



Manufacturer	Customer
VEM motors GmbH - Werk Wernigerode	akkerstraat 10
Carl-Friedrich-Gauß-Straße 1	

38855 WERNIGERODE
Deutschland

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

Type	IE3-W43R 160 L6 TPM NS LL HW
Design output	(kW) 11
Design torque	(Nm) 108
Class IE	[-] IE3-90,3%
Efficiency determination	EN 60034-2-1
Duty type	S1
Design frequency	(Hz) 50
Design speed	[rpm] 975
Voltage	(V) 400/690
Connection	[-] D/Y
Current	[A] 20.5/11.9
Relative pull-in current	[-] 5,7
Relative starting torque	[-] 2,3
Relative pull-up torque	[-] 1,8
Relative pull-out torque	[-] 2,7
Efficiency 100/75/50 %	[%] 90,3 / 90,5 / 89,4
Power factor	[-] 0,86
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) 0,145
Motor weight	(kg) 136
Bearing, D-side	6310 C3
Bearing, N-side	6309 C3
Relubrication interval	(h) 4000
Grease type	ASONIC GHY 72
Grease amount	[cm ³] 23/20
A-sound pressure level	(dB) 59

Impulse voltage insulation class IVIC acc. to IEC 60034-18-41	C (strong)/A (small)
U _{pk/pk} Ph-Ph (phase-phase)	(V) 2380
U _{pk/pk} Ph-Earth (phase-earth)	(V) 1680
t _r pulse rise time	[µs] > 0,3

Options

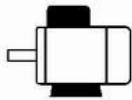
Type of mounting	IM B3
Flange	-
Terminal box	Standard
Position of terminal box	on the top
Cable gland	Sealing plug
Position of cable entry	right
Shaft	Standard, 1 shaftend
Bearing	Relubrication device, easy bearing arrangement
Special details to bearings	Fixed bearing, N-side
Winding protection	1 set ptc resistors
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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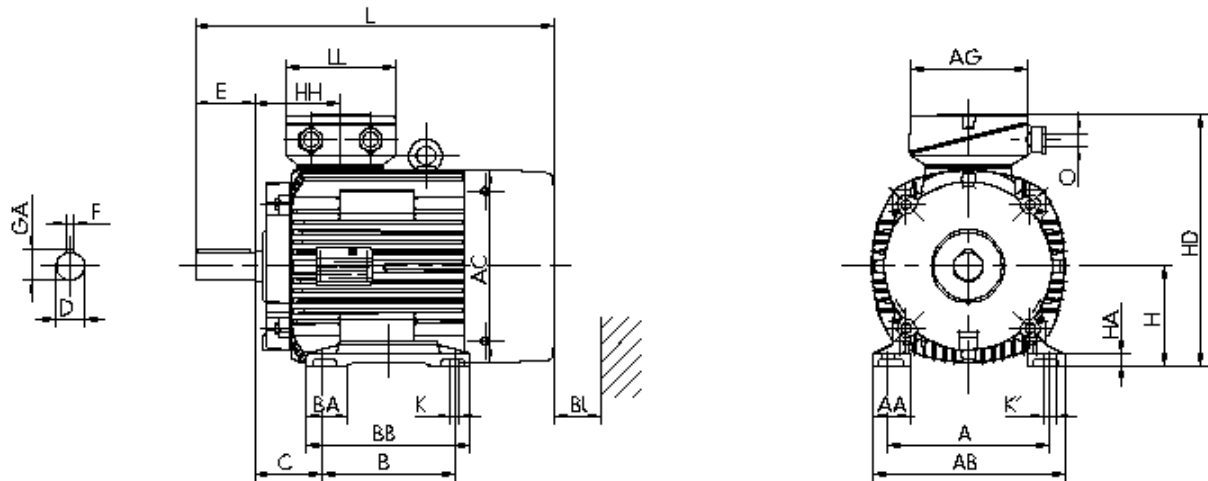
IE3-W43R 160 L6 TPM NS LL HW

Mounting position



Type of mounting: IM B3
Flange: -
Position of terminal box: on the top
Brake type:
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				
609	-	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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