



Manufacturer

Customer

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

**08066 ZWICKAU**  
**Deutschland**

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

Type	IE3-W42R 90 S2		
Design output	( kW )	1,5	
Design torque	( Nm )	4,94	
Class IE	( - )	IE3-84,2%	
Efficiency determination		EN 60034-2-1	
Duty type		S1	
Design frequency	( Hz )	50	
Design speed	[rpm]	2900	
Voltage	( V )	230/400	
Connection	( - )	D	Y
Current	( A )	5.4	3.1
Relative pull-in current	( - )	7,9	
Relative starting torque	( - )	3,5	
Relative pull-out torque	( - )	4,4	
Efficiency100/75/50 %	( % )	84,2 / 85,4 / 83,2	
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> )	0,0017	
Motor weight	( kg )	19	
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.	

**Options**

Type of mounting	IM B3
Flange	-
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
Colour system	Balancing with half key 01 Moderate (KK C2),RAL 7031 blue-grey

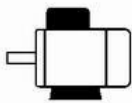
Delivery conditions and/or official regulations: IEC / EN 60034-1

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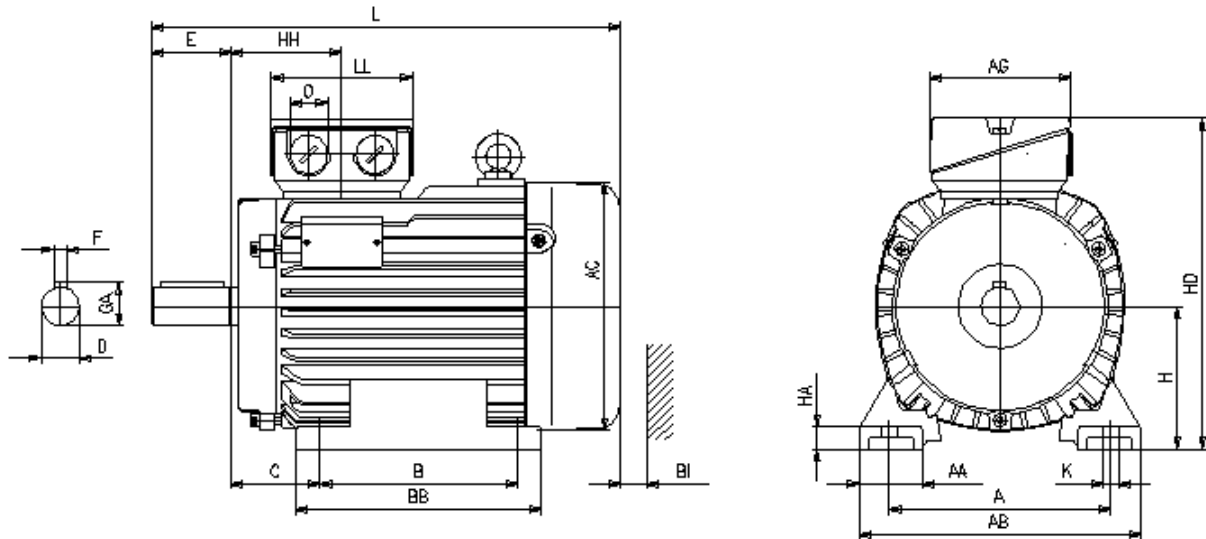
## IE3-W42R 90 S2

### Mounting position



Type of mounting: IM B3  
Flange -  
Position of terminal box: on the top  
Brake type:  
Forced-ventilation:

Terminal box: KA 05  
Cable gland O: 1 x Sealing plug



### Motor

A	AA	AB	AC	AD	B	B'	BA	BA'	BB	C	CA	K	K'
140	40	178	157	-	100	-	-	-	130	56	-	10	10
L	LC	H	HA	HD	HH	BI			<b>Terminal box</b>				
297	-	90	14	210	70	16				AG	LL	BE	AH
										92	92	-	-

### Flange

P	N	LA	M	T	S
-	-	-	-	-	-

### 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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