



Manufacturer

VEM motors GmbH - Werk Zwickau
Äußere Dresdner Str. 35

Customer

akkerstraat 10

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]	5.43	3.12
Relative pull-in current	[-]	7,9	
Relative starting torque	[-]	3,5	
Relative pull-up 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/B)	
Coolant temperature	(°C)	-20...+40	
Altitude above sea level	(m)	1000	
Degree of protection IP		IP55	
Moment of inertia	(kgm ²)	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	[cm ³]		
A-sound pressure level	(dB)	a.A.	

Options

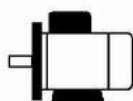
Type of mounting	IM B35
Flange	FF 165[A 200]
Terminal box	Standard
Position of terminal box	on the top
Cable gland	Sealing plug
Position of cable entry	right
Shaft	Standard, 1 shaft end
Bearing	Easy bearing arrangement
Limit values to vibration velocity	Class A
	Balancing with half key
Colour system	01 Moderate (KK C2),RAL 7031 blue-grey
Delivery conditions and/or official regulations:	IEC / EN 60034-1

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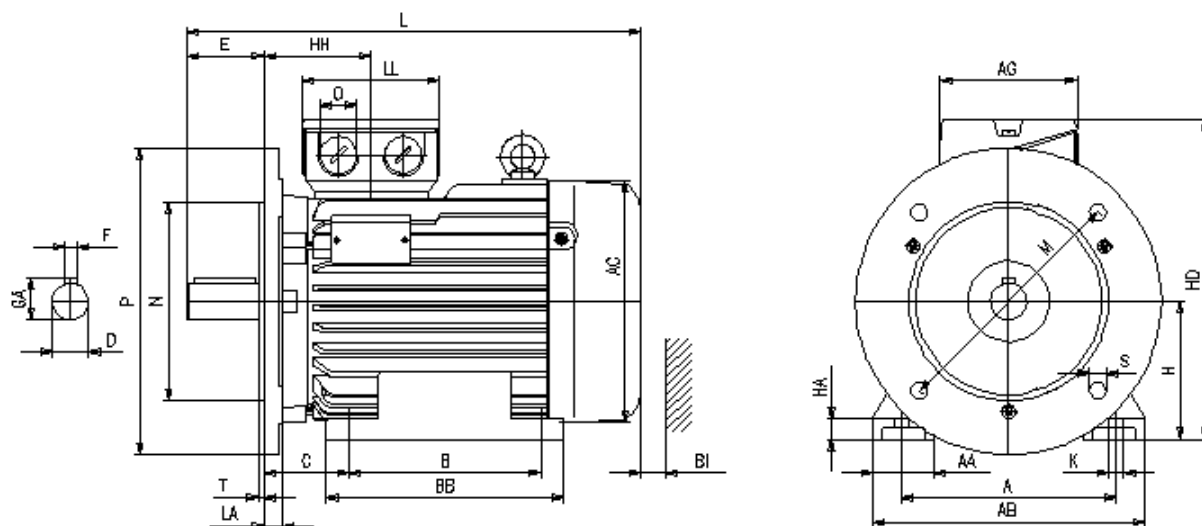
IE3-W42R 90 S2

Mounting position



Type of mounting: IM B35
Flange: FF 165[A 200]
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'
140	40	178	157	-	100	-	-	-	130	56	-	10	10
L	LC	H	HA	HD	HH	BI	Protection cover			AG	LL	Terminal box	
297	-	90	14	210	70	16	L	-	-	92	92	BE	AH
							-					-	-

Flange

P	N	LA	M	T	S
200	130	10	165	3,5	11

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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