



Manufacturer

Customer

**VEM motors Thurm GmbH**  
**Äußere Dresdner Str. 35**

**08066 ZWICKAU**  
**Deutschland**

**Three-phase motors with squirrel cage rotor, standard motors**  
**Housing grey cast iron**

Type	IE1-B21R 90 L4		
Design output	( kW )	1,5	
Design torque	( Nm )	10,2	
Class IE	[ - ]	IE1-78,6%	
Efficiency determination		EN 60034-2-1	
Duty type		S1	
Design frequency	( Hz )	50	
Design speed	[rpm]	1400	
Voltage	( V )	230/400	
Connection	[ - ]	D	Y
Current	[ A ]	5.91	3.40
Relative pull-in current	[ - ]	5,5	
Relative starting torque	[ - ]	2,5	
Relative pull-up torque	[ - ]	2,4	
Relative pull-out torque	[ - ]	2,6	
Efficiency100/75/50 %	[ % ]		78,6 / 79,1 / 76,9
Power factor	[ - ]	0,81	
Th. cl.		155(F)	
Coolant temperature	( °C )	-20°C...+40°C	
Altitude above sea level	( m )	1000m	
Degree of protection IP		IP55	
Moment of inertia	( kgm <sup>2</sup> )	0,0003	
Motor weight	( kg )	26,2	
Bearing, D-side		6205 2Z C3	
Bearing, N-side		6205 2Z C3	
Relubrication interval	( h )		
Grease type		Asonic GLY 32	
Grease amount	( g )		
A-sound pressure level	( dB )	49	
Brake type		BZFM 2,5	
Brake torque	( Nm )	27	
Relative brake torque	[ - ]	6,8	

**Options**

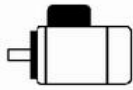
Type of mounting	IM B14K
Flange	FT 115[C 140]
Terminal box	Standard
Position of terminal box	on the top
Cable gland	Sealing plug
Position of cable entry	right
Shaft	Standard, 1 shaft end
Bearing	Easy bearing arrangement
Limit values to vibration velocity	Class A
	Balancing with half key
Colour system	01 Moderate (KK C2),RAL 7031 blue-grey
Brake type	Stromag
Delivery conditions and/or official regulations:	IEC / EN 60034-1

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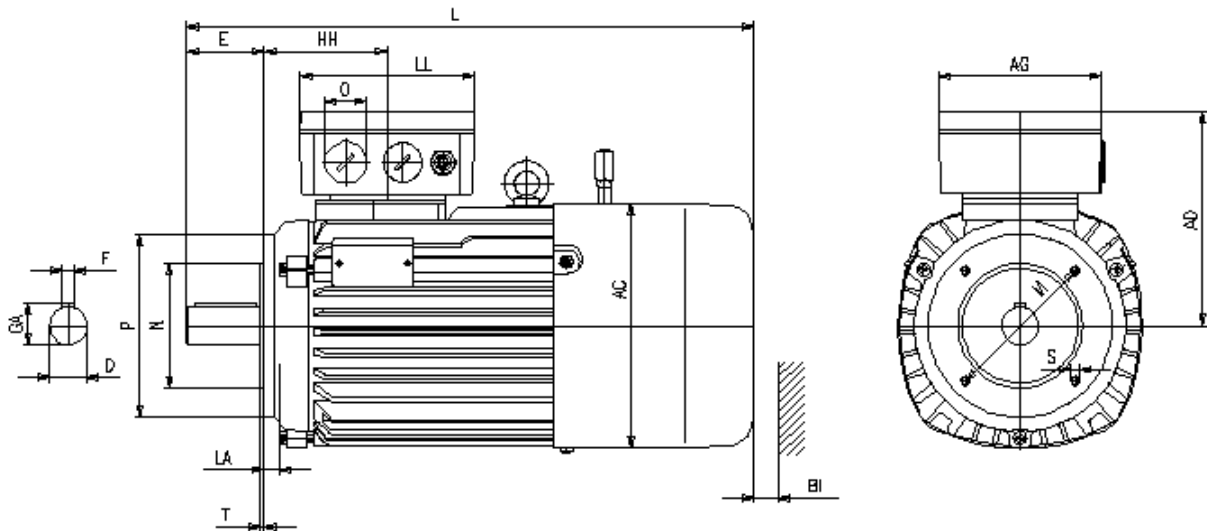
## IE1-B21R 90 L4

### Mounting position



Type of mounting: IM B14K  
Flange: FT 115[C 140]  
Position of terminal box: on the top  
Brake type: BZFM 2,5  
Forced-ventilation:

Terminal box: KA 05  
Cable gland O: 1 xSealing plug



### Motor

A	AA	AB	AC	AD	B	B'	BA	BA'	BB	C	CA	K	K'
-	-	-	157	-	-	-	-	-	-	-	-	-	-
L	LC	H	HA	HD	HH	BI	<b>Terminal box</b>						
365	-	90	-	-	70	16	AG	LL	BE	AH			
							92	92	-	-			

### Flange

P	N	LA	M	T	S	<b>Tolerances</b>						
140	95	10	115	3	M8	H	N	D	DA			
						-0,5	j6	k6	k6			

### Shaft-DS

D	E	GA	F	DB	<b>Shaft-NS</b>			
24	50	27	8	DIN 332 - DS M8	DA	EA	GC	FA
					-	-	-	-

### DB...Centre hole

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