

Manufacturer

Customer

**VEM motors GmbH - Werk Wernigerode**  
**Carl-Friedrich-Gauß-Straße 1**

**38855 WERNIGERODE**  
**Deutschland**

**Three-phase motors with squirrel cage rotor, inverter feeding**  
**inverter output voltage up to 420 V**

Type	IE3-W42R 355 L6 PT NS LL IL HW	
Mains supply		
Duty type	S1	
Design output	( kW )	315
Design torque	( Nm )	3023
Design current	[ A ]	565.0
Class IE	[ - ]	IE3-95,8%
Efficiency determination	[ - ]	EN 60034-2-1
Design frequency	( Hz )	50
Design speed	[ rpm ]	995
Design voltage	( V )	400
Connection	[ - ]	D
Power factor	[ - ]	0,84
Efficiency100/75/50 %	[ % ]	95,8 / 96 / 95,7
Th. cl.		155(F)

inverter output voltage up to 420 V acc. to IEC/TS 60034-17:2006 (Bild 7)

$\dot{u} < 1,35kV / du/dt < 1,5kV/\mu s$

Inverter input 50 Hz

Duty type	S9	
Design output	( kW )	315
Design torque	( Nm )	3023
Design current	[ A ]	565.0
Max. torque (50Hz)	( Nm )	4655
Max. current	[ A ]	957.0
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> )	14
Motor weight	( kg )	2450
Bearing, D-side	6324 C3	
Bearing, N-side	6317 MC3 VL0241	
Relubrication interval	( h )	4000
Grease type	ASONIC GHY 72	
Grease amount	[ cm <sup>3</sup> ]	90/57
A-sound pressure level	( dB )	72

**Options**

Type of mounting	IM V1 Protection cover
Flange	FF 740[A 800]
Terminal box	Standard
Position of terminal box	at an angle / right
Cable gland	Sealing plug
Position of cable entry	right
Shaft	Standard, 1 shaftend
Bearing	Relubrication device, easybearing arrangement
Special details to bearings	Fixed bearing, N-side Insulated bearing, N-side
Winding protection	3xPt 100 (4 wires connection)
Limit values to vibration velocity	Class A
Colour system	Balancing with halfkey 01 Moderate (KK C2),RAL 7031 blue-grey
Delivery conditions and/or official regulations:	IEC / EN 60034-1

This document was produced electronically, all specifications are valid only after confirmation of the manufacturer

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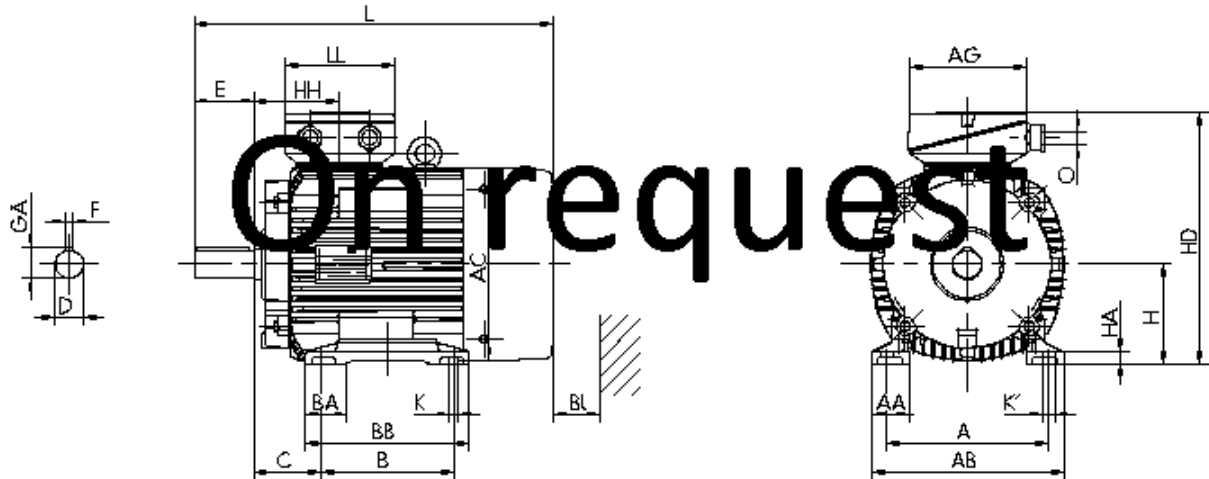
## IE3-W42R 355 L6 PT NS LL IL HW

### Mounting position



Type of mounting: IM V1 Protection cover  
 Flange: FF 740[A 800]  
 Position of terminal box: at an angle / right  
 Brake type:  
 Forced-ventilation:

Terminal box: KK 1000 A  
 Cable gland O: 1 xSealing plug



### Motor

A	AA	AB	AC	AD	B	B'	BA	BA'	BB	C	CA	K	K'
-	-	-	715	759	-	-	-	-	-	-	-	-	-
L	LC	H	HA	HD	HH	BI	Protection cover			LL	Terminal box		
-	-	355	-	-	327	110	L	AG	LL	BE	AH		
							1890	615	474	200	385		

### Flange

P	N	LA	M	T	S	Tolerances			
800	680	25	740	6	22	H	N	D	DA
						-1	h6	m6	m6

### Shaft-DS

D	E	GA	F	DB
100	210	106	28	DIN 332 DS- M24

### Shaft-NS

DA	EA	GC	FA
-	-	-	-

### DB...Centre hole

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