



Manufacturer

Customer

VEM motors Thurm GmbH
Äußere Dresdener Str. 35

08066 ZWICKAU
Deutschland

Three-phase motors with squirrel cage rotor, standard motors

Housing grey cast iron

Type	IE2-BE1R 90 LW4		
Design output	(kW)	1,5	
Design torque	(Nm)	9,95	
Class IE	(-)	IE2-82,8%	
Efficiency determination		EN 60034-2-1	
Duty type		S1	
Design frequency	(Hz)	50	
Design speed	[rpm]	1440	
Voltage	(V)	230/400	
Connection	(-)	D	Y
Current	(A)	5.9	3.4
Relative pull-in current	(-)	6,5	
Relative starting torque	(-)	2,7	
Relative pull-out torque	(-)	3,6	
Efficiency 100/75/50 %	(%)	82,8 / 83,8 / 81,4	
Power factor	(-)	0,76	
Th. cl.		155(F/B)	
Coolant temperature	(°C)	40°C	
Altitude above sea level	(m)	1000m	
Degree of protection IP		IP55	
Moment of inertia	(kgm ²)	0,0043	
Motor weight	(kg)	29,2	
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)	a.A.	
Brake type		BZFM 2,5	
Brake torque	(Nm)	27	
Relative brake torque	(-)	2,7	

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
Bearing	Easy bearing arrangement
Special details to bearings	none
Bearing monitoring	none
Anti-condensation heating	none
Limit values to vibration velocity	Class A
Colour system	Balancing with half key 01 Moderate (KK C2),RAL 7031 blue-grey,60 µm

Delivery conditions and/or official regulations: IEC / EN 60034-1

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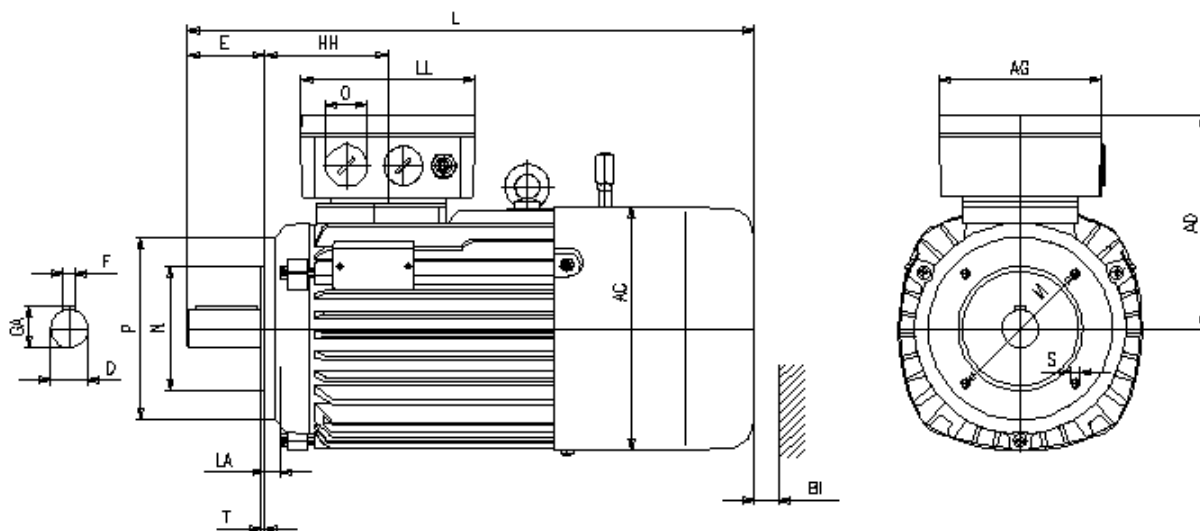
IE2-BE1R 90 LW4

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'
-	-	-	177	a.A.	-	-	-	-	-	-	-	-	-

Terminal box

L	LC	H	HA	HD	HH	BI	AG	LL	BE	AH
a.A.	-	90	-	-	75	18	92	92	-	-

Flange

P	N	LA	M	T	S
140	95	10	115	3	M8

Tolerances

H	N	D	DA
-0,5	j6	k6	k6

Shaft-DS

D	E	GA	F	DB
24	50	27	8	DIN 332 DS - M8

Shaft-NS

DA	EA	GC	FA
-	-	-	-

DB...Centre hole

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