

Type code

3-digit DC axial fan e.g. 412 FM

Housing dimensions (W x H x D)		
Value	Edge dim. (W x H)	Installation depth (D)
2	25 x 25 mm	8 mm
4	40 x 40 mm	10 / 20 / 25 / 28 mm
5	50 x 50 mm	15 mm
6	60 x 60 mm	15 / 25 / 32 mm
7	70 x 70 mm	15 mm

Operating voltage	
Value	Nominal voltage
2	12 V
4	24 V
5	5 V
8	48 V

Motor and housing version	
Value	Version
1	4xx fan, 10 / 20 / 25 / 28 mm (D)
1	6xx fan, 15 / 25 / 32 mm (D)
2	25 / 28 mm (D)
3	63x fan, 25 mm (D)
5	2xx fan, 8 mm (D)

Options (various versions possible)

A	Analog speed control input (input voltage: 0...5 / 0...10 V DC)
D	Reinforced flange corners with through-holes (series 44xx F) Constant speed control regardless of operating voltage
E	Economy fan with round flange
F	Flat construction / frequency-modulated signal
G	Sleeve bearing
H	High speed
HH	Further increased speed
H3-H8	Additional further increased speeds (H8 - maximum fan speed)
I	Integrated temperature sensor (NTC behavior, i.e. thermistor)
J	Jet characteristic / rigid curve
L	Low speed
M	Medium speed
ML	Between low and medium speed
N	Standard or basic speed (only DC fans)
O	Multi-option speed control input (analog or PWM signal)
P	PWM speed control input (pulse-width modulated signal)
R	Moisture protection coating
S	Circuit board and winding (IP 20), optional stainless steel ball bearing
T	Speed signal (additional wires for hall signal, obsolete technology)
TD	External temperature sensor (NTC behavior, i.e. thermistor)
U	Turbo drive (extremely powerful 3-phase motor)
V / VP	Environmentally friendly fan (min. IP 54)
W	VARIOFAN
X	Additional wires (standard length 310 mm)
-xxx	Mounting bore hole 3.7 mm
-xxx	Variant number

4-digit DC axial fan, e.g. 4312 GM

Housing dimensions (W x H x D)		
Value	Edge dimensions (W x H)	Installation depth (D)
2	Ø 220 x 200 mm	51 mm
3	92 x 92 mm	25 / 32 / 38 mm
4	119 x 119 mm	25 / 32 / 38 mm
5	127 x 127 mm	38 mm
5	135 x 135 mm	38 mm
5	140 x 140 mm	51 mm
6	Ø 172 mm	51 mm
6	Ø 172 x 150 / 160 mm	51 mm
7	Ø 150 mm	38 / 55 mm
8	80 x 80 mm	25 / 32 / 38 mm

Connection type and direction of rotation

Value	Connection type	Direction of rotation
1	Wires, length = 310 mm	
5	Wires, length = 310 mm	
6	Plug, 2.8 x 0.8 mm	Counterclockwise (CCW)
7	Plug, 2.8 x 0.8 mm	Clockwise (CW)
8	Plug, 2.8 x 0.5 mm	Counterclockwise (CCW)
9	Plug, 2.8 x 0.5 mm	Clockwise (CW)

Motor and housing version	
Value	Version
1	38 mm (D)
2	38 mm (D)
3	32 mm (D)
4	25 / 38 / 51 mm (D)

Operating voltage	
Value	Nominal voltage
2	12 V
4	24 V
6	36 V
8	48 V

Options (various versions possible)

A	Analog speed control input (input voltage: 0...5 / 0...10 V DC)
D	Reinforced flange corners with through-holes (series 44xx F) Constant speed control regardless of operating voltage
DV	Diagonal Venturi fan
E	Economy fan with round flange
F	Flat construction / frequency-modulated signal
G	Sleeve bearing
H	High speed
HH	Further increased speed
H3-H8	Additional further increased speeds (H8 - maximum fan speed)
I	Integrated temperature sensor (NTC behavior, i.e. thermistor)
J	Jet characteristic / rigid curve
L	Low speed
M	Medium speed
ML	Between low and medium speed
N	Standard or basic speed (only DC fans)
O	Multi-option speed control input (analog or PWM signal)
P	PWM speed control input (pulse-width modulated signal)
R	Moisture protection coating
S	Circuit board and winding (IP 20), optional stainless steel ball bearing
T	Speed signal (additional wires for hall signal, obsolete technology)
TD	External temperature sensor (NTC behavior, i.e. thermistor)
TD	Turbo drive (extremely powerful 3-phase motor)
U	Environmentally friendly fan (min. IP 54)
V / VP	VARIOFAN
W	Additional wires (standard length 310 mm)
X	Mounting bore hole 3.7 mm
-xxx	Variant number

Type code

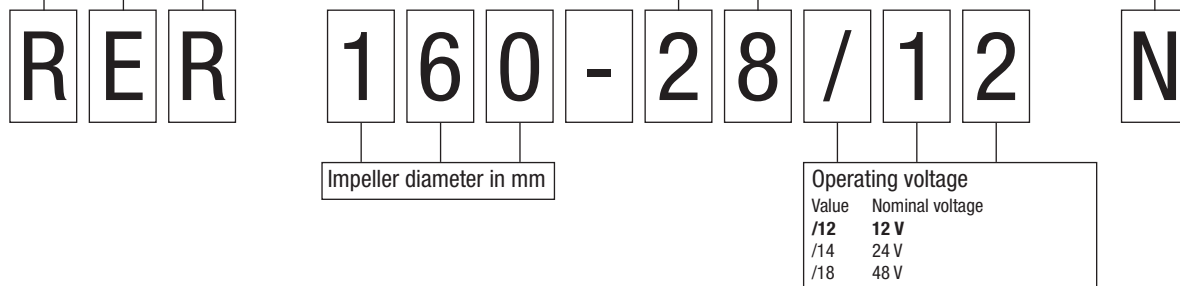
DC centrifugal fan e.g. RER 160-28/12 N

Type	Housing and fan impeller versions	
	Housing	Impeller blade design
RE	None	Non-curved, no direction of rotation set
REF	None	Forward/backward-curved impeller blades, flat
RER	None	Backward-curved impeller blades
RET	None	Forward-curved impeller blades
RG	Square	Forward/backward-curved impeller blades
RL	Round	Forward-curved impeller blades
RLF	Round	Forward/backward-curved impeller blades, flat
RV	Round	Forward-curved impeller blades

Fan impeller blade height

Options (various versions possible)

A	Analog speed control input (input voltage: 0...5 / 0...10 V DC)
D	Reinforced flange corners with through-holes (series 44xx F) Constant speed control regardless of operating voltage
E	Economy fan with round flange
F	Flat construction / frequency-modulated signal
G	Sleeve bearing
H	High speed
HH	Further increased speed
H3-H8	Additional further increased speeds (H8 - maximum fan speed)
I	Integrated temperature sensor (NTC behavior, i.e. thermistor)
J	Jet characteristic / rigid curve
L	Low speed
M	Medium speed
ML	Between low and medium speed
N	Standard or basic speed (only DC fans)
O	Multi-option speed control input (analog or PWM signal)
P	PWM speed control input (pulse-width modulated signal)
R	Moisture protection coating Circuit board and winding (IP 20), optional stainless steel ball bearing
S	Speed signal (additional wires for hall signal, obsolete technology)
T	External temperature sensor (NTC behavior, i.e. thermistor)
TD	Turbo drive (extremely powerful 3-phase motor)
U	Environmentally friendly fan (min. IP 54)
V / VP	VARIOFAN
W	Additional wires (standard length 310 mm)
X	Mounting bore hole 3.7 mm
-xxx	Variant number

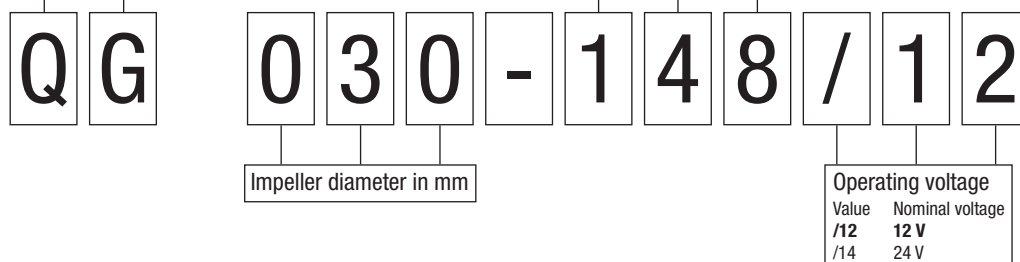


Crossflow blower e.g. QG 030-148/12

Type	Housing and fan impeller versions	
	Housing	Impeller blade design
QG	Round	Compressor drum

Housing dimensions (W x H)

Value	Edge dim. (W x H)	Impeller length	Total length
148	48 x 50 mm	148 mm	201 mm
198	48 x 50 mm	198 mm	258 mm
303	48 x 50 mm	303 mm	363 mm
353	48 x 50 mm	353 mm	413 mm



All measurements are given in mm.

Type code

4-digit GreenTech EC tubeaxial fans axial fan e.g. ACi 4420 HH

Housing dimensions (W x H x D)			Operating voltage				Options (various versions possible)	
Value	Edge dim. (W x H)	Installation depth (D)	Value	Nominal voltage	Frequency	Version		
1	Ø 98.5 mm	130 mm	0	115 / 230 V	50 / 60 Hz	Wide voltage range input (85-265 V AC)	A	Analog speed control input (input voltage: 0...5 / 0...10 V DC)
3	92 x 92 mm	38 mm	1	115 V	50 Hz		D	Reinforced flange corners with through-holes (series 44xx F)
4	119 x 119 mm	25 / 32 / 38 mm	2	230 V	50 Hz		E	Constant speed control regardless of operating voltage
6	Ø 172	51 mm					F	Economy fan with round flange
8	80 x 80 mm	32 mm					G	Flat construction / frequency-modulated signal
							H	Sleeve bearing
							HH	High speed
							HH	Further increased speed
							H3-H8	Additional further increased speeds (H8 - maximum fan speed)
							I	Integrated temperature sensor (NTC behavior, i.e. thermistor)
							J	Jet characteristic / rigid curve
							L	Low speed
							M	Medium speed
							ML	Between low and medium speed
							N	Standard or basic speed (only DC fans)
							O	Multi-option speed control input (analog or PWM signal)
							P	PWM speed control input (pulse-width modulated signal)
							R	Moisture protection coating
							S	Circuit board and winding (IP 20), optional stainless steel ball bearing
								obsolete technology)
							T	Speed signal (additional wires for hall signal, external temperature sensor (NTC behavior, i.e. thermistor)
							TD	Turbo drive (extremely powerful 3-phase motor)
							U	Environmentally friendly fan (min. IP 54)
							V / VP	VARIOFAN
							W	Additional wires (standard length 310 mm)
							X	Mounting bore hole 3.7 mm
							-xxx	Variant number

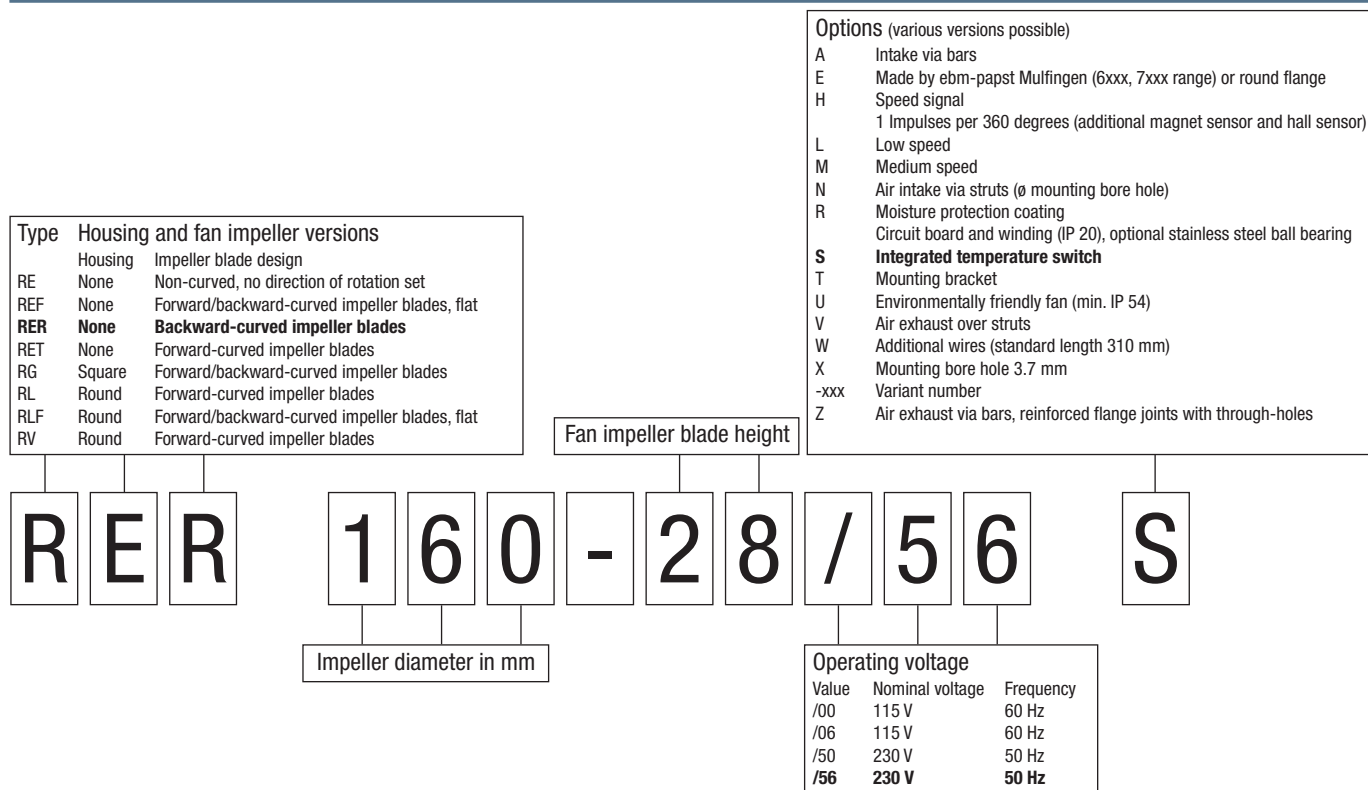
AC axial fan e.g. 3950 L

Housing dimensions (W x H x D)			Operating voltage			Options (various versions possible)	
Value	Edge dim. (W x H)	Installat. depth (D)	Value	Nominal voltage	Frequency		
3	92 x 92 mm	25 / 38 mm	0	115 V	60 Hz	A	Intake via bars
4	119 x 119 mm	25 / 32 / 38 mm	2	115 V	60 Hz	E	Made by ebm-papst Mulfingen (6xxx, 7xxx range) or round flange
5	127 x 127 mm	38 mm	3	115 V	60 Hz	H	Speed signal
5	135 x 135 mm	38 mm	4	115 V	50 Hz		1 Impulses per 360 degrees (additional magnet sensor and hall sensor)
5	140 x 140 mm	51 mm	5	230 V	50 Hz	L	Low speed
6	Ø 172 mm	51 / 52 mm	6	115 V / 230 V	50 Hz / 60 Hz	M	Medium speed
7	Ø 150 mm	55 mm	7	230 V	50 Hz	N	Air intake via struts (Ø mounting bore hole)
7	Ø 150 x 172 mm	38 mm	8	230 V	60 Hz	R	Moisture protection coating
8	80 x 80 mm	38 mm	9	230 V	60 Hz		Circuit board and winding (IP 20), optional stainless steel ball bearing
9	119 x 119 mm	25 mm				S	Integrated temperature switch
						T	Mounting bracket
						U	Environmentally friendly fan (min. IP 54)
						V	Air exhaust over struts
						W	Additional wires (standard length 310 mm)
						X	Mounting bore hole 3.7 mm
						-xxx	Variant number
						Z	Air exhaust over struts, reinforced flange corners with through-holes

All measurements are given in mm.

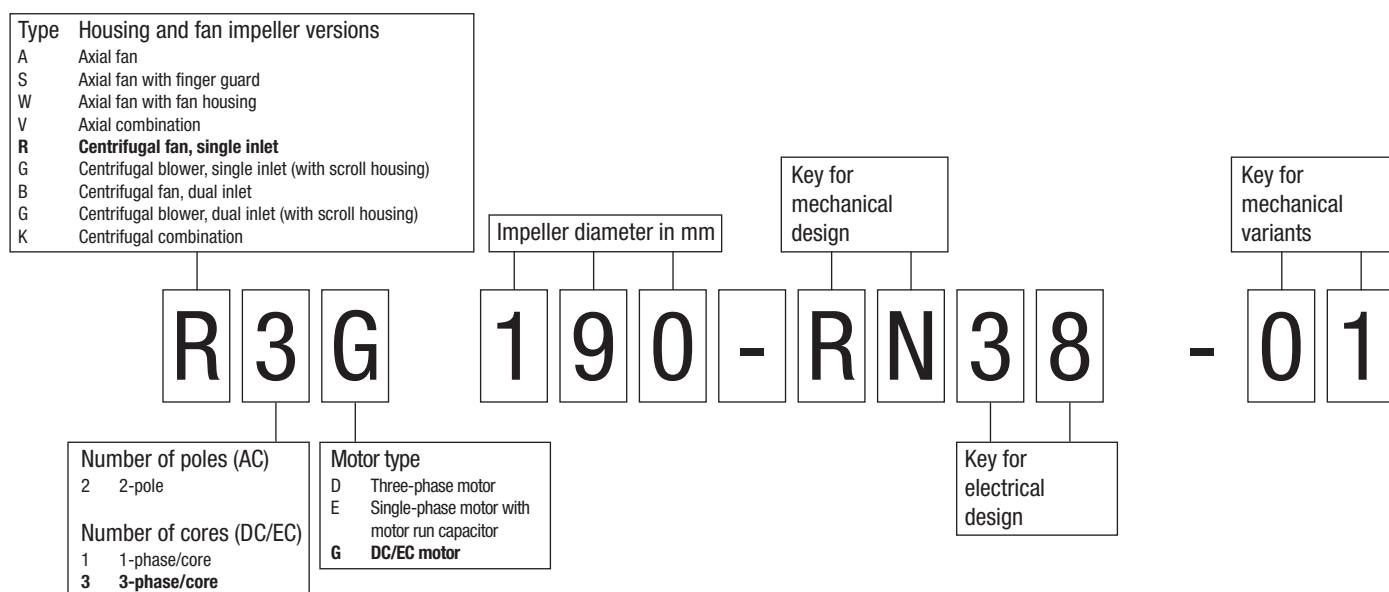
Type code

AC centrifugal fan e.g. RER 160-28/56 S



DC centrifugal fan e.g. R3G 190-RN 38-01

Note: This type code specifies fans from ebm-papst Mulfingen and can be used to clearly identify and order them:



All measurements are given in mm.