



Data sheet

30.01.2009

MADE WITH VERSION: 6.02

Manufacturer

Customer

VEM motors GmbH
Carl-Friedrich-Gauß-Straße 1
D-38855 Wernigerode

Three-phase motors with slipring rotor, low voltage version
mode of operation S3, intermittent duty

Type	SPH 180 L6 HW			
Design output	(kW)	26	23	19
Duty type	S3-25/40/60/100% ED			16
Number of poles	(-)	6		
Design frequency	(Hz)	50		
Design speed	[rpm]	960	970	975
Max. speed	[rpm]	2200		980
stator voltage	(V)	400		
Stator connection	(-)	Y		
Stator design current	(A)	52.5	47.5	41.5
Power factor	(-)	0,83	0,81	0,77
Efficiency	(%)	86	86	85
Relative pull-out torque	(-)	2,8	3,2	3,9
Rotor voltage	(V)	250		
Rotor connection	(-)	Y		
Rotor current	(A)	64	57	47
Rotor resistance	[Ω]	0,0527		40
Th. cl.		155(F/B)		
Coolant temperature	(°C)	40°C		
Altitude above sea level	(m)	1000m		
Degree of protection		IP54		
Moment of inertia	(kgm ²)	0,358		
Motor weight	(kg)	255		
Bearing, D-side		6312 C3		
Bearing, N-side		6310 C3		
Relubrication interval	(h)			
Grease type				
Grease amount	(g)			
Brush holder				
Carbon brush				
Slip-ring body				
Special details to bearings 1		none		
Special details to bearings 2		Fixed bearing, N-side		
Bearing monitoring		none		
Winding protection		none		
Winding protection 2		none		
Anti-condensation heating		none		
Special versions 1		none		
Special versions 2		none		
Special versions 3		none		
Special versions 4		none		
Limit values to vibration velocity		Class A		
Balancing with half key				
Colour system		World wide		
Colour shade		RAL 7031 blue-grey		
Layer thickness		70 µm		

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

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

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Commerzbank AG
Dresden
BLZ 850 400 00
Kto.-Nr. 800 15 88

Dresdner Bank AG
Wernigerode
BLZ 800 800 00
Kto.-Nr. 350 50 30 00

Deutsche Bank AG
Wernigerode
BLZ 810 700 00
Kto.-Nr. 250 04 03



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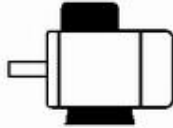
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Three-phase motors with slipping rotor, low voltage version
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SPH 180 L6 HW

Mounting position



Type of mounting: IM B3

Flange: -

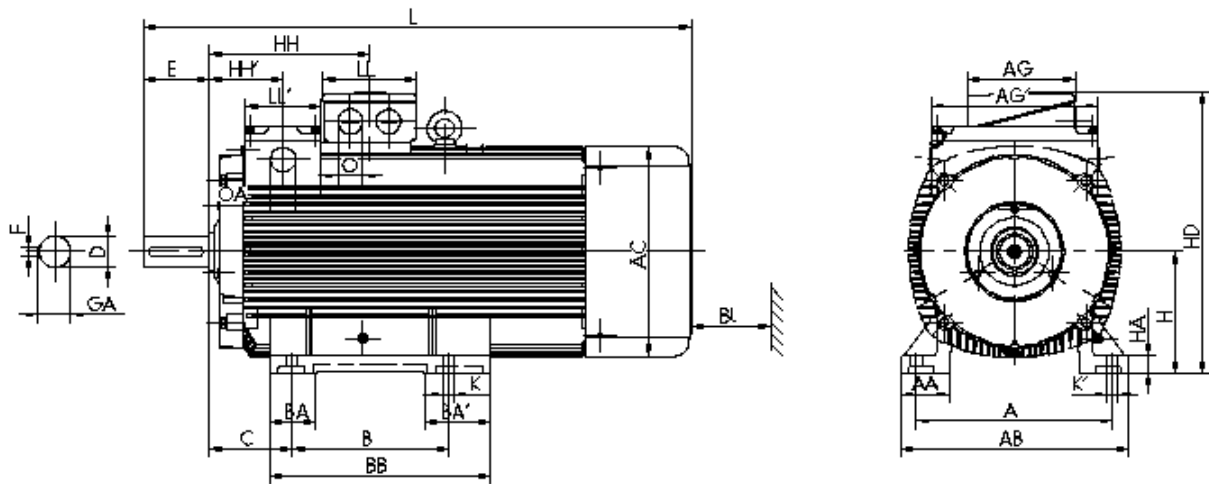
Position of terminal box: on the top

Terminal box: KK 63 A

Cable gland O: 1 xSealing plug

Cable gland OA: M40x1,5

connection cable: max. Ø 28 mm



Motor

A	AA	AB	AC	AD	B	B'	BA	BA'	BB	C	CA	K	K'
279	62	328	351	-	279	-	65	65	326	121	-	15	15

Terminal box

L	LC	H	HA	HD	HH	BI	AG	LL	BE	AH
875	-	180	20	441	301	35	193	167	-	-

Flange

P	N	LA	M	T	S	H	N	D	DA
-	-	-	-	-	-	-0,5	h6	m6	k6

Tolerances

Shaft-DS

D	E	GA	F	DB
55	110	59	16	DIN 332-DS M16-

Shaft-NS

DA	EA	GC	FA
-	-	-	-

DB...Centre hole

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