



Manufacturer

Customer

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

38855 WERNIGERODE
Deutschland

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

Type	IE3-B41R 160 L4 SMG HW		
Design output	(kW)	15	
Design torque	(Nm)	97	
Class IE	[-]	IE3-92,2%	
Efficiency determination		EN 60034-2-1	
Duty type		S1	
Design frequency	(Hz)	50	
Design speed	[rpm]	1475	
Voltage	(V)	400/690	
Connection	[-]	D	Y
Current	[A]	27.5	15.9
Relative pull-in current	[-]	8,7	
Relative starting torque	[-]	3,1	
Relative pull-up torque	[-]	2,6	
Relative pull-out torque	[-]	3,5	
Efficiency100/75/50 %	[%]		92,2 / 92,4 / 91,6
Power factor	[-]	0,85	
Th. cl.		155(F/B)	
Coolant temperature	(°C)	-20°C...+40°C	
Altitude above sea level	(m)	1000m	
Degree of protection IP		IP55	
Moment of inertia	(kgm ²)	0,1195	
Motor weight	(kg)	187	
Bearing, D-side		6310 ZZ C3	
Bearing, N-side		6309 ZZ C3	
Relubrication interval	(h)		
Grease type		ASONIC GHY 72	
Grease amount	[cm ³]		
A-sound pressure level	(dB)	61	
Brake type		BZFM V7 16	
Brake torque	(Nm)	200	
Relative brake torque	[-]	2,1	

Options

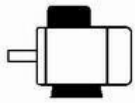
Type of mounting	IM B3
Flange	-
Terminal box	Standard
Position of terminal box	on the top
Cable gland	Sealing plug
Position of cable entry	right
Shaft	Standard, 1 shaft end
Bearing	Easy bearing arrangement
Special details to bearings	Fixed bearing, N-side
Limit values to vibration velocity	Class A
	Balancing with half key
Colour system	01 Moderate (KK C2),RAL 7031 blue-grey
Brake type	Stromag
	Rectifier for brake
Delivery conditions and/or official regulations:	IEC / EN 60034-1
	UL approval for "Recognized Components" (Version for Canada and USA)

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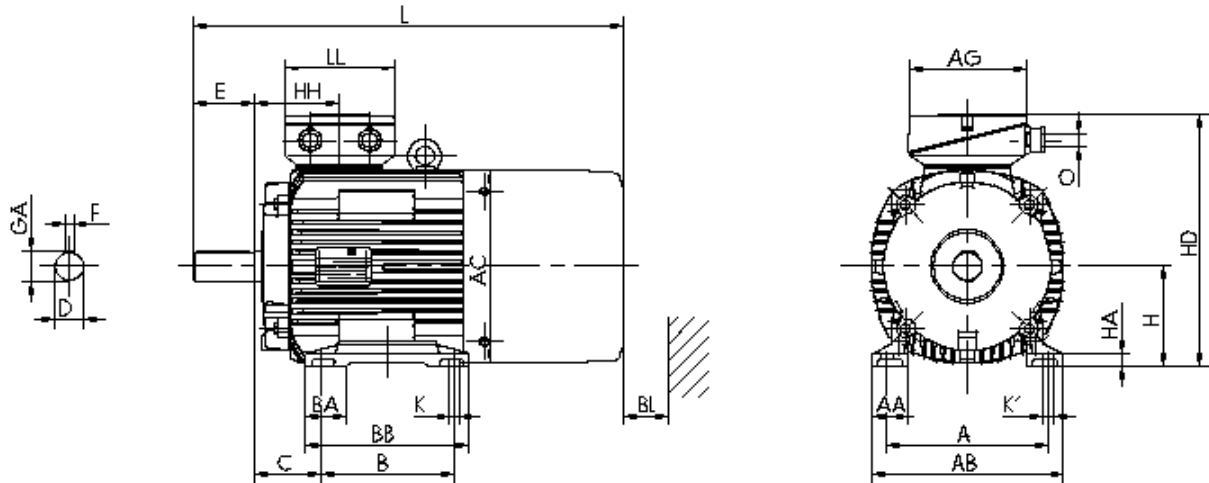
IE3-B41R 160 L4 SMG HW

Mounting position



Type of mounting: IM B3
Flange: -
Position of terminal box: on the top
Brake type: BZFM V7 16
Forced-ventilation:

Terminal box: KK 63 A
Cable gland O: 1 xSealing plug



Motor

A	AA	AB	AC	AD	B	B'	BA	BA'	BB	C	CA	K	K'		
254	55	296	313	-	254		60	-	301	108	-	15	20		
												Protection cover		Terminal box	
L	LC	H	HA	HD	HH	BI	L	AG	LL	BE	AH				
787	-	160	18	402	138	40		193	167	-	-				

Flange

P	N	LA	M	T	S	Tolerances							
-	-	-	-	-	-	H	N	D	DA				
						-0,5	h6	k6	k6				

Shaft-DS

D	E	GA	F	DB
42	110	45	12	DIN 332 DS- M16

Shaft-NS

DA	EA	GC	FA
-	-	-	-

DB...Centre hole

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