



Manufacturer

Customer

**VEM motors GmbH - Werk Zwickau**  
**Äußere Dresdner Str. 35**

**08066 ZWICKAU**  
**Deutschland**

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

Type		IE3-W41R 90 SY4	
Design output	( kW )	1,1	
Design torque	( Nm )	7,2	
Class IE	[ - ]	IE3-84,1%	
Efficiency determination		EN 60034-2-1	
Duty type		S1	
Design frequency	( Hz )	50	
Design speed	[rpm]	1450	
Voltage	( V )	230/400	
Connection	[ - ]	D	Y
Current	[ A ]	4.35	2.50
Relative pull-in current	[ - ]	7	
Relative starting torque	[ - ]	3,1	
Relative pull-up torque	[ - ]	2,9	
Relative pull-out torque	[ - ]	3,9	
Efficiency100/75/50 %	[ % ]	84,1 / 84,9 / 82,5	
Power factor	[ - ]	0,75	
Th. cl.		155(F/B)	
Coolant temperature	( °C )	-20...+40	
Altitude above sea level	( m )	1000	
Degree of protection IP		IP55	
Moment of inertia	( kgm <sup>2</sup> )	0,004	
Motor weight	( kg )	22,5	
Bearing, D-side		6205 2Z C3	
Bearing, N-side		6205 2Z C3	
Grease type		Asonic GLY 32	
A-sound pressure level	( dB )	a.A.	

## Options

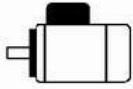
Type of mounting	IM B14
Flange	FT 115[C 140]
Terminal box	Standard
Position of terminal box	on the top
Cable gland	Sealing plug
Position of cable entry	right
Shaft	Standard, 1 shaft end
Bearing	Easy bearing arrangement
Limit values to vibration velocity	Class A
	Balancing with half key
Colour system	01 Moderate (KK C2),RAL 7031 blue-grey
Delivery conditions and/or official regulations:	IEC / EN 60034-1

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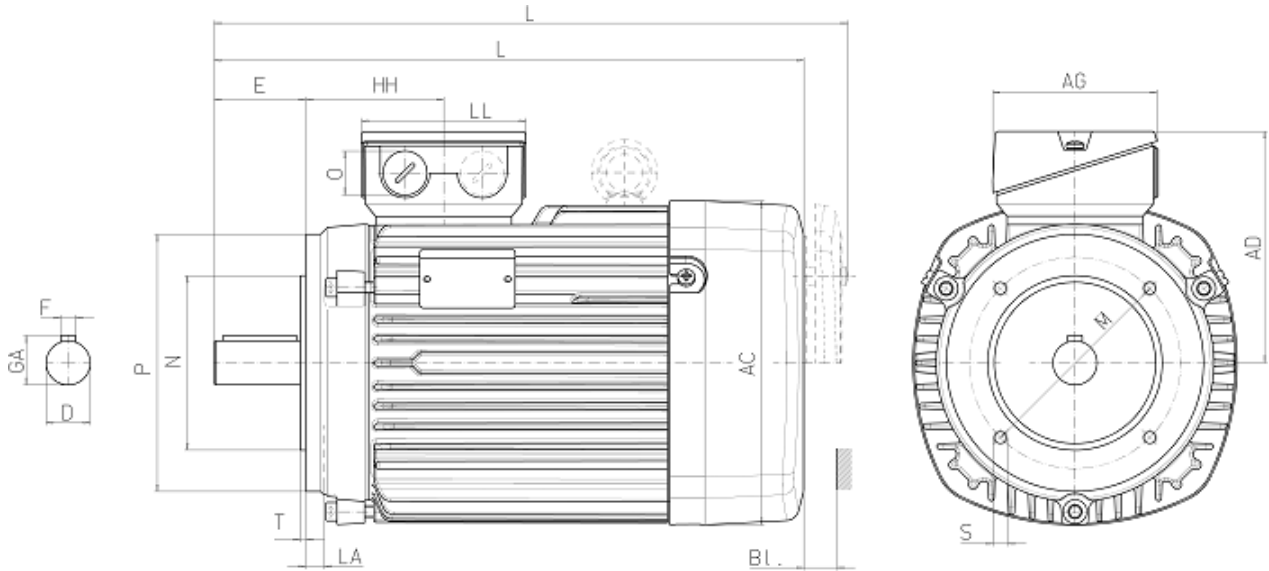
## IE3-W41R 90 SY4

### Mounting position



Type of mounting: IM B14  
Flange: FT 115[C 140]  
Position of terminal box: on the top  
Brake type:  
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	127	-	-	-	-	-	-	-	-	-
Protection cover											Terminal box		
L	LC	H	HA	HD	HH	BI		L		AG	LL	BE	AH
321	-	90	-	-	75	18		-		92	92	-	-

### Flange

P	N	LA	M	T	S	Tolerances		H	N	D	DA
140	95	10	115	3	M8			-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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