18	1.2	1415	70	0.70	0.53	4.7	2.7	2.7	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 M4 Ex de IIC T4	0.25	1.7	1370	68.5	0.80	0.66	3.9	2	2.3	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 MX4 Ex de IIC T4	0.37	2.6	1380	71	0.80	0.94	3.9	2.2	2.3	PTB 09 ATEX 1017 X	0.00063	17
K82R 80 M4 Ex de IIC T4	0.55	3.8	1380	72	0.80	1.36	3.8	2	2.3	PTB 09 ATEX 1018 X	0.00092	24
K82R 80 MX4 Ex de IIC T4	0.75	5.1	1400	IE1- 75.5	0.79	1.81	4.5	2.1	2.5	PTB 09 ATEX 1018 X	0.0013	25
K82R 90 S4 Ex de IIC T4	1.1	7.5	1400	IE1- 76	0.83	2.55	4.8	2.1	2.5	PTB 09 ATEX 1018 X	0.0021	31
K82R 90 L4 Ex de IIC T4	1.5	10	1405	IE1- 79	0.82	3.35	5	2.3	2.7	PTB 09 ATEX 1018 X	0.0029	35
K82R 100 L4 Ex de IIC T4	2.2	15	1420	IE1- 80	0.8	4.95	5.4	2.4	2.8	PTB 09 ATEX 1018 X	0.0046	44
K82R 100 LX4 Ex de IIC T4	3	20	1415	IE1- 81.7	0.82	6.5	5.5	2.3	2.7	PTB 09 ATEX 1018 X	0.0056	46
K82R 112 M4 Ex de IIC T4	4	27	1435	IE1- 85	0.84	8.1	6.8	2.7	3.2	PTB 09 ATEX 1018 X	0.011	59
K82R 132 S4 Ex de IIC T4	5.5	36	1440	IE1- 86.5	0.85	10.8	6.4	2.5	2.7	PTB 09 ATEX 1018 X	0.022	100
K82R 132 M4 Ex de IIC T4	7.5	50	1440	IE1- 88	0.86	14.3	6.5	2.7	2.8	PTB 09 ATEX 1018 X	0.03	110
K82R 160 M4 Ex de IIC T4	11	72	1460	IE1- 89.5	0.85	21	6.6	2.5	2.8	PTB 09 ATEX 1018 X	0.057	168
K82R 160 L4 Ex de IIC T4	15	98	1455	IE1- 90	0.86	28	6.7	2.8	3.1	PTB 09 ATEX 1018 X	0.079	184
K82R 180 M4 Ex de IIC T4	18.5	121	1460	IE1- 91	0.84	35	6.7	2.9	3	PTB 09 ATEX 1019 X	0.13	198
K82R 180 L4 Ex de IIC T4	22	144	1460	IE1- 91.5	0.84	41.5	6.9	3	3	PTB 09 ATEX 1019 X	0.155	217
K82R 200 L4 Ex de IIC T4	30	196	1460	IE1- 92.5	0.88	53	6.8	2.6	2.9	PTB 09 ATEX 1020 X	0.25	274
K82R 225 S4 Ex de IIC T4	37	241	1465	IE1- 93	0.88	65	6.7	2.7	2.6	PTB 09 ATEX 1018 X	0.4	372
K82R 225 M4 Ex de IIC T4	45	292	1470	IE1- 93.5	0.88	79	6.5	2.7	2.6	PTB 09 ATEX 1018 X	0.48	402
K82R 250 M4 Ex de IIC T4	55	357	1470	IE1- 93.8	0.89	95	7.1	2.9	2.9	PTB 09 ATEX 1018 X	0.75	573
K82R 280 S4 Ex de IIC T4	75	484	1480	IE1- 94	0.86	134	6.8	2.6	2.5	PTB 09 ATEX 1018 X	1.25	740
K82R 280 M4 Ex de IIC T4	90	581	1480	IE1- 94.5	0.86	160	6.9	2.8	2.6	PTB 09 ATEX 1018 X	1.48	820
K82R 315 S4 Ex de IIC T4	110	707	1485	IE1- 95.1	0.85	196	6.7	2.5	2.5	PTB 09 ATEX 1018 X	2.2	1040
K82R 315 M4 Ex de IIC T4	132	849	1485	IE1- 95.3	0.85	235	6.8	2.6	2.6	PTB 09 ATEX 1018 X	2.7	1120
K82R 315 L4 Ex de IIC T4	160	1029	1485	IE1- 95.6	0.86	280	6.9	2.7	2.6	PTB 09 ATEX 1018 X	3.1	1210
K82R 315 LX4 Ex de IIC T4	200	1286	1485	IE1- 95.8	0.86	350	6.9	2.7	2.6	PTB 09 ATEX 1018 X	3.9	1430
K82R 315 LY4 Ex de IIC T4	250	1602	1490	IE1- 96.2	0.87	430	7.3	1.7	2.7	PTB 09 ATEX 1018 X	4.6	1565
K82R 355 L4 Ex de IIC T4	315	2019	1490	IE1- 96.3	0.9	525	6.9	1.5	2.7	PTB 09 ATEX 1021 X	6.1	2050
K82R 355 LX4 Ex de IIC T4	355	2275	1490	IE1- 96.6	0.90	590	6.9	1.6	2.8	PTB 09 ATEX 1021 X	6.7	2200
K82R 355 LY4 Ex de IIC T4	400	2564	1490	97	0.90	665	7	1.5	2.8	PTB 09 ATEX 1021 X	7.4	2430
K82R 400 M4 Ex de IIC T4	450	2875	1495	97	0.91	735	7.3	1.1	2.7	PTB 09 ATEX 1022 X	18	2850
K82R 400 L4 Ex de IIC T4	500	3194	1495	97.1	0.91	815	7.3	1.1	2.7	PTB 09 ATEX 1022 X	20	3230
K82R 450 M4 Ex de IIC T4	560	3577	1495	97.2	0.91	915	6.8	1	2.7	PTB 09 ATEX 1023 X	26	3500
K82R 450 L4 Ex de IIC T4	630	4024	1495	97.4	0.91	1025	6.8	1	2.7	PTB 09 ATEX 1023 X	31	3800

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“) for operation in Zone 1 according to EN 60079-1

for rated voltage, temperature class T4
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz			
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _N /I _B	M _N /M _B	M _K /M _B	ATEX no.	J	m	
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg	
Synchronous speed 1000 rpm – 6-pole version													
K82R 71 MX6 Ex de IIC T4	0.25	2.6	920	62	0.71	0.82	3.5	2.2	2.6	PTB 09 ATEX 1017 X	0.0012	17	
K82R 80 M6 Ex de IIC T4	0.37	3.8	925	67	0.71	1.12	4.1	2.5	2.8	PTB 09 ATEX 1018 X	0.0019	24	
K82R 80 MX6 Ex de IIC T4	0.55	5.7	925	69	0.72	1.6	4	2.4	2.7	PTB 09 ATEX 1018 X	0.0025	25	
K82R 90 S6 Ex de IIC T4	0.75	7.9	910	IE1-	70.2	0.75	2.15	3.4	1.8	PTB 09 ATEX 1018 X	0.0033	31	
K82R 90 L6 Ex de IIC T4	1.1	11.4	920	IE1-	73	0.73	3.05	3.7	2	PTB 09 ATEX 1018 X	0.0046	35	
K82R 100 L6 Ex de IIC T4	1.5	15	945	IE1-	77	0.75	3.75	4.9	2.5	3	PTB 09 ATEX 1018 X	0.0095	46
K82R 112 M6 Ex de IIC T4	2.2	22	950	IE1-	81	0.75	5.2	5.6	2.7	3.1	PTB 09 ATEX 1018 X	0.017	59
K82R 132 S6 Ex de IIC T4	3	30	965	IE1-	84	0.78	6.6	6.3	2.7	3.1	PTB 09 ATEX 1018 X	0.031	100
K82R 132 M6 Ex de IIC T4	4	40	965	IE1-	85	0.79	8.6	6	2.6	3	PTB 09 ATEX 1018 X	0.037	104
K82R 132 MX6 Ex de IIC T4	5.5	55	960	IE1-	86	0.81	11.4	6.4	2.6	3	PTB 09 ATEX 1018 X	0.043	112
K82R 160 M6 Ex de IIC T4	7.5	75	960	IE1-	86.8	0.85	14.7	6.8	2.5	3.3	PTB 09 ATEX 1018 X	0.087	170
K82R 160 L6 Ex de IIC T4	11	109	965	IE1-	87.5	0.86	21	6.7	2.5	3.2	PTB 09 ATEX 1018 X	0.12	190
K82R 180 L6 Ex de IIC T4	15	148	965	IE1-	90	0.84	28.5	6.9	2.4	3.2	PTB 09 ATEX 1019 X	0.19	215
K82R 200 L6 Ex de IIC T4	18.5	181	975	IE1-	90.5	0.84	35	6.3	1.9	2.7	PTB 09 ATEX 1020 X	0.28	270
K82R 200 LX6 Ex de IIC T4	22	217	970	IE1-	91	0.85	41	6.8	2.2	3	PTB 09 ATEX 1020 X	0.31	280
K82R 225 M6 Ex de IIC T4	30	294	975	IE1-	92	0.84	56	6.6	2.8	2.5	PTB 09 ATEX 1018 X	0.69	404
K82R 250 M6 Ex de IIC T4	37	361	980	IE1-	92.5	0.84	69	6.6	2.8	2.6	PTB 09 ATEX 1018 X	1.03	570
K82R 280 S6 Ex de IIC T4	45	436	985	IE1-	93.5	0.83	84	5.8	2.8	2.4	PTB 09 ATEX 1018 X	1.35	720
K82R 280 M6 Ex de IIC T4	55	533	985	IE1-	93.5	0.82	104	5.8	2.7	2.3	PTB 09 ATEX 1018 X	1.7	770
K82R 315 S6 Ex de IIC T4	75	723	990	IE1-	94	0.87	132	6.4	2.6	2.4	PTB 09 ATEX 1018 X	4.3	995
K82R 315 M6 Ex de IIC T4	90	868	990	IE1-	94.2	0.88	157	6.5	2.6	2.4	PTB 09 ATEX 1018 X	5	1050
K82R 315 L6 Ex de IIC T4	110	1061	990	IE1-	94.5	0.88	191	6.5	2.7	2.5	PTB 09 ATEX 1018 X	6	1145
K82R 315 LX6 Ex de IIC T4	132	1273	990	IE1-	94.7	0.88	230	6.7	2.7	2.5	PTB 09 ATEX 1018 X	7.3	1265
K82R 315 LY6 Ex de IIC T4	160	1543	990	IE1-	95	0.88	275	6.8	2.6	2.5	PTB 09 ATEX 1018 X	8.3	1440
K82R 355 M6 Ex de IIC T4	200	1929	990	IE1-	95.5	0.88	345	6.7	1.8	2.7	PTB 09 ATEX 1021 X	11.3	1750
K82R 355 L6 Ex de IIC T4	250	2412	990	IE1-	95.9	0.88	430	6.7	1.8	2.7	PTB 09 ATEX 1021 X	13.8	1950
K82R 355 LX6 Ex de IIC T4	315	3039	990	IE1-	96	0.88	540	6.9	1.7	2.6	PTB 09 ATEX 1021 X	17.6	2300
K82R 400 M6 Ex de IIC T4	355	3411	994	IE1-	96.6	0.89	595	6.6	1.1	2.7	PTB 09 ATEX 1022 X	27	2850
K82R 400 L6 Ex de IIC T4	400	3843	994		96.6	0.89	670	6.8	1.1	2.6	PTB 09 ATEX 1022 X	31	3230
K82R 450 M6 Ex de IIC T4	450	4319	995		96.6	0.89	755	6.8	1.2	2.8	PTB 09 ATEX 1023 X	46	3500
K82R 450 L6 Ex de IIC T4	500	4799	995		97	0.89	835	6.8	1.1	2.7	PTB 09 ATEX 1023 X	51	3800
Synchronous speed 750 rpm – 8-pole version													
K82R 71 MX8 Ex de IIC T4	0.12	1.7	680	51	0.65	0.52	2.6	1.9	2.4	PTB 09 ATEX 1017 X	0.0012	17	
K82R 80 M8 Ex de IIC T4	0.18	2.5	690	61	0.65	0.66	3.2	2.2	2.6	PTB 09 ATEX 1018 X	0.0019	24	
K82R 80 MX8 Ex de IIC T4	0.25	3.5	690	62	0.64	0.91	3.2	2.2	2.5	PTB 09 ATEX 1018 X	0.0025	25	
K82R 90 S8 Ex de IIC T4	0.37	5.1	690	63	0.65	1.3	3	1.8	2.2	PTB 09 ATEX 1018 X	0.0033	31	
K82R 90 L8 Ex de IIC T4	0.55	7.6	690	67	0.65	1.85	3.1	1.8	2.2	PTB 09 ATEX 1018 X	0.0046	35	
K82R 100 L8 Ex de IIC T4	0.75	9.9	720	77	0.64	2.2	5	2.3	2.9	PTB 09 ATEX 1018 X	0.017	59	
K82R 100 LX8 Ex de IIC T4	1.1	15	715	78	0.68	3	4.8	2.2	2.7	PTB 09 ATEX 1018 X	0.017	59	
K82R 112 M8 Ex de IIC T4	1.5	20	705	80.6	0.76	3.55	4.9	2	2.6	PTB 09 ATEX 1018 X	0.029	97	
K82R 132 S8 Ex de IIC T4	2.2	30	710	81.2	0.72	5.4	5.4	2.3	2.7	PTB 09 ATEX 1018 X	0.029	97	
K82R 132 M8 Ex de IIC T4	3	40	715	92.9	0.72	7.3	6.3	2.7	3.1	PTB 09 ATEX 1018 X	0.036	113	
K82R 160 M8 Ex de IIC T4	4	53	725	95.5	0.77	8.8	5.6	1.9	3.1	PTB 09 ATEX 1018 X	0.071	157	
K82R 160 MX8 Ex de IIC T4	5.5	72	725	87.1	0.76	12	6	2.3	3.2	PTB 09 ATEX 1018 X	0.105	170	
K82R 160 L8 Ex de IIC T4	7.5	99	725	87.9	0.74	16.6	6.1	2.4	3.3	PTB 09 ATEX 1018 X	0.136	190	
K82R 180 L8 Ex de IIC T4	11	145	725	89.2	0.78	23	6.9	2.6	3.3	PTB 09 ATEX 1019 X	0.22	215	
K82R 200 L8 Ex de IIC T4	15	196	730	90.3	0.77	31	7.1	2.4	3.3	PTB 09 ATEX 1020 X	0.4	280	
K82R 225 S8 Ex de IIC T4	18.5	240	735	91.1	0.78	37.5	7.1	2.3	3.1	PTB 09 ATEX 1017 X	0.56	372	
K82R 225 M8 Ex de IIC T4	22	286	735	91.5	0.78	44.5	7.2	2.4	3.4	PTB 09 ATEX 1018 X	0.69	404	
K82R 250 M8 Ex de IIC T4	30	390	735	92.5	0.82	57	6.8	2	2.8	PTB 09 ATEX 1018 X	1.2	550	
K82R 280 S8 Ex de IIC T4	37	481	735	92.9	0.82	70	6.5	2	2.9	PTB 09 ATEX 1018 X	1.9	740	
K82R 280 M8 Ex de IIC T4	45	581	740	93.2	0.82	85	6.7	2.2	2.9	PTB 09 ATEX 1018 X	2.3	800	
K82R 315 S8 Ex de IIC T4	55	710	740	94	0.8	106	7.1	2	2.7	PTB 09 ATEX 1018 X	4.3	995	
K82R 315 M8 Ex de IIC T4	75	968	740	94.5	0.8	143	7	2	2.7	PTB 09 ATEX 1018 X	5	1050	
K82R 315 L8 Ex de IIC T4	90	1161	740	94.9	0.8	171	7.2	2.1	2.8	PTB 09 ATEX 1018 X	6	1145	
K82R 315 LX8 Ex de IIC T4	110	1420	740	95.2	0.81	205	7.1	2	2.7	PTB 09 ATEX 1018 X	7.3	1265	
K82R 315 LY8 Ex de IIC T4	132	1704	740	95.4	0.8	250	7.3	2.1	2.8	PTB 09 ATEX 1018 X	8.3	1440	
K82R 355 M8 Ex de IIC T4	160	2051	745	95.8	0.82	295	7.2	1.9	2.7	PTB 09 ATEX 1021 X	11.4	1750	
K82R 355 L8 Ex de IIC T4	200	2564	745	95.8	0.82	370	6.6	1.7	2.5	PTB 09 ATEX 1021 X	13.9	1950	
K82R 355 LX8 Ex de IIC T4	250	3205	745	95.8	0.82	460	6.1	1.2	2.4	PTB 09 ATEX 1021 X	17.7	2300	
K82R 400 M8 Ex de IIC T4	315	4038	745	96.2	0.83	570	6.2	1.2	2.4	PTB 09 ATEX 1022 X	30	3100	
K82R 400 L8 Ex de IIC T4	355	4551	745	96.3	0.83	640	6.1	1	2.4	PTB 09 ATEX 1022 X	34	3440	
K82R 450 M8 Ex de IIC T4	400	5128	745	96.6	0.84	710	6.1	1	2.2	PTB 09 ATEX 1023 X	51	3750	
K82R 450 L8 Ex de IIC T4	450	5768	745	96.7	0.84	800	6.1	1	2.2	PTB 09 ATEX 1023 X	57	4050	

Three-phase motors with squirrel-cage rotor with built-in brake



Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“) for operation in Zone 1 according to EN 60079-0/60079-1

for mains operation, temperature class T4

Version for rated voltage range A according to IEC/EN 60034-1, 50 Hz

With surface cooling, duty type S1, continuous duty

Degree of protection IP 55, thermal class 155

Motor selection data																
Type	Output	Rated current at		Speed	Efficiency	Power factor	Starting torque	Starting current	Motor torque	Braking torque	Moment of inertia	Weight	Permissible cyclic duration factor per hour under duty type S4 15, 20, 40 or 60 % c.d.f.			
	P ₂	I _B 400 V	I _B 500 V	n _B	η _B	cosφ _B	M _A /M _N	I _A /I _N	M	M _e ¹⁾	J	m ²⁾	FI=1.5	FI=2	FI=3	FI=4
	kW	A	A	rpm	%	-	-	-	Nm	Nm	kgm ²	kg	S/h	S/h	S/h	S/h
Synchronous speed 3000 rpm – 2-pole version																
B82R 80 K2	0.75	1.84	1.47	2790	70	0.84	2.7	4.8	2.57	10	0.000925	26	1110	935	710	570
B82R 80 L2	1.1	2.6	2.05	2820	75	0.82	2.8	5.5	3.7	10	0.00118	27	580	495	435	320
B82R 90 L2	1.5	3.25	2.6	2840	77	0.86	2.7	5.5	5	20	0.00193	38	130	115	90	80
B82R 90 LX2	2.2	4.6	3.7	2850	81	0.85	2.7	5.6	7.4	20	0.00240	42	184	165	135	115
B82R 100 L2	3	6.1	4.85	2850	82	0.87	2.7	6.8	10.1	46	0.00365	51	71	65	54	47
B82R 112 M2	4	7.8	6.2	2880	84	0.88	2.3	6.5	13.3	46	0.00638	64	140	120	95	75
B82R 132 S2	5.5	10.9	8.7	2880	84	0.87	2.5	6.4	18.2	86	0.013	113	53	46	37	30
B82R 132 SX2	7.5	14.6	11.7	2910	85	0.87	2.7	6.8	24.7	86	0.0159	118	70	60	45	40
Synchronous speed 1500 rpm – 4-pole version																
B82R 80 K4	0.55	1.38	1.1	1380	72	0.8	2	3.8	3.8	10	0.0013	26	1340	1185	960	800
B82R 80 L4	0.75	1.85	1.48	1400	74	0.79	2.1	4.2	5.2	10	0.00168	27	1340	1170	930	640
B82R 90 L4	1.1	2.55	2.05	1400	75	0.83	2.1	4.8	7.5	20	0.003	38	230	205	170	145
B82R 90 LX4	1.5	3.4	2.7	1405	78	0.82	2.3	5	10.3	20	0.00525	42	270	245	200	170
B82R 100 L4	2.2	5	4	1420	79	0.8	2.4	5.4	14.8	46	0.00688	51	235	215	185	165
B82R 100 LX4	3	6.6	5.2	1415	79.5	0.83	2.3	5.5	20.1	46	0.007	54	110	105	90	80
B82R 112 M4	4	8.2	6.5	1435	84	0.84	2.7	6.8	26.5	46	0.0133	69	220	210	180	160
B82R 132 S4	5.5	11	8.8	1440	85	0.85	2.5	6.2	36.5	86	0.0263	118	100	95	75	65
B82R 132 M4	7.5	14.5	11.6	1440	87	0.86	2.7	6.5	50	86	0.0348	128	100	90	75	65
Synchronous speed 1000 rpm – 6-pole version																
B82R 80 K6	0.37	1.12	0.9	925	67	0.71	2.5	4.1	3.8	10	0.0024	26	1120	950	725	590
B82R 80 L6	0.55	1.6	1.28	925	69	0.72	2.4	4	5.7	10	0.003	27	1145	980	765	620
B82R 90 L6	0.75	2.2	1.75	910	66	0.75	1.8	3.4	7.8	20	0.00445	38	675	605	500	425
B82R 90 LX6	1.1	3.1	2.5	920	70	0.73	2	3.7	11.4	20	0.00573	42	125	115	100	85
B82R 100 L6	1.5	3.8	3.05	945	76	0.75	2.5	4.9	15.2	46	0.0113	54	240	215	175	145
B82R 112 M6	2.2	5.47	4.3	950	80	0.74	2.7	5.6	22.1	46	0.0198	69	595	530	425	355
B82R 132 S6	3	6.7	5.4	965	83	0.78	2.7	6.3	29.8	86	0.0347	118	390	350	290	250
B82R 132 M6	4	8.8	7	960	83.5	0.79	2.6	6	40	86	0.0415	124	215	195	160	140
B82R 132 MX6	5.5	11.6	9.3	960	84.5	0.81	2.6	6.4	55	86	0.0498	133	125	110	95	80
Synchronous speed 750 rpm – 8-pole version																
B82R 80 K8	0.18	0.66	0.52	690	61	0.65	2.2	3.2	2.5	10	0.0023	26	1125	940	710	580
B82R 80 L8	0.25	0.91	0.73	690	62	0.64	2.2	3.2	3.5	10	0.0029	27	1125	940	710	580
B82R 90 L8	0.37	1.3	1.04	690	63	0.65	1.8	3	5.1	20	0.0039	38	1285	1090	920	780
B82R 90 LX8	0.55	1.92	1.54	690	64.5	0.64	1.8	3.1	7.6	20	0.0052	42	1160	980	830	690
B82R 100 L8	0.75	2.35	1.87	710	70	0.66	2.4	4	10.2	46	0.0094	51	970	820	690	570
B82R 100 LX8	1.1	3.1	2.5	695	70	0.73	2	3.8	15.1	46	0.0109	54	880	750	630	520
B82R 112 M8	1.5	4.2	3.35	710	77	0.67	2.2	4.6	20.5	46	0.0198	69	680	560	480	406
B82R 132 S8	2.2	5	4	695	80	0.79	2	4.1	30	86	0.0331	113	650	550	460	380
B82R 132 M8	3	7	5.6	705	80.5	0.77	2.4	4.6	41	86	0.0401	122	630	520	450	360

¹⁾ Tolerance -20 %/+40 % at 1 m/s friction speed

²⁾ Type of construction B3 with terminal box

Three-phase motors with squirrel-cage rotor with built-in brake, pole-changing Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“) for operation in Zone 1 according to EN 60079-0/60079-1

2G Ex d/de II T4 Gb

for mains operation, temperature class T4
Version for rated voltage range A according to IEC/EN 60034-1, 50 Hz
With surface cooling, duty type S1, continuous duty
Degree of protection IP 55, thermal class 155

Motor selection data

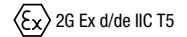
Type	Output	Rated current at		Speed	Efficiency	Power factor	Starting torque	Starting current	Motor torque	Braking torque	Moment of inertia	Weight	Permissible cyclic duration factor per hour under duty type S4 15, 20, 40 or 60 % c.d.f.			
	P ₂	I _B 400 V	I _B 500 V	n _B	η _B	cosφ _B	M _A /M _N	I _A /I _N	M	M _e ¹⁾	J	m ²⁾	FI=1.5	FI=2	FI=3	FI=4
	KW	A	A	rpm	%	-	-	-	Nm	Nm	kgm ²	kg	S/h	S/h	S/h	S/h
Synchronous speed 750/1500 rpm – 8/4-pole version																
B82R 90 L8-4	0.4	1.62	1.3	690	57.5	0.62	1.6	2.9	5.7	20	0.0049	38	**)			
	0.6	1.46	1.17	1395	69	0.86	1.6	4.2	4.1							
B82R 90 LX8-4	0.55	2.14	1.71	690	58	0.64	1.6	3	7.7	20	0.0069	42				
	0.8	1.9	1.52	1410	70	0.87	1.8	4.6	5.4							
B82R 100 L8-4	0.9	3	2.4	690	61	0.71	1.8	3.2	12.5	46	0.0098	51	**)			
	1.3	3	2.45	1400	69.5	0.89	1.5	4.2	8.9							
B82R 100 LX8-4	1	3.2	2.55	700	65	0.7	1.8	3.7	13.6	46	0.0138	54				
	1.6	3.6	2.9	1400	71	0.9	1.6	4.5	10.9							
B82R 112 M8-4	1.5	4.4	3.5	700	72	0.69	2	4.4	30.5	46	0.0218	69	**)			
	2.5	5.3	4.25	1390	74.5	0.91	1.9	5	17.1							
B82R 132 S8-4	2.3	6.8	5.4	720	75	0.65	1.8	4.4	30.5	86	0.0353	127	**)			
	3.6	7.2	5.8	1440	81	0.89	1.8	5.4	23.8							
B82R 132 M8-4	3	8.5	6.7	720	78	0.66	2	4.6	40	86	0.0498	138				
	5	9.7	7.8	1440	82.5	0.9	1.9	5.8	33							
Synchronous speed 750/3000 rpm – 8–2-pole version																
B82R 80 K8-2	0.1	0.5	0.4	685	46.5	0.62	1.5	2.3	1.4	10	0.0015	26	**)			
	0.4	1.07	0.86	2870	62.5	0.86	2.3	2.5	1.3							
B82R 80 L8-2	0.14	0.72	0.58	660	43	0.65	1.3	2.5	2	10	0.0019	27				
	0.56	1.58	1.26	2870	60.3	0.85	1.5	2.5	1.9							
B82R 90 L8-2	0.2	0.91	0.73	710	53	0.6	1.5	3	2.7	20	0.0035	38	**)			
	0.8	1.97	1.56	2885	65	0.9	1.4	6	2.6							
B82R 90 LX8-2	0.3	1.29	1.04	710	54	0.62	1.6	3	4	20	0.0058	42				
	1.1	2.5	2	2885	69.3	0.91	1.5	6.2	3.6							
B82R 100 L8-2	0.33	1.42	1.14	715	54	0.62	1.6	3	4.4	46	0.0069	51	**)			
	1.3	2.9	2.3	2885	70	0.92	1.4	6	4.3							
B82R 100 LX8-2	0.4	1.72	1.38	715	54	0.62	1.6	3	5.3	46	0.007	54				
	1.5	3.35	2.65	2885	70.8	0.92	1.5	6	5							
B82R 112 M8-2	0.55	2.1	1.67	715	59.3	0.64	1.5	3.5	7.3	46	0.011	69	**)			
	2.2	4.9	3.95	2920	71	0.9	2	6.9	7.2							
B82R 132 S8-2	0.8	3	2.4	720	59.8	0.65	1.7	3.2	10.6	86	0.0286	127	**)			
	3.2	6.7	5.4	2925	76.6	0.92	2.5	7.2	10.4							
B82R 132 M8-2	1.1	3.65	2.95	720	65.8	0.66	1.8	3	14.6	86	0.037	138				
	4.2	8.3	6.6	2935	78.9	0.93	2.6	7	13.7							

¹⁾ Tolerance -20 %/+40 % at 1 m/s friction speed

²⁾ Type of construction B3 with terminal box

***) upon request

Three-phase motors with Built-on brake



Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-0/60079-1

for mains operation, temperature class T4 ..T5

Version for rated voltage range A according to IEC/EN 60034-1, 50 Hz

With surface cooling, duty type S1, continuous duty

Degree of protection IP 55, thermal class 155

Motor selection data																	
Type	P ₂	I _B	I _B	n _B	η _B	cosφ _B	M _A /M _N	I _A /I _N	M	M _e ¹⁾	J	m ²⁾	Fl=1.5	Fl=2	Fl=3	Fl=4	
	kW	400 V A	500 V A	rpm	%	-	-	-	Nm	Nm	kgm ²	kg	S/h	S/h	S/h	S/h	
Synchronous speed 3000 rpm – 2-pole version																	
K82R 80 K2	0.75	1.74	1.39	2790	74	0.84	2.7	4.8	2.57	10	10	0.00083	39	upon request			
K82R 80 L2	1.1	2.4	1.92	2820	78	0.85	2.7	5.5	3.73	10	10	0.00105	40				
K82R 90 L2	1.5	3.15	2.55	2840	78.5	0.87	2.7	5.5	5	20	11	0.00155	46				
K82R 90 LX2	2.2	4.4	3.5	2850	83	0.87	2.7	5.6	7.4	20	11	0.00205	50				
K82R 100 L2	3	5.9	4.7	2850	85	0.87	2.7	6.8	10.1	50	13	0.00505	74				
K82R 112 M2	4	7.7	6.1	2880	85.5	0.88	2.3	6.5	13.3	50	13	0.00725	82				
K82R 132 S2	5.5	10.4	8.3	2880	87	0.88	2.5	6.4	18.2	50	13	0.01105	124				
K82R 132 SX2	7.5	13.8	11.1	2910	88	0.89	2.7	6.8	24.6	100	16	0.01465	129				
K82R 160 M2	11	20	16	2925	89	0.89	2.8	6.6	36	150	19	0.0445	192				
K82R 160 M2	15	26.50	21	2920	89.5	0.92	2.8	6.8	49	150	19	0.0555	202				
K82R 160 L2	18.5	32.1	25.5	2925	90.5	0.92	2.6	6.8	60	150	19	0.0645	217				
K82R 180 M2	22	37.50	30.00	2925	91.5	0.92	2.5	6.9	72	150	19	0.0875	225				
K82R 180 L2	30	52	42	2955	92.5	0.9	2.6	7.2	97	270	24	0.1425	284				
K82R 200 L2	37	63	50	2955	93.3	0.91	2.7	7.2	120	270	24	0.1725	307				
Synchronous speed 1500 rpm – 4-pole version																	
K82R 80 K4	0.55	1.36	1.09	1380	73	0.8	2	3.8	3.8	10	10	0.00117	39	1340	1010	670	500
K82R 80 L4	0.75	1.81	1.45	1400	75.5	0.79	2.1	4.5	5.1	10	10	0.00155	40	1340	1010	670	500
K82R 90 L4	1.1	2.5	1.99	1400	77	0.83	2.1	4.8	7.5	10	11	0.0024	46	230	170	110	90
K82R 90 LX4	1.5	3.25	2.65	1405	79	0.82	2.3	5	10.2	20	11	0.0032	51	270	200	135	100
K82R 100 L4	2.2	4.8	3.8	1420	81	0.82	2.4	5.4	14.8	50	13	0.0049	66	235	175	120	90
K82R 100 LX4	3	6.3	5.1	1415	82.5	0.83	2.3	5.5	20.2	50	13	0.0078	83	110	80	55	45
K82R 112 M4	4	8.1	6.5	1435	85	0.84	2.7	6.8	26.6	50	13	0.013	97	220	165	110	85
K82R 132 S4	5.5	10.7	8.6	1440	87	0.85	2.5	6.2	36.5	50	13	0.025	142	150	110	75	55
K82R 132 M4	7.5	14.3	11.4	1440	88.2	0.86	2.7	6.5	50	100	16	0.033	152	140	105	70	50
K82R 160 M4	11	21	16.7	1460	89.5	0.85	2.5	6.6	72	100	19	0.06	210	95	70	50	35
K82R 160 L4	15	28	22.5	1455	90	0.86	2.8	6.5	98	150	19	0.092	251	60	45	30	25
K82R 180 M4	18.5	345	27.5	1460	91	0.85	2.9	6.6	121	150	19	0.143	243	70	50	35	25
K82R 180 L4	22	41	32.5	1460	91.5	0.85	3	6.9	144	270	24	0.168	277	60	45	30	20
K82R 200 L4	30	53	42.5	1460	92.5	0.88	2.6	6.8	196	270	24	0.26	344	40	50	20	15
Synchronous speed 1000 rpm – 6-pole version																	
K82R 80 K6	0.37	1.12	0.9	925	67	0.71	2.5	4.1	3.8	10	10	0.0012	39	1260	945	630	470
K82R 80 L6	0.55	1.6	1.28	925	69	0.72	2.4	4	5.7	10	10	0.0028	40	540	400	270	200
K82R 90 L6	0.75	2.15	1.72	910	67	0.75	1.8	3.4	7.9	10	11	0.0036	46	420	310	210	150
K82R 90 LX6	1.1	3.05	2.45	920	71	0.73	2	3.7	11.4	20	11	0.0049	51	560	420	280	210
K82R 100 L6	1	3.75	3	945	77	0.75	2.4	5	15.2	20	13	0.0098	68	44	330	220	165
K82R 112 M6	2.2	5.2	4.2	950	81	0.75	2.7	5.6	22.1	50	13	0.02	97	240	180	120	90
K82R 132 S6	3	6.6	5.3	965	84	0.78	2.7	6.3	29.7	50	13	0.034	142	170	130	85	54
K82R 132 M6	4	8.6	6.9	960	85	0.79	2.6	6	40	50	13	0.04	164	240	180	120	90
K82R 132 MX6	5.5	11.4	9.1	960	86	0.81	2.6	6.4	55	100	16	0.046	152	220	165	110	80
K82R 160 M6	7.5	14.7	11.7	960	86.8	0.85	2.5	6.8	75	100	19	0.09	212	290	220	145	110
K82R 160 L6	11	21	16.9	965	87.5	0.86	2.5	6.7	109	150	19	0.13	257	160	120	80	60
K82R 180 L6	15	28.5	23	965	90	0.84	2.4	6.9	148	270	24	0.2	285	130	100	65	50
K82R 200 L6	18.5	35	28	975	90.5	0.84	1.9	6.2	181	270	24	0.29	340	90	65	45	35
K82R 200 LX6	22	41	33	970	91	0.85	2.2	6.8	217	270	24	0.32	350	80	60	40	30
Synchronous speed 750 rpm – 8-pole version																	
K82R 80 K8	0.18	0.66	0.52	690	61	0.65	3.2	2.2	2.5	10	10	0.0021	39	960	720	480	360
K82R 80 L8	0.25	0.91	0.73	690	62	0.64	3.2	2.2	3.5	10	10	0.0028	40	720	540	360	270
K82R 90 L8	0.37	1.3	1.04	690	63	0.65	3	1.8	5.1	10	11	0.0036	46	560	420	280	210
K82R 90 LX8	0.55	1.85	1.48	690	67	0.64	3.1	1.8	7.6	10	11	0.0049	51	530	400	265	200
K82R 100 L8	0.75	2.3	1.85	710	71	0.66	4	2.4	10.1	20	13	0.0083	65	500	375	250	190
K82R 100 LX8	1.1	3.15	2.5	695	69	0.73	3.8	2	15.1	20	13	0.0098	68	700	530	350	260
K82R 112 M8	1.5	4.15	3.3	710	78	0.67	4.6	2.2	20.2	50	13	0.019	97	620	465	310	230
K82R 132 S8	2.2	5	4	695	80	0.79	4.1	2	30	50	13	0.031	139	230	170	115	90
K82R 132 M8	3	6.9	5.6	705	81	0.77	4.6	2.4	41	50	13	0.038	152	240	180	120	90
K82R 160 M8	4	8.7	7	715	85	0.78	4.6	1.8	53	100	19	0.073	201	150	110	75	55
K82R 160 MX8	5.5	12	9.6	720	86	0.77	5.4	2.1	73	100	19	0.107	212	145	110	70	55
K82R 160 L8	7.5	16.3	13	720	86.5	0.77	5.6	2.2	99	150	19	0.149	257	145	110	70	55
K82R 180 L8	11	22.5	18.1	725	89	0.79	6.4	2.4	145	270	24	0.23	285	200	150	100	75
K82R 200 L8	15	31	24	730	89.5	0.8	6.9	2.4	196	270	24	0.41	350	100	75	50	35

¹⁾ Certificate no. for all brakes BVS No. 81.001, marking Ex de IIC T5

²⁾ Type of construction B3 with terminal box

Coil data for built-in brake (version II2G Ex de II (B+H2)T4)

Size Motor	Voltage U = [V]	Current I = [A]	Resistance R _{min} [Ω]	Voltage U ~ [V]	Current I ~ [A]
80	24	1.09	22	-	-
	103	0.29	369	230	0.46
	130	0.23	567	290	0.36
	176	0.19	910	400	0.3
90	24	1.5	16	-	-
	103	0.36	290	230	0.57
	130	0.35	376	290	0.55
	176	0.26	684	400	0.41
100 and 112	24	1.85	13	-	-
	103	0.42	244	230	0.66
	130	0.35	376	290	0.55
	176	0.31	575	400	0.49
132	24	2.93	8.58	-	-
	130	0.56	232	290	0.88
	176	0.49	360	400	0.77

Coil data for built-on brake (version II2G Ex de IIC T5)

Size Brake	Moment M [V]	Voltage U = [V]	Current I = [A]	Resistance R _{min} [Ω]	Voltage U ~ [V]	Current I ~ [A]
10/11	10 or 20	24	2.1	11.6	-	-
		98	0.55	177	110	0.61
		205	0.27	770	230	0.3
		215	0.225	954	240	0.25
		258	0.21	1197	270	0.23
		356	0.14	2571	400	0.16
13/16	50 or 100	24	2.93	8.2	-	-
		98	0.8	122.4	110	0.89
		205	0.39	536	230	0.44
		215	0.346	621	240	0.38
		258	0.31	838	270	0.34
		356	0.2	1685	400	0.24
19/24	150 or 270	24	3.08	7.8	-	-
		98	0.85	116	110	0.94
		205	0.4	516	230	0.45
		215	0.4	538	240	0.44
		356	0.25	1438	400	0.28

Bearings

Version IE1 (K82R .../B82R ...)

Size	Pole number	D-end bearing		N-end bearing	
		Standard Fixed bearing for all types of construction	Reinforced bearing	Standard Floating bearing for all types of construction	Insulated bearing
K82R 63	2, 4	6202 2Z	---	6004 2Z	
K82R 71	2, 4, 6, 8	6202 2Z	---	6004 2Z	
K82R 80	2, 4, 6, 8	6204 2Z	---	6204 2Z	
K82R 90	2, 4, 6, 8	6205 2Z	---	6205 2Z	
K82R 100	2, 4, 6, 8	6206 2Z C3	NU 206	6206 2Z C3	6206 C3 VL 2071
K82R 112	2, 4, 6, 8	6306 2Z C3	NU 306	6206 2Z C3	6206 C3 VL 2071
K82R 132	2, 4, 6, 8	6308 2Z C3	NU 308	6308 2Z C3	6308 C3 VL 2071
K82R 160	2, 4, 6, 8	6309 2Z C3	NU 309	6309 2Z C3	6309 C3 VL 2071
K82R 180	2, 4, 6, 8	6310 2Z C3	NU 310	6310 2Z C3	6310 C3 VL 2071
K82R 200	2, 4, 6, 8	6312 2Z C3	NU 312	6312 2Z C3	6312 C3 VL 2071
K82R 225	2, 4, 6, 8	6313 2Z C3	NU 313	6313 2Z C3	6313 C3 VL 2071
K82R 250	2, 4, 6, 8	6315 2Z C3	NU 315	6313 2Z C3	6313 C3 VL 2071
K82R 280	2, 4, 6, 8	6316 2Z C3	NU 316	6315 2Z C3	6315 C3 VL 2071
K82R 315	2	6316 C3	NU 316	6316 C3	6316 C3 VL 2071
K82R 315	4, 6, 8	6318 C3	NU 318	6316 C3	6316 C3 VL 2071
K82R 355	2	6318 C3	NU 318	6318 C3	6318 C3 VL 2071
K82R 355	4, 6, 8	6320 C3	NU 320	6318 C3	6318 C3 VL 2071
Type of construction V1, V3 only					
K82R 400	2	6318 C3	7318 B	6318 C4	
K82R 400	4, 6, 8	6322 C3	7322 B	6320 C3	
K82R 450	2	6318 C3	7318 B	6318 C4	
K82R 450	4, 6, 8	6324 C3	7324 B	6322 C3	

Version IE2, IE3 and MEPS (K82R ... Y2/Y3/Y/B82R ... Y2/Y3/Y)

Size	Pole number	D-end bearing		N-end bearing	
		Standard	Reinforced bearing	Standard	Insulated bearing
K82R 80	2, 4, 6, 8		---	6205 2Z	
K82R 90	2, 4, 6, 8	6206 2Z C3	---	6206 2Z C3	
K82R 100	2, 4, 6, 8	6306 2Z C3	NU 306	6206 2Z C3	
K82R 112	2, 4, 6, 8	6308 2Z C3	NU 308	6308 2Z C3	
K82R 132	2, 4, 6, 8	6308 2Z C3	NU 308	6308 2Z C3	
K82R 160	2, 4, 6, 8	6309 2Z C3	NU 309	6309 2Z C3	
K82R 180	2, 4, 6, 8	6310 2Z C3	NU 310	6310 2Z C3	
K82R 200	2, 4, 6, 8	6312 2Z C3	NU 312	6312 2Z C3	
K82R 225	2, 4, 6, 8	6313 2Z C3	NU 313	6313 2Z C3	
K82R 250	2, 4, 6, 8	6315 2Z C3	NU 315	6313 2Z C3	
K82R 280	2, 4, 6, 8	6316 2Z C3	NU 316	6315 2Z C3	
K82R 315	2	6316 C3	NU 316	6316 C3	6316 C3 VL 2071
K82R 315	4, 6, 8	6318 C3	NU 318	6316 C3	6316 C3 VL 2071
K82R 355	2	6318 C3	NU 318	6318 C3	6318 C3 VL 2071
K82R 355	4, 6, 8	6320 C3	NU 320	6318 C3	6318 C3 VL 2071

Version MEPS (K82R ... XY/B82R ... XY)

Size	Pole number	D-end bearing		N-end bearing	
		Standard	Reinforced bearing	Standard	Insulated bearing
K82R 250S	2, 4, 6, 8	6315 2Z C3	NU 315	6313 2Z C3	
K82R 250M	2, 4, 6, 8	6316 2Z C3	NU 316	6315 2Z C3	
K82R 280S	2, 4, 6, 8	6316 2Z C3	NU 316	6315 2Z C3	
K82R 280M	2	6316 C3	NU 316	6316 C3	6316 C3 VL 2071
K82R 280M	4, 6, 8	6318 C3	NU 318	6316 C3	6316 C3 VL 2071
K82R 315	2	6316 C3	NU 316	6316 C3	6316 C3 VL 2071
K82R 315	4, 6, 8	6318 C3	NU 318	6316 C3	6316 C3 VL 2071

Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)

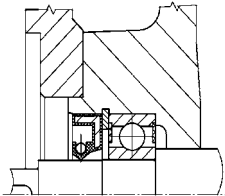
Bearing arrangement

D-end bearing

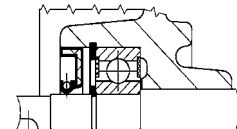
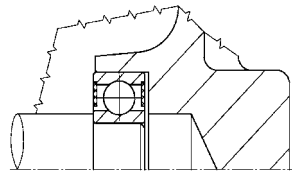
N-end bearing

D-end bearing

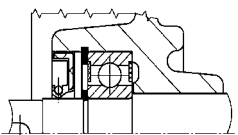
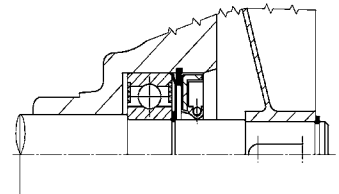
N-end bearing



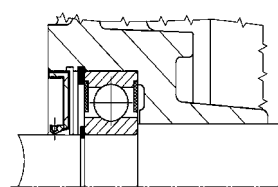
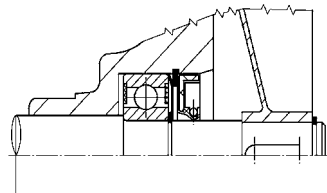
Size 63



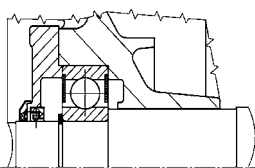
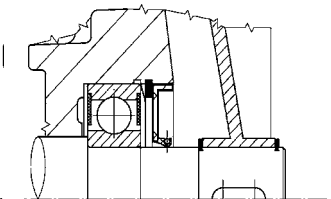
Size 71



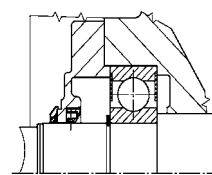
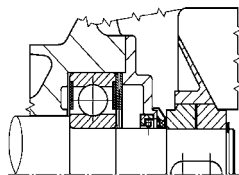
Size 80-132



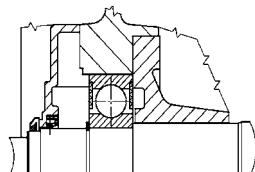
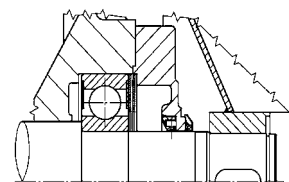
Size 160



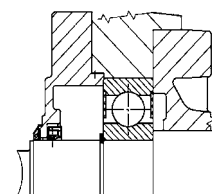
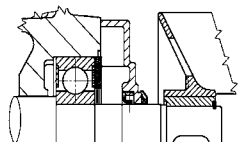
Size 180-200



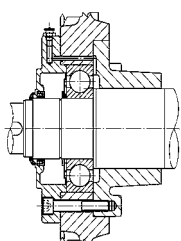
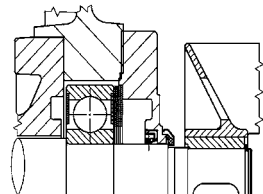
Size 225



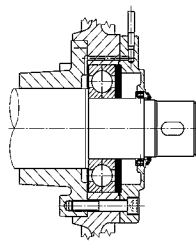
Size 250



Size 280



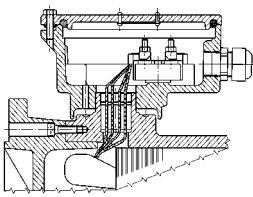
Size 315-450



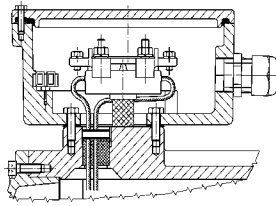
Illustrations without obligation

Terminal boxes

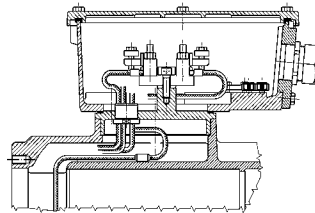
Explosion protected motors, Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)



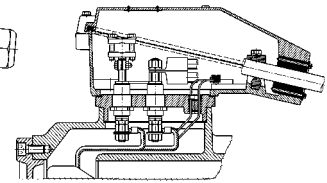
Size 63 – 112



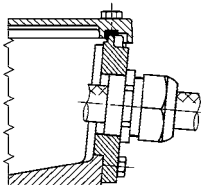
Size 132 – 160



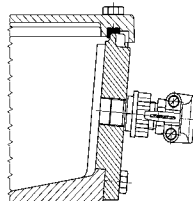
Size 180 – 280
Size 315 with stud bushing



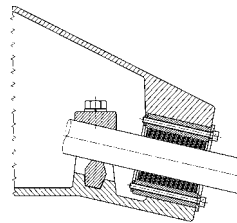
Size 250 – 450
Size 250 + 280 with
terminal plate
as size 180 – 280



Version 1
Cable entry according to
EN 60079-7
(compression gland)
for entry of fixed cables



Version 3
Cable entry gland according to
EN 60079-7,
with strain relief and twist/kink
protection for cables of mobile
equipment



Version 9
Divided terminal box with internal strain relief,
cable entry according to EN 60079-7

Mains cable entry to Ex e („eb“) terminal boxes

Ver- sion	Size	63	71	80	90	100	112	132	160	180	200	225	250	280	315	355	400–450
1	Thread	1 x M25 x 1.5				1 x M32 x 1.5			1 x M40 x 1.5		1 x M50 x 1.5		1 x M63 x 1.5			not available	
	for cable Outer diameter-Ø mm	13–19				12–21			17–28		21–35		27–48			not available	
3	Thread	1 x M25 x 1.5				1 x M32 x 1.5			1 x M40 x 1.5		1 x M50 x 1.5		1 x M63 x 1.5			1 x M80 x 2	1 x M90 x 2
	for cable Outer diameter-Ø mm	11–16				15–20			19–27		26–34		35–46			62–68	74–80
9	for cable Outer diameter-Ø mm	not available											1 x Ø 48–70 2 x Ø 26–48			1 x Ø 48–70 2 x Ø 48–70	

Normal version

Terminal boxes in normal version Ex e („eb“) IIC

The terminal boxes of low-voltage motors are supplied with metric threads, with assignments according to DIN 42 925 and cable glands according to EN 50262, certified to EN 60079-7.

From size 180, they are provided with a detachable screw-
ed plate to accommodate either threaded compression
glands or conductor glands. From size 250, longitudinally
divided terminal boxes are also available.

An additional terminal box for thermal monitoring or space
heating can be supplied upon request for motors from
size 132. The additional box is screwed onto the motor
terminal box, except for sizes 355 to 450, where it is
mounted on the housing.

Suitable cross-sections for Ex e („eb“) IIC for low voltage

Size	Rated cross-section max. [mm ²]	Rated current max. [A]	Terminal type	No. of terminals	Terminal thread
36–112	4	25	U-clamp terminal ²⁾	6	M5
132, 160	10	63	U-clamp terminal ²⁾	6	M6
180–225	70	100	Tab terminal ²⁾	6	M8
250–280	120	250	Tab terminal ²⁾	6	M12
315	150	315 ¹⁾	Round terminal ²⁾	6	M12
355–450	300	400 ¹⁾	Round terminal ²⁾	6	M16
355–450	400	630 ¹⁾	Universal terminal ³⁾	6	M16

¹⁾ Material Cu

²⁾ Suitable for connection with and without cable lug

³⁾ Suitable for connection with cable lug

Terminal boxes for Ex d („db“) IIC for low voltage

The terminal boxes comply with the stipulations for explosion protection type Ex “d” (“db”) according to EN 60079.

In the normal version, they are provided with a threaded hole according to ISO DIN 13.

Upon request, they can also be supplied with the thread version specified in the bottom table. The required thread dimensions must be specified in the order.

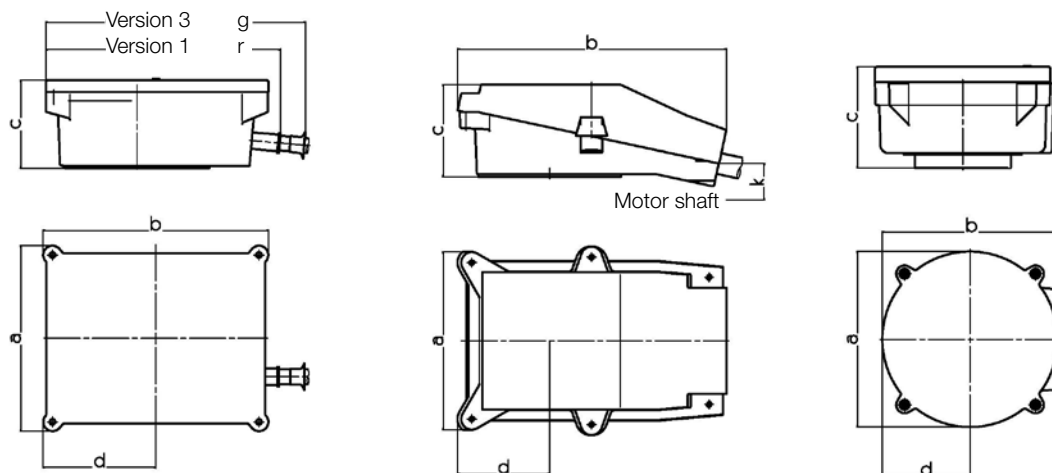
Note: Cable entry components for explosion protection type Ex “d” (“db”) IIC must also comply with EN 60079-1 and must be certified accordingly. These components are not included in the scope of delivery.

Cable entry threads for Ex d („db“) terminal boxes for low-voltage motors

Size	63	71	80	90	100	112	132	160	180	200	225	250	280	315	400–450
Thread version ISO-DIN 13	1 x M25 x 1.5				1 x M32 x 1.5				1 x M40 x 1.5	1 x M50 x 1.5		1 x M63 x 1.5			1 x M80 x 2
NEMA version NPT	¾"				1"				1¼"	1½"		2"			3"

For thermal monitoring: For all versions additionally 1 x M25 x 1.5 and 1 x ½"

Motors in type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)



Protection type		EAR – Ex e						CAR – Ex d					
Cable entry		Version 1 and 3						Without cable gland					
Size		a	b	c	d	r	g	Size		a	b	c	d
Connection space								Connection space					
63	EAR 80	145	145	88	53	179	185	63	CAR 80	145	145	92	53
71	EAR 80	145	145	88	53	179	185	71	CAR 80	145	145	92	53
80	EAR 80	145	145	88	53	179	185	80	CAR 80	145	145	92	53
90	EAR 80	145	145	88	53	179	185	90	CAR 80	145	145	92	53
100	EAR 80	145	145	88	53	185	200	100	CAR 80	145	145	92	53
112	EAR 80	145	145	88	53	185	200	112	CAR 80	145	145	92	53
132	EAR 132	220	220	117	110	260	275	132	CAR 132	220	220	103	110
160	EAR 132	220	220	117	110	265	281	160	CAR 132	220	220	103	110
180	EAR 180	280	340	152	140	385	401	180	CAR 180	265	270	162	133
200	EAR 180	280	340	152	140	390	420	200	CAR 180	265	270	162	133
225	EAR 180	280	340	154	140	390	420	225	CAR 225	380	380	202	190
250	EAR 250	340	422	206	161	474	512	250	CAR 225	380	380	202	190
280	EAR 250	340	422	206	161	474	512	280	CAR 225	380	380	202	190
315	EAR 250	340	422	198	161	474	512	315	CAR 315	380	380	208	190
355	EAR 355	480	527	249	224	---	617	355	CAR 355	484	734	335	242
400	EAR 355	480	527	249	224	---	630	400	CAR 355	484	734	335	242
450	EAR 355	480	527	249	224	---	630	450	CAR 355	484	734	335	242

Protection type		EAR – Ex e				
Cable entry		Version 9				
Size		a	b	c	d	k
Connection space						
250	EAR 250	356	512	186	179	317
280	EAR 250	356	512	186	179	357
315	EAR 250	356	512	186	179	427
355	EAR 355	425	650	254	213	541
400	EAR 355	425	650	254	213	558
450	EAR 355	425	650	254	213	626

Protection type		EAR – Ex e						CAR – Ex d					
Cable entry		Version 1 and 3						without cable gland					
Type CD...XY*		a	b	c	d	r	g	Size		a	b	c	d
Connection space								Connection space					
250S	EAR 250	340	422	196	161	474	512	250S	CAR 225	380	380	202	190
250M	EAR 250	340	422	196	161	474	512	250M	CAR 225	380	380	202	190
280S	EAR 250	340	422	196	161	474	512	280S	CAR 225	380	380	202	190
280M	EAR 250	340	422	196	161	474	512	280M	CAR 315	380	380	208	190
315	EAR 250	340	422	196	161	474	512	315	CAR 315	380	380	208	190

Dimensions

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1

Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“),

High- and Premium Efficiency IE2, IE3

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B3, IM B6, IM B7,

IM B8, IM V5¹⁾, IM V6

Type	A	AA	AB	AC	B	BA	BB	BC	C	H _{-0.5}	HA	HD	K _{H17}	K' _{H17}	L Pole number				
IE-K82R...																2	4	6	8
80 M	125	35	160	158	100	37	130	15	50	80	12	271	Ø 10	-	343	343	-	-	-
90 S	140	38	180	178	100	44	130	15	56	90	12	295	Ø 10	-	398	398	398	-	-
90 L	140	40	180	183	125	44	155	15	56	90	12	295	Ø 10	-	398	398	398	-	-
100 L	160	42	200	198	140	46	175	17.5	63	100	15	311	Ø 12	-	419	419	419	419	-
112 M	190	45	235	218	140	46	175	17.5	70	112	17	337	Ø 12	-	517	517	517	517	-
132 S	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12	-	-	529	529	529	-
132 S1	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12	-	529	-	-	-	-
132 S2	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12	-	579	-	-	-	-
132 M	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12	-	-	579	-	-	579
132 M1	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12	-	-	-	529	-	-
132 M2	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12	-	-	-	579	-	-
K82R...Y2/Y3/Y																			
160 M	254	65	310	318	210	100	300	23	108	160	25	477	15	20	713	676	676	676	-
160 LY2	254	65	310	318	254	100	300	23	108	160	25	477	15	20	713	676	676	-	-
160 LY3/Y	254	65	310	318	254	100	300	23	108	160	25	477	15	20	713	711	711	676	-
180 M	279	75	350	353	241	100	340	30	121	180	25	545	15	20	726	726	-	-	-
180 LY2	279	75	350	353	279	100	340	30	121	180	25	545	15	20	-	726	726	-	-
180 LY3/Y	279	75	350	353	279	100	340	30	121	180	25	545	15	20	-	776	726	726	-
200 L	318	80	390	393	305	90	365	30	133	200	30	581	20	26	789	789	789	789	-
K82R...Y2/Y3/Y																			
225 S	356	85	450	455	286	90	370	29.5	149	225 _{-0.5}	35	634	20	26	-	937	-	888	-
225 M	356	85	450	455	311	90	370	29.5	149	225 _{-0.5}	35	634	20	26	907	937	888	888	-
250 M	406	105	510	493	349	110	420	35.5	168	250 _{-0.5}	40	731	26	35	1000	1000	934	934	-
280 S	457	110	570	548	368	120	500	40.5	190	280 ₋₁	45	802	26	35	1109	1109	1109	1109	-
280 M	457	110	570	548	419	120	500	40.5	190	280 ₋₁	45	802	26	35	1109	1109	1109	1109	-
315 S	508	150	630	635	406	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218	-
315 M	508	150	630	635	457	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218	-
315 L1	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218	-
315 L2	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1418	1498	-
315 L3	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1418	1498	-
355 M	610	180	720	725	560	220	720	45	254	355 ₋₁	50	1084	30	39	-	-	1597	1597	-
K82R ... XY2/XY3/XY****																			
250 S	406	110	510	493	311	110	420	30	168	250 _{-0.5}	45	731	Ø 26.5	-	1000	1000	934	934	-
250 M	406	110	510	548	349	110	420	30	168	250 _{-0.5}	45	762	Ø 26.5	-	1109	1109	1109	1109	-
280 S	457	110	570	548	368	120	500	40.5	190	280 ₋₁	45	802	26	35	1109	1109	1109	1109	-
280 M	457	110	570	635	419	-	570	40	190	280 ₋₁	48	862	Ø 26.5	-	1268	1298	1218	1218	-
315 S	508	150	630	635	406	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218	-
315 M	508	150	630	635	457	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1298	-
315 L1	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1218	1298	-
315 L2	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1418	1498	-

Lifting eye bolts from size 90.

Dimension AC measured over screw head.

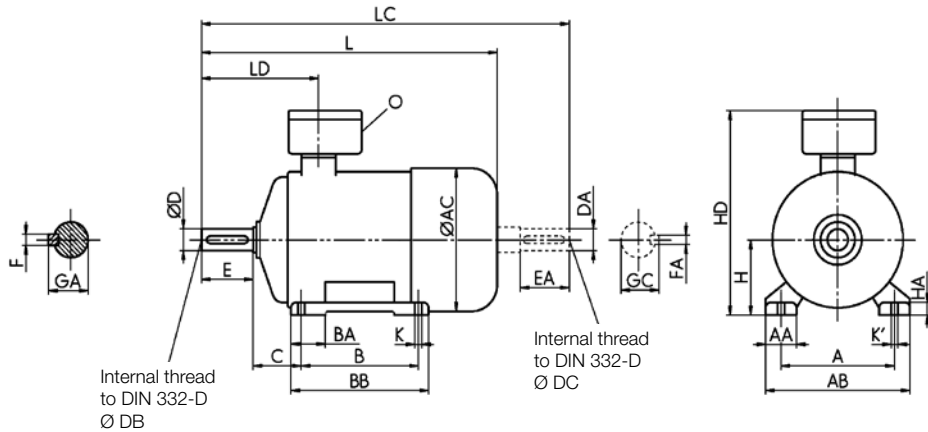
Dimension HD refers to terminal box Ex "e".

Terminal box can be rotated by 4 x 90°.

¹⁾ Type of construction IM V5 with protective canopy.

²⁾ For type 250 to 400-4, 6, 8: Specifications for 2 poles apply for dimensions DA, EA, GC, FA, DC.

For type 450-6, 8: Specifications for 4 poles apply for dimensions EA, GC, FA, DC.



Type	LC			LD		0	Shaft end			E, EA	GA, GC		F, FA	DB, DC	
(IE-)K82R...	Pole number			Pole number			D, DA								
	2	4	6, 8												
80 M	417	417	-	127		2 x M25 x 1.5	19 ₆			40	21.5		6		M6
90 S	479	479	479	139		2 x M25 x 1.5	24 ₆			50	27		8		M8
90 L	479	479	479	139		2 x M25 x 1.5	24 ₆			50	27		8		M8
100 L	515	515	515	154		2 x M32 x 1.5	28 ₆			60	31		8		M10
112 M	608	608	608	189		2 x M32 x 1.5	28 ₆			60	31		8		M10
132 S	645	645	645	226		2 x M32 x 1.5	38 ₆			80	41		10		M12
132 S1	645	-	-	226		2 x M32 x 1.5	38 ₆			80	41		10		M12
132 S2	652	-	-	226		2 x M32 x 1.5	38 ₆			80	41		10		M12
132 M	-	652	645*	226		2 x M32 x 1.5	38 ₆			80	41		10		M12
132 M1	-	-	645**	226		2 x M32 x 1.5	38 ₆			80	41		10		M12
132 M2	-	-	652**	226		2 x M32 x 1.5	38 ₆			80	41		10		M12

K82R Y2,Y3,Y

160 M	864	864	864	261		2 x M40 x 1.5	42 ₆			110	45		12		M16
160 LY2	864	864	864**	261		2 x M40 x 1.5	42 ₆			110	45		12		M16
160 LY3/Y	864	899	***	261		2 x M40 x 1.5	42 ₆			110	45		12		M16
180 M	909	909	-	369		2 x M40 x 1.5	48 ₆			110	51.5		14		M16
180 LY2	-	909	909**	369		2 x M40 x 1.5	48 ₆			110	51.5		14		M16
180 LY3/Y	-	959	909	369		2 x M40 x 1.5	48 ₆			110	51.5		14		M16
200 L	983	983	983	390		2 x M50 x 1.5	55 ₆			110	59		16		M20

Type	LC			LD			Shaft end			E, EA ²⁾			GA, GC ²⁾			F, FA ²⁾			DB, DC ²⁾	
K82R...	Pole number			Pole number			D _{m6} , DA _{m6} ²⁾													
Y2/Y3/Y	2	4	6, 8	2	4, 6, 8	0	2	4	6, 8	2	4, 6, 8	2	4	6, 8	2	4, 6, 8	2	4, 6, 8	2	4, 6, 8
225 S	-	1175	1175	-	377	2 x M50 x 1.5	-	60	60	-	140	-	64	64	-	18	-	M20		
225 M	1145	1175	1175	347	377	2 x M50 x 1.5	55	60	60	110	140	59	64	64	16	18	M20	M20		
250 M	1250	1250	1250	482	482	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20		
280 S	1375	1375	1375	483	483	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20		
280 M	1375	1375	1375	483	483	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20		
315 S	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20		
315 M	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20		
315 L1	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20		
315 L2	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20		
315 L3	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20		
355 M	-	-	1980	-	702	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24		

Type	LC			LD			Shaft end											
CD...	Pole number			Pole number			0	D _{m6} ²⁾	DA _{m6} ²⁾		E, EA ²⁾	GA, GC ²⁾		F, FA ²⁾		DB, DC		
XY2/XY3	2	4	6, 8	2	4, 6, 8		2	4	6, 8	2	4, 6, 8	2	4	6, 8	2	4, 6, 8	2	4, 6, 8
250 S	1250	1250	1250	482	482	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20
250 M	1375	1375	1375	483	483	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20
280 S	1375	1375	1375	483	483	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
280 M	1543	1573	1573	496	526	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
315 S	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 M	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L1	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L2	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20

For pole-switching motors (4/2, 6/4 and 8/4), the 4-pole shaft end is used.

Exception: Motors in sizes 355, 400 and 450 with pole-switching configuration 4/2. In this case, the 2-pole shaft end is used.

The length dimension L corresponds to 4-pole motors for all sizes.

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1
**Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“),
High- and Premium Efficiency IE2, IE3**

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B5, IM V1¹⁾, IM V3

Type	Mounting flange			P	S _{H17}	T	AC	AD	L				LC			
	LA	M	N						Pole number				Pole number			
IE-K82R...									2	4	6	8	2	4	6	8
80 M	12	165	130 _{j6}	200	12	3.5	158	185	343	343	-	-	417	417	-	-
90 S+L	12	165	130 _{j6}	200	12	3.5	178	198	398	398	398	-	479	479	479	-
100 L	16	215	180 _{j6}	250	14.5	4	198	205	419	419	419	419	515	515	515	515
112 M	16	215	180 _{j6}	250	14.5	4	218	225	517	517	517	517	608	608	608	608
132 S	16	265	230 _{j6}	300	14.5	4	265	279	-	529	529	529	-	645	645	645
132 S1	16	265	230 _{j6}	300	14.5	4	265	279	529	-	-	-	645	-	-	-
132 S2	16	265	230 _{j6}	300	14.5	4	265	279	579	-	-	-	652	-	-	-
132 M	16	265	230 _{j6}	300	14.5	4	265	279	-	579	-	529	-	652	-	645
132 M1	16	265	230 _{j6}	300	14.5	4	265	279	-	-	529	-	-	-	645	-
132 M2	16	265	230 _{j6}	300	14.5	4	265	279	-	-	579	-	-	-	652	-

K82R...Y2/ Y3/Y

160 M	20	300	250 _{j6}	350	18.5	5	318	317	713	676	676	676	864	864	864	864
160 LY2	20	300	250 _{j6}	350	18.5	5	318	317	713	676	676	-	864	864	864	-
160 LY3/Y	20	300	250 _{j6}	350	18.5	5	318	317	713	711	711	676	864	899	899	864
180 M	20	300	250 _{j6}	350	18.5	5	353	365	726	726	-	-	909	909	-	-
180 LY2	20	300	250 _{j6}	350	18.5	5	353	365	-	726	726	-	-	909	909	-
180 LY3/Y	20	300	250 _{j6}	350	18.5	5	353	365	-	776	726	726	-	959	909	909
200 L	20	350	300 _{h6}	400	18.5	5	393	381	789	789	789	789	983	983	983	983

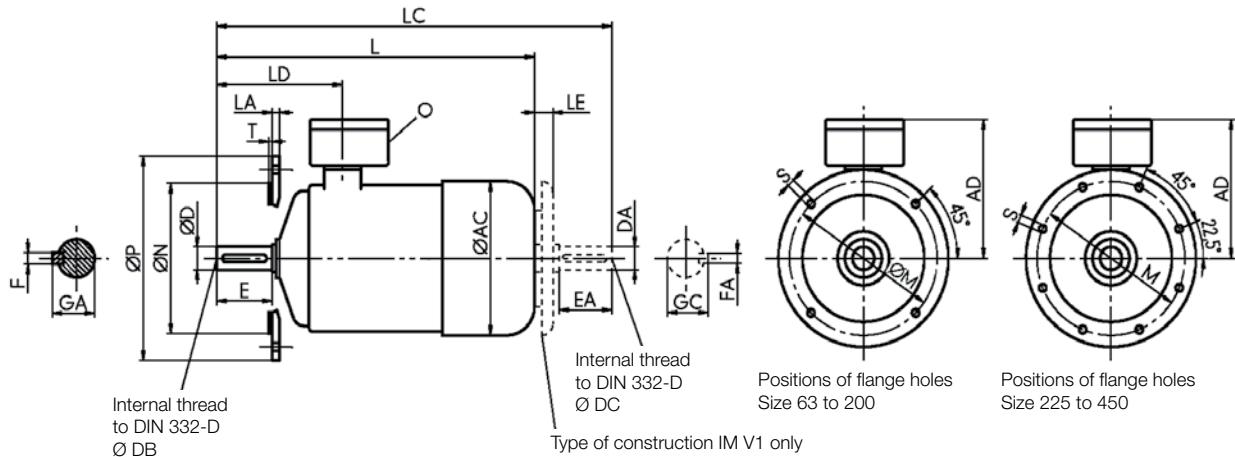
Type	Mounting flange			P	S _{H17}	T	AC	AD	L				LC			
	LA	M	N _{h6}						Pole number				Pole number			
K82R... Y2/Y3/Y									2	4	6	8	2	4	6	8
225 S	22	400	350	450	18.5	5	455	409	-	937	-	888	-	1175	-	1175
225 M	22	400	350	450	18.5	5	455	409	907	937	888	888	1145	1175	1175	1175
250 M	18	500	450	550	18.5	5	493	471	1000	1000	934	934	1250	1250	1250	1250
280 S	18	500	450	550	18.5	5	548	511	1109	1109	1109	1109	1375	1375	1375	1375
280 M	18	500	450	550	18.5	5	548	511	1109	1109	1109	1109	1375	1375	1375	1375
315 S	22	600	550	660	24	6	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 M	22	600	550	660	24	6	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 L1	22	600	550	660	24	6	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 L2	22	600	550	660	24	6	635	582	1468	1498	1418	1498	1743	1773	1773	1773
315 L3	22	600	550	660	24	6	635	582	1468	1498	1418	1498	1743	1773	1773	1773
335 M	25	740	680	800	24	6	725	729	-	-	1597	1597	-	-	1980	1980

K82R ... XY2/XY3/XY****

250 S	22	500	450	550	18.5	5	493	481	1000	1000	934	934	1250	1250	1184	1184
250 M	22	500	450	550	18.5	5	548	476	1109	1109	1109	1109	1375	1375	1375	1375
280 S	22	500	450	550	18.5	5	548	522	1109	1109	1109	1109	1375	1375	1375	1375
280 M	22	500	450	550	18.5	5	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 S	22	600	550	660	24	6	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 M	22	600	550	660	24	6	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 L1	22	600	550	660	24	6	635	582	1468	1498	1218	1298	1743	1773	1773	1773
315 L2	22	600	550	660	24	6	635	582	1468	1498	1418	1498	1743	1773	1773	1773

¹⁾ Type of construction IM V5 with protective canopy

²⁾ For type 250 to 315-4, 6, 8: Specifications for 2 poles apply for dimensions DA, EA, GC, FA, DC.



Type	LD	LE			Shaft end		E, EA	GA, GC	F, FA	DB, DC
		Pole number			0	D, DA				
IE-K82R...		2	4	6, 8						
80 M	127	25	25	25	2 x M25 x 1.5	19 _{j6}	40	21.5	6	M6
90 S+L	139	25	25	25	2 x M25 x 1.5	24 _{j6}	50	27	8	M8
100 L	154	30	30	30	2 x M32 x 1.5	28 _{j6}	60	31	8	M10
112 M	189	30	30	30	2 x M32 x 1.5	28 _{j6}	60	31	8	M10
132 S+M	226	30	30	30	2 x M32 x 1.5	38 _{k6}	80	41	10	M12

K82R...Y2/Y3/Y

160 M+L	261	66	66	66	2 x M40 x 1.5	42 _{k6}	110	45	12	M16
180 M+L	369	66	66	-	2 x M40 x 1.5	48 _{k6}	110	51.5	14	M16
200 L	390	77	77	77	2 x M50 x 1.5	55 _{m6}	110	59	16	M20

Type	LD					Shaft end					E. EA ²⁾			GA. GC ²⁾			F. FA ²⁾			DB. DC ²⁾	
K82R...	LD		Pole number			0	D _{m6} DA _{m6} ²⁾														
Y2/Y3/Y	2	4, 6, 8	2	4	6, 8		2	4	6, 8	2	4, 6, 8	2	4	6, 8	2	4, 6, 8	2	4, 6, 8	2	4, 6, 8	
225 S	-	377	-	87	87	2 x M50 x 1.5	-	60	60	-	140	-	64	64	-	18	-		M20		
225 M	347	377	87	87	87	2 x M50 x 1.5	55	60	60	110	140	59	64	64	16	18	M20	M20			
250 M	482	482	94	94	94	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20			
280 S	483	483	110	110	110	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20			
280 M	483	483	110	110	110	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20			
315 S	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20			
315 M	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20			
315 L1	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20			
315 L2	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20			
315 L3	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20			
355 M	-	702	130	130	130	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24			

K82R ... XY2/XY3/XY

250 S	482	482	94	94	94	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20
250 M	483	483	110	110	110	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20
280 S	483	483	110	110	110	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
280 M	496	526	115	115	115	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
315 S	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 M	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L1	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L2	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20

For pole-switching motors (4/2, 6/4 and 8/4), the 4-pole shaft end is used.

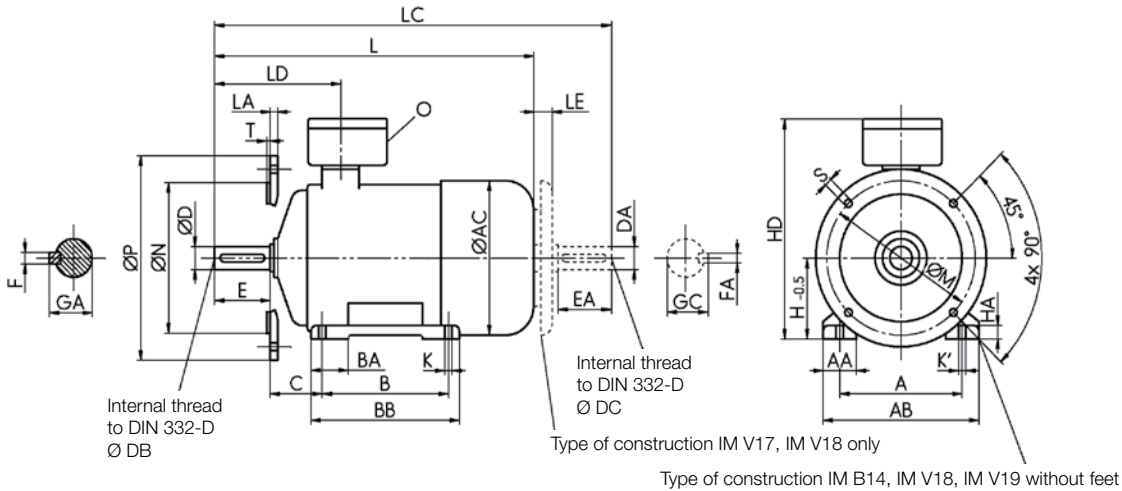
Exception: Motors in sizes 355, 400 and 450 with pole-switching configuration 4/2.

In this case, the 2-pole shaft end is used. The length dimension L corresponds to 4-pole motors for all sizes.

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“), High- and Premium Efficiency IE2, IE3

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B5, IM V1¹⁾, IM V3



Type	A	AA	AB	AC	B	BA	BB	BC	C	H _{-0.5}	HA	HD	K _{H17}
IE.-K82R...													
80 M	125	35	160	158	100	37	130	15	50	80	12	271	Ø 10
90 S	140	38	180	178	100	44	130	15	56	90	12	295	Ø 10
90 L	140	40	180	183	125	44	155	15	56	90	12	295	Ø 10
100 L	160	42	200	198	140	46	175	17.5	63	100	15	311	Ø 12
112 M	190	45	235	218	140	46	175	17.5	70	112	17	337	Ø 12
132 S	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12
132 S1	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12
132 S2	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12
132 M	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12
132 M1	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12
132 M2	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12

Type	L Pole number				LC Pole number				LE	LD	0
IE.-K82R...	2	4	6	8	2	4	6	8			
80 M	343	343	-	-	417	417	-	-	25	127	2 x M25 x 1.5
90 S+L	398	398	398	-	479	479	479	-	25	139	2 x M25 x 1.5
100 L	419	419	419	419	515	515	515	515	30	154	2 x M32 x 1.5
112 M	517	517	517	517	608	608	608	608	30	189	2 x M32 x 1.5
132 S	-	529	529	529	-	645	645	645	30	226	2 x M32 x 1.5
132 S1	529	-	-	-	645	-	-	-	30	226	2 x M32 x 1.5
132 S2	579	-	-	-	652	-	-	-	30	226	2 x M32 x 1.5
132 M	-	579	-	579	-	652	-	645	30	226	2 x M32 x 1.5
132 M1	-	-	529	-	-	-	645	-	30	226	2 x M32 x 1.5
132 M2	-	-	579	-	-	-	652	-	30	226	2 x M32 x 1.5

Type	Mounting flange										
	D, DA	E, EA	GA, GC	F, FA	DA, DC	LA	M	N _{j6}	P	S	T
IE.-K82R...											
80 M	19 _{j6}	40	21.5	6	M6	10	100	80	120	M6	3
90 S+L	24 _{j6}	50	27	8	M8	10	115	95	140	M8	3
100 L	28 _{j6}	60	31	8	M10	12	130	110	160	M8	3.5
112 M	28 _{j6}	60	31	8	M10	12	130	110	160	M8	3.5
132 S+M	38 _{k6}	80	41	10	M12	12	165	130	200	M10	3.5

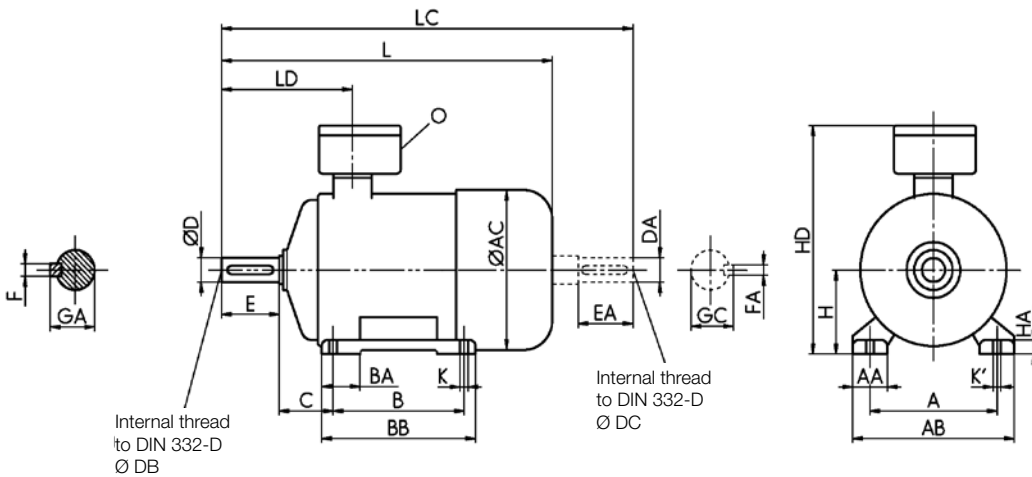
Mounting flange according to EN 50347, form FT.
Lifting eye bolts from size 90.
Dimension AC measured over screw head.
Dimension HD refers to terminal space Ex "e".
Terminal space can be rotated by 4 x 90°.

¹⁾ Protective canopy required for type of construction IM V17 and IM V18
²⁾ For pole-switching motors (4/2, 6/4 and 8/4), the 4-pole shaft end is used.
Exception: Motors in sizes 355, 400 and 450 with pole-switching configuration 4/2.
In this case, the 2-pole shaft end is used. The length dimension L corresponds to 4-pole motors for all sizes.

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“), Standard Efficiency IE1

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B3, IM B6, IM B7, IM B8, IM V5¹⁾, IM V6



Type	A	AA	AB	AC	B	BA	BB	BC	C	H _{-0.5}	HA	HD	K _{H17}	K' _{H17}	L	Pole number			
K82R...																2	4	6	8
63 M	100	20	120	134	80	25	100	10	40	63	6	227	Ø 7	-	239	239	239	239	
71 M	112	30	139	145	90	25	110	10	45	71	10	235	Ø 7	-	278	278	278	278	
80 M	125	35	160	163	100	35	130	15	50	80	12	260	Ø 10	-	313	313	313	313	
90 S	140	40	180	183	100	40	130	15	56	90	12	275	Ø 10	-	364	364	364	364	
90 L	140	40	180	183	125	40	155	15	56	90	12	275	Ø 10	-	364	364	364	364	
100 L	160	45	200	201	140	45	175	17.5	63	100	15	305	Ø 12	-	415	415	415	415	
112 M	190	50	235	225	140	50	175	17.5	70	112	17	317	Ø 12	-	425	425	425	425	
132 S	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12	-	529	529	529	529	
132 M	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12	-	-	529	529	529	
160 M	254	65	310	318	210	100	300	23	108	160	25	477	15	20	713	676	676	676	
160 L	254	65	310	318	254	100	300	23	108	160	25	477	15	20	713	676	676	676	
180 M	279	75	350	353	241	100	340	30	121	180	25	545	15	20	726	726	-	-	
180 L	279	75	350	353	279	100	340	30	121	180	25	545	15	20	-	726	726	726	
200 L	318	80	390	393	305	90	365	30	133	200	30	581	20	26	789	789	789	789	

Type	A	AA	AB	AC	B	BA	BB	BC	C	H _{-0.5}	HA	HD	K _{H17}	K' _{H17}	L	Pole number			
K82R...																2	4	6	8
225 S	356	85	450	455	286	90	370	29.5	149	225 _{-0.5}	35	634	20	26	-	937	-	888	
225 M	356	85	450	455	311	90	370	29.5	149	225 _{-0.5}	35	634	20	26	907	937	888	888	
250 M	406	105	510	493	349	110	420	35.5	168	250 _{-0.5}	40	731	26	35	1000	1000	934	934	
280 S	457	110	570	548	368	120	500	40.5	190	280 ₋₁	45	802	26	35	1109	1109	1109	1109	
280 M	457	110	570	548	419	120	500	40.5	190	280 ₋₁	45	802	26	35	1109	1109	1109	1109	
315 S	508	150	630	635	406	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218	
315 M	508	150	630	635	457	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218	
315 L1	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218	
315 L2	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1418	1498	
315 L3	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1418	1498	
355 M	610	180	720	725	560	220	720	45	254	355 ₋₁	50	1084	30	39	-	-	1597	1597	
355 L1	610	180	720	725	630	220	720	45	254	355 ₋₁	50	1084	30	39	1667	1697	1597	1597	
355 L2	610	180	720	725	630	220	720	45	254	355 ₋₁	50	1084	30	39	1667	1667	1597	1597	
355 L3	610	180	720	725	630	220	720	45	254	355 ₋₁	50	1084	30	39	1747	1777	-	-	
400 M	686	130	800	810	630	150	1264	152	280	400 ₋₁	34	1146	Ø 35	-	-	1907	1907	1907	
400 L	686	130	800	810	710	150	1264	152	280	400 ₋₁	34	1146	Ø 35	-	1837	1907	1907	1907	
450 M	760	150	900	910	710	180	1135	150	280	450 ₋₁	35	1264	Ø 35	-	-	1903	1903	1903	
450 L	760	150	900	910	840	180	1135	150	280	450 ₋₁	35	1264	Ø 35	-	-	1903	1903	1903	

Size 63 in T4 non-ventilated.

Lifting eye bolts from size 90

Dimension AC measured over screw head.

Dimension HD for Ex "e", rotatable.

Applies also for series BD ...

¹⁾ Type of construction IM V5 with protective canopy.

²⁾ For type 250 to 400-4, 6, 8: Specifications for 2 poles apply for dimensions DA, EA, GC, FA, DC.

For type 450-6, 8: Specifications for 4 poles apply for dimensions EA, GC, FA, DC.

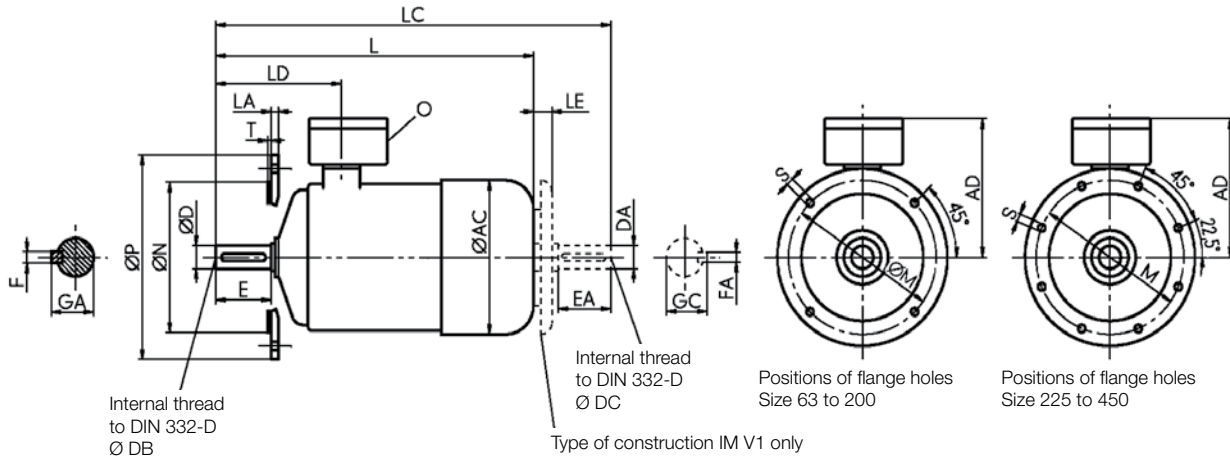
Type	LC Pole number			LD	0	Shaft end D, DA	E, EA	GA, GC	F, FA	DB, DC
K82R...	2	4	6, 8							
63 M	274	274	274	104	2 x M25 x 1.5	11 _{j6}	23	12.5	4	M4
71 M	334	334	334	111	2 x M25 x 1.5	14 _{j6}	30	16	5	M5
80 M	387	387	387	116	2 x M25 x 1.5	19 _{j6}	40	21.5	6	M6
90 S	445	445	445	137	2 x M25 x 1.5	24 _{j6}	50	27	8	M8
90 L	445	445	445	137	2 x M25 x 1.5	24 _{j6}	50	27	8	M8
100 L	510	510	510	149	2 x M32 x 1.5	28 _{j6}	60	31	8	M10
112 M	526	526	526	154	2 x M32 x 1.5	28 _{j6}	60	31	8	M10
132 S	645	645	645	226	2 x M32 x 1.5	38 _{k6}	80	41	10	M12
132 M	-	645	645	226	2 x M32 x 1.5	38 _{k6}	80	41	10	M12
160 M	864	864	864	261	2 x M40 x 1.5	42 _{k6}	110	45	12	M16
160 L	864	864	864	261	2 x M40 x 1.5	42 _{k6}	110	45	12	M16
180 M	909	909	-	369	2 x M40 x 1.5	48 _{k6}	110	51.5	14	M16
180 L	-	909	909	369	2 x M40 x 1.5	48 _{k6}	110	51.5	14	M16
200 L	983	983	983	390	2 x M50 x 1.5	55 _{m6}	110	59	16	M20

Type	LC Pole number			LD Pole number		0	Shaft end D _{m6} , DA _{m6}			E, EA ²⁾	GA, GC ²⁾			F, FA ²⁾			DB, DC	
K82R...	2	4	6, 8	2	4, 6, 8		2	4	6, 8	2	4, 6, 8	2	4	6, 8	2	4, 6, 8	2	4, 6, 8
225 S	-	1175	1175	-	377	2 x M50 x 1.5	-	60	60	-	140	-	64	64	-	18	-	M20
225 M	1145	1175	1175	347	377	2 x M50 x 1.5	55	60	60	110	140	59	64	64	16	18	M20	M20
250 M	1250	1250	1250	482	482	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20
280 S	1375	1375	1375	483	483	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
280 M	1375	1375	1375	483	483	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
315 S	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 M	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L1	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L2	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L3	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
355 M	-	-	1980	-	702	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
355 L1	1925	1980	1980	672	702	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
355 L2	1950	1980	1980	672	702	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
355 L3	2030	2060	-	672	702	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
400 M	-	2190	2190	-	788	2 x M95 x 2	75	100	100	140	210	79.5	106	106	20	28	M20	M24
400 L	2120	2190	2190	718	788	2 x M95 x 2	75	100	100	140	210	79.5	106	106	20	28	M20	M24
450 M	-	2280	2280	-	826	2 x M95 x 2	75	100	110	140	210	79.5	106	116	20	28	M20	M24
450 L	-	2280	2280	-	826	2 x M95 x 2	75	100	110	140	210	79.5	106	116	20	28	M20	M24

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“), Standard Efficiency IE1

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B5, IM V1¹⁾, IM V3



Type K82R...	Mounting flange			P	S _{H17}	T	AC	AD	L				LC			
	LA	M	N						Pole number				Pole number			
									2	4	6	8	2	4	6	8
63 M	9	115	95 ₆	140	10	3	134	164	239	239	239	239	274	274	274	274
71 M	9	130	110 ₆	160	10	3.5	145	164	278	278	278	278	334	334	334	334
80 M	12	165	130 ₆	200	12	3.5	163	180	313	313	313	313	387	387	387	387
90 S	12	165	130 ₆	200	12	3.5	183	185	364	364	364	364	445	445	445	445
90 L	12	165	130 ₆	200	12	3.5	183	185	364	364	364	364	445	445	445	445
100 L	16	215	180 ₆	250	14.5	4	201	205	415	415	415	415	510	510	510	510
112	16	215	180 ₆	250	14.5	4	225	205	425	425	425	425	526	526	526	526
132 S+M	16	265	230 ₆	300	14.5	4	265	279	529	529	529	529	645	645	645	645
160 M+L	20	300	250 ₆	350	18.5	5	318	317	713	676	676	676	864	864	864	864
180 M	20	300	250 ₆	350	18.5	5	353	365	726	726	-	-	909	909	-	-
180 L	20	300	250 ₆	350	18.5	5	353	365	-	726	726	726	-	909	909	909
200 L	20	350	300 ₆	400	18.5	5	393	381	789	789	789	789	983	983	983	983

Type K82R...	Mounting flange			P	S _{H17}	T	AC	AD	L				LC			
	LA	M	N _{h6}						Pole number				Pole number			
									2	4	6	8	2	4	6	8
225 S	22	400	350	450	18.5	5	455	409	-	937	-	888	-	1175	-	1175
225 M	22	400	350	450	18.5	5	455	409	907	937	888	888	1145	1175	1175	1175
250 M	18	500	450	550	18.5	5	493	471	1000	1000	934	934	1250	1250	1250	1250
280 S	18	500	450	550	18.5	5	548	511	1109	1109	1109	1109	1375	1375	1375	1375
280 M	18	500	450	550	18.5	5	548	511	1109	1109	1109	1109	1375	1375	1375	1375
315 S	22	600	550	660	24	6	635	581	1268	1298	1218	1218	1543	1573	1573	1573
315 M	22	600	550	660	24	6	635	581	1268	1298	1218	1218	1543	1573	1573	1573
315 L1	22	600	550	660	24	6	635	581	1268	1298	1218	1218	1543	1573	1573	1573
315 L2	22	600	550	660	24	6	635	581	1468	1498	1418	1498	1743	1773	1773	1773
315 L3	22	600	550	660	24	6	635	581	1468	1498	1418	1498	1743	1773	1773	1773
335 M	25	740	680	800	24	6	725	729	-	-	1597	1597	-	-	1980	1980
355 L1	25	740	680	800	24	6	725	729	1667	1697	1597	1597	1925	1980	1980	1980
355 L2	25	740	680	800	24	6	725	729	1667	1697	1597	1597	1950	1980	1980	1980
355 L3	25	740	680	800	24	6	725	729	1747	1777	-	-	2030	2060	-	-
400 M	28	940	880	1000	28	6	810	746	-	1907	1907	1907	-	2190	2190	2190
400 L	28	940	880	1000	28	6	810	746	1837	1907	1907	1907	2120	2190	2190	2190
450 M	28	940	880	1000	28	6	910	814	-	1903	1903	1903	-	2280	2280	2280
450 L	28	940	880	1000	28	6	910	814	-	1903	1903	1903	-	2280	2280	2280

Size 63 in T4 non-ventilated.

Mounting flange according to EN 50347, form FF.

Lifting eye bolts from size 90

Dimension AC measured over screw head.

Dimension HD refers to terminal space Ex "e".

Terminal space can be rotated by 4 x 90°.

Applies also for series BD ...

Size 400 to 450 only available in type of construction V1.

¹⁾ Type of construction IM V5 with protective canopy.

²⁾ For type 250 to 400-4, 6, 8: Specifications for 2 poles apply for dimensions DA, EA, GC, FA, DC.

For type 450-6, 8: Specifications for 4 poles apply for dimensions EA, GC, FA, DC.

Type K82R...	LD	LE			Shaft end					
		Pole number			0	D, DA	E, EA	GA, GC	F, FA	DB, DC
		2	4	6, 8						
63 M	104	-	-	-	2 x M25 x 1.5	11j6	23	12.5	4	M4
71 M	111	25	25	25	2 x M25 x 1.5	14j6	30	16	5	M5
80 M	116	25	25	25	2 x M25 x 1.5	19j6	40	21.5	6	M6
90 S	137	25	25	25	2 x M25 x 1.5	24j6	50	27	8	M8
90 L	137	25	25	25	2 x M25 x 1.5	24j6	50	27	8	M8
100 L	149	30	30	30	2 x M32 x 1.5	28j6	60	31	8	M10
112 M	154	30	30	30	2 x M32 x 1.5	28j6	60	31	8	M10
132 S+M	226	30	30	30	2 x M32 x 1.5	38k6	80	41	10	M12
160 M+L	261	66	66	66	2 x M40 x 1.5	42k6	110	45	12	M16
180 M	369	66	66	-	2 x M40 x 1.5	48k6	110	51.5	14	M16
180 L	369	-	66	66	2 x M40 x 1.5	48k6	110	51.5	14	M16
200 L	390	77	77	77	2 x M50 x 1.5	55m6	110	59	16	M20

Type K82R...	LD			0	Shaft end D _{m6} , DA _{m6} ²⁾			E, EA ²⁾	GA, GC ²⁾		F, FA ²⁾		DB, DC ²⁾	
	2	4, 6, 8	Pole number 2 4 6, 8		2	4	6, 8		2	4, 6, 8	2	4, 6, 8	2	4, 6, 8
225 S	-	377	- 87 87	2 x M50 x 1.5	- 60 60	60	- 140	- 64 64	- 18 18	- M20 M20				
225 M	347	377	87 87 87	2 x M50 x 1.5	55 60 60	60	110 140	59 64 64	16 18 18	M20 M20 M20				
250 M	482	482	94 94 94	2 x M63 x 1.5	60 65 65	65	140 140 140	64 69 69	18 18 18	M20 M20 M20				
280 S	483	483	110 110 110	2 x M63 x 1.5	65 75 75	75	140 140 140	69 79.5 79.5	18 20 20	M20 M20 M20				
280 M	483	483	110 110 110	2 x M63 x 1.5	65 75 75	75	140 140 140	69 79.5 79.5	18 20 20	M20 M20 M20				
315 S	496	526	115 115 115	2 x M63 x 1.5	65 80 80	80	140 170 170	69 85 85	18 22 22	M20 M20 M20				
315 M	496	526	115 115 115	2 x M63 x 1.5	65 80 80	80	140 170 170	69 85 85	18 22 22	M20 M20 M20				
315 L1	496	526	115 115 115	2 x M63 x 1.5	65 80 80	80	140 170 170	69 85 85	18 22 22	M20 M20 M20				
315 L2	496	526	115 115 115	2 x M63 x 1.5	65 80 80	80	140 170 170	69 85 85	18 22 22	M20 M20 M20				
315 L3	496	526	115 115 115	2 x M63 x 1.5	65 80 80	80	140 170 170	69 85 85	18 22 22	M20 M20 M20				
355 M	-	702	130 130 130	2 x M80 x 2	75 90 90	90	140 170 170	79.5 95 95	20 25 25	M20 M24 M24				
355 L1	672	702	130 130 130	2 x M80 x 2	75 90 90	90	140 170 170	79.5 95 95	20 25 25	M20 M24 M24				
355 L2	672	702	130 130 130	2 x M80 x 2	75 90 90	90	140 170 170	79.5 95 95	20 25 25	M20 M24 M24				
355 L3	672	702	130 130 130	2 x M80 x 2	75 90 90	90	140 170 170	79.5 95 95	20 25 25	M20 M24 M24				
400 M	-	788	130 130 130	2 x M95 x 2	75 100 100	100	140 210 210	79.5 106 106	20 28 28	M20 M24 M24				
400 L	718	788	130 130 130	2 x M95 x 2	75 100 100	100	140 210 210	79.5 106 106	20 28 28	M20 M24 M24				
450 M	704	826	130 130 130	2 x M95 x 2	75 100 110	110	140 210 210	79.5 106 116	20 28 28	M20 M24 M24				
450 L	704	826	130 130 130	2 x M95 x 2	75 100 110	110	140 210 210	79.5 106 116	20 28 28	M20 M24 M24				

For pole-switching motors (4/2, 6/4 and 8/4), the 4-pole shaft end is used.

Exception: Motors in sizes 355, 400 and 450 with pole-switching configuration 4/2.

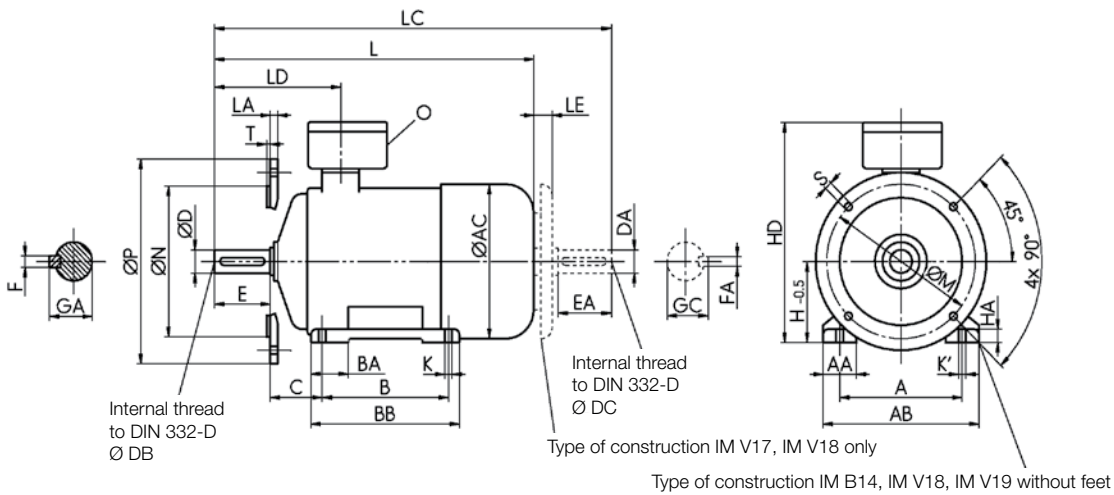
In this case, the 2-pole shaft end is used.

The length dimension L corresponds to 4-pole motors for all sizes.

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“), Standard Efficiency IE1

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B14, IM B34; IM V17¹⁾, IM V18¹⁾, IM V19, IM V37



Type IE-K82R...	A	AA	AB	AC	B	BA	BB	BC	C	H _{-0.5}	HA	HD	K _{H17}
63 M	100	20	120	134	80	25	100	10	40	63	6	227	Ø 7
71 M	112	30	139	145	90	25	110	10	45	71	10	235	Ø 7
80 M	125	35	160	163	100	35	130	15	50	80	12	260	Ø 10
90 S	140	40	180	183	100	40	130	15	56	90	12	275	Ø 10
90 L	140	40	180	183	125	40	155	15	56	90	12	275	Ø 10
100 L	160	45	200	201	140	45	175	17.5	63	100	15	305	Ø 12
112 M	190	50	235	225	140	50	175	17.5	70	112	17	317	Ø 12
132 S	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12
132 M	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12

Type K82R...	L	LC	LE	LD	O	Shaft end D, DA	E, EA	GA, GC	F, FA	DB, DC
63 M	239	274	---	104	2 x M25 x 1.5	11 _{j6}	23	12.5	4	M4
71 M	278	334	25	111	2 x M25 x 1.5	14 _{j6}	30	16	5	M5
80 M	313	387	25	116	2 x M25 x 1.5	19 _{j6}	40	21.5	6	M6
90 S+L	364	445	25	137	2 x M25 x 1.5	24 _{j6}	50	27	8	M8
100 L	415	510	30	149	2 x M32 x 1.5	28 _{j6}	60	31	8	M10
112 M	425	526	30	154	2 x M32 x 1.5	28 _{j6}	60	31	8	M10
132 S+M	529	645	30	226	2 x M32 x 1.5	38 _{j6}	80	41	10	M12

Type K82R...	Mounting flange LA	M	N _{j6}	P	S	T
63 M	8	75	60	90	M5	2.5
71 M	8	85	70	105	M6	2.5
80 M	10	100	80	120	M6	3
90 S+L	10	115	95	140	M8	3
100 L	12	130	110	160	M8	3.5
112 M	12	130	110	160	M8	3.5
132 S+M	12	165	130	200	M10	3.5

Size 63 in T4 non-ventilated.

Mounting flange according to EN 50347, form FT.

Lifting eye bolts from size 90

Dimension AC measured over screw head.

Dimension HD refers to terminal space Ex "e".

Terminal space can be rotated by 4 x 90°.

Applies also for series BD ...

¹⁾ Protective canopy required for type of construction IM V17 and IM V18

²⁾ For pole-switching motors (4/2, 6/4 and 8/4), the 4-pole shaft end is used.

Exception: Motors in sizes 355, 400 and 450 with pole-switching configuration 4/2.

In this case, the 2-pole shaft end is used. The length dimension L corresponds to 4-pole motors for all sizes.

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