

Synchronous servo motors ↔

# IndraDyn S

## MKE for potentially explosive areas



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**IndraDyn S ■ MKE for potentially explosive areas****Documentation**

- Project planning manual

**Ultra-safe**

- Maximum torques up to 187 Nm
- Maximum speeds up to 9,000 rpm
- Encoder systems for a wide and diverse range of applications
- Explosion-proof enclosure in accordance with ATEX and UL/CSA

The MKE range of motors are specifically designed for use in production plants susceptible to explosive mixtures of air and flammable gases, vapors, mist or dust.

Within the broad range of torques up to a maximum of 190 Nm, there is a choice of various motor sizes with pressure-proof enclosures. Needless to say, all are ATEX certified and/or UL/CSA compliant. These motors can also be supplied with a range of options holding brake, keyway and single- or multi-turn encoder systems.

**Internationally recognized certification**

MKE motors have been certified by the German metrology institute providing scientific and technical services, the PTB Braunschweig, in accordance with Directive 94/9/EC ATEX95 (II 2 Gd IIB T4 or II 2D Ex tD A21 IP6x T135°C). MKE motors based on the American standard (UL/CSA) conforming to Class I, Groups C and D as per UL508C, UL674 and UL1446, have been certified directly by Underwriters Laboratories Inc. (UL) in the USA.

**Technical data****Electrical data**

Type	Maximum speed	Standstill torque	Maximum torque	Standstill current	Maximum current	Moment of inertia
	$n_{Max}$	$M_0$	$M_{Max}$	$I_0$	$I_{Max}$	$J$
	[1/min]	[Nm]	[Nm]	[A]	[A]	[kgm <sup>2</sup> ]
MKE037B-144	9,000	0.9	4	3.3	15	0.00003
MKE047B-144	7,000	2.7	11.3	5	22.6	0.00017
MKE098B-047	4,500	12	43.5	9.8	44.3	0.0043
MKE098B-058	5,000			12.4	55.9	
MKE118B-024	4,000	28	102	15.34	69.1	0.0194
MKE118B-058	4,500			28.38	127.63	
MKE118D-012	2,000	48	187	13.01	58.55	0.0362
MKE118D-027	3,000			22.13	99.63	
MKE118D-035				29.81	134.33	

All information is based on the basic version of the motor with encoder S1, without holding brake.  
Values at 750 V intermediate circuit voltage

**Dimensions**

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Type	A	B	C	Ø D	Ø E	Ø F	Ø G	H	Weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
MKE037B-144	60	283	20	9	40	70	4.5	123	2.5
MKE047B-144	88	287	30	14	50	100	6.6	146	5.5
MKE098B-047	144	383	50	24	110	165	11	202	18
MKE098B-058									18
MKE118B-024	194	492	60	32	130	215	14	205	45
MKE118B-058									45
MKE118D-012		664							65
MKE118D-027									65
MKE118D-035									65

All information is based on the basic version of the motor with encoder S1, without holding brake.

**Bosch Rexroth AG**

Postfach 13 57  
97803 Lohr, Germany  
Bgm.-Dr.-Nebel-Str. 2  
97816 Lohr, Germany  
Tel. +49 9352 18-0  
Fax +49 9352 18-8400  
[www.boschrexroth.com/electrics](http://www.boschrexroth.com/electrics)

**Local contact information can be found at:**

[www.boschrexroth.com/adressen](http://www.boschrexroth.com/adressen)

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It must be remembered that our products are subject to a natural process of wear and aging.