

Made in Germany

Flameproof enclosure asynchronous motors



ELECTRIC DRIVES
FOR EVERY DEMAND



Data DKCF-series

Poles	Synchronous speed 50/ 60 Hz [rpm]	IE3-W4xR [kW, 50 Hz]	DKCF-series [kW]
2	3,000/ 3,600	0.18 - 250	185 - 2,000
4	1,500/ 1,800	0.12 - 250	185 - 2,240
6	1,000/ 1,200	0.12 - 160	185 - 1,800
8	750/ 900	0.12 - 132	200 - 1,400
10	600/ 720	on request	220 - 1,120
12	500/ 600	on request	220 - 900

IE3(4)-W4xR ...EX db(eb) series



special feature: variable flange mounting



Low voltage motors at a glance:

- variable flange mounting
- terminal box available in Ex db or Ex eb version
- cable outlet directions D-S, N-S, left and right in cross direction are possible for all terminal boxes
- connection technology is available as terminal board, WA-GO-TOP-JOB terminals and as free stranded wires
- other add-on components such as feedback systems, brakes and forced cooling fans are available in the appropriate type of protection
- energy efficiency class IE3 and IE4 available
- available pole numbers: 2, 4, 6 and 8; other pole numbers on request
- screw-on feet are available in various lengths and heights
 - can be attached to the housing in 4 x 90°
 - enables terminal box position left, right and above
- suitable for FU operation





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VEM standards for Ex d (e) motors

	Low voltage	High voltage
Voltage	290/ 500 V, 230/ 400 V, 400/ 690 V or on request (max. 690 V)	1 - 11 kV
Frequency	50/ 60 Hz	50/ 60 Hz + VSD
Explosion protection	Ex db eb, Ex db, Ex tb, IIC, IIC temperature class: IIC T4 (T6), IIC T125°C	Ex db eb (Motors Ex d + HKK Ex eb) IIC up to shaft height 355/ 400 (up to 560 in progress) temperature class: T4
Ignition protection class	pressure-resistant enclosure „db (eb)“ optional: housing protection „tx“	pressure-resistant enclosure „db (eb)“
Protection	IP 55, IP 56, IP 65, IP 66	IP 55, higher on request
Frame size	63 up to 315	355 up to 560
Type of construction	IM B3, IM B5, IM B35, IM V1 other version on request	IM B3, IM B35, IM V1
Bearings	antifriction bearings	antifriction bearings sleeve bearings (AH > 400 2 pole): ring oil lubrication; 2 non located bearings, coupling necessary
Area of application	zone 1 application optional: zone 21/22 application	zone 1 application
Efficiency class	IE3 and IE4	-
Operating mode	S1 (S9), other operating modes on request	all operating modes possible
Thermal class		F/ used B
Ambient temp.	(-40°C) -20°C ... +40°C (+55°C)	-20°C ... +60°C
Cooling		IC 411 ... 416
Certificates/ Standards/ Recommendations	ATEX product directive 2014/34/EU (IBExU) IECEX (in submission) EAC Ex (in submission) IEC 60079-1:2014, IEC 60079-7:2015, IEC 60079-31:2013 optionally according to VIK 01/2018 („db eb“)	

VEM Sales – Contact partners at a glance



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