



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-W43R 160 M4 TPM PT HB HW		
Design output	(kW)	11	12,5
Design torque	(Nm)	72	67
Voltage	(V)	400/690	460
Connection	[-]	D	Y D
Design frequency	(Hz)	50	60
Class IE	[-]	IE3-91,4%	IE3-92,4%
Efficiency100/75/50 %	[%]	91,4 / 91,9 / 91,5	92,4 / 92,6 / 92,1
Efficiency determination	EN 60034-2-1		
Power factor	[-]	0,82	0,83
Duty type		S1	
Design speed	[rpm]	1465	1765
Current	[A]	21.0	12.2 20,5
Relative pull-in current	[-]	7	6,9
Relative starting torque	[-]	2,3	2,2
Relative pull-up torque	[-]	1,8	1,8
Relative pull-out torque	[-]	3,4	3,3
Th. cl.		155(F/B)	
Coolant temperature	(°C)	-20°C...+40°C	
Altitude above sea level	(m)	1000m	
Degree of protection IP		IP56	
Moment of inertia	(kgm ²)	0,043	
Motor weight	(kg)	105	
Bearing, D-side		6309 ZZ C3	
Bearing, N-side		6308 ZZ C3	
Relubrication interval	(h)		
Grease type		ASONIC GHY 72	
Grease amount	[cm ³]		
A-sound pressure level	(dB)	57	

Options

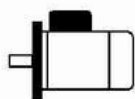
Type of mounting	IMB5
Flange	FF 300[A 350]
Terminal box	Standard
Position of terminal box	on the top
Cable gland	Sealing plug
Position of cable entry	right
Shaft	Standard, 1 shaft end
Bearing	Easy bearing arrangement
Special details to bearings	Fixed bearing, N-side
Winding protection	1 set ptc resistors
Winding protection	Pt 100 (2 wires connection)
Anti-condensation heating	230V
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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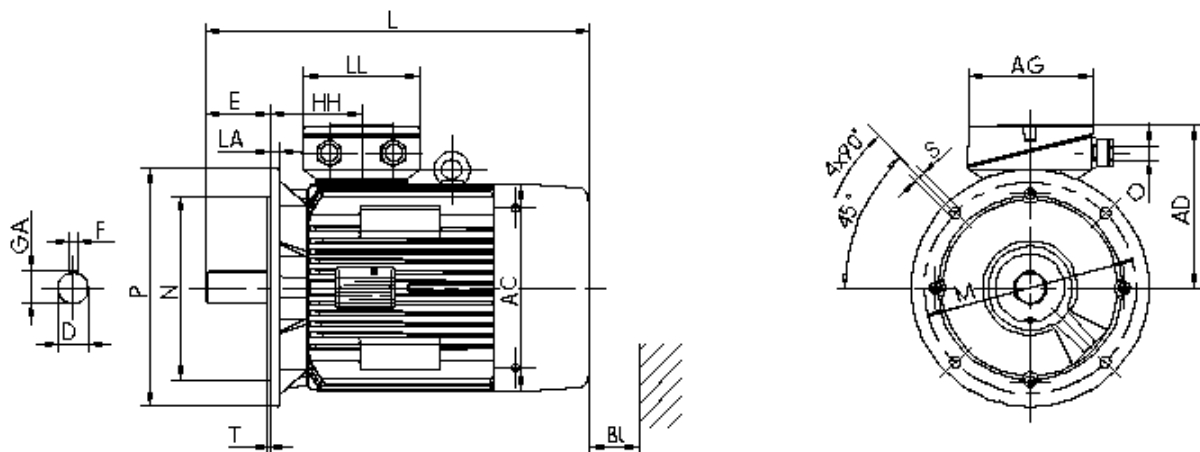
IE3-W43R 160 M4 TPM PT HB HW

Mounting position



Type of mounting: IMB5
Flange: FF 300[A 350]
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'
-	-	-	258	214	-	-	-	-	-	-	-	-	-
Protection cover												Terminal box	
L	LC	H	HA	HD	HH	BI				AG	LL	BE	AH
609	-	160	-	-	114	40				193	167	-	-

Flange

P	N	LA	M	T	S	Tolerances	
350	250	13	300	5	18	H	N
						-0,5	h6
							D
							k6
							DA
							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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