



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 180 M4	TPM HW	
Design output	(kW)	18,5	
Design torque	(Nm)	120	
Class IE	[-]	IE3-92,6%	
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]	34.5	20.0
Relative pull-in current	[-]	7,8	
Relative starting torque	[-]	2,9	
Relative pull-up torque	[-]	2,3	
Relative pull-out torque	[-]	3,3	
Efficiency100/75/50 %	[%]	92,6 / 92,7 / 91,9	
Power factor	[-]	0,84	
Th. cl.	155(F/B)		
Coolant temperature	(°C)	-20°C...+40°C	
Altitude above sea level	(m)	1000m	
Degree of protection IP	IP65		
Moment of inertia	(kgm ²)	0,115	
Motor weight	(kg)	160	
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)	62	

Options

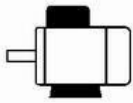
Type of mounting	IM B3
Flange	-
Terminal box	Standard
Position of terminal box	on the top
Cable gland	Sealing plug
Position of cable entry	right
Shaft	Standard, 1 shaft end
Bearing	Easy bearing arrangement
Special details to bearings	Fixed bearing, N-side
Winding protection	1 set ptc resistors
Limit values to vibration velocity	Class A
Colour system	Balancing with half key
Delivery conditions and/or official regulations:	01 Moderate (KK C2),RAL 7031 blue-grey IEC / EN 60034-1

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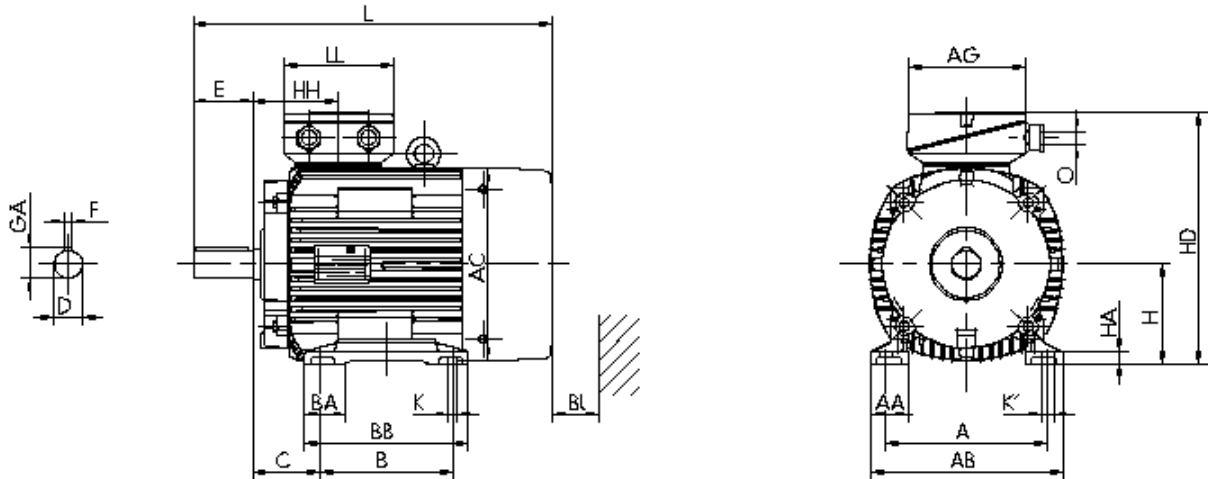
IE3-W43R 180 M4 TPM HW

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'		
279	62	328	313	-	241		65	-	288	121	-	15	20		
												Protection cover		Terminal box	
L	LC	H	HA	HD	HH	BI	L	AG	LL	BE	AH				
659	-	180	20	422	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
48	110	51,5	14	DIN 332 DS- M16

Shaft-NS

DA	EA	GC	FA
-	-	-	-

DB...Centre hole

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

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